



COMPTON COLLEGE – STUDENT HOUSING

Lighting Cutsheet Package

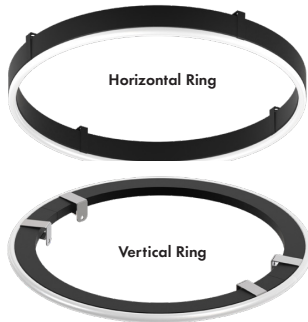


www.p2sinc.com

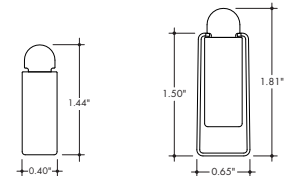
April 10, 2023
P2S Project #J22-0843

Plexineon Rings Surface Mount

Static White and Monochrome Colors



- Easy to install, for interior and exterior accent lighting
- Neon look providing a crisp, clear line of light visible for miles
- Mounting Clips are included in the appropriate quantities
- Operating Temperature: -40° F to 140° F (-40° C to 60° C)
- 24VDC Class 2
- IK10 and 3G rated
- IP67 rated. IP68 rating available upon specific request
- 5 year warranty indoor, 3 year warranty outdoor



Without Mounting Clip

With Mounting Clip



Technical Information

RING OUTER DIAMETER* (inch)	Plexineon Static White (30K)	Plexineon Monochrome Colors					
		Red	Blue	Green	Magenta	Teal	Yellow
WAVELENGTH	N/A	622 nm	468 nm	525 nm	567 nm	486 nm	563 nm
EFFICACY	39 lm/W	12.1 lm/W	8.1 lm/W	33.8 lm/W	9.2 lm/W	20.9 lm/W	23.2 lm/W
Ø36 (Ø3ft)	Lumen Output	1159 lm	132 lm	104 lm	471 lm	226 lm	584 lm
	Power Consumption	30.2 W	11.3 W	13.2 W	14.1 W	24.5 W	25.4 W
Ø72 (Ø6ft)	Lumen Output	2318 lm	264 lm	207 lm	942 lm	452 lm	1169 lm
	Power Consumption	60.3 W	22.6 W	26.4 W	28.3 W	49.0 W	50.9 W
Ø144 (Ø12ft)	Lumen Output	4637 lm	528 lm	415 lm	1885 lm	905 lm	2337 lm
	Power Consumption	120.6 W	45.2 W	52.8 W	56.5 W	98.0 W	101.8 W
Ø288 (Ø24)	Lumen Output	9274 lm	1056 lm	829 lm	3770 lm	1810 lm	4675 lm
	Power Consumption	241.3 W	90.5 W	105.6 W	113.1 W	196.0 W	218.7 W

*Rings will be made of equal sections no longer than 96" arc length. Rings exceeding 96W will have allowances for additional power feeds.

CCT	Multiplier (reference - 3000K)	TM-30		
		CRI	R _f	R _g
2700K	0.94	90	88	97
3000k	1.00	90	87	97
3500k	1.02	90	87	97
4000k	1.02	90	84	92

Ordering Code

MODEL	RING DIAMETER ¹	RING TYPE	CCT	OUTPUT	LENS	MOUNTING ³	FINISH	POWERFEED POSITION/TYPE
PX-Plexineon	___-Ring diameter in inches, 6"-288" (24ft)	HR-Horizontal Ring VR-Vertical Ring ²	27K-2700K 30K-3000K 35K-3500K 40K-4000K B-Blue G-Green T-Teal Y-Yellow R-Red M-Magenta	SO-Standard	F-Frosted	SM-Surface Mount SML-Surface Mount, L-Tab Clips SMS-Surface Mount, S-Tab Clips SMD-Surface Mount Decorative Clips ⁴	GG-Gloss Grey BK-Matte Black GY-Matte Grey WH-Matte White	B-4-Male Quick Connect One End, Female Quick Connect Other End

1. Rings will be made of equal sections no longer than 96" arc length. Tolerance on size of diameter is +/- 1".
 2. Vertical Rings are Convex Bends with the light directed outwards, min diameter 16".
 3. 2 mounting clips included for every 12" of diameter, with a minimum of 3 clips.
 4. Decorative Clips match the fixture finish, are for indoor use only.

Plexineon Rings Surface Mount

Static White and Monochrome Colors



Finish Options

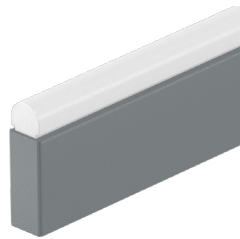
BK
Matte Black Finish



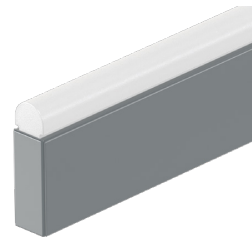
WH
Matte White Finish



GY
Matte Grey Finish



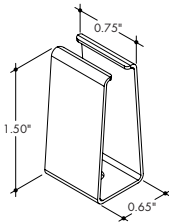
GG
Gloss Grey Finish



Mounting Clips

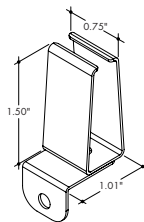
- Mounting Clips are included with Plexineon runs in the appropriate quantity, every 30" of linear/arc length for Standard Clips and every 18" of linear/arc length for Decorative Clips.
- Standard Clips have a stainless steel finish, Decorative Clip finishes match the fixture finishes.
- Standard Clip mounting hole is $\varnothing 0.2"$, Decorative Clip mounting hole is $\varnothing 0.16"$.

SM
75-CLP16-001-00
Surface Mount, Standard Clip



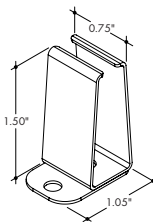
Used for mounting direct to surfaces

SML
75-CLP15-001-00
Surface Mount, L-Tab Clip



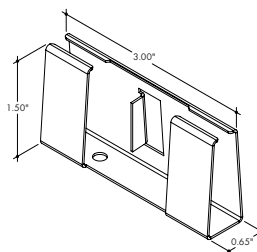
Used for mounting to adjacent surfaces

SMS
75-CLP17-001-00
Surface Mount, S-Tab Clip



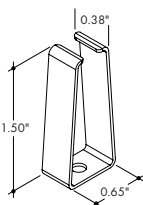
Used for to reduce install time and mounting direct to surfaces with fixture pre-assembled to clips

75-CLP19-001-00
Surface Mount, Standard Joiner Clip



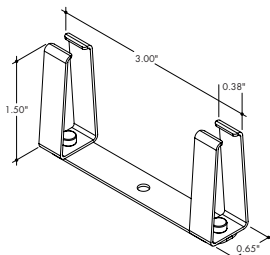
Used to join two fixtures together

SMD
75-CLP36-001-0X
Surface Mount, Decorative Clip



Thinner clip with finish options to match fixtures

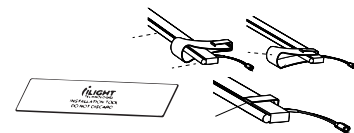
75-CLP37-001-0X
Surface Mount, Decorative Joiner Clip



Thinner clip with finish options to match and join two fixtures together for a continuous run

OX	Clip Finish
00	Stainless Steel
01	Matte Black
02	Matte Grey
03	Matte White

70-TOL02-001-01
Mounting Clip Installation Tool



Use for installation of Plexineon into Mounting Clips

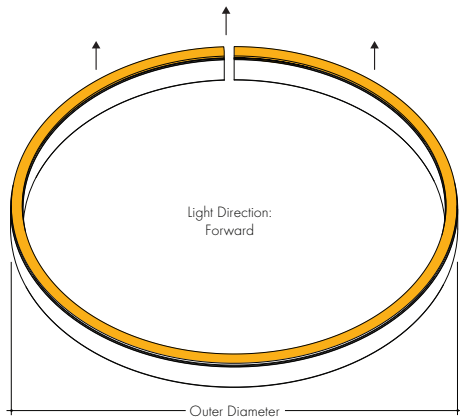
Plexineon Rings Surface Mount

Static White and Monochrome Colors

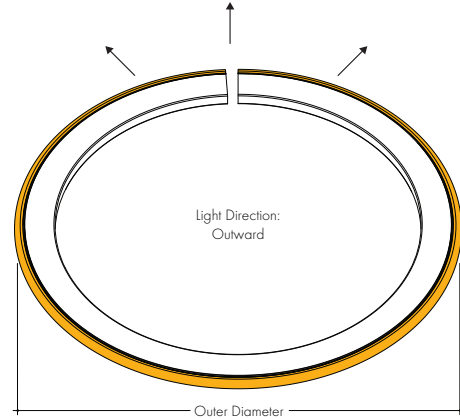


Ring Types

HR
Horizontal Ring



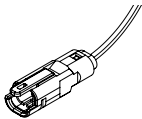
VR
Vertical Ring



Additional Material

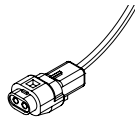
- Ordered separately.

60-H-0002-08
Female Quick Connect
with flying leads



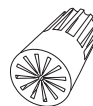
Female Quick Connect with flying leads can be connected to the Power Supply at the start of a run. Can also be used with the Male Quick Connect to make wire jumpers. Use color suffix -08 for Black, -09 for Grey, or -10 for White

60-H-0001-08
Male Quick Connect
with flying leads



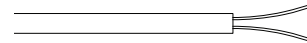
Male Quick Connect with flying leads can be used to make wire jumpers. Use color suffix -08 for Black, -09 for Grey, or -10 for White

60-12-22AWGSBWN
Weatherproof Wire Nut
Silicone Filled



Order 2 per Power Supply

55-STW02-050-00
50 ft of 14 gauge wire Black jacket,
2 conductors



Sunlight, moisture resistant, and flame retardant PVC jacket per UL 1277

Plexineon Rings Surface Mount

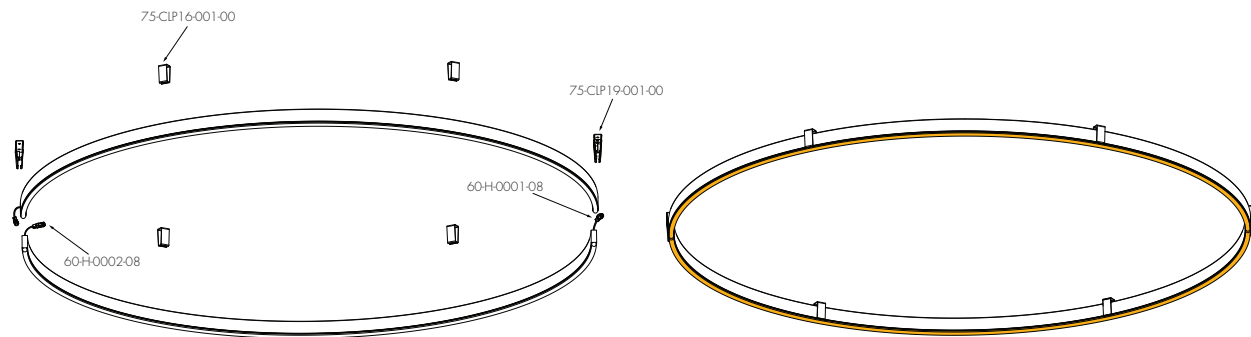
Static White and Monochrome Colors



Sample Layout

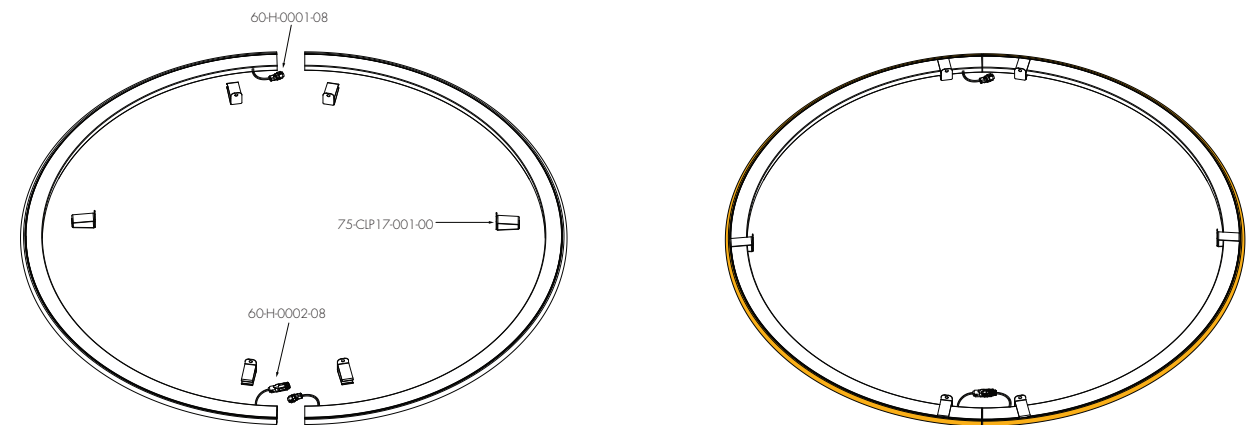
PX-48-HR-30K-SO-F-5M-GG-B-4

Plexineon Horizontal Ring, Standard Mounting Clips



PX-32-VR-30K-SO-F-5M-GG-B-4

Plexineon Vertical Ring, Standard Mounting Clips



Plexineon Rings Surface Mount

Static White and Monochrome Colors



Common Applications

Custom Indoor Designs | Coves | Signs | Building Facades | Lobbies | Hallways | Statement Pieces | Restaurants
Corporate Offices | Schools | Residential Towers | Parking Garages | Hotels | Bridges | Benches | Airports



Plexineon Rings Surface Mount

Static White and Monochrome Colors

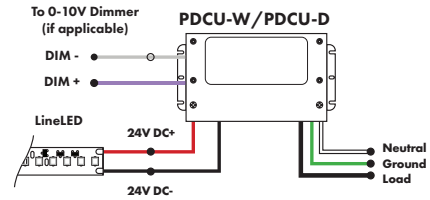


Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Universal Power Supply 1% 120VAC - 277VAC

MODEL	POWER	OUTPUT
PDCU-D - IP20 Dry Series	30 - 30 W 60 - 60 W 96 - 96 W 3X96 - 3X96 W	24 - 24 VDC
PDCU-W - IP66 Wet Series	96 - 96 W 3X96 - 3X96 W	

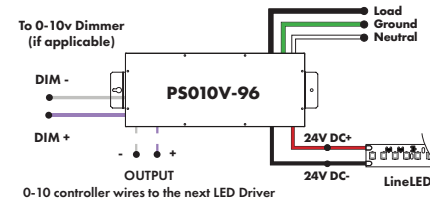


0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.
For a complete list of compatible dimmers, see [Compatible Dimming Chart](#) on the Resources page.

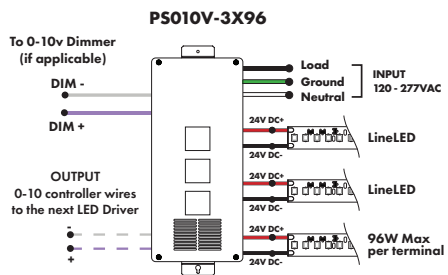
MODELS	PDCU-W 96W	PDCU-W 3X96W	PDCU-D 30W	PDCU-D 60W	PDCU-D 96W	PDCU-D 3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33"	1.32"	1.56"	1.13"

0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING
PS010V - 0-10V Power Supply dims down to 0.1%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC	LIN - linear LOG - Logarithmic



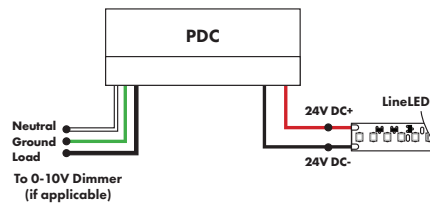
MODELS	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"



Triac, MLV, & ELV Compatible Dimmers

MODEL	POWER	OUTPUT
PDC - (IP20) Power Supply	96 - 96 Watts	24 - 24 VDC

MODELS	96W
Length	8.25"
Width	4.10"
Depth	1.56"



Plexineon Rings Surface Mount

Static White and Monochrome Colors



Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

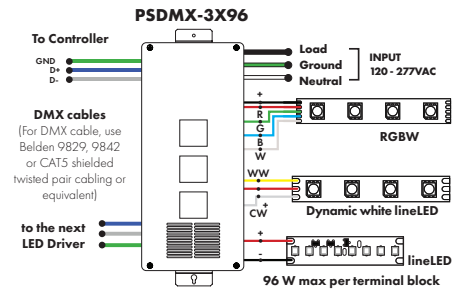
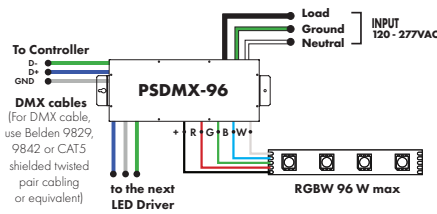
DMX Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDMX	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

PSDMX - DMX Power Supply dims down to 0%

Features eldoLED's LINEARdrive configurable dimmable drivers

MODELS	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"



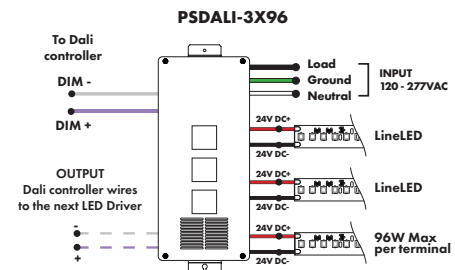
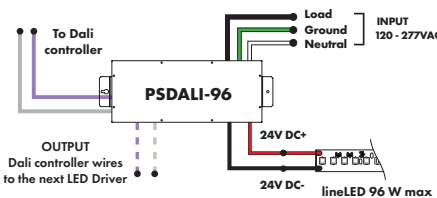
DALI 0% Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDALI	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

PSDALI - DALI Power Supply dims down to 0%

Features eldoLED's LINEARdrive configurable dimmable drivers

Model	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"

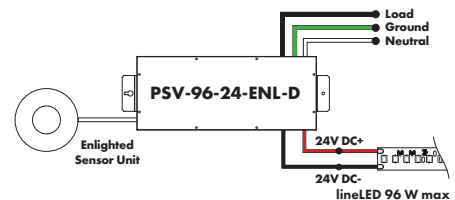


Enlighted Enabled Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV	96 - 96 Watt	24 - 24 VDC	ENL - Enlighted Dimming dims down to 0%	D - Damp

PSV - PSV Series

Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"



Plexineon Rings Surface Mount

Static White and Monochrome Colors



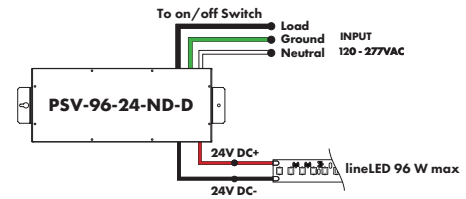
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Non-Dimming Power Supply 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	U2ND - Non Dimming	D - Damp

MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"



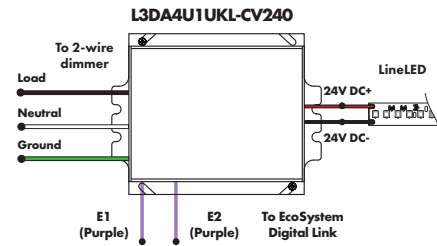
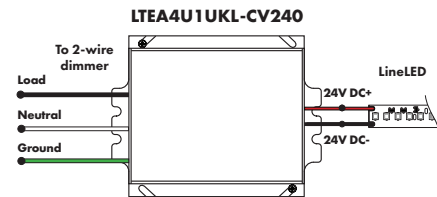
Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 1%

MODEL	MODEL
LTEA4U1UKL-CV240	L3DA4U1UKL-CV240
Lutron - HiLume™ 1% 2-wire LED Driver 40W max	HiLume™ 1% EcoSystem Voltage LED driver 40W max

(120V forward phase only)

MODELS	LTEA4U1UKL-CV240	L3DA4U1UKL-CV240
Length	4.89"	4.98"
Width	4.00"	4.00"
Depth	2.62"	2.62"



Plexineon Rings Surface Mount

Static White and Monochrome Colors



Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.



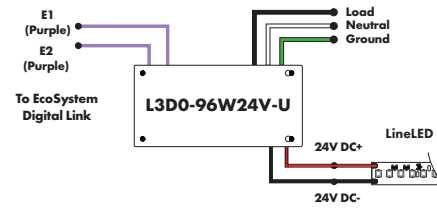
Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 0.1%

MODEL
L3D0-96W24V-U

Hilume™ 0.1% EcoSystem Voltage LED Driver with Soft-On, Fade-to-Black™ 96W max

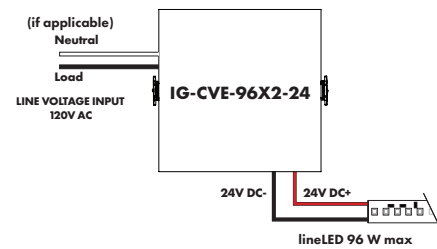
MODELS	L3D0
Length	10.50"
Width	5.50"
Depth	2.00"



In-Ground Power Supplies

MODEL	POWER	OUTPUT	INPUT
IG - In ground CVE Series	96X2 - 2 X 96 Watt	24 - 24 VDC	Blank - 120 V 277 - 240/277 V
	CVE - ELV Dimming DALI - eldoLED Dali dimming Both dims down to 0%		

MODELS	Dual Circuit
Length	8.40"
Width	8.30"
Depth	8.10"



VERS-PROUD (01)

Linear Fixtures - Surface



The VERS Proud is a finished aluminum fixture utilizing an extruded lens that sits proud of the fixture for maximum variations of LED sources. The high-quality Proud lens provides a delicate glow at the edges of the fixture, creating a slim line of light. Integrated metal endcaps combined with an extruded aluminum housing give this fixture a polished modern look suitable for dry, damp, and wet locations.

Part Number Builder

Static White



Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-SW													
Voltage: 24 VDC Typical lumens at 5.0W/ft with FR lens at 3000K: 423 lm/ft	1.5	20	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
	3.0	22											
	4.0	24											
	5.0	27											
	6.0	30											
	1.5	24	DMP (IP54)	P1 P2 P3 P4 Pass through	BW CON6 CON24	BW CON6 CON24							
	3.0	27											
	4.0	30											
	5.0	35											
	6.0	40											
	1.5	20	WET (IP67)										
	3.0	22											
4.0	24												
5.0	27												
6.0	30												

*Available in 1" increments for 1.5W/ft - 5.0W/ft and 2" increments for 6.0W/ft. Maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

Static White High Efficacy



Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-SW													
Voltage: 24 VDC Typical lumens at 6.0W/ft with FR lens at 3000K: 681 lm/ft	1.5HE	20	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
	3.0HE	22											
	6.0HE	24											
	9.0HE	27											
		30											
	1.5HE	24	DMP (IP54)	P1 P2 P3 P4 Pass through	BW CON6 CON24	BW CON6 CON24							
	3.0HE	27											
	6.0HE	30											
		35											
		40											

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

- **BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire
- **One Step, One Bin** based on 5W/ft

- 5 year warranty
- Field modifications void warranty
- Data subject to change, all data has +/- 5% tolerance
- Compatible for use with Q-Tran power supplies
- Suitable for installation in the storage area of a clothes closet when using wattage of 4.0W/ft or less

VERS-PROUD (01)

Linear Fixtures - Surface



Dynamic White

Product	W/FT	CCT	Rated	Lens	Louver	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-DW	6.0												
Voltage: 24 VDC		20/27 20/30	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 6.0W/ft with FR lens at 3000K: 251 lm/ft		24/30	DMP (IP54)			Single (Closed exit)							
		20/27 20/30	WET (IP67)			P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24					
						Pass through							

*Available in 2" increments to 96", plus end caps. See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

Dynamic White High Efficacy

Product	W/FT	CCT	Rated	Lens	Louver	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-DW													
Voltage: 24 VDC		3.0HE 5.0HE 8.0HE	20/27 20/30 27/40 27/55	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH
Typical lumens at 5.0W/ft with FR lens at 3000K: 247 lm/ft		3.0HE 5.0HE	24/30 27/40	DMP (IP54)			Single (Closed exit)						
		3.0HE 5.0HE	20/27 20/30 27/40 27/55	WET (IP67)			P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24				
						Pass through							

*Available in 2" increments to 96", plus end caps. See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

Warm Dim

Product	W/FT	CCT	Rated	Lens	Louver	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-WD	6.0												
Voltage: 24 VDC		19/27 19/30	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 6.0W/ft with FR lens at 3000K: 479 lm/ft			WET (IP67)			Single (Closed exit)							
						P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24					
						Pass through							

Only compatible with QZ and QZLP. Not compatible with other power supplies such as QTM-eLED+WD and QOM-eLED+WD.

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

- **BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

<ul style="list-style-type: none"> • 5 year warranty • Field modifications void warranty 	<ul style="list-style-type: none"> • Data subject to change, all data has +/- 5% tolerance • Compatible for use with Q-Tran power supplies
--	--

VERS-PROUD (01)

Linear Fixtures - Surface



Static Color **5 YEAR WARRANTY**

Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)	
VERS-01-SC	5.0													
Voltage: 24 VDC		GR BL RD AB	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH		
Typical lumens at 5.0W/ft with FR lens in green: 554 lm/ft			DMP (IP54)				P1 P2 P3 P4 Pass through	BW CON6 CON24	BW CON6 CON24					
			WET (IP67)											

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

RGB **5 YEAR WARRANTY**

Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-RGB	6.0	RGB											
Voltage: 24 VDC			DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 6.0W/ft with FR lens in green: 175 lm/ft			DMP (IP54)			P1 P2 P3 P4 Pass through	BW CON6 CON24	BW CON6 CON24					
			WET (IP67)										

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

RGBW **5 YEAR WARRANTY**

Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)	
VERS-01-RGBW	6.0													
Voltage: 24 VDC		RGBW-27 RGBW-30	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH		
Typical lumens at 6.0W/ft with FR lens at 3000K: 143 lm/ft			DMP (IP54)				P1 P2 P3 P4 Pass through	BW CON6 CON24	BW CON6 CON24					
			WET (IP67)											

*Available in 4" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

- **BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

- | | |
|--|---|
| <ul style="list-style-type: none"> • 5 year warranty • Field modifications void warranty • Data subject to change, all data has +/- 5% tolerance • Compatible for use with Q-Tran power supplies | <ul style="list-style-type: none"> • Suitable for installation in the storage area of a clothes closet when using wattage of 4.0W/ft or less • Florida Fish and Wildlife Conservation Commission (FWC) rated strips: DRY and WET rated, Red and Amber |
|--|---|

VERS-PROUD (01)

Linear Fixtures - Surface



RGBW High Efficacy



Product	W/FT	CCT	Rated	Lens	Louver	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01- RGBW													
Voltage: 24 VDC	4.0HE 8.0HE	RGBW-27 RGBW-30	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4 <small>Single (Closed exit)</small>	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 4.0W/ft with FR lens at 3000K: 85 lm/ft	4.0HE	RGBW-27 RGBW-30	DMP (IP54) WET (IP67)			P1 P2 P3 P4 <small>Pass through</small>	BW CON6 CON24	BW CON6 CON24					

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

- **BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

<ul style="list-style-type: none"> • 5 year warranty • Field modifications void warranty 	<ul style="list-style-type: none"> • Data subject to change, all data has +/- 5% tolerance • Compatible for use with Q-Tran power supplies
--	--

VERS-PROUD (01)

Linear Fixtures - Surface



Technical Information Delivered lumens
See photometric files for complete details.

Static White [Calculated L70 = 70000 hrs]
Tested with VERS-01-SW-**-30-DRY-**

	1.5W/FT		3.0W/FT		4.0W/FT		5.0W/FT		6.0W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	156	98	270	98	348	98	423	98	493	98
PR	152	98	261	98	338	98	409	98	475	98
DF	138	97	240	98	310	98	370	98	432	98

Static White High Efficacy

[Calculated L70 = 70000 hrs]
Tested with VERS-01-SW-**-30-DRY-**

	1.5HE W/FT		3.0HE W/FT		6.0HE W/FT		9.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	197	98	374	98	681	98	995	98
PR	190	98	360	98	669	98	968	98
DF	172	98	326	98	616	98	874	98

Dynamic White

[Calculated L70 = 70000 hrs]
Tested with VERS-01-DW-6.0-**-DRY-**

	2000K		2700K		3000K	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	216	94	238	97	251	98
PR	211	94	231	97	244	98
DF	190	94	209	97	217	98

Dynamic White High Efficacy

[Calculated L70 = 70000 hrs]
Tested with VERS-01-DW-5.0HE-**-DRY-**

	2000K		2700K		3000K		4000K		5500K	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	209	93	237	98	247	98	253	97	276	97
PR	203	93	230	98	238	98	245	97	270	97
DF	183	93	208	98	213	98	218	97	242	97

Static Color [Calculated L70 = 30000 hrs]

Tested with VERS-01-SC-5.0-**-DRY-**

	Red		Green		Blue		Amber	
	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
FR	116	634	554	519	127	467	86	595
PR	111	634	546	519	123	467	80	596
DF	105	634	490	519	114	467	73	596

Warm Dim

[Calculated L70 = 70000 hrs]
Tested with VERS-01-WD-6.0-**-DRY-**

	2700K		3000K	
	LM/FT	CRI	LM/FT	CRI
FR	462	97	479	97
PR	445	97	460	97
DF	402	97	417	97

RGB [Calculated L70 = 55000 hrs]

Tested with VERS-01-RGB-6.0-RGB-DRY-**

	Red		Green		Blue	
	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
FR	87	632	175	523	47	471
PR	85	632	172	524	45	470
DF	77	632	154	523	42	469

RGBW [Calculated L70 = 30000 hrs]

Tested with VERS-01-RGBW-6.0-**-DRY-**

	2700K		3000K		Red		Green		Blue	
	LM/FT	CRI	LM/FT	CRI	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
FR	133	92	143	92	39	631	112	514	33	462
PR	128	92	139	92	38	632	108	515	31	464
DF	117	93	128	92	35	631	100	515	29	464

RGBW High Efficacy [Calculated L70 = 70000 hrs]

Tested with VERS-01-RGBW-4.0HE-**-DRY-**

	2700K		3000K		Red		Green		Blue	
	LM/FT	CRI	LM/FT	CRI	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
FR	71	97	85	97	26	628	115	524	30	469
PR	67	97	84	97	25	628	113	524	29	469
DF	59	97	74	97	23	629	103	524	26	469

Temperature Ratings Dependent on LED Strip W/FT

Light Engine (LED Strip)	W/FT	Minimum Limit (°F)	Maximum Limit (°F)
Static White	1.5	-40	138
	3.0	-40	124
	4.0	-40	115
	5.0	-40	108
Static White High-Efficacy	1.5HE	-40	152
	3.0HE	-40	140
	6.0HE	-40	118
	9.0HE	-40	95

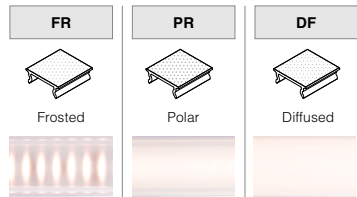
VERS-PROUD (01)

Linear Fixtures - Surface

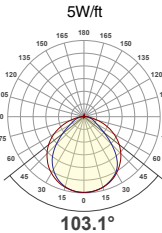


Lens

with LED visibility



Beam Angle

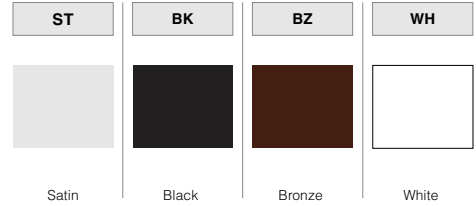


NOTE: Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see IES PDF file.



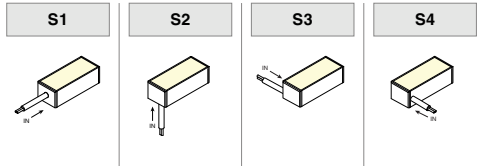
FR lens

Finish

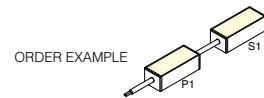
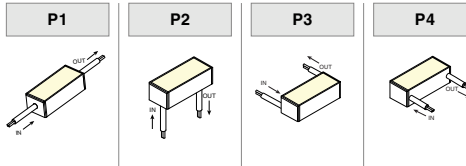


Input/Output

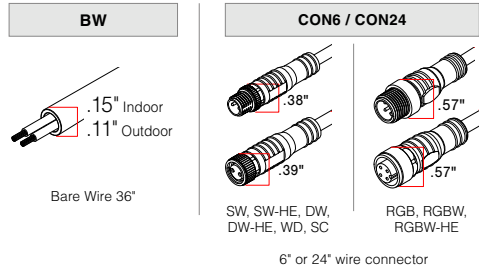
SINGLE (Input only)



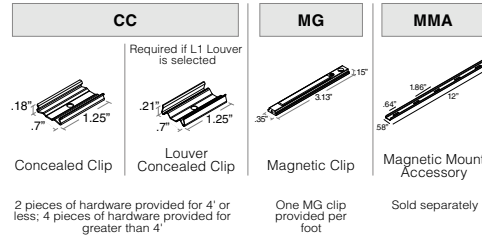
PASS THROUGH (Input/Output)



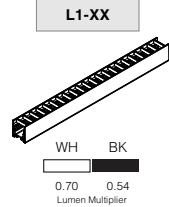
Connector/Wire – In/Out



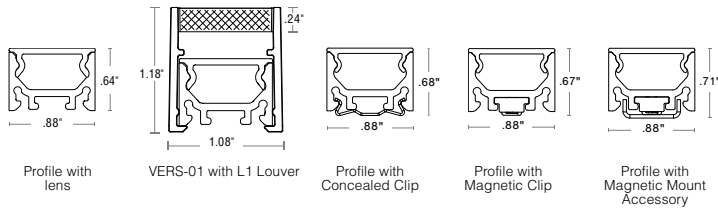
Mounting



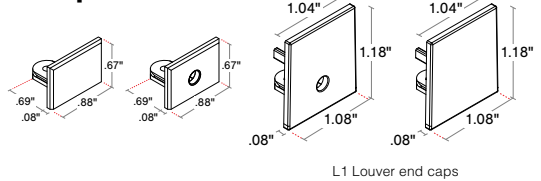
Louver



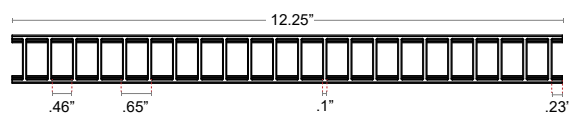
Dimensions



End Caps

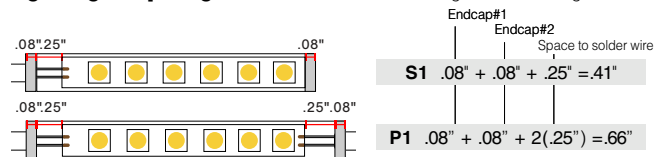


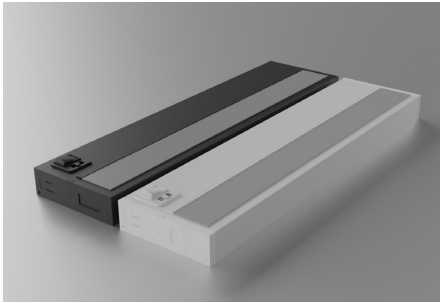
Louver



Light Engine Spacing Detail

Add to nominal LED length for fixture length





RULB

LED UNDERCABINET WITH COLOR TEMPERATURE SELECTABLE

JOB INFORMATION

Type: _____
 Catalog No: _____
 Project Name: _____
 Comments: _____
 Prepared by: _____

RULB

FEATURES

USE OF PRODUCT

The ideal product for energy efficient lighting for retrofit or new construction applications. It is a great replacement for existing fluorescent, incandescent, halogen, or xenon undercabinet lighting. This product may be used in hospitality, health care, commercial, retail, and residential applications. The RULB series will reduce energy consumption, emits little heat, and reduces cooling loads for added costs.

RULB FEATURES

- Voltage: 120V
- Color Temperature Selectable: 2700K, 3000K, 3500K
- Color Rendering Index: 90+ CRI
- LED Life: 50,000 hours
- Warranty: 5 Year Limited Warranty
- Finish: White or Black
- No LED pixelation or glare
- Dimmable
- Wide light distribution allows for continuous illumination when linked with end to end connectors

COLOR TEMPERATURE SELECTABLE

Rayon Lighting's all-in-one CCT Selectable LED undercabinet allows for easy control between 2700K, 3000K or 3500K color temperature with a simple switch.

LED DRIVER

Integral 120 Volt dimmable driver

DIMMING

Please refer to dimmer list

ELECTRICAL CONNECTION

RULB Series may be connected with direct wire or duplex plug. End to end connectors allow fixtures to be linkable.

INCLUDED ACCESSORIES

Captive Screws, Plastic Washer, Wire Connector, End to End Connector, On/Off Locker Switch, 3/8" Diecast Outlet

OPTIONAL ACCESSORIES

Power Cord, Linkable Connector with wire (Available in 5 different lengths). Junction Box.

LABELS / COMPLIANCE

UL/cUL Classified
 Damp Location Rated
 Can be used for State of California Title 24 & JA8 compliance.
 Energy Star

WATT AND LUMEN CHART

Length	Watts	Lumens
11"	6W	270lm
14"	9W	386lm
22"	11W	548lm
29"	13W	741lm
36"	16W	1130lm
48"	18W	1430lm

ORDERING INFO



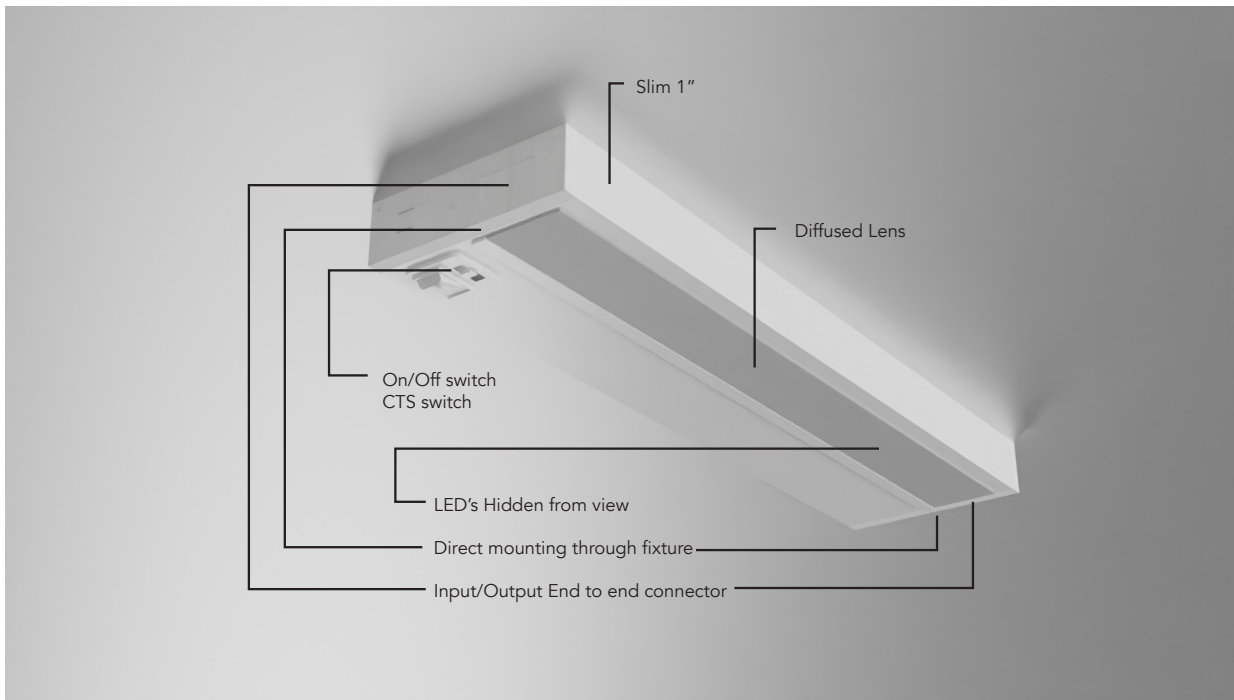
SERIES	Length	Color Temperature	Finish	Options
RULB	11 - 11"	CTS - Color temperature selectable (2700K, 3000K, 3500K)	W - White	LC24-W - White linkable connector with 24" lead wire
	14 - 14"		B - Black	LC24-BL - Black linkable connector with 24" lead wire
	22 - 22"			LC12-W - White linkable connector with 12" lead wire
	29 - 29"			LC12-BL - Black linkable connector with 12" lead wire
	36 - 36"			LC4-W - White linkable connector with 4" lead wire
	48 - 48"			LC4-BL - Black linkable connector with 4" lead wire
				LC3-W - White linkable connector with 3" lead wire
				LC3-BL - Black linkable connector with 3" lead wire
				LC2-W - White linkable connector with 2" lead wire
				LC2-BL - Black linkable connector with 2" lead wire
				PC120-W - White power cord
				PC120-BL - Black power cord
				JB-W - White J-Box
				JB-BL - Black J-Box



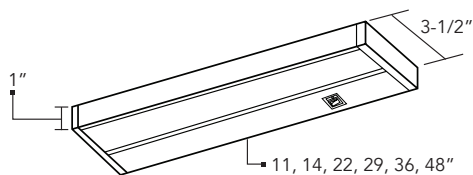
RULB

LED UNDERCABINET WITH COLOR TEMPERATURE SELECTABLE

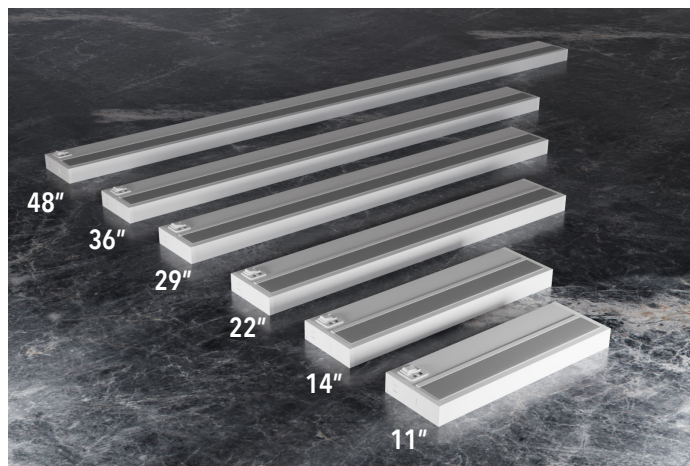
RULB ANATOMY



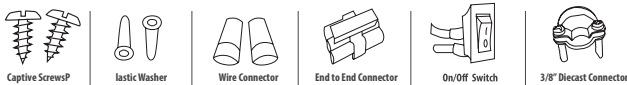
DIMENSIONS



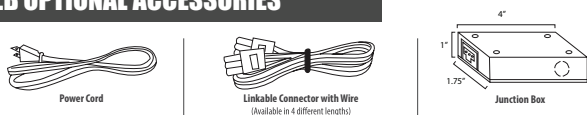
LENGTHS



ACCESSORIES



RULB OPTIONAL ACCESSORIES

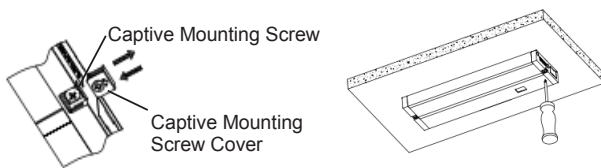


RULB

LED UNDERCABINET WITH COLOR TEMPERATURE SELECTABLE

MOUNTING FIXTURE

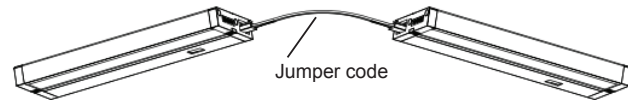
1. Remove Captive Mounting Screw Covers.
2. Place fixture in desired position and drive Mounting Screws securely. In some installations it may be desired to drill a pilot hole for the screws.
3. Replace the Captive Mounting Screw Cover.



JOINING MULTIPLE FIXTURES

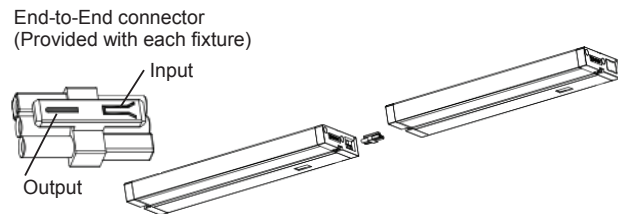
USING JUMPER CORD

1. Remove Electrical Port Covers.
2. Connect INPUT of Jumper cord to INPUT of electrical port.
3. Connect OUTPUT of Jumper cord to OUTPUT of electrical port.



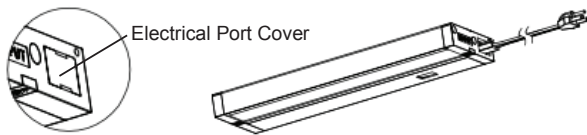
USING END-TO-END CONNECTOR

1. Remove Electrical Port Covers.
2. Connect INPUT of End-to-End connector to INPUT of electrical port.
3. Connect OUTPUT of End-to-End connector to OUTPUT of electrical port.



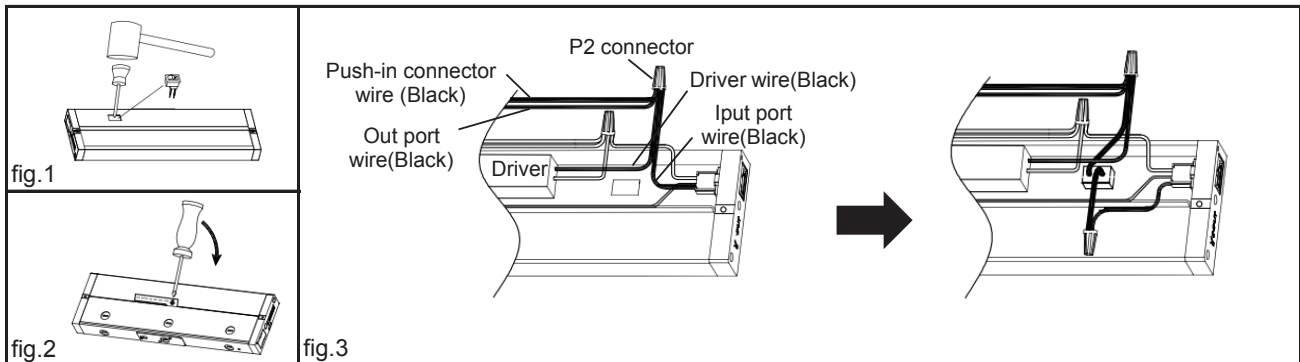
POWER CODE CONNECTION

Remove the Electrical Port Cover and insert the power cord into INPUT electrical port. (Power cord sold separately.)



SWITCH CONNECTION

1. Remove knockout in the front of fixture by using a hammer or punch and push a switch into the square hole. (Fig.1)
2. Open a cover in the back using a flat and sharp tool. (Fig.2)
3. Unscrew a P2 connector where 4 black wires are connected. (Fig.3)
4. Use a P2 connector (provided) and connect an INPUT port wire (Black) and a wire from switch. (Fig.3)
5. Use another P2 connector (provided) and connect a wire from Switch and the rest black wires. (Fig.3)
6. Replace the cover.



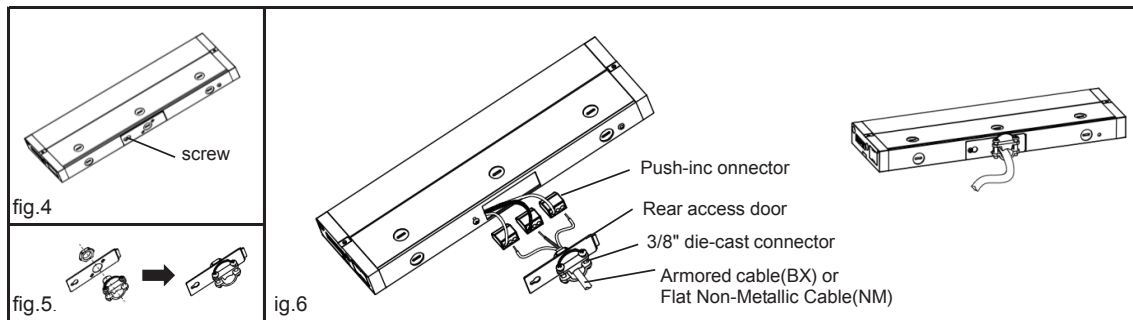
RULB

LED UNDERCABINET WITH COLOR TEMPERATURE SELECTABLE

UNDERCABINET INSTRUCTION

WIRING CONNECTIONS THROUGH A REAR ACCESS DOOR

1. Loosen screw that secures rear access door and remove the door from key hole by just a slide. (Fig.4)
2. Assemble 3/8" die-cast connector into Rear Access Door (Fig.5) and push supply cable through the die-cast connector . (Fig. 6)
3. Inside fixture are three wires with Push-in connectors. Carefully pull these out of fixture. Do not pull with excessive force.
4. Insert each of the three wires from the supply cable into each of the three Push-in connectors with respective color wires. Black to Black, White to White and Green (Earth wire) to green.
5. Neatly push wires and push-in connectors into opening in back of the fixture.
6. Close the Rear Access Door and tighten screw .



WIRING CONNECTIONS THROUGH A BACK SIDE COVER

1. Open a cover in the back using a flat and sharp tool.
2. Remove knockout and assemble 3/8" die-cast connector .
3. Push supply cable through the die-cast connector and connect wires using Push-in connector.
4. Replace the cover and close up.

DIMMER LIST

LUTRON	Model No.	Dimming Rate
	CT-603PG	10% - 100%
	CT-600PR-LA	10% - 100%
	CT-6000PR-IV	10% - 100%
	CT-600PR-WH	10% - 100%
	CT-600PR	10% - 100%
	DV603PG	10% - 100%
	DVW-603PGH-WH	10% - 100%
	DVCL-153P	10% - 100%
	MACL-153M	10% - 100%
	TGCL-153P	10% - 100%
	S-600PR-WH	10% - 100%
	S-2-LH	10% - 100%

LEVITON	Model No.	Dimming Rate
	6631	10% - 100%
	6633	10% - 100%
	1A1505	10% - 100%
	1C1605	10% - 100%

COOPER	Model No.	Dimming Rate
	DLV03P	10% - 100%

VERS-PROUD (01)

Linear Fixtures - Surface



The VERS Proud is a finished aluminum fixture utilizing an extruded lens that sits proud of the fixture for maximum variations of LED sources. The high-quality Proud lens provides a delicate glow at the edges of the fixture, creating a slim line of light. Integrated metal endcaps combined with an extruded aluminum housing give this fixture a polished modern look suitable for dry, damp, and wet locations.

Part Number Builder

Static White



Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)							
VERS-01-SW																				
Voltage: 24 VDC Typical lumens at 5.0W/ft with FR lens at 3000K: 423 lm/ft	1.5	20	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH								
	3.0	22																		
	4.0	24																		
	5.0	27																		
	6.0	30																		
	3.0	24	DMP (IP54)																	
	4.0	27																		
	5.0	30																		
	3.0	24										WET (IP67)								
	4.0	27																		
	5.0	30																		
	3.0	24	P1 P2 P3 P4 Pass through																	
4.0	27																			
5.0	30																			
3.0	24																			
4.0	27																			

*Available in 1" increments for 1.5W/ft - 5.0W/ft and 2" increments for 6.0W/ft. Maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

Static White High Efficacy



Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-SW													
Voltage: 24 VDC Typical lumens at 6.0W/ft with FR lens at 3000K: 681 lm/ft	1.5HE	20	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
	3.0HE	22											
	6.0HE	24											
	9.0HE	27											
	3.0	30											
	3.0HE	24	DMP (IP54)										
	6.0HE	27											
	3.0	30											
	6.0HE	35											
	3.0	40											
	3.0HE	24	P1 P2 P3 P4 Pass through										
	6.0HE	27											
3.0	30												
6.0HE	35												
3.0	40												

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

- **BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire
- **One Step, One Bin** based on 5W/ft

- 5 year warranty
- Field modifications void warranty
- Data subject to change, all data has +/- 5% tolerance
- Compatible for use with Q-Tran power supplies
- Suitable for installation in the storage area of a clothes closet when using wattage of 4.0W/ft or less

VERS-PROUD (01)

Linear Fixtures - Surface



Dynamic White 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Lens	Louver	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-DW	6.0												
Voltage: 24 VDC		20/27 20/30	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 6.0W/ft with FR lens at 3000K: 251 lm/ft		24/30	DMP (IP54)			Single (Closed exit)							
		20/27 20/30	WET (IP67)			P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24					
						Pass through							

*Available in 2" increments to 96", plus end caps. See fixture detail on page 6. Minimum fixture length 6".

See **VERS-01-SK** for suspended version.

Dynamic White High Efficacy 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Lens	Louver	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-DW													
Voltage: 24 VDC		3.0HE 5.0HE 8.0HE	20/27 20/30 27/40 27/55	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH
Typical lumens at 5.0W/ft with FR lens at 3000K: 247 lm/ft		3.0HE 5.0HE	24/30 27/40	DMP (IP54)			Single (Closed exit)						
		3.0HE 5.0HE	20/27 20/30 27/40 27/55	WET (IP67)			P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24				
						Pass through							

*Available in 2" increments to 96", plus end caps. See fixture detail on page 6. Minimum fixture length 6".

See **VERS-01-SK** for suspended version.

Warm Dim 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Lens	Louver	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-WD	6.0												
Voltage: 24 VDC		19/27 19/30	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 6.0W/ft with FR lens at 3000K: 479 lm/ft			WET (IP67)			Single (Closed exit)							
						P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24					
						Pass through							

Only compatible with QZ and QZLP. Not compatible with other power supplies such as QTM-eLED+WD and QOM-eLED+WD.

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See **VERS-01-SK** for suspended version.

- **BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

<ul style="list-style-type: none"> • 5 year warranty • Field modifications void warranty 	<ul style="list-style-type: none"> • Data subject to change, all data has +/- 5% tolerance • Compatible for use with Q-Tran power supplies
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VERS-PROUD (01)

Linear Fixtures - Surface



Static Color **5 YEAR WARRANTY**

Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)	
VERS-01-SC	5.0													
Voltage: 24 VDC		GR BL RD AB	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH		
Typical lumens at 5.0W/ft with FR lens in green: 554 lm/ft			DMP (IP54)			Single (Closed exit)								
			WET (IP67)			P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24						
						Pass through								

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

RGB **5 YEAR WARRANTY**

Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-RGB	6.0	RGB											
Voltage: 24 VDC			DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 6.0W/ft with FR lens in green: 175 lm/ft			DMP (IP54)			Single (Closed exit)							
			WET (IP67)			P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24					
						Pass through							

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

RGBW **5 YEAR WARRANTY**

Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)	
VERS-01-RGBW	6.0													
Voltage: 24 VDC		RGBW-27 RGBW-30	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH		
Typical lumens at 6.0W/ft with FR lens at 3000K: 143 lm/ft			DMP (IP54)				Single (Closed exit)							
							P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24					
						Pass through								

*Available in 4" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".





- **BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

- | | |
|--|---|
| <ul style="list-style-type: none"> • 5 year warranty • Field modifications void warranty • Data subject to change, all data has +/- 5% tolerance • Compatible for use with Q-Tran power supplies | <ul style="list-style-type: none"> • Suitable for installation in the storage area of a clothes closet when using wattage of 4.0W/ft or less • Florida Fish and Wildlife Conservation Commission (FWC) rated strips: DRY and WET rated, Red and Amber |
|--|---|

VERS-PROUD (01)

Linear Fixtures - Surface



RGBW High Efficacy    

Product	W/FT	CCT	Rated	Lens	Louver	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01- RGBW													
Voltage: 24 VDC	4.0HE 8.0HE	RGBW-27 RGBW-30	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4 <small>Single (Closed exit)</small>	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 4.0W/ft with FR lens at 3000K: 85 lm/ft	4.0HE	RGBW-27 RGBW-30	DMP (IP54) WET (IP67)			P1 P2 P3 P4 <small>Pass through</small>	BW CON6 CON24	BW CON6 CON24					

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

- **BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

<ul style="list-style-type: none"> • 5 year warranty • Field modifications void warranty 	<ul style="list-style-type: none"> • Data subject to change, all data has +/- 5% tolerance • Compatible for use with Q-Tran power supplies
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VERS-PROUD (01)

Linear Fixtures - Surface



Technical Information Delivered lumens
See photometric files for complete details.

Static White [Calculated L70 = 70000 hrs]
Tested with VERS-01-SW-**-30-DRY-**

	1.5W/FT		3.0W/FT		4.0W/FT		5.0W/FT		6.0W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	156	98	270	98	348	98	423	98	493	98
PR	152	98	261	98	338	98	409	98	475	98
DF	138	97	240	98	310	98	370	98	432	98

Static White High Efficacy

[Calculated L70 = 70000 hrs]
Tested with VERS-01-SW-**-30-DRY-**

	1.5HE W/FT		3.0HE W/FT		6.0HE W/FT		9.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	197	98	374	98	681	98	995	98
PR	190	98	360	98	669	98	968	98
DF	172	98	326	98	616	98	874	98

Dynamic White

[Calculated L70 = 70000 hrs]
Tested with VERS-01-DW-6.0-**-DRY-**

	2000K		2700K		3000K	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	216	94	238	97	251	98
PR	211	94	231	97	244	98
DF	190	94	209	97	217	98

Dynamic White High Efficacy

[Calculated L70 = 70000 hrs]
Tested with VERS-01-DW-5.0HE-**-DRY-**

	2000K		2700K		3000K		4000K		5500K	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	209	93	237	98	247	98	253	97	276	97
PR	203	93	230	98	238	98	245	97	270	97
DF	183	93	208	98	213	98	218	97	242	97

Static Color [Calculated L70 = 30000 hrs]

Tested with VERS-01-SC-5.0-**-DRY-**

	Red		Green		Blue		Amber	
	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
FR	116	634	554	519	127	467	86	595
PR	111	634	546	519	123	467	80	596
DF	105	634	490	519	114	467	73	596

Warm Dim

[Calculated L70 = 70000 hrs]
Tested with VERS-01-WD-6.0-**-DRY-**

	2700K		3000K	
	LM/FT	CRI	LM/FT	CRI
FR	462	97	479	97
PR	445	97	460	97
DF	402	97	417	97

RGB [Calculated L70 = 55000 hrs]

Tested with VERS-01-RGB-6.0-RGB-DRY-**

	Red		Green		Blue	
	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
FR	87	632	175	523	47	471
PR	85	632	172	524	45	470
DF	77	632	154	523	42	469

RGBW [Calculated L70 = 30000 hrs]

Tested with VERS-01-RGBW-6.0-**-DRY-**

	2700K		3000K		Red		Green		Blue	
	LM/FT	CRI	LM/FT	CRI	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
FR	133	92	143	92	39	631	112	514	33	462
PR	128	92	139	92	38	632	108	515	31	464
DF	117	93	128	92	35	631	100	515	29	464

RGBW High Efficacy [Calculated L70 = 70000 hrs]

Tested with VERS-01-RGBW-4.0HE-**-DRY-**

	2700K		3000K		Red		Green		Blue	
	LM/FT	CRI	LM/FT	CRI	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
FR	71	97	85	97	26	628	115	524	30	469
PR	67	97	84	97	25	628	113	524	29	469
DF	59	97	74	97	23	629	103	524	26	469

Temperature Ratings Dependent on LED Strip W/FT

Light Engine (LED Strip)	W/FT	Minimum Limit (°F)	Maximum Limit (°F)
Static White	1.5	-40	138
	3.0	-40	124
	4.0	-40	115
	5.0	-40	108
Static White High-Efficacy	1.5HE	-40	152
	3.0HE	-40	140
	6.0HE	-40	118
	9.0HE	-40	95

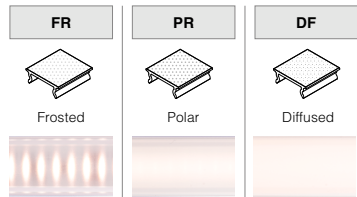
VERS-PROUD (01)

Linear Fixtures - Surface

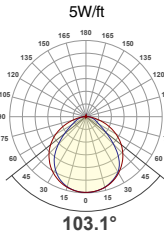


Lens

with LED visibility



Beam Angle

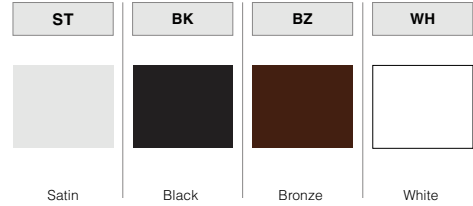


NOTE: Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see IES PDF file.



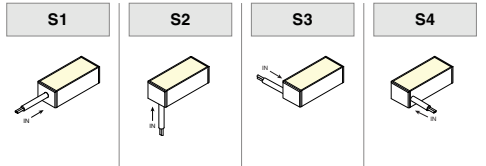
FR lens

Finish

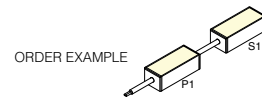
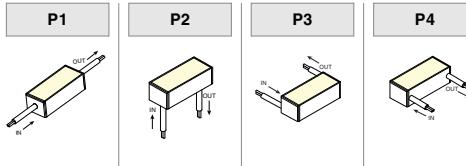


Input/Output

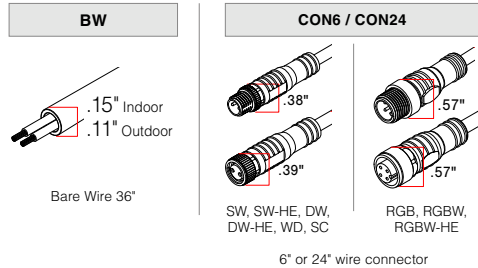
SINGLE (Input only)



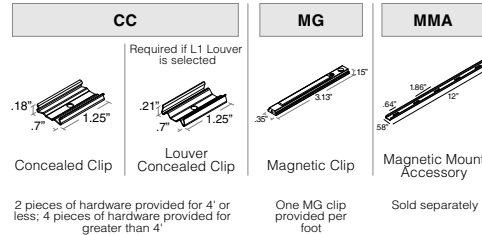
PASS THROUGH (Input/Output)



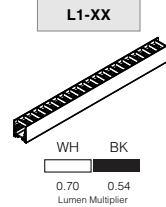
Connector/Wire – In/Out



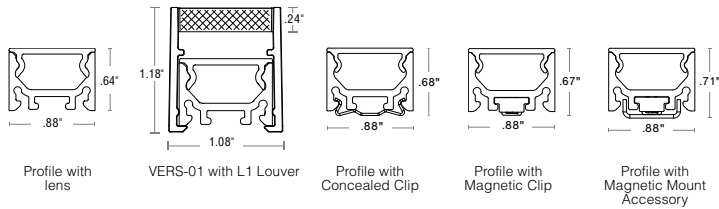
Mounting



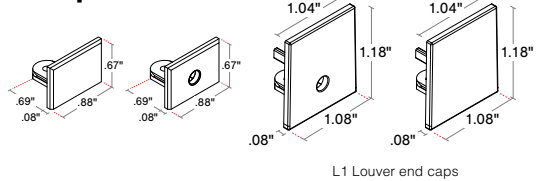
Louver



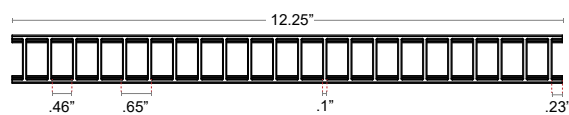
Dimensions



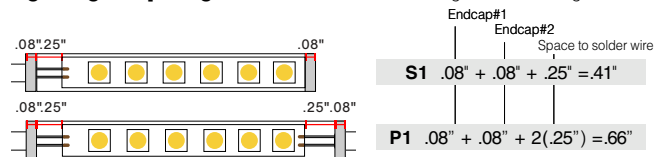
End Caps



Louver



Light Engine Spacing Detail



VERS-PROUD (01)

Linear Fixtures - Surface



The VERS Proud is a finished aluminum fixture utilizing an extruded lens that sits proud of the fixture for maximum variations of LED sources. The high-quality Proud lens provides a delicate glow at the edges of the fixture, creating a slim line of light. Integrated metal endcaps combined with an extruded aluminum housing give this fixture a polished modern look suitable for dry, damp, and wet locations.

Part Number Builder

Static White



Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-SW													
Voltage: 24 VDC Typical lumens at 5.0W/ft with FR lens at 3000K: 423 lm/ft	1.5	20	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
	3.0	22											
	4.0	24											
	5.0	27											
	6.0	30											
	1.5	24	DMP (IP54)	P1 P2 P3 P4 Pass through	BW CON6 CON24	BW CON6 CON24							
	3.0	27											
	4.0	30											
	5.0	35											
	6.0	40											
	1.5	20	WET (IP67)										
	3.0	22											
4.0	24												
5.0	27												
6.0	30												

*Available in 1" increments for 1.5W/ft - 5.0W/ft and 2" increments for 6.0W/ft. Maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

Static White High Efficacy



Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-SW													
Voltage: 24 VDC Typical lumens at 6.0W/ft with FR lens at 3000K: 681 lm/ft	1.5HE	20	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
	3.0HE	22											
	6.0HE	24											
	9.0HE	27											
	3.0	30											
	1.5HE	24	DMP (IP54)	P1 P2 P3 P4 Pass through	BW CON6 CON24	BW CON6 CON24							
	3.0HE	27											
	6.0HE	30											
	3.0	35											
	6.0HE	40											

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

- **BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire
- **One Step, One Bin** based on 5W/ft

- 5 year warranty
- Field modifications void warranty
- Data subject to change, all data has +/- 5% tolerance
- Compatible for use with Q-Tran power supplies
- Suitable for installation in the storage area of a clothes closet when using wattage of 4.0W/ft or less

VERS-PROUD (01)

Linear Fixtures - Surface



Dynamic White

Product	W/FT	CCT	Rated	Lens	Louver	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-DW	6.0												
Voltage: 24 VDC		20/27 20/30	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 6.0W/ft with FR lens at 3000K: 251 lm/ft		24/30	DMP (IP54)			Single (Closed exit)							
		20/27 20/30	WET (IP67)			P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24					
						Pass through							

*Available in 2" increments to 96", plus end caps. See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

Dynamic White High Efficacy

Product	W/FT	CCT	Rated	Lens	Louver	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-DW													
Voltage: 24 VDC		3.0HE 5.0HE 8.0HE	20/27 20/30 27/40 27/55	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH
Typical lumens at 5.0W/ft with FR lens at 3000K: 247 lm/ft		3.0HE 5.0HE	24/30 27/40	DMP (IP54)			Single (Closed exit)						
		3.0HE 5.0HE	20/27 20/30 27/40 27/55	WET (IP67)			P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24				
						Pass through							

*Available in 2" increments to 96", plus end caps. See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

Warm Dim

Product	W/FT	CCT	Rated	Lens	Louver	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-WD	6.0												
Voltage: 24 VDC		19/27 19/30	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 6.0W/ft with FR lens at 3000K: 479 lm/ft			WET (IP67)			Single (Closed exit)							
						P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24					
						Pass through							

Only compatible with QZ and QZLP. Not compatible with other power supplies such as QTM-eLED+WD and QOM-eLED+WD.

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

- **BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

<ul style="list-style-type: none"> • 5 year warranty • Field modifications void warranty 	<ul style="list-style-type: none"> • Data subject to change, all data has +/- 5% tolerance • Compatible for use with Q-Tran power supplies
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VERS-PROUD (01)

Linear Fixtures - Surface



Static Color **5 YEAR WARRANTY**

Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)	
VERS-01-SC	5.0													
Voltage: 24 VDC		GR BL RD AB	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH		
Typical lumens at 5.0W/ft with FR lens in green: 554 lm/ft			DMP (IP54)			Single (Closed exit)								
			WET (IP67)			P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24						
						Pass through								

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

RGB **5 YEAR WARRANTY**

Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-RGB	6.0	RGB											
Voltage: 24 VDC			DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 6.0W/ft with FR lens in green: 175 lm/ft			DMP (IP54)			Single (Closed exit)							
			WET (IP67)			P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24					
						Pass through							

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

See VERS-01-SK for suspended version.

RGBW **5 YEAR WARRANTY**

Product	W/FT	CCT	Rated	Lens	Louver	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01-RGBW	6.0												
Voltage: 24 VDC		RGBW-27 RGBW-30	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 6.0W/ft with FR lens at 3000K: 143 lm/ft			DMP (IP54)			Single (Closed exit)							
						P1 P2 P3 P4	BW CON6 CON24	BW CON6 CON24					
						Pass through							

*Available in 4" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".





- **BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

- | | |
|--|---|
| <ul style="list-style-type: none"> • 5 year warranty • Field modifications void warranty • Data subject to change, all data has +/- 5% tolerance • Compatible for use with Q-Tran power supplies | <ul style="list-style-type: none"> • Suitable for installation in the storage area of a clothes closet when using wattage of 4.0W/ft or less • Florida Fish and Wildlife Conservation Commission (FWC) rated strips: DRY and WET rated, Red and Amber |
|--|---|

VERS-PROUD (01)

Linear Fixtures - Surface



RGBW High Efficacy    

Product	W/FT	CCT	Rated	Lens	Louver	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
VERS-01- RGBW													
Voltage: 24 VDC	4.0HE 8.0HE	RGBW-27 RGBW-30	DRY (IP20)	FR PR DF	L1-WH L1-BK N/A	S1 S2 S3 S4 <small>Single (Closed exit)</small>	BW CON6 CON24	CLS	WH BK	CL2 CL2P	CC MG	ST BK BZ WH	
Typical lumens at 4.0W/ft with FR lens at 3000K: 85 lm/ft	4.0HE	RGBW-27 RGBW-30	DMP (IP54) WET (IP67)			P1 P2 P3 P4 <small>Pass through</small>	BW CON6 CON24	BW CON6 CON24					

*Available in 2" increments, maximum fixture length of 98". See fixture detail on page 6. Minimum fixture length 6".

- **BW** comes in standard 36"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

<ul style="list-style-type: none"> • 5 year warranty • Field modifications void warranty 	<ul style="list-style-type: none"> • Data subject to change, all data has +/- 5% tolerance • Compatible for use with Q-Tran power supplies
--	--

VERS-PROUD (01)

Linear Fixtures - Surface



Technical Information Delivered lumens
See photometric files for complete details.

Static White [Calculated L70 = 70000 hrs]
Tested with VERS-01-SW-**-30-DRY-**

	1.5W/FT		3.0W/FT		4.0W/FT		5.0W/FT		6.0W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	156	98	270	98	348	98	423	98	493	98
PR	152	98	261	98	338	98	409	98	475	98
DF	138	97	240	98	310	98	370	98	432	98

Static White High Efficacy

[Calculated L70 = 70000 hrs]
Tested with VERS-01-SW-**-30-DRY-**

	1.5HE W/FT		3.0HE W/FT		6.0HE W/FT		9.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	197	98	374	98	681	98	995	98
PR	190	98	360	98	669	98	968	98
DF	172	98	326	98	616	98	874	98

Dynamic White

[Calculated L70 = 70000 hrs]
Tested with VERS-01-DW-6.0-**-DRY-**

	2000K		2700K		3000K	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	216	94	238	97	251	98
PR	211	94	231	97	244	98
DF	190	94	209	97	217	98

Dynamic White High Efficacy

[Calculated L70 = 70000 hrs]
Tested with VERS-01-DW-5.0HE-**-DRY-**

	2000K		2700K		3000K		4000K		5500K	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	209	93	237	98	247	98	253	97	276	97
PR	203	93	230	98	238	98	245	97	270	97
DF	183	93	208	98	213	98	218	97	242	97

Static Color [Calculated L70 = 30000 hrs]

Tested with VERS-01-SC-5.0-**-DRY-**

	Red		Green		Blue		Amber	
	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
FR	116	634	554	519	127	467	86	595
PR	111	634	546	519	123	467	80	596
DF	105	634	490	519	114	467	73	596

Warm Dim

[Calculated L70 = 70000 hrs]
Tested with VERS-01-WD-6.0-**-DRY-**

	2700K		3000K	
	LM/FT	CRI	LM/FT	CRI
FR	462	97	479	97
PR	445	97	460	97
DF	402	97	417	97

RGB [Calculated L70 = 55000 hrs]

Tested with VERS-01-RGB-6.0-RGB-DRY-**

	Red		Green		Blue	
	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
FR	87	632	175	523	47	471
PR	85	632	172	524	45	470
DF	77	632	154	523	42	469

RGBW [Calculated L70 = 30000 hrs]

Tested with VERS-01-RGBW-6.0-**-DRY-**

	2700K		3000K		Red		Green		Blue	
	LM/FT	CRI	LM/FT	CRI	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
FR	133	92	143	92	39	631	112	514	33	462
PR	128	92	139	92	38	632	108	515	31	464
DF	117	93	128	92	35	631	100	515	29	464

RGBW High Efficacy [Calculated L70 = 70000 hrs]

Tested with VERS-01-RGBW-4.0HE-**-DRY-**

	2700K		3000K		Red		Green		Blue	
	LM/FT	CRI	LM/FT	CRI	LM/FT	Wavelength	LM/FT	Wavelength	LM/FT	Wavelength
FR	71	97	85	97	26	628	115	524	30	469
PR	67	97	84	97	25	628	113	524	29	469
DF	59	97	74	97	23	629	103	524	26	469

Temperature Ratings Dependent on LED Strip W/FT

Light Engine (LED Strip)	W/FT	Minimum Limit (°F)	Maximum Limit (°F)
Static White	1.5	-40	138
	3.0	-40	124
	4.0	-40	115
	5.0	-40	108
Static White High-Efficacy	1.5HE	-40	152
	3.0HE	-40	140
	6.0HE	-40	118
	9.0HE	-40	95

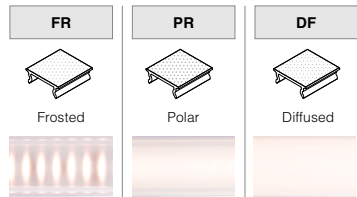
VERS-PROUD (01)

Linear Fixtures - Surface

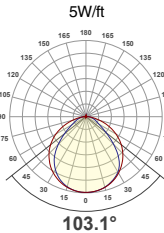


Lens

with LED visibility



Beam Angle

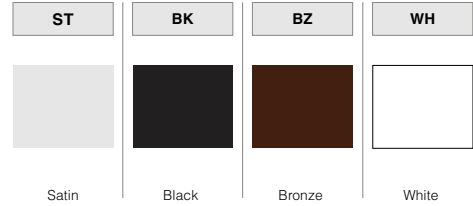


NOTE: Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see IES PDF file.



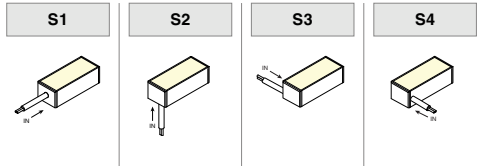
FR lens

Finish

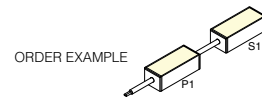
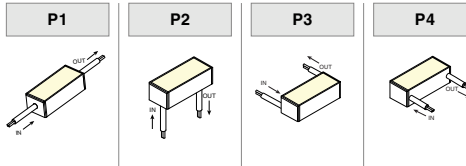


Input/Output

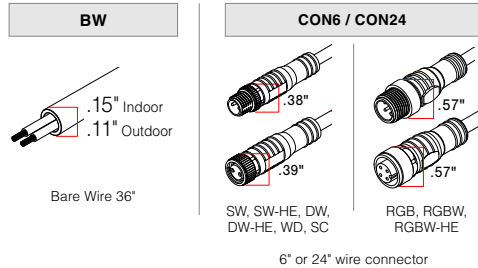
SINGLE (Input only)



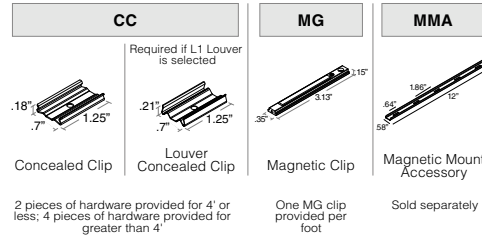
PASS THROUGH (Input/Output)



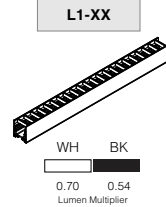
Connector/Wire - In/Out



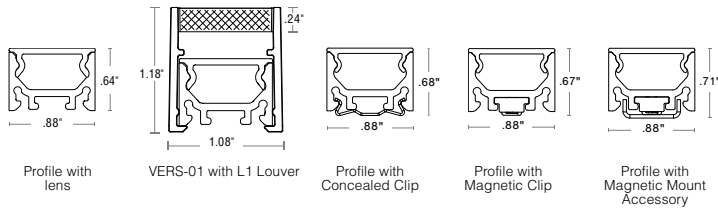
Mounting



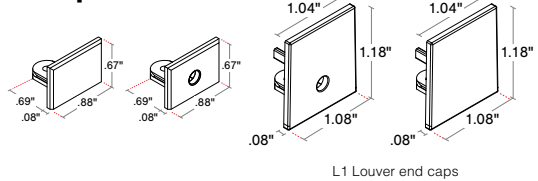
Louver



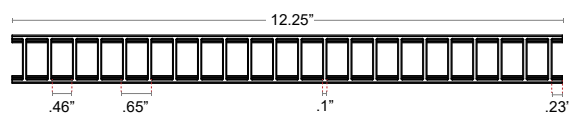
Dimensions



End Caps

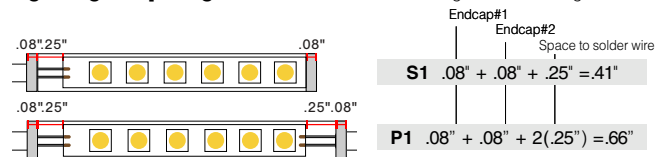


Louver



Light Engine Spacing Detail

Add to nominal LED length for fixture length





PROJECT NAME: _____ TYPE: _____

QTY: _____

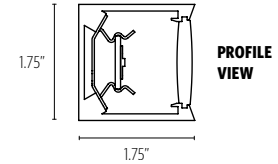


Rev™ Acoustic

PENDANT

FEATURES

- AVAILABLE WITH STANDARD WHITE, TUNABLE WHITE, & RGBW LIGHT SOURCES
- 9MM ACOUSTIC OPTION
- 1.75" MINIMAL SQUARE PROFILE SIZE
- SILICONE DIFFUSER ELIMINATES LIGHT LEAKS AND VISIBLE SEAMS
- FIELD REPLACEABLE LED ARRAYS AND DRIVER(S) FOR SIMPLE MAINTENANCE
- FIXTURES CAN BE CLUSTERED TOGETHER TO CREATE LARGE SCALE INSTALLATIONS; CUSTOM SIZES, SHAPES, AND CONFIGURATIONS ARE POSSIBLE



CATALOG CODES

A	B	C	MW	E	I	UNV	H	I	J
SERIES	HANGING SYSTEM	SIZE	DIFFUSER	FINISH	LIGHT SOURCE	VOLTAGE	OAH	CONTROL	OPTIONS

SPECIFY CATALOG CODE

A	B	C	D	E
SERIES	HANGING SYSTEM	SIZE	DIFFUSER	FINISH
RV1 REV INNER	PIDB PENDANT WITH ANGLED AIRCRAFT CABLES AND POWER CORD TO CANOPY WITH INTEGRAL DRIVER; MOUNTS TO 4X4 OCTAGON J-BOX (BY OTHERS) NOTE: STATIC WHITE ONLY	24	MW MATTE WHITE	POWDER COAT FINISHES BKP BLACK BMP BRASS METALLIC BNP BRONZE BTP BLACK TEXTURED GRP GRAPHITE GLP GOLDTASTIC PREMIUM METAL FINISHES BAL BRUSHED ALUMINUM
PIEU	PENDANT WITH 4 ANGLED AIRCRAFT CABLES AND POWER CORD TO CANOPY; MOUNTS TO 4X4 OCTAGON J-BOX (BY OTHERS); REMOTE DRIVER ENCLOSURE	36		MWP MATTE WHITE SGP STEEL GRAY SMP SILVER METALLIC SWP SKY WHITE WTP WHITE TEXTURED
PIEM	PENDANT WITH VERTICAL AIRCRAFT CABLES TO SEPARATE MOUNTING POINTS AND POWER CORD TO CANOPY; MOUNTS TO 4X4 OCTAGON J-BOX (BY OTHERS); REMOTE DRIVER ENCLOSURE	48		
PIDA	PENDANT WITH VERTICAL AIRCRAFT CABLES TO SEPARATE MOUNTING POINTS AND POWER CORD TO CANOPY WITH INTEGRAL DRIVER; MOUNTS TO 4X4 OCTAGON J-BOX (BY OTHERS) NOTE: STATIC WHITE ONLY			

F		G	H	I	J
LIGHT SOURCE		VOLTAGE	OAH*	CONTROL	OPTIONS
LED OUTPUT	COLOR TEMP	COLOR TEMP	UNV 120-277	DM1 0-10V DIMMING 1%	MOD MODIFIED LUMINAIRE (CONTACT LOCAL REP)
LED1	(80+ CRI)	(90+ CRI)			BIOS BIOS SKYBLUE™ OR BIOS SKYBLUE™ DYNAMIC LIGHT ENGINE**
LED2	27K	927K			ACOUSTIC COLORS
	30K	930K	48	DM8 DUAL 0-10V DIMMABLE TO 0.1%	PBK PURE BLACK CHG CHARCOAL SLT SLATE SDG SHADOW GRAY PIC PEARL ICE CWH CLASSIC WHITE SLG SILVER GRAY NTL NATURAL LINEN
	35K	935K	100	DALI DALI TYPE 8 CONTROL SYSTEM, DIMMABLE TO 0.1%	HZW HAZELWOOD CFB CORNFLOWER BLUE DNB DENIM BLUE BRD BRICK RED MNB MIDNIGHT BLUE DPP DEEP PURPLE BRY BERRY CHR CHERRY RED
	40K	940K	144	DMX DMX CONTROL; DIMMABLE TO 0.1%	CRT CARROT DWT DEEPWATER PNA PINEAPPLE LMS LIMESTONE EMG EMERALD GREEN CNM CINNAMON BLS BLUSH SFM SEAFOAM
TWH1	TUNABLE WHITE 2700K - 6500K CRI=90+ R9=50+				NOTE: Acoustic panels up to 48. Additional sizes possible. Contact your local rep for availability and lead times.
RGBW	RGBW				

SAMPLE CODE: RV1-PIEM-36-MW-WTP-LED1/30K-UNV-100-DM1-PBK

*Ships with one of three OAH's (48", 100" or 144") and is field adjustable to the desired height
 **Contact factory for BIOS SkyBlue® or BIOS SkyBlue® Dynamic light engine and control options.
 Fixtures with PIEM hanging system, canopy will be MWP unless specified.
 Fixtures with PIDA, PIEU and PIDB hanging system, canopy will match finish choice.
 Power cord silver unless specified.

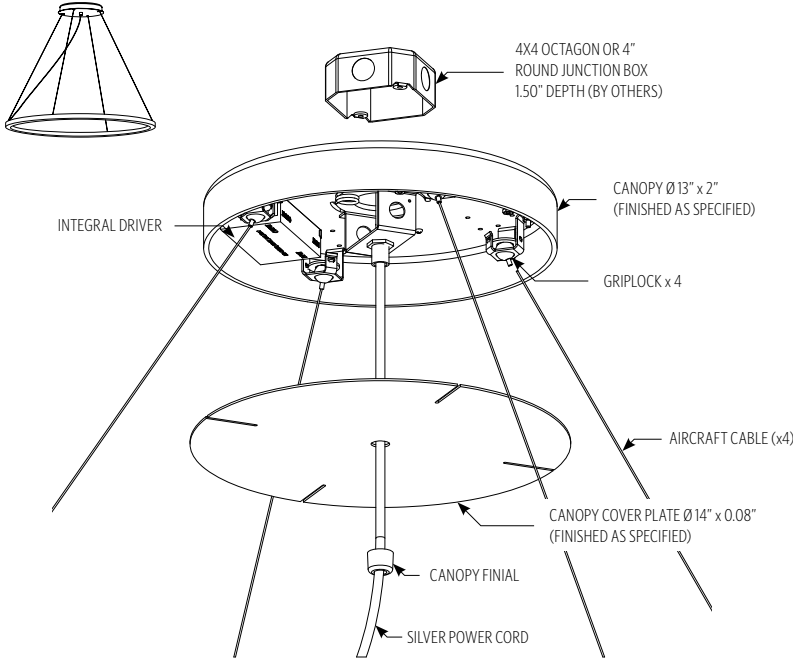
MODS, NOTES, & COMMENTS



This product meets the material restrictions of Article 4 of the RoHS Directive (2011/65/EU), including Commission Delegated Directive 2015/863

HANGING SYSTEM

P1DB PENDANT WITH ANGLED AIRCRAFT CABLES AND POWER CORD TO CANOPY WITH INTEGRAL DRIVER; MOUNTS TO 4X4 OCTAGON J-BOX (BY OTHERS) **NOTE:** STATIC WHITE ONLY

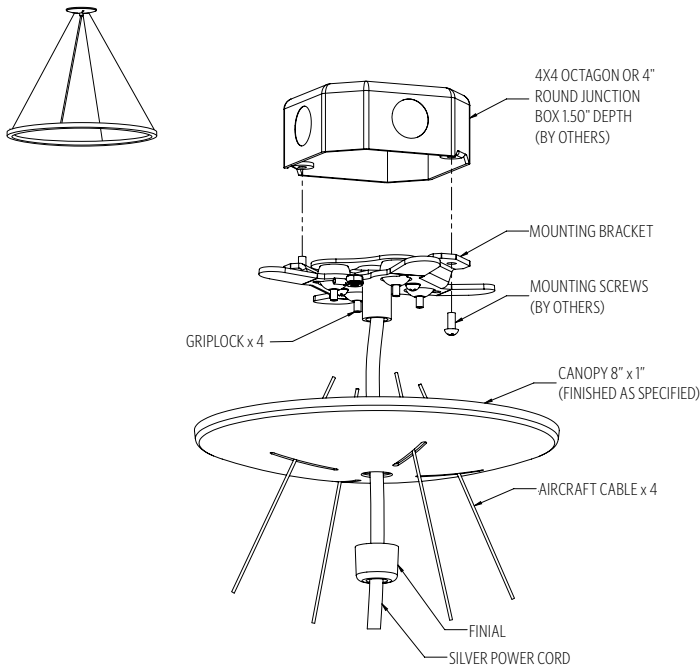


MOUNTING INFORMATION CHART

LUMINAIRE DIAMETER	LUMINAIRE WEIGHT	MOUNTING POINTS	MIN/MAX OAH
24"	10 LBS	1	8"/144"
36"	13 LBS	1	15"/144"
48"	17 LBS	1	22"/144"

* P1DB ships with one of three OAH's (48", 100" or 144") and is field adjustable to the desired height. For OAH over 144", contact your local rep

PIEU PENDANT WITH 4 ANGLED AIRCRAFT CABLES AND POWER CORD TO CANOPY; MOUNTS TO 4X4 OCTAGON J-BOX (BY OTHERS); REMOTE DRIVER ENCLOSURE

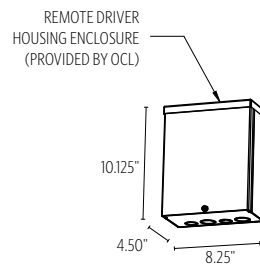


MOUNTING INFORMATION CHART

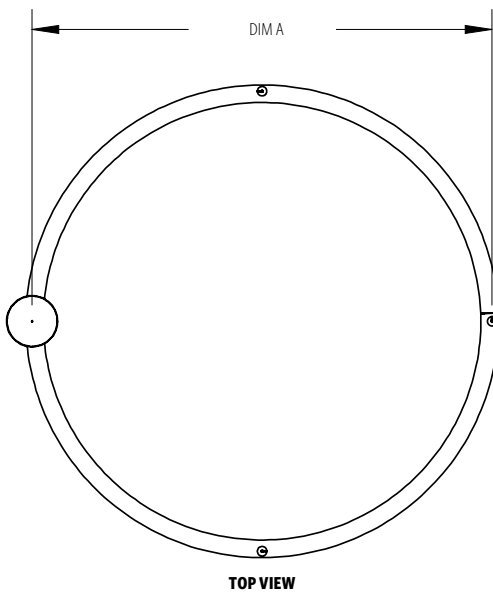
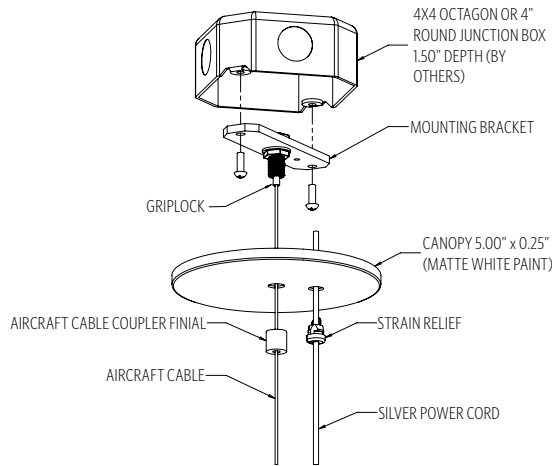
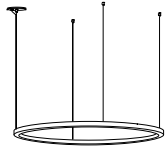
LUMINAIRE DIAMETER	LUMINAIRE WEIGHT	MOUNTING POINTS	MIN/MAX OAH
24"	10 LBS	1	10"/144"
36"	13 LBS	1	12"/144"
48"	17 LBS	1	19"/144"

* PIEU ships with one of three OAH's (48", 100" or 144") and is field adjustable to the desired height. For OAH over 144", contact your local rep

PIEU will include ETL listed enclosure for remote mounting drivers. Max 30' distance from luminaire for **DM1, DM8, DALI** and **DMX**. Enclosure must remain accessible after installation. For **RGBW** remote box distance, contact factory



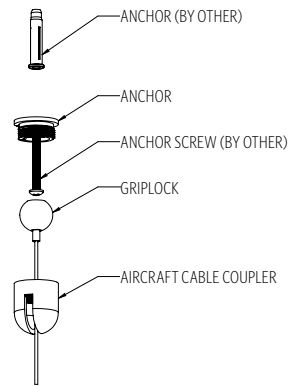
PIEM PENDANT WITH VERTICAL AIRCRAFT CABLES TO SEPARATE MOUNTING POINTS AND POWER CORD TO CANOPY; MOUNTS TO 4X4 OCTAGON J-BOX (BY OTHERS); REMOTE DRIVER ENCLOSURE



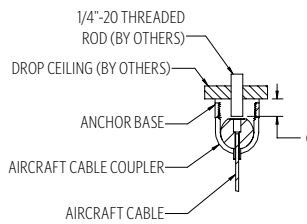
MOUNTING INFORMATION CHART					
LUMINAIRE DIAMETER	LUMINAIRE WEIGHT	RV1 MOUNTING DISTANCE DIM A	RV2 MOUNTING DISTANCE DIM A	MOUNTING POINTS	MIN/MAX OAH
24"	10 LBS	22.50	21.6875	4	5'/144"
36"	13 LBS	34.50	33.75	4	5'/144"
48"	17 LBS	46	44.6875	4	5'/144"

RGBW MOUNTING INFORMATION CHART					
LUMINAIRE DIAMETER	LUMINAIRE WEIGHT	RV1 MOUNTING DISTANCE DIM A	RV2 MOUNTING DISTANCE DIM A	MOUNTING POINTS	MIN/MAX OAH
24"	10 LBS	22.75	20.00	4	5'/144"
36"	13 LBS	32.75	32.625	4	5'/144"
48"	17 LBS	45.375	45.250	4	5'/144"

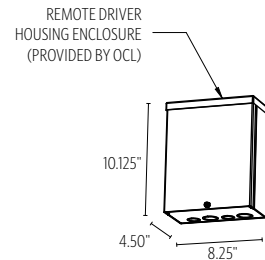
* PIEM ships with one of three OAH's (48", 100" or 144") and is field adjustable to the desired height. For OAH over 144", contact your local rep
 PIEM will include ETL listed enclosure for remote mounting drivers. Max 30' distance from luminaire for **DM1, DM8, DALI** and **DMX**. Enclosure must remain accessible after installation. For **RGBW** remote box distance, contact factory



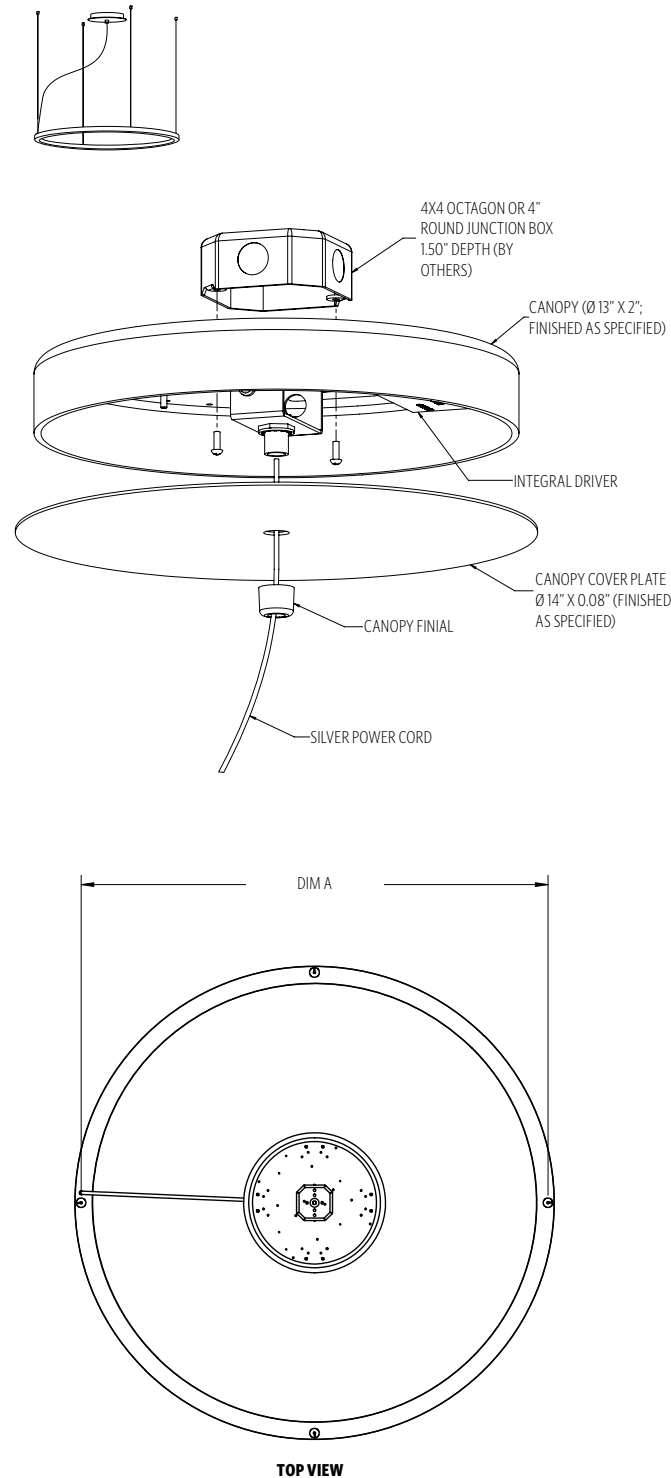
HARD CEILING



DROP CEILING



PIDA PENDANT WITH VERTICAL AIRCRAFT CABLES TO SEPARATE MOUNTING POINTS AND POWER CORD TO CANOPY WITH INTEGRAL DRIVER; MOUNTS TO 4X4 OCTAGON J-BOX (BY OTHERS) **NOTE:** STATIC WHITE ONLY



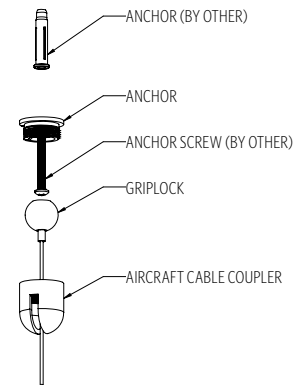
MOUNTING INFORMATION CHART

LUMINAIRE DIAMETER	LUMINAIRE WEIGHT	RV1 MOUNTING DISTANCE DIM A	RV2 MOUNTING DISTANCE DIM A	MOUNTING POINTS	MIN/MAX OAH
24"	10 LBS	22.50	21.6875	4	5'/144"
36"	13 LBS	34.50	33.75	4	5'/144"
48"	17 LBS	46	44.6875	4	5'/144"

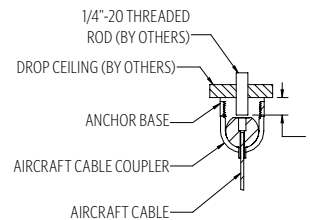
RGBW MOUNTING INFORMATION CHART

LUMINAIRE DIAMETER	LUMINAIRE WEIGHT	RV1 MOUNTING DISTANCE DIM A	RV2 MOUNTING DISTANCE DIM A	MOUNTING POINTS	MIN/MAX OAH
24"	10 LBS	22.75	20.00	4	5'/144"
36"	13 LBS	32.75	32.625	4	5'/144"
48"	17 LBS	45.375	45.250	4	5'/144"

* PIDA ships with one of three OAH's (48", 100" or 144") and is field adjustable to the desired height. For OAH over 144", contact your local rep
 PISA will include ETL listed enclosure for remote mounting drivers. Max 30' distance from luminaire for **DM1, DM8, DALI** and **DMX**. Enclosure must remain accessible after installation. For **RGBW** remote box distance, contact factory.

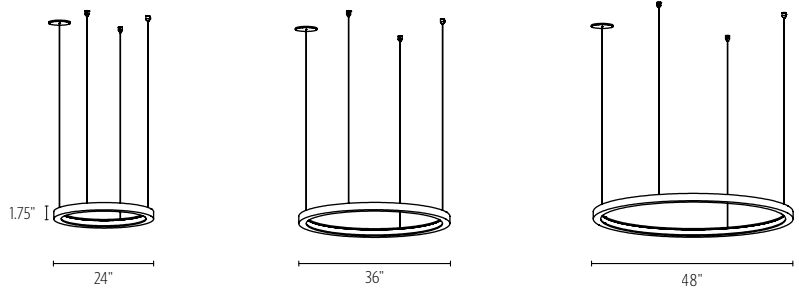


HARD CEILING



DROP CEILING

SIZES



DIFFUSER

FINISH

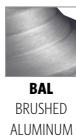


MW MATTE WHITE

METALLIC POWDER COAT FINISHES:



PREMIUM METAL FINISHES:



SOLID POWDER COAT FINISHES:



TEXTURED POWDER COAT FINISHES:

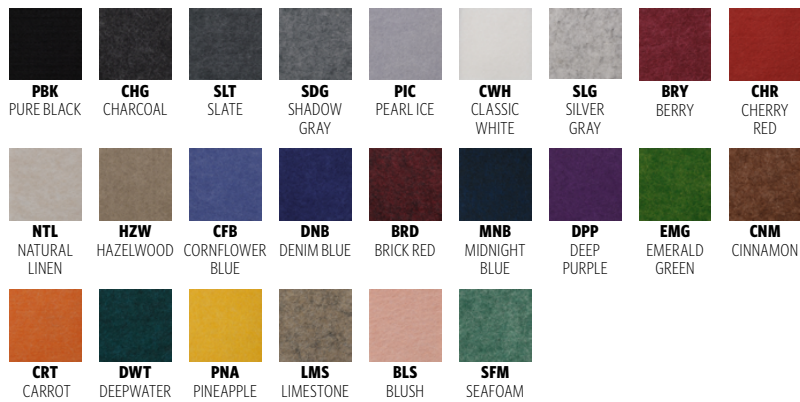


RAL[®], Pantone[®] or custom finishes are also available.

These colors are for reference only. Please be aware that colors may vary per monitor. Contact your local rep for finish samples or with any questions.

ACOUSTIC

ACOUSTIC COLORS:



LIGHT SOURCE

		RV1 ACOUSTIC		
		24"	36"	48"
LED1	LUMENS DELIVERED	966	1472	1932
	SYSTEM WATTAGE	21	32	42
LED2	LUMENS DELIVERED	1610	2438	2944
	SYSTEM WATTAGE	35	53	64
TWH1	LUMENS DELIVERED	-	-	-
	SYSTEM WATTAGE	19	28	38
RGBW	LUMENS DELIVERED	294	417	581
	SYSTEM WATTAGE	36	51	71

STANDARD COLOR TEMPERATURE OPTIONS	CRI (RA)	
2700K	80+	90+
3000K	80+	90+
3500K	80+	90+
4000K	80+	90+
TWH1	90+	
RGBW	N/A	

% OF LUMINAIRE	
ZONE	RV1 AC
0-30	13%
0-60	53%
0-90	51%
90-180	0%
0-180	100%

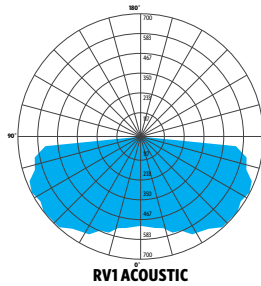
This chart was created for a 35K color temp using **CHW** acoustic option. Multiply by 0.95 for 27k color temp, 0.97 for 30k color temp, and 1.03 for 40k color temp. Wattage and lumen data for **TWH1** and **RGBW** approx. pending LM-79 testing. **NOTE:** Light reflectance and lumen output may vary by color.

Values shown for 80+ CRI. For 90+ CRI lumens use 0.85 multiplier.

PHOTOMETRY:

LUMINAIRE: RVX-PIEM-48-MW-PTD-LED2_35K-UNV-48
 COLOR TEMP #: 3500K
 TEST REPORT: TEST NO. 20925.0; 20926.0

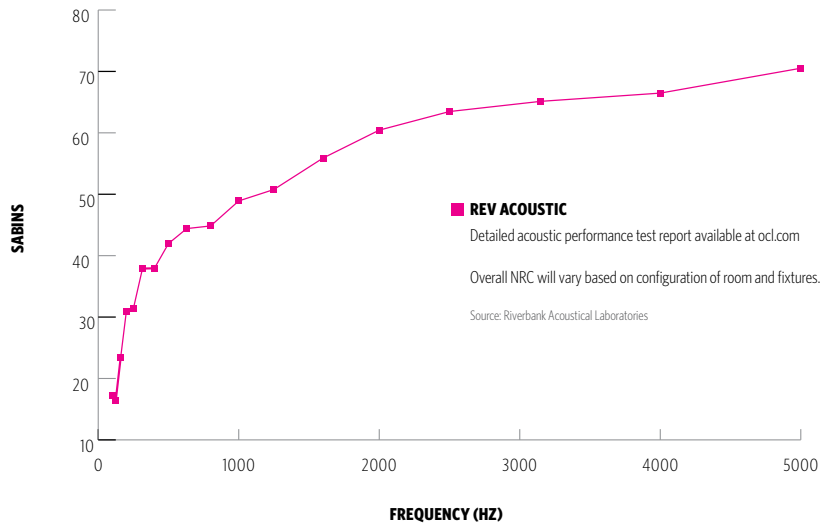
For all available IES files, please visit our website at ocl.com.



For 80+ CRI - 80 RA, R9 > 0 (10-15 TYP.); For 90+ CRI - 90 RA, R9 > 50

ACOUSTICAL TESTING

REV ACOUSTIC PERFORMANCE (4 UNITS):



CONTROL

DM1 0-10V DIMMING 1%

- 0-10V DIMMING PROTOCOL
- 1% MINIMUM DIM LEVEL
- ELECTRONIC DRIVER
- POWER FACTOR >0.9
- THD <20%
- MINIMUM AMBIENT OPERATING TEMPERATURE -31°F
- LINEAR DIMMING CURVE
- FIELD REPLACEABLE

DALI DALI CONTROL SYSTEM, DIMMABLE 0.1%

- DALI-2 DEVICE TYPE 6 CONTROL PROTOCOL
- 0.1% MINIMUM DIM LEVEL
- ELECTRONIC DRIVER
- POWER FACTOR >0.9
- THD <20%
- MINIMUM AMBIENT OPERATING TEMPERATURE -4°F
- LOGARITHMIC DIMMING CURVE [DEFAULT]
- FIELD REPLACEABLE

DMX DMX CONTROL DIMMABLE TO 0.1%

- DMX/RDM DIMMING PROTOCOL
- 0.1% MINIMUM DIM LEVEL
- ELECTRONIC DRIVER
- POWER FACTOR >0.9
- THD <20%
- MINIMUM AMBIENT OPERATING TEMPERATURE -4°F
- LOGARITHMIC DIMMING CURVE [DEFAULT]
- FIELD REPLACEABLE

DM8 DUAL 0-10V DIMMING 0.1%

- 0-10V DIMMING PROTOCOL
- 0.1% MINIMUM DIM LEVEL
- ELECTRONIC DRIVER
- POWER FACTOR >0.9
- THD <20%
- MINIMUM AMBIENT OPERATING TEMPERATURE -4°F
- LOGARITHMIC DIMMING CURVE [DEFAULT]
- FIELD REPLACEABLE

OPTIONS

MOD MODIFIED LUMINAIRE

- LUMINAIRE IS MODIFIED FROM STANDARD OPTIONS; CONTACT LOCAL REP FOR MORE INFORMATION

ACOUSTIC PANEL

- AFFIXED ACOUSTIC PANEL AIDS IN THE REDUCTION OF SOUND REFLECTIONS, REVERBERATION, AND ECHO
- ASTM E-84 CLASS A / CAN ULC S102 FLAME SPREAD: 0 | SMOKE DEVELOPMENT INDEX: 300
- 9MM 100% POLYESTER FIBER PANEL WITH A MINIMUM 50% POST-CONSUMER RECYCLED MATERIAL (PET)
- ACOUSTIC PERFORMANCE (ASTM C423) TEST REPORT AVAILABLE AT OCL.COM
- VARIATIONS IN FIBER MIX AND COLOR MAY OCCUR. ALL PRODUCTS WILL BE SUPPLIED WITHIN COMMERCIAL TOLERANCES
- **CARE & CLEANING:** REMOVE DUST AND DEBRIS WITH A CLEAN, SOFT, LINT-FREE CLOTH OR VACUUM



BIOS

- **BIOS SKYBLUE™** DYNAMIC LIGHT ENGINE IS DIMMABLE AND FEATURES A SIMPLE APPROACH TO CIRCADIAN LIGHTING CONTROLS.
- WHEN PAIRED WITH THE BIOS BIO-DIMMING MODULE, IT OPERATES USING ANY SINGLE CHANNEL CONSTANT CURRENT (CC) LED DRIVER AND CAN BE USED WITH ANY STANDARD DIMMING INTERFACE/PROTOCOL (0-10V, ELV, DMX, WIRELESS) AND COULD WORK WITH EXISTING TWO-CHANNEL CONTROL SYSTEMS AS WELL.
- VISIT **OCL.COM/BIOS** FOR MORE INFORMATION

SPECIFICATIONS

CONSTRUCTION

- HOUSING IS EXTRUDED AND WELDED ALUMINUM
- HOUSING SEAMS ARE FULLY WELDED AND GROUND SMOOTH
- DIFFUSER IS EXTRUDED SILICONE
- CANOPY IS FORMED ALUMINUM
- HARDWARE IS ZINC PLATED OR STAINLESS STEEL

MOUNTING

- **PIEM, PIDA, PIEU** AND **PIDB** ALL MOUNT TO 4X4" OCTAGON OR 4" ROUND J-BOX (BY OTHER)

ELECTRICAL

- DIMMING ELECTRONIC DRIVER(S), COMES STANDARD WITH 0-10V DOWN TO 1% [STATIC WHITE]
- OCL PROPRIETARY LED ARRAYS USE NICHIA 757 DIODES (STATIC WHITE)
- **FOR INTEGRAL DRIVERS:** LUMINAIRE CONNECTS TO BUILDING SUPPLY (120V-277V 50/60HZ)
- **FOR REMOTE DRIVERS:** LUMINAIRE WIRE LEADS ARE LOW-VOLTAGE. THE WIRES SHOULD BE CONNECTED TO OCL PROVIDED REMOTE DRIVER ENCLOSURE ONLY!

LISTING

- ETL LISTED TO UL 1598/2108 FOR DRY LOCATIONS, DAMP LOCATION LISTED IS OPTION

WARRANTY

- 5 YEAR; ALL ELECTRICAL COMPONENTS RETAIN THE MANUFACTURER'S WARRANTY

SUSTAINABILITY

- THIS PRODUCT MEETS THE MATERIAL RESTRICTIONS OF ARTICLE 4 OF THE **ROHS** DIRECTIVE (2011/65/EU), INCLUDING COMMISSION DELEGATED DIRECTIVE 2015/863
- **BIOS** LIGHTING CONTRIBUTES TOWARD THE CIRCADIAN LIGHTING DESIGN FEATURE 54 UNDER THE **WELL BUILDING STANDARD™ V1** AND FEATURE L03 UNDER THE **WELL BUILDING STANDARD V2**

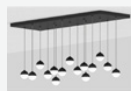
COMMON MODIFICATIONS

WE'RE BUILT FOR OUT-OF-THE-BOX THINKERS.

Nearly 50% of OCL fixtures we manufacture have some type of modification. Here is a list of common modifications we frequently produce. **Please contact the factory for modifications specific to your fixture or project**

Need some help? Simply send your questions to us at **OCL-Quotes@ocl.com**

- BIOS, TUNABLE WHITE, WARM-DIM, & RGBW LIGHT SOURCES
- SPECIFIC LUMEN OUTPUT
- MODIFIED CLUSTERS OR CONFIGURATIONS / MULTI-DROP CANOPIES
- VARIOUS SHAPES, ARCS, AND CURVES FOR LINEAR PROFILES AND RINGS
- CEILING OR SURFACE MOUNTING
- LARGE SCALE MODIFICATIONS
- RAL, PANTONE, BRAND-SPECIFIC, RETIRED OCL COLOR, OR CUSTOM FINISHES



- EMERGENCY BATTERY BACKUP OR INVERTER OPTIONS
- REMOTE DRIVERS / EXTENDED DISTANCE REMOTE DRIVERS
- DIMMING TO 0.1% (DIM TO DARK)
- NON-STANDARD SIZES OR LENGTHS
- NON-STANDARD CANOPY, BODY AND/OR CORD COLORS
- SEISMIC AND/OR ANTI-SWAY SYSTEMS
- RIGID STEMS
- MODIFIED OVERALL HEIGHTS (LONGER OR SHORTER OAH)
- UPLIGHT ADDITIONS
- LASER ETCHING, ENGRAVING, AND CUTOUTS

The drawings and specifications and ideas, designs and arrangements represented on these drawings are and shall remain the property of The Original Cast Lighting (OCL Architectural Lighting) and no part thereof shall be copied, disclosed, to others or used in conjunction with any work or project other than the specified project for which they have been prepared and developed, without written consent of OCL. Visual contact with these plans or specifications shall constitute conclusive evidence of acceptance of these restrictions. All specifications and information subject to change without notice.



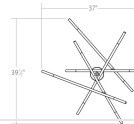
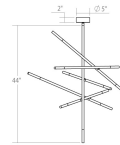
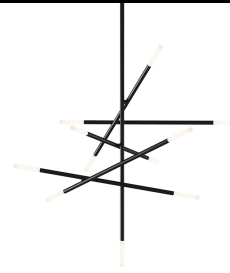
Project:

Qux LED Chandelier Spec Sheet

SKU: 2201.25 Learn more at:
<https://sonnemanlight.com/qux-led-chandelier>

Description:

Type #:



Dimensions

Height: 44"
 Width: 39.5"
 Length: 37"
 Canopy/Backplate/Base: 5"
 Canopy/Backplate/Base Height: 2"

Electrical Specs

Bulb(s) Included?: Yes
 Bulb 1 Type: Integral LED
 Bulb Quantity: 11
 Input Voltage: 120-277VAC
 Wattage: 35
 Initial Lumens: 4400
 Delivered Lumens: 3000
 Color Temperature: 3000K
 CRI: 90
 Power Supply Type: Driver
 Power Supply Quantity: 1
 Power Supply Location: Outlet Box
 Dimming Type: TRIAC/ELV/
 0-10V
 Bulb Max Wattage: 35

Installation

Installation: Licensed electrician required
 Sloped Ceiling Compatible?: Not Compatible

Shipping

Carton 1 L x W x H: 44" X 32" X 8"
 Carton 1 Gross Weight: 16 LBS

Shade

Shade 1 Material: Frosted Acrylic

Available Finishes

Available Finishes: Satin Black (.25), Satin White (.03)

General Listings

Features: Damp Rated, On Sale
 Certification: C-ETL-US
 Color/Finish: Satin Black (.25)
 Dark Sky Friendly: N

WAC LIGHTING

Niveous

Ceiling And Wall Mount 3000K

Fixture Type: _____

Catalog Number: _____

Project: _____

Location: _____

Model & Size	Color Temp	Finish	LED Watts	LED Lumens	Delivered Lumens
FM-W52306 6"	3000K	WT White	10W	800	680

Example: **FM-W52306-WT**

•For 277V special order, add an "F" before the finish: FM-W52306F-WT

•For alternate color temperature, special order adding 35 or 27:FM-W52306-27-WT

For custom requests please contact customs@wacighting.com

DESCRIPTION

The perfect sphere.

FEATURES

- Spheres of pure light
- Mouth blown etched opal glass diffuser provides even illumination
- No transformer or driver required except 277V option (special order).
- 2700K /3500K for 6" and 9" options only (special order)
- ACLED driverless technology
- 5 year warranty

SPECIFICATIONS

Color Temp:	3000K
Input:	120 VAC,50/60Hz
CRI:	90
Dimming:	ELV: 100-10%
Rated Life:	50000 Hours
Mounting:	Can be mounted on ceiling or wall in all orientations
Standards:	ETL, cETL,IP65
	Wet Location Listed
Construction:	Aluminum hardware with opal glass diffuser

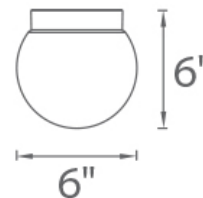


FINISHES:



White

LINE DRAWING:



REPLACEMENT PARTS

RPL-GLA-52306 - Glass for FM-W52306

WAC LIGHTING

Niveous

Ceiling And Wall Mount 3000K

Fixture Type: _____

Catalog Number: _____

Project: _____

Location: _____

Model & Size	Color Temp	Finish	LED Watts	LED Lumens	Delivered Lumens
FM-W52309 9"	3000K	WT White	18W	1600	1428

Example: **FM-W52309-WT**

•For 277V special order, add an "F" before the finish: FM-W52309F-WT

•For alternate color temperature, special order adding 35 or 27:FM-W52309-27-WT

For custom requests please contact customs@wacighting.com

DESCRIPTION

The perfect sphere.

FEATURES

- Spheres of pure light
- Mouth blown etched opal glass diffuser provides even illumination
- No transformer or driver required except 277V option (special order).
- 2700K /3500K for 6" and 9" options only (special order)
- ACLED driverless technology
- 5 year warranty

SPECIFICATIONS

Color Temp:	3000K
Input:	120 VAC,50/60Hz
CRI:	90
Dimming:	ELV: 100-10%
Rated Life:	50000 Hours
Mounting:	Can be mounted on ceiling or wall in all orientations
Standards:	ETL, cETL,IP65
	Wet Location Listed
Construction:	Aluminum hardware with opal glass diffuser

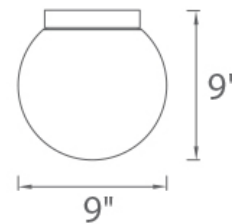


FINISHES:



White

LINE DRAWING:



REPLACEMENT PARTS

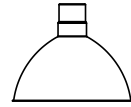
RPL-GLA-52309 - Glass for FM-W52309



SPS-0453 REV D

WILCOX INTEGRATED LED SERIES

JOB NAME: _____ FIXTURE TYPE: _____



BLE - _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____

A B C D E F G

_____ - _____ - _____ - _____ - _____ - _____ - _____ - _____

H I J K L

Order Example: BLE - C - DBW16 - 455 - CRZ - 455 - NA - ACR - 455 - NA - LED16 - 2700K - DL

A - MOUNTING STYLE

- C Cord Hung
- CN Chain Hung
- F Flush Mount¹
- G Gooseneck
- S Stem Mount

B - SHADE SIZE

- WILCOX:**
- DBW8 8" Shade¹
 - DBW10 10" Shade
 - DBW12 12" Shade
 - DBW14 14" Shade
 - DBW16 16" Shade²
 - DBW20 20" Shade²

C - SHADE FINISH

- PORCELAIN FINISHES³:**
- 150 Black
 - 250 White
 - 350 Vintage Green
 - 355 Jadite
 - 455 Cherry Red
 - 550 Yellow
 - 650 Bronze
 - 750 Cobalt Blue
 - 765 Delphite Blue
 - 850 Graphite
 - 950 Metallic Chrome

POWDER COAT FINISHES⁴:

- 100 Black
- 105 Textured Black
- 106 Matte Black
- 200 White
- 206 Matte White
- 300 Dark Green
- 307 Emerald Green
- 311 Jadite
- 370 Mint
- 380 Chartreuse
- 390 Teal
- 400 Barn Red
- 420 Orange
- 470 Watermelon
- 480 Blush Pink
- 490 Magenta
- 495 Sherbet Orange
- 500 Buttery Yellow
- 570 Sunflower
- 600 Bronze

C - SHADE FINISH (CONTINUED)

POWDER COAT FINISHES⁴:

- 601 Chocolate
- 605 Rust
- 615 Oil-Rubbed Bronze
- 700 Royal Blue
- 705 Navy
- 710 Cobalt Blue
- 715 Delphite Blue
- 790 Lavender
- 800 Industrial Grey
- 805 Charcoal Granite
- 810 Graphite
- 975 Galvanized

NATURAL METALS⁵:

- 995 Raw Copper
- 996 Weathered Copper
- 997 Raw Brass
- 998 Weathered Brass
- 999 Oil-Rubbed Copper

D - MOUNTING

Please Note: If Flush Mount [F] is selected in Section A, please select NA

- NA Not Applicable

CSA LISTED CORDS:

- SBK Standard Black
- SBH Standard White
- CSB Black Cloth
- CSW White Cloth
- CMG Grey Cloth
- CSR Red Cloth
- CRZ Red Chevron Cloth
- CSBB Black & Brown Cloth
- CSRW Red & White Cloth
- CSGW Gold & White Cloth
- CSBG Black & Gold Cloth
- CSBW Black & White Cloth
- CSBP Black & Pink Cloth
- CSUW Blue & White Cloth

CHAIN MOUNT OPTIONS⁶:

- CN36 3' of Chain
- CN48 4' of Chain
- CN60 5' of Chain
- CN72 6' of Chain

D - MOUNTING (CONTINUED)

GOOSENECK OPTIONS:

- G1⁶ G11⁶ G26⁶
- G2⁶ G12⁶ G32
- G3^{6,7} G13 G34⁶
- G4⁷ G14 G35⁶
- G5⁶ G15 G36⁶
- G6 G16⁶ G64⁶
- G7 G17 G65⁶
- G8 G22
- G9 G24
- G10 G25

STEM MOUNT OPTIONS:

- ST506 .5" Stem Mount, 6"⁶
- ST512 .5" Stem Mount, 12"⁶
- ST518 .5" Stem Mount, 18"⁶
- ST524 .5" Stem Mount, 24"⁶
- ST536 .5" Stem Mount, 36"⁶
- ST548 .5" Stem Mount, 48"⁶
- ST706 .75" Stem Mount, 6"
- ST712 .75" Stem Mount, 12"
- ST718 .75" Stem Mount, 18"
- ST724 .75" Stem Mount, 24"
- ST736 .75" Stem Mount, 36"
- ST748 .75" Stem Mount, 48"

E - MOUNTING FINISH

Please Note: See Section C for Finish Options. 980-Brushed Aluminum is also available for Gooseneck (Not Available with G36, G64 & G65) and Stem mounting styles. If a Porcelain shade finish is selected, mounting will be powder coat painted-to-match. Porcelain shade finishes are not available with a Natural Metal mounting finish

(I) If Cord Hung [C], selection identifies canopy finish

(II) If Chain Hung [CN] Mounting Style, selection identifies chain and canopy finish. Natural Metals are not applicable

(III) If Stem Mount [S] Mounting Style, selection identifies stem and canopy finish

(IV) If Flush Mount [F] Mounting Style, selection identifies hex coupler and canopy finish. Natural Metals are not applicable

- 980 Brushed Aluminum

F - CORDS⁸

Please Note: See Section D for all applicable CSA Listed Cord Options

- NA Not Applicable

G - SHADE ACCESSORIES⁶

- NA None
- WC Wire Cage
- ACR Acrylic Diffuser^{9,10}

H - SHADE ACCESSORY FINISH

Please Note: See Section C for Finish Options. Natural Metals not applicable. If Porcelain Finish is selected, accessory will be powder coat painted-to-match

- NA Not Applicable

I - MOUNTING ACCESSORY

Please Note: Mounting Accessories below are only applicable with select Mounting Styles. Please refer to product listings on our website for further detail.

- NA None/Not Applicable
- HSC Hang Straight Canopy^{6,11}
- LDBPC LED Decorative Backing Plate Cover^{12,13}
- LDCHX LED Decorative Backing Plate Cover & Hex Cover^{12,13}

J - LIGHT SOURCE

- LED11 850 Lumen, 11W LED
- LED16 1250 Lumen, 16W LED
- LED27 2000 Lumen, 27W LED¹⁴
- LED38 3000 Lumen, 38W LED¹⁴
- LED43 4000 Lumen, 43W LED¹⁴

K - COLOR TEMPERATURE

- 2700K 2700K, Warm White
- 3000K 3000K, Neutral White
- 3500K 3500K, Bright White
- 4000K 4000K, Cool White

L - LED LENS

- DL Domed Lens
- FL Flat Lens

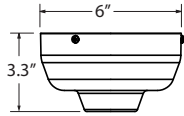
IMPORTANT: (1) Not available with Acrylic Diffuser shade accessory (2) Not available in Brass (3) All Porcelain Enamel finished shades feature a white interior and a black outer rim (4) All Powder Coat finished shades, Galvanized excluded, feature a white interior (5) Natural Metals have a longer estimated manufacturing time, please check the website for exact lead time. There are no returns accepted on Natural Metals (6) Not available in Natural Metals (7) Not compatible with 16" shade size or larger (8) Only applicable if Chain Hung Mounting Style selected in Section A, select NA if another Mounting Style is selected (9) Acrylic Diffuser limits the maximum lumens delivered and LPW. Selection Limits: 1250 Max for 8" and 10" shades; 2000 Max for 12" and 14" shades; 3000 Max for 16" and 20" shades (10) Fixture is CSA listed for Damp Locations with Acrylic Diffuser (11) Only applicable if Stem Mounting Style is selected in Section A (12) Only available if Gooseneck Mounting Style is selected in Section A (13) Not available with G3, G4, G11, G15, & G26 Gooseneck option (14) Not applicable if DBW8 or DBW10 is selected in section B

BARN LIGHT ELECTRIC CO.

WILCOX INTEGRATED LED SERIES SPS-0453 REV D

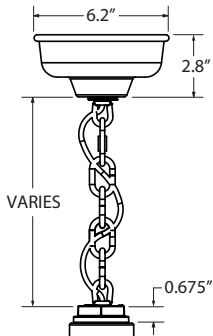
MOUNTING STYLE

HIGH LUMEN CANOPY FOR PENDANT & FLUSH MOUNT



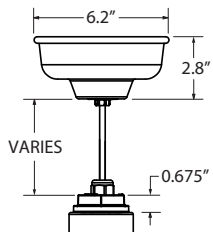
Required if LED 27, 38, 43 Light Source selected in Section J

CHAIN HUNG PENDANT (CN)



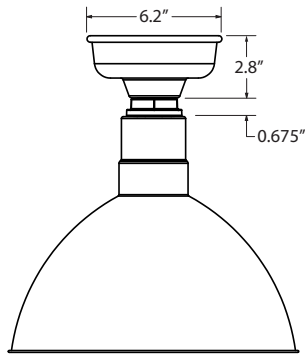
Canopy shown required if LED 11 & 16 Light Source selected in Section J

CORD HUNG PENDANT (C)



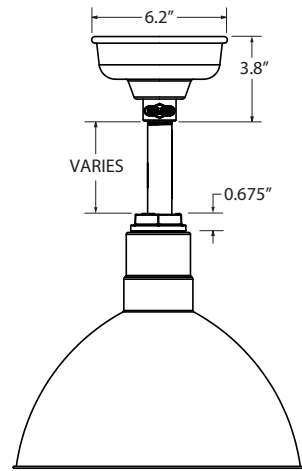
Canopy shown required if LED 11 & 16 Light Source selected in Section J

FLUSH MOUNT (F)



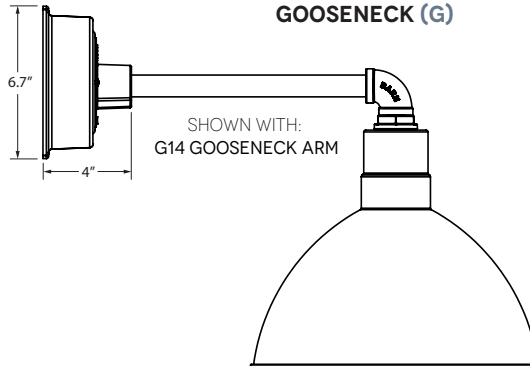
Canopy shown required if LED 11 & 16 Light Source selected in Section J

STEM MOUNT PENDANT (S)

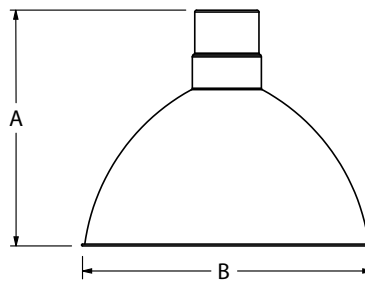


Canopy shown required if LED 11 & 16 Light Source selected in Section J

GOOSENECK (G)



LUMINAIRE DIMENSIONS



SHADE CODE	HEIGHT (A)	DIAMETER (B)	EXTENSION (C)
DBW8	8.25"	8"	4.3"
DBW10	9"	10"	3.6"
DBW12	9.75"	12"	2.8"
DBW14	11.25"	14"	1.3"
DBW16	12.75"	16"	N/A
DBW20	16.25"	20"	N/A

BARN LIGHT ELECTRIC CO.

WILCOX INTEGRATED LED SERIES SPS-0453 REV D

SPECIFICATIONS

CERTIFICATIONS, LISTINGS & WARRANTY

MADE IN THE USA
 Manufactured and Hand-Crafted in Our 60,000 Square Foot Facility Located in Titusville, FL

CSA LISTED FOR WET LOCATIONS
 Includes All Gooseneck, Stem and Flush Mounting Styles
 Acrylic Diffuser is CSA Listed for Damp Locations for Gooseneck and Stem Mounting Styles

CSA LISTED FOR DAMP LOCATIONS
 Includes All Chain and Cord Hung Mounting Styles
 Acrylic Diffuser is CSA Listed for Damp Locations

LIMITED WARRANTY
 For Additional Information on Our Limited Warranty, Please See Our Terms & Conditions

OPERATING TEMPERATURE
 -30°C to 40°C

CONSTRUCTION & FINISH

POWDER COAT SHADE
 Hand-Spun from High Purity 3003-O Temper Aluminum

GALVANIZE SHADE
 Hand Spun from High Quality Galvanized Steel or from High Purity 3003-O Temper Aluminum for 20" Size Shades

PORCELAIN SHADE
 Hand-Spun from 20 Gauge Porcelain Steel

POWDER COAT FINISHES
 Polyester Powder Coat Finishes Are Electro-Statically Applied and Thermocured

PORCELAIN FINISHES
 Applied by Hand and Fired in a High Temperature Oven

COPPER
 Hand-Spun from High Purity C11000-O60 ETP Copper

BRASS
 Hand-Spun from High Purity C2600-O60 Brass

STEM
 1/2" Nominal (0.84" Actual) or 3/4" Nominal (1.05" Actual) Sch 40, 6063 Aluminum Mounting Stem. Custom Lengths Available upon Request.

GOOSENECK
 1/2" Nominal (0.84" Actual) or 3/4" Nominal (1.05" Actual) Sch 40, 6063 Aluminum Gooseneck

CORD
 Cord-Hung Pendants Include 7' of Standard Cord or 5' of Cloth Cord, +/- For Socket Orientation

CHAIN
 4-Gauge Chain Complete with Quick Link for On-Site Adjustments to Chain's Length

LED LIGHT SOURCE

LED TYPE: CREE LMH2 MODULE
 INITIAL LUMENS DELIVERED: UP TO 4000 LUMENS
 L90(6K) > 36,300 HOURS
 AVAILABLE CCT: 2700K, 3000K, 3500K, 4000K
 Custom Temperatures Available upon Request
 90+ CRI
 2 STEP MACADAMS ELLIPSE
 EFFICACY: UP TO 93 LPW
 High Efficacy Available upon Request, Consult Factory for Additional Information

ELECTRICAL/LED DRIVER

DRIVER TYPE: ERP ESS/T & ESP/T
 POWER FACTOR > 0.9
 EFFICIENCY: UP TO 87% TYPICAL
 INPUT VOLTAGE: 120-277 VAC (SEE DIMMING SECTION)
 CLASS 2 POWER SUPPLY
 LED DRIVER LIFETIME: > 100,000 HOURS (@ 25 DEG C AMBIENT)
 IP64 MINIMUM RATING CASE WITH SILICONE-BASED POTTING
 PROTECTIONS
 Output Open Load, Over-Current and Short-Circuit (hiccup), and Over-Temperature with Auto Recovery
 CONDUCTED AND RADIATED EMI
 Compliant with FCC CFR Title 47 Part 15 Class B (120 Vac), Class A (277 Vac) and EN55015 (CISPR 15) at 220, 230 and 240 Vac
 COMPLIANT WITH
 Complies with Energy Star® DLR (DesignLight Consortium®) and CA Title 24 Technical Requirements

DIMMING

TRI-MODE DIMMING™
 Compatible with TRIAC (forward-phase or leading-edge), ELV (reverse-phase or trailing-edge) and 0-10 V Dimmers
 DIMMING RANGE 1-100%
 The Dimming Range Is Dependent on Each Specific Dimmer. May Not Be Able to Achieve 1% Dimming with Some Dimmers.
 TRIAC AND ELV DIMMING ONLY AT 120 VAC
 ELV DIMMING AT 230 VAC
 Available by Request
 COMPATIBLE DIMMERS
 Consult Factory for Additional Information on Dimming

Project		Catalog #		Type	
Prepared by		Notes		Date	



Metalux SNLED Lensed

Lensed LED Strip Round and Square Lens

Typical Applications

Storage / Utility • Coves • Display Cases • Task and General Area

Interactive Menu

- Order Information [page 2](#)
- Photometric Data [page 3](#)
- Connected Systems [page 3](#)
- Product Warranty

Top Product Features

- Standard (SL) and High Lumen/High Efficacy (HL) packages
- High efficiencies - up to 153 LPW
- Three different lens types for optical control
- Two different reflectors for precise distribution control
- Available CCT: 3000K, 3500K, 4000K and 5000K
- Minimum CRI of 80; 90 CRI available
- Options to meet Trade Agreements Act requirements

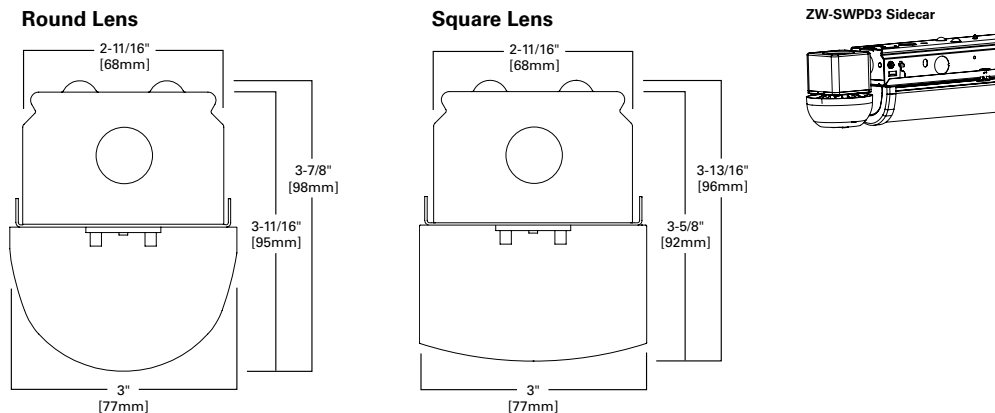
Product Certification



Product Features



Dimensional Details



[additional product diagrams](#)

Metalux

SNLED Lensed

Product Specifications

Construction

- Die-formed of cold rolled steel with numerous knockouts for easy installation
- Groove for Tong Hanger
- Convertible end plate for continuous row alignment
- Channel/wireway cover secured with sheet metal screws
- Surface, pendant or stem mounting

Controls

- 0-10V dimming drivers to 10% or to 1% options
- Step-dimming option
- Fifth Light DALI 2.0 driver option

Electrical

- Long-life LED system with electrical driver for optimal performance
- LED's available in 3000K, 3500K, 4000K or 5000K with CRI of 80 standard or optional 90 CRI
- TM21 rating of L87>60,000 hours
- Electronic drivers available for 120-277V, 347V and 480 applications
- Operating temperature of -20°C to 40°C; Ideal for cold storage environments

Emergency Battery Pack Option

- Optional 120V-277V integral emergency battery pack available in 7W or 14W
- 7-watt battery provides approximately 900 lumens; 14-watt battery approximately 1800 lumens depending on efficacy
- 90-minute backup period for code compliance
- Test switch with laser pointer allows safe testing from floor
- Patented EZ Key prevents accidental discharge during construction
- Generator transfer options available

Finish

- Multi-stage, iron phosphate pretreatment
- Highly reflective paint after fabrication
- Standard baked white enamel finish

Shielding

- Three round lensed optical distributions available: Clear with linear ribs (LC), semi-frost for narrow distribution (LN) and full frost for wide distribution (LW)
- Three square lensed optical distributions available: clear with linear ribs (SLC), semi-frost for narrow distribution (SLN) and full frost for wide distribution (SLW)

Compliance

- cULus Listed for damp locations
- RoHS compliant
- State of California Title 24 high efficacy luminaire
- DesignLights Consortium® Qualified and classified for DLC Standard and DLC Premium (refer to www.designlights.org)
- Suitable for closet use when installed to NEC 410.16 spacings standards

Warranty

- Five year warranty

WaveLinx Lite devices are not currently compatible with the WaveLinx Pro Wireless Area Controller

Control Systems

- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite



Photometric Data

[View IES files](#)

Energy and Performance Data

CCT Table

Approximate Color Temperature Multiplier	
2700K	.93
3000K	.98
3500K	1.0
4000K	1.02
5000K	1.02

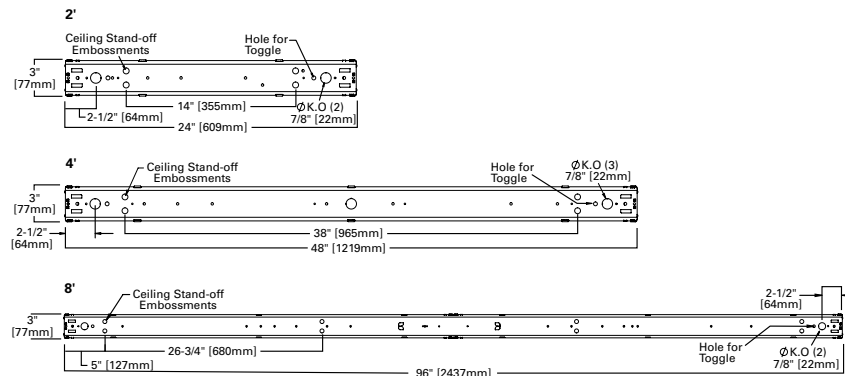
CRI

Lumen multiplier (80CRI to 90CRI)			
3000K	3500K	4000K	5000K
0.805	0.840	0.846	0.901

Shipping Data

Length	Wt.
2 ft.	4.3 lbs.
4 ft.	8.2 lbs.
8 ft.	15.1 lbs.

Dimensional and Mounting Details



Metalux

SNLED Lensed

Energy and Performance Data

Wattage: Round Clear Lens

SNLED Type	Lumen Type	Length	Catalog Number**	Nominal 3500K Lumens	Wattage	lm/W
Clear Lens (LC)	Standard	2 ft.	2SNLED-LD5-18SL-LC-UNV-L8XX-CD1-U	1960	14	137.4
Clear Lens (LC)	Standard	2 ft.	2SNLED-LD5-22SL-LC-UNV-L8XX-CD1-U	2420	18	133.7
Clear Lens (LC)	Standard	2 ft.	2SNLED-LD5-26SL-LC-UNV-L8XX-CD1-U	2747	21	131.1
Clear Lens (LC)	High	2 ft.	2SNLED-LD5-34HL-LC-UNV-L8XX-CD1-U	3487	27	131.2
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-18SL-LC-UNV-L8XX-CD1-U	1890	13	145.0
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-22SL-LC-UNV-L8XX-CD1-U	2344	16	146.4
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-26SL-LC-UNV-L8XX-CD1-U	2699	18	146.3
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-30SL-LC-UNV-L8XX-CD1-U	3077	21	145.4
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-34SL-LC-UNV-L8XX-CD1-U	3567	25	143.3
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-37SL-LC-UNV-L8XX-CD1-U	3924	28	141.6
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-41SL-LC-UNV-L8XX-CD1-U	4269	31	139.6
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-46SL-LC-UNV-L8XX-CD1-U	4718	35	136.8
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-49SL-LC-UNV-L8XX-CD1-U	5051	38	134.4
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-52SL-LC-UNV-L8XX-CD1-U	5478	41	133.3
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-56SL-LC-UNV-L8XX-CD1-U	5880	46	127.4
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-63SL-LC-UNV-L8XX-CD1-U	6358	52	123.1
Clear Lens (LC)	Standard	4 ft.	4SNLED-LD5-66SL-LC-UNV-L8XX-CD1-U	6628	55	120.2
Clear Lens (LC)	High	4 ft.	4SNLED-LD5-52HL-LC-UNV-L8XX-CD1-U	5171	37	139.5
Clear Lens (LC)	High	4 ft.	4SNLED-LD5-55HL-LC-UNV-L8XX-CD1-U	5409	39	138.5
Clear Lens (LC)	High	4 ft.	4SNLED-LD5-60HL-LC-UNV-L8XX-CD1-U	5893	43	136.7
Clear Lens (LC)	High	4 ft.	4SNLED-LD5-76HL-LC-UNV-L8XX-CD1-U	7774	62	125.1
Clear Lens (LC)	Standard	8 ft.	8TSNLED-LD5-60SL-LC-UNV-L8XX-CD1-U	6154	42	145.4
Clear Lens (LC)	Standard	8 ft.	8TSNLED-LD5-68SL-LC-UNV-L8XX-CD1-U	7134	50	143.3
Clear Lens (LC)	Standard	8 ft.	8TSNLED-LD5-75SL-LC-UNV-L8XX-CD1-U	7847	55	141.6
Clear Lens (LC)	Standard	8 ft.	8TSNLED-LD5-83SL-LC-UNV-L8XX-CD1-U	8537	61	139.6
Clear Lens (LC)	Standard	8 ft.	8TSNLED-LD5-90SL-LC-UNV-L8XX-CD1-U	9437	69	136.8
Clear Lens (LC)	Standard	8 ft.	8TSNLED-LD5-98SL-LC-UNV-L8XX-CD1-U	10101	75	134.4
Clear Lens (LC)	Standard	8 ft.	8TSNLED-LD5-105SL-LC-UNV-L8XX-CD1-U	10956	82	133.3
Clear Lens (LC)	High	8 ft.	8TSNLED-LD5-130HL-LC-UNV-L8XX-CD2-U	11786	86	136.7
Clear Lens (LC)	High	8 ft.	8TSNLED-LD5-170HL-LC-UNV-L8XX-CD2-U	15549	124	125.1

* Consult factory for stock availability. ** Lumen portion of catalog number may not match actual lumens.

Metalux

SNLED Lensed

Energy and Performance Data

Wattage: Round Semi-frost Lens, Narrow

SNLED Type	Lumen Type	Length	Catalog Number**	Nominal 3500K Lumens	Wattage	lm/W
Semi-Frost Lens (LN)	Standard	2 ft.	2SNLED-LD5-18SL-LN-UNV-L8XX-CD1-U	1903	14	133.4
Semi-Frost Lens (LN)	Standard	2 ft.	2SNLED-LD5-22SL-LN-UNV-L8XX-CD1-U	2350	18	129.8
Semi-Frost Lens (LN)	Standard	2 ft.	2SNLED-LD5-26SL-LN-UNV-L8XX-CD1-U	2667	21	127.3
Semi-Frost Lens (LN)	High	2 ft.	2SNLED-LD5-32HL-LN-UNV-L8XX-CD1-U	3385	27	127.4
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-18SL-LN-UNV-L8XX-CD1-U	1835	13	140.8
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-22SL-LN-UNV-L8XX-CD1-U	2276	16	142.2
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-26SL-LN-UNV-L8XX-CD1-U	2620	18	142.0
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-30SL-LN-UNV-L8XX-CD1-U	2987	21	141.2
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-34SL-LN-UNV-L8XX-CD1-U	3463	25	139.2
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-37SL-LN-UNV-L8XX-CD1-U	3809	28	137.5
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-41SL-LN-UNV-L8XX-CD1-U	4144	31	135.6
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-46SL-LN-UNV-L8XX-CD1-U	4581	35	132.8
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-49SL-LN-UNV-L8XX-CD1-U	4903	38	130.4
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-53SL-LN-UNV-L8XX-CD1-U	5318	41	129.4
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-56SL-LN-UNV-L8XX-CD1-U	5708	46	123.7
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-61SL-LN-UNV-L8XX-CD1-U	6172	52	119.5
Semi-Frost Lens (LN)	Standard	4 ft.	4SNLED-LD5-64SL-LN-UNV-L8XX-CD1-U	6435	55	116.7
Semi-Frost Lens (LN)	High	4 ft.	4SNLED-LD5-50HL-LN-UNV-L8XX-CD1-U	5020	37	135.4
Semi-Frost Lens (LN)	High	4 ft.	4SNLED-LD5-54HL-LN-UNV-L8XX-CD1-U	5252	39	134.5
Semi-Frost Lens (LN)	High	4 ft.	4SNLED-LD5-60HL-LN-UNV-L8XX-CD1-U	5721	43	132.7
Semi-Frost Lens (LN)	High	4 ft.	4SNLED-LD5-74HL-LN-UNV-L8XX-CD1-U	7548	62	121.5
Semi-Frost Lens (LN)	Standard	8 ft.	8TSNLED-LD5-60SL-LN-UNV-L8XX-CD1-U	5975	42	141.2
Semi-Frost Lens (LN)	Standard	8 ft.	8TSNLED-LD5-68SL-LN-UNV-L8XX-CD1-U	6926	50	139.2
Semi-Frost Lens (LN)	Standard	8 ft.	8TSNLED-LD5-75SL-LN-UNV-L8XX-CD1-U	7619	55	137.5
Semi-Frost Lens (LN)	Standard	8 ft.	8TSNLED-LD5-83SL-LN-UNV-L8XX-CD1-U	8289	61	135.6
Semi-Frost Lens (LN)	Standard	8 ft.	8TSNLED-LD5-91SL-LN-UNV-L8XX-CD1-U	9162	69	132.8
Semi-Frost Lens (LN)	Standard	8 ft.	8TSNLED-LD5-98SL-LN-UNV-L8XX-CD1-U	9807	75	130.4
Semi-Frost Lens (LN)	Standard	8 ft.	8TSNLED-LD5-106SL-LN-UNV-L8XX-CD1-U	10636	82	129.4
Semi-Frost Lens (LN)	High	8 ft.	8TSNLED-LD5-130HL-LN-UNV-L8XX-CD2-U	11442	86	132.7
Semi-Frost Lens (LN)	High	8 ft.	8TSNLED-LD5-170HL-LN-UNV-L8XX-CD2-U	15095	124	121.5

* Consult factory for stock availability. ** Lumen portion of catalog number may not match actual lumens.

Metalux

SNLED Lensed

Energy and Performance Data

Wattage: Round Full-frost Lens, Wide

SNLED Type	Lumen Type	Length	Catalog Number**	Nominal 3500K Lumens	Wattage	lm/W
Full Frost Lens (LW)	Standard	2 ft.	2SNLED-LD5-16SL-LW-UNV-L8XX-CD1-U	1750	14	122.7
Full Frost Lens (LW)	Standard	2 ft.	2SNLED-LD5-20SL-LW-UNV-L8XX-CD1-U	2162	18	119.4
Full Frost Lens (LW)	Standard	2 ft.	2SNLED-LD5-23SL-LW-UNV-L8XX-CD1-U	2453	21	117.1
Full Frost Lens (LW)	High	2 ft.	2SNLED-LD5-30HL-LW-UNV-L8XX-CD1-U	2975	27	112.0
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-16SL-LW-UNV-L8XX-CD1-U	1688	13	129.5
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-20SL-LW-UNV-L8XX-CD1-U	2093	16	130.8
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-23SL-LW-UNV-L8XX-CD1-U	2410	18	130.7
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-27SL-LW-UNV-L8XX-CD1-U	2748	21	129.8
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-30SL-LW-UNV-L8XX-CD1-U	3186	25	128.0
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-33SL-LW-UNV-L8XX-CD1-U	3504	28	126.5
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-37SL-LW-UNV-L8XX-CD1-U	3812	31	124.7
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-41SL-LW-UNV-L8XX-CD1-U	4214	35	122.1
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-44SL-LW-UNV-L8XX-CD1-U	4511	38	120.0
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-47SL-LW-UNV-L8XX-CD1-U	4892	41	119.1
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-50SL-LW-UNV-L8XX-CD1-U	5251	46	113.8
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-56SL-LW-UNV-L8XX-CD1-U	5678	52	109.9
Full Frost Lens (LW)	Standard	4 ft.	4SNLED-LD5-58SL-LW-UNV-L8XX-CD1-U	5920	55	107.3
Full Frost Lens (LW)	High	4 ft.	4SNLED-LD5-44HL-LW-UNV-L8XX-CD1-U	4412	37	119.0
Full Frost Lens (LW)	High	4 ft.	4SNLED-LD5-48HL-LW-UNV-L8XX-CD1-U	4615	39	118.2
Full Frost Lens (LW)	High	4 ft.	4SNLED-LD5-54HL-LW-UNV-L8XX-CD1-U	5028	43	116.6
Full Frost Lens (LW)	High	4 ft.	4SNLED-LD5-65HL-LW-UNV-L8XX-CD1-U	6633	62	106.7
Full Frost Lens (LW)	Standard	8 ft.	8TSNLED-LD5-54SL-LW-UNV-L8XX-CD1-U	5496	42	129.8
Full Frost Lens (LW)	Standard	8 ft.	8TSNLED-LD5-61SL-LW-UNV-L8XX-CD1-U	6371	50	128.0
Full Frost Lens (LW)	Standard	8 ft.	8TSNLED-LD5-67SL-LW-UNV-L8XX-CD1-U	6371	50	128.0
Full Frost Lens (LW)	Standard	8 ft.	8TSNLED-LD5-74SL-LW-UNV-L8XX-CD1-U	7625	61	124.7
Full Frost Lens (LW)	Standard	8 ft.	8TSNLED-LD5-81SL-LW-UNV-L8XX-CD1-U	8428	69	122.1
Full Frost Lens (LW)	Standard	8 ft.	8TSNLED-LD5-88SL-LW-UNV-L8XX-CD1-U	9022	75	120.0
Full Frost Lens (LW)	Standard	8 ft.	8TSNLED-LD5-95SL-LW-UNV-L8XX-CD1-U	9785	82	119.1
Full Frost Lens (LW)	High	8 ft.	8TSNLED-LD5-110HL-LW-UNV-L8XX-CD1-U	11356	103	109.9
Full Frost Lens (LW)	High	8 ft.	8TSNLED-LD5-150HL-LW-UNV-L8XX-CD2-U	15739	158	99.5

* Consult factory for stock availability. ** Lumen portion of catalog number may not match actual lumens.

Metalux

SNLED Lensed

Energy and Performance Data

Wattage: Square Flat Clear Lens

SNLED Type	Lumen Type	Length	Catalog Number**	Nominal 3500K Lumens	Wattage	lm/W
Flat Clear Lens (SLC)	Standard	2 ft.	2SNLED-LD5-19SL-SLC-UNV-L8XX-CD1-U	1936	14	135.7
Flat Clear Lens (SLC)	Standard	2 ft.	2SNLED-LD5-24SL-SLC-UNV-L8XX-CD1-U	2391	18	132.1
Flat Clear Lens (SLC)	Standard	2 ft.	2SNLED-LD5-27SL-SLC-UNV-L8XX-CD1-U	2714	21	129.5
Flat Clear Lens (SLC)	High	2 ft.	2SNLED-LD5-37HL-SLC-UNV-L8XX-CD1-U	3669	27	138.1
Flat Clear Lens (SLC)	High	2 ft.	2SNLED-LD5-48HL-SLC-UNV-L8XX-CD1-U	4830	36	134.5
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-19SL-SLC-UNV-L8XX-CD1-U	1868	13	143.3
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-23SL-SLC-UNV-L8XX-CD1-U	2316	16	144.7
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-27SL-SLC-UNV-L8XX-CD1-U	2666	18	144.5
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-30SL-SLC-UNV-L8XX-CD1-U	3040	21	143.6
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-35SL-SLC-UNV-L8XX-CD1-U	3524	25	141.6
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-39SL-SLC-UNV-L8XX-CD1-U	3876	28	139.9
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-42SL-SLC-UNV-L8XX-CD1-U	4217	31	138.0
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-47SL-SLC-UNV-L8XX-CD1-U	4662	35	135.1
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-50SL-SLC-UNV-L8XX-CD1-U	4990	38	132.7
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-54SL-SLC-UNV-L8XX-CD1-U	5412	41	131.7
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-58SL-SLC-UNV-L8XX-CD1-U	5809	46	125.9
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-63SL-SLC-UNV-L8XX-CD1-U	6281	52	121.6
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-65SL-SLC-UNV-L8XX-CD1-U	6549	55	118.7
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-77SL-SLC-UNV-L8XX-CD1-U	7697	70	110.0
Flat Clear Lens (SLC)	Standard	4 ft.	4SNLED-LD5-85SL-SLC-UNV-L8XX-CD1-U	8490	85	100.4
Flat Clear Lens (SLC)	High	4 ft.	4SNLED-LD5-54HL-SLC-UNV-L8XX-CD1-U	5441	37	146.8
Flat Clear Lens (SLC)	High	4 ft.	4SNLED-LD5-57HL-SLC-UNV-L8XX-CD1-U	5692	39	145.7
Flat Clear Lens (SLC)	High	4 ft.	4SNLED-LD5-62HL-SLC-UNV-L8XX-CD1-U	6201	43	143.8
Flat Clear Lens (SLC)	High	4 ft.	4SNLED-LD5-68HL-SLC-UNV-L8XX-CD1-U	6795	48	140.8
Flat Clear Lens (SLC)	High	4 ft.	4SNLED-LD5-82HL-SLC-UNV-L8XX-CD1-U	8181	62	131.7
Flat Clear Lens (SLC)	High	4 ft.	4SNLED-LD5-97HL-SLC-UNV-L8XX-CD1-U	9705	79	122.7
Flat Clear Lens (SLC)	Standard	8 ft.	8TSNLED-LD5-60SL-SLC-UNV-L8XX-CD1-U	6080	42	143.6
Flat Clear Lens (SLC)	Standard	8 ft.	8TSNLED-LD5-70SL-SLC-UNV-L8XX-CD1-U	7048	50	141.6
Flat Clear Lens (SLC)	Standard	8 ft.	8TSNLED-LD5-78SL-SLC-UNV-L8XX-CD1-U	7753	50	139.9
Flat Clear Lens (SLC)	Standard	8 ft.	8TSNLED-LD5-84SL-SLC-UNV-L8XX-CD1-U	8435	61	138.0
Flat Clear Lens (SLC)	Standard	8 ft.	8TSNLED-LD5-93SL-SLC-UNV-L8XX-CD1-U	9323	69	135.1
Flat Clear Lens (SLC)	Standard	8 ft.	8TSNLED-LD5-100SL-SLC-UNV-L8XX-CD1-U	9980	75	132.7
Flat Clear Lens (SLC)	Standard	8 ft.	8TSNLED-LD5-108SL-SLC-UNV-L8XX-CD1-U	10824	82	131.7
Flat Clear Lens (SLC)	Standard	8 ft.	8TSNLED-LD5-116SL-SLC-UNV-L8XX-CD1-U	11618	61	125.9
Flat Clear Lens (SLC)	Standard	8 ft.	8TSNLED-LD5-125SL-SLC-UNV-L8XX-CD2-U	12562	69	121.6
Flat Clear Lens (SLC)	Standard	8 ft.	8TSNLED-LD5-131SL-SLC-UNV-L8XX-CD2-U	13097	75	118.7
Flat Clear Lens (SLC)	High	8 ft.	8TSNLED-LD5-130HL-SLC-UNV-L8XX-CD2-U	12402	82	143.8
Flat Clear Lens (SLC)	High	8 ft.	8TSNLED-LD5-170HL-SLC-UNV-L8XX-CD2-U	16361	103	131.7
Flat Clear Lens (SLC)	High	8 ft.	8TSNLED-LD5-200HL-SLC-UNV-L8XX-CD2-U	19411	158	122.7

* Consult factory for stock availability. ** Lumen portion of catalog number may not match actual lumens.

Metalux

SNLED Lensed

Energy and Performance Data

Wattage: Square Flat Semi-frost Lens, Narrow

SNLED Type	Lumen Type	Length	Catalog Number**	Nominal 3500K Lumens	Wattage	lm/W
Flat Semi-frost Lens (SLN)	Standard	2 ft.	2SNLED-LD5-19SL-SLN-UNV-L8XX-CD1-U	1931	14	135.3
Flat Semi-frost Lens (SLN)	Standard	2 ft.	2SNLED-LD5-24SL-SLN-UNV-L8XX-CD1-U	2385	18	131.7
Flat Semi-frost Lens (SLN)	Standard	2 ft.	2SNLED-LD5-27SL-SLN-UNV-L8XX-CD1-U	2706	21	129.1
Flat Semi-frost Lens (SLN)	High	2 ft.	2SNLED-LD5-37HL-SLN-UNV-L8XX-CD1-U	3659	27	137.7
Flat Semi-frost Lens (SLN)	High	2 ft.	2SNLED-LD5-48HL-SLN-UNV-L8XX-CD1-U	4816	36	134.2
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-19SL-SLN-UNV-L8XX-CD1-U	1863	13	142.9
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-23SL-SLN-UNV-L8XX-CD1-U	2309	16	144.3
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-27SL-SLN-UNV-L8XX-CD1-U	2659	18	144.1
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-30SL-SLN-UNV-L8XX-CD1-U	3032	21	143.2
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-35SL-SLN-UNV-L8XX-CD1-U	3514	25	141.2
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-39SL-SLN-UNV-L8XX-CD1-U	3866	28	139.5
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-42SL-SLN-UNV-L8XX-CD1-U	4206	31	137.6
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-46SL-SLN-UNV-L8XX-CD1-U	4649	35	134.7
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-50SL-SLN-UNV-L8XX-CD1-U	4976	38	132.4
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-54SL-SLN-UNV-L8XX-CD1-U	5397	41	131.4
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-58SL-SLN-UNV-L8XX-CD1-U	5793	46	125.6
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-63SL-SLN-UNV-L8XX-CD1-U	6264	52	121.3
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-65SL-SLN-UNV-L8XX-CD1-U	6530	55	118.4
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-78SL-SLN-UNV-L8XX-CD1-U	7676	70	109.7
Flat Semi-frost Lens (SLN)	Standard	4 ft.	4SNLED-LD5-85SL-SLN-UNV-L8XX-CD1-U	8466	85	100.1
Flat Semi-frost Lens (SLN)	High	4 ft.	4SNLED-LD5-54HL-SLN-UNV-L8XX-CD1-U	5426	37	146.4
Flat Semi-frost Lens (SLN)	High	4 ft.	4SNLED-LD5-57HL-SLN-UNV-L8XX-CD1-U	5676	39	145.3
Flat Semi-frost Lens (SLN)	High	4 ft.	4SNLED-LD5-62HL-SLN-UNV-L8XX-CD1-U	6184	43	143.4
Flat Semi-frost Lens (SLN)	High	4 ft.	4SNLED-LD5-68HL-SLN-UNV-L8XX-CD1-U	6776	48	140.5
Flat Semi-frost Lens (SLN)	High	4 ft.	4SNLED-LD5-82HL-SLN-UNV-L8XX-CD1-U	8158	62	131.3
Flat Semi-frost Lens (SLN)	High	4 ft.	4SNLED-LD5-97HL-SLN-UNV-L8XX-CD1-U	9679	79	122.4
Flat Semi-frost Lens (SLN)	Standard	8 ft.	8TSNLED-LD5-64SL-SLN-UNV-L8XX-CD1-U	6063	42	143.2
Flat Semi-frost Lens (SLN)	Standard	8 ft.	8TSNLED-LD5-70SL-SLN-UNV-L8XX-CD1-U	7028	50	141.2
Flat Semi-frost Lens (SLN)	Standard	8 ft.	8TSNLED-LD5-77SL-SLN-UNV-L8XX-CD1-U	7731	55	139.5
Flat Semi-frost Lens (SLN)	Standard	8 ft.	8TSNLED-LD5-84SL-SLN-UNV-L8XX-CD1-U	8411	61	137.6
Flat Semi-frost Lens (SLN)	Standard	8 ft.	8TSNLED-LD5-93SL-SLN-UNV-L8XX-CD1-U	9297	69	134.7
Flat Semi-frost Lens (SLN)	Standard	8 ft.	8TSNLED-LD5-100SL-SLN-UNV-L8XX-CD1-U	9952	75	132.4
Flat Semi-frost Lens (SLN)	Standard	8 ft.	8TSNLED-LD5-108SL-SLN-UNV-L8XX-CD1-U	10794	82	131.4
Flat Semi-frost Lens (SLN)	Standard	8 ft.	8TSNLED-LD5-116SL-SLN-UNV-L8XX-CD1-U	11586	92	125.6
Flat Semi-frost Lens (SLN)	Standard	8 ft.	8TSNLED-LD5-125SL-SLN-UNV-L8XX-CD2-U	12527	103	121.3
Flat Semi-frost Lens (SLN)	Standard	8 ft.	8TSNLED-LD5-130SL-SLN-UNV-L8XX-CD2-U	13061	110	118.4
Flat Semi-frost Lens (SLN)	High	8 ft.	8TSNLED-LD5-130HL-SLN-UNV-L8XX-CD2-U	12368	86	143.4
Flat Semi-frost Lens (SLN)	High	8 ft.	8TSNLED-LD5-170HL-SLN-UNV-L8XX-CD2-U	16316	124	131.3
Flat Semi-frost Lens (SLN)	High	8 ft.	8TSNLED-LD5-200HL-SLN-UNV-L8XX-CD2-U	19357	158	122.4

* Consult factory for stock availability. ** Lumen portion of catalog number may not match actual lumens.

Metalux

SNLED Lensed

Energy and Performance Data

Wattage: Square Flat Full-frost Lens, Wide

SNLED Type	Lumen Type	Length	Catalog Number**	Nominal 3500K Lumens	Wattage	lm/W
Flat Full-frost Lens (SLW)	Standard	2 ft.	2SNLED-LD5-16SL-SLW-UNV-L8XX-CD1-U	1604	14	112.4
Flat Full-frost Lens (SLW)	Standard	2 ft.	2SNLED-LD5-20SL-SLW-UNV-L8XX-CD1-U	1981	18	109.4
Flat Full-frost Lens (SLW)	Standard	2 ft.	2SNLED-LD5-22SL-SLW-UNV-L8XX-CD1-U	2248	21	107.3
Flat Full-frost Lens (SLW)	High	2 ft.	2SNLED-LD5-30HL-SLW-UNV-L8XX-CD1-U	3077	27	115.8
Flat Full-frost Lens (SLW)	High	2 ft.	2SNLED-LD5-41HL-SLW-UNV-L8XX-CD1-U	4051	36	
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-15SL-SLW-UNV-L8XX-CD1-U	1547	13	118.7
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-19SL-SLW-UNV-L8XX-CD1-U	1918	16	119.8
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-22SL-SLW-UNV-L8XX-CD1-U	2209	18	119.7
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-25SL-SLW-UNV-L8XX-CD1-U	2518	21	119.0
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-29SL-SLW-UNV-L8XX-CD1-U	2919	25	117.3
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-32SL-SLW-UNV-L8XX-CD1-U	3211	28	115.9
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-35SL-SLW-UNV-L8XX-CD1-U	3494	31	114.3
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-39SL-SLW-UNV-L8XX-CD1-U	3862	35	111.9
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-41SL-SLW-UNV-L8XX-CD1-U	4134	38	110.0
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-45SL-SLW-UNV-L8XX-CD1-U	4483	41	109.1
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-48SL-SLW-UNV-L8XX-CD1-U	4812	46	104.3
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-52SL-SLW-UNV-L8XX-CD1-U	5203	52	100.7
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-54SL-SLW-UNV-L8XX-CD1-U	5425	55	98.4
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-64SL-SLW-UNV-L8XX-CD1-U	6376	70	91.1
Flat Full-frost Lens (SLW)	Standard	4 ft.	4SNLED-LD5-70SL-SLW-UNV-L8XX-CD1-U	7033	48	83.1
Flat Full-frost Lens (SLW)	High	4 ft.	4SNLED-LD5-46HL-SLW-UNV-L8XX-CD1-U	4564	37	123.1
Flat Full-frost Lens (SLW)	High	4 ft.	4SNLED-LD5-48HL-SLW-UNV-L8XX-CD1-U	4774	39	122.2
Flat Full-frost Lens (SLW)	High	4 ft.	4SNLED-LD5-52HL-SLW-UNV-L8XX-CD1-U	5201	43	120.6
Flat Full-frost Lens (SLW)	High	4 ft.	4SNLED-LD5-57HL-SLW-UNV-L8XX-CD1-U	5699	48	118.1
Flat Full-frost Lens (SLW)	High	4 ft.	4SNLED-LD5-69HL-SLW-UNV-L8XX-CD1-U	6862	62	110.4
Flat Full-frost Lens (SLW)	High	4 ft.	4SNLED-LD5-81HL-SLW-UNV-L8XX-CD1-U	8141	79	102.9
Flat Full-frost Lens (SLW)	Standard	8 ft.	8TSNLED-LD5-50SL-SLW-UNV-L8XX-CD1-U	5037	42	119.0
Flat Full-frost Lens (SLW)	Standard	8 ft.	8TSNLED-LD5-58SL-SLW-UNV-L8XX-CD1-U	5838	50	117.3
Flat Full-frost Lens (SLW)	Standard	8 ft.	8TSNLED-LD5-64SL-SLW-UNV-L8XX-CD1-U	6422	55	115.9
Flat Full-frost Lens (SLW)	Standard	8 ft.	8TSNLED-LD5-70SL-SLW-UNV-L8XX-CD1-U	6987	61	114.3
Flat Full-frost Lens (SLW)	Standard	8 ft.	8TSNLED-LD5-77SL-SLW-UNV-L8XX-CD1-U	7723	69	111.9
Flat Full-frost Lens (SLW)	Standard	8 ft.	8TSNLED-LD5-83SL-SLW-UNV-L8XX-CD1-U	8267	75	110.0
Flat Full-frost Lens (SLW)	Standard	8 ft.	8TSNLED-LD5-90SL-SLW-UNV-L8XX-CD1-U	8966	82	109.1
Flat Full-frost Lens (SLW)	Standard	8 ft.	8TSNLED-LD5-96SL-SLW-UNV-L8XX-CD1-U	9624	92	104.3
Flat Full-frost Lens (SLW)	Standard	8 ft.	8TSNLED-LD5-104SL-SLW-UNV-L8XX-CD1-U	10406	103	100.7
Flat Full-frost Lens (SLW)	Standard	8 ft.	8TSNLED-LD5-108SL-SLW-UNV-L8XX-CD1-U	10850	110	98.4
Flat Full-frost Lens (SLW)	High	8 ft.	8TSNLED-LD5-130HL-SLW-UNV-L8XX-CD2-U	10402	86	120.6
Flat Full-frost Lens (SLW)	High	8 ft.	8TSNLED-LD5-170HL-SLW-UNV-L8XX-CD2-U	13723	124	110.4
Flat Full-frost Lens (SLW)	High	8 ft.	8TSNLED-LD5-200HL-SLW-UNV-L8XX-CD2-U	16281	158	102.9

* Consult factory for stock availability. ** Lumen portion of catalog number may not match actual lumens.

TYPE



FLUXWERX®

SPECIFICATION DATA

PROFILE MINI 20 UP | 80 DN LED (PM1xD)

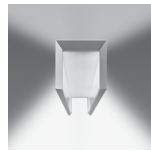
CATALOG #

PROJECT

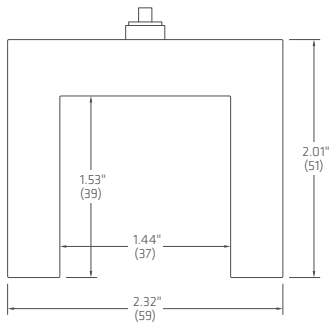
NOTES



21% Up | 79% Dn



CROSS SECTION



PERFORMANCE FOCUS

80 CRI 4000 K (PM1xDx40)

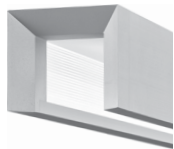
	Energy (W/4ft)	Light (lm/4ft)	Efficacy (lm/W)
Z	14 W	1700	123
A	18 W	2100	122
B	22 W	2650	120
C	28 W	3300	118

Color Matching (SDCM)	Lumen Maintenance (hr)	
	L90 per TM21	L70 Estimate
< 2	> 60,000	> 200,000

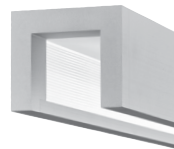
Nominal values, refer to back pages for full performance data.

ENDCAP OPTIONS

(B) BEVEL



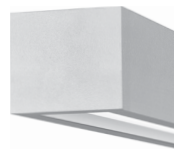
(F) FLAT



(P) CAPSULE



(S) SQUARE



FEATURES

- Signature open aperture design with fully luminous interior and no horizontal lenses or diffusers.
- Small-scale cross section, less than half the area of Profile, for minimal luminaire presence.
- Miniaturized Anidolic optics outperform much bigger luminaires – up to 15 ft o.c. spacing, delivering over 40 fc at 0.4 W/ft².
- Efficacies exceeding 135 lm/W with over 115 lm/W direct from a 1.5" aperture.
- Five direct and direct/indirect general area lighting distributions aligned with Profile, including independent up | down control.
- Four endcap styles, preinstalled for perfect fit and finish.
- Precision machined, clear anodized extruded aluminum fixture body in 4', 6' & 8' modules.





TYPE

SPECIFICATION DATA
PROFILE MINI 20 UP | 80 DN LED (PM1xD)

ORDER GUIDE

1	2	3	4	5	6	7	8	9	10	11	OPTIONS	CONTROLS
PM1		D										

1	FAMILY	2	ENDCAP	3	OPTICAL DISTRIBUTION	4	ENERGY ¹	5	CRI-CCT	6	FINISH ⁴
PM1	Profile Mini Area	B Bevel F Flat P Capsule S Square	A 40 Up 60 Dn B 100 Dn D 20 Up 80 Dn F 65 Up 35 Dn	Z 14 W ² A 18 W B 22 W C 28 W D 36 W ³	30 80 CRI 3000 K 35 80 CRI 3500 K 40 80 CRI 4000 K 93 90 CRI 3000 K 90 90 CRI 3500 K 94 90 CRI 4000 K	A Clear Anodized B Black Powdercoat S Metallic Silver Powdercoat W White Powdercoat C Custom Color (RAL)					

¹ Nominal input power /4 ft. For 347 V with E1-4/L1 add 4 W to above.
² Z: 100 Dn (B), 20|80 (D) Distributions
³ D: 40|60 (A), 65|35 (F) Distributions
⁴ Fixture finish only. Canopies are standard white.

7	LENGTH	8	CEILING TYPE ⁵	9	DRIVER	10	VOLTAGE	11	SUSPENSION
04 4 ft 06 6 ft 08 8 ft XX x ft ⁵	D Drywall G Grid S Structure R Remote	F1 Non-Dim F2 0-10 V Dim 3% 120-277V F3 0-10 V Dim 3% 347 V (Class 2 control wiring) E1 eldoLED ECO 0-10 V Dim 1% E2 eldoLED SOLO 0-10 V Dim 0.1% E3 eldoLED ECO DALI Dim 1% E4 eldoLED SOLO DALI Dim 0.1% L1 Lutron Hi-Lume 1% EcoSystem (LDE1) L2 Lutron Hi-Lume 1% 2-Wire 120 V (LTEA)	M 120-277 V 3 347 V ⁷	03 ≤ 3 ft 06 ≤ 6 ft 12 ≤ 12 ft 25 ≤ 25 ft					

⁵ Specify run length in 2" nominal increments. Important: Row lengths cannot be modified on site (factory installed endcaps & joiners).
⁶ Integrated driver with mounting, power feed, suspension + canopy, except for remote.
⁷ 347 V with E1-4/L1 driver: transformer included, not available in Drywall ceiling.

OPTIONS		CONTROLS	
WIRING & EMERGENCY⁸	ROW LAYOUT	SENSORS & CONTROLLERS	
A# Alternate Wiring Module Qty (2nd circuit in 8 ft modules for EM/NL or presentation switching) B# Battery Pack Qty H# Emergency Switch Qty (GTD or Controller)	C Chicago Plenum F 4 ft End Module G 6 ft Modules ⁹ N Non-Power End	SE1 Canopy Integrated Enlighted Smart Sensor ¹⁰ RE1 Remote Enlighted Smart Sensor VN1 Acuity nLight Converter ¹¹	

⁸ BP & GTD available for 120-277 V in Grid (G), Structure (S) and Remote (R) ceilings.
⁹ For 12 ft & 18 ft rows.
¹⁰ For Enlighted in drywall ceilings, use Remote (R) ceiling option. Enlighted with Independent Up | Dn or 8 ft Alternate Wiring (A) requires 2 sensors per luminaire and only one can be canopy integrated (SE1).
¹¹ For nLight in Drywall (D) and Structure (S) ceilings, contact Fluxwerx.



TYPE

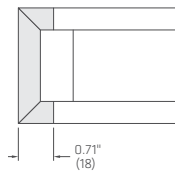
SPECIFICATION DATA
PROFILE MINI 20 UP | 80 DN LED (PM1xD)

LINEAR ANIDOLIC OPTIC

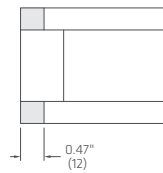


ENDCAP DIMENSIONS

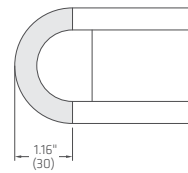
(B) BEVEL



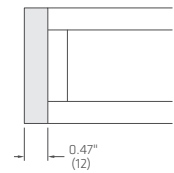
(F) FLAT



(P) CAPSULE



(S) SQUARE



RUN LENGTHS

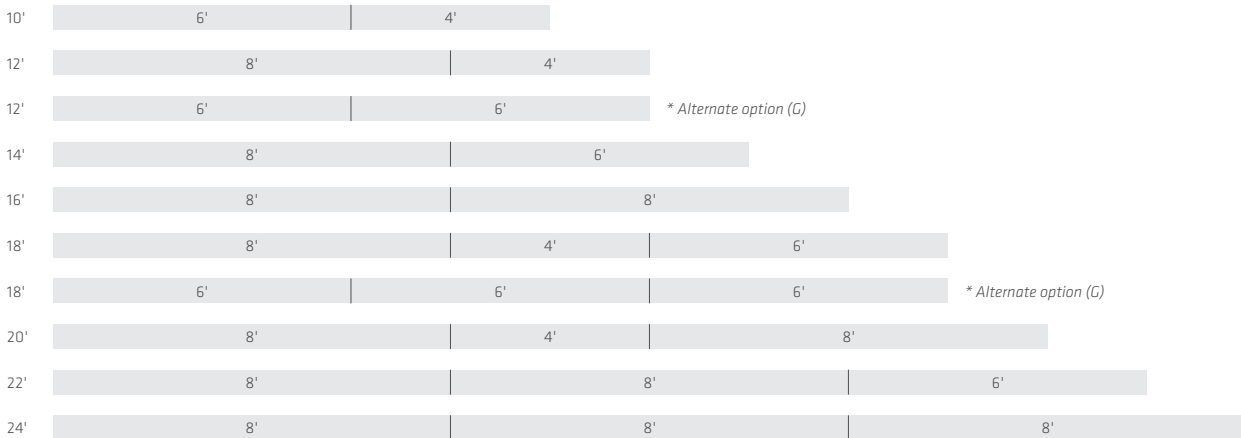
Standalone fixtures are available in 4', 6' + 8' nominal lengths.



IMPORTANT

Endcaps and joiners are integral luminaire components. Do not remove them to change run layouts.

Run lengths are available in 2' nominal increments.





SPECIFICATION DATA
PROFILE MINI 20 UP | 80 DN LED (PM1xD)

INTEGRATED DRIVER, MOUNTING, POWER FEEDS + SUSPENSION

Refer to separate product specification datasheets for detailed dimensions of mounting hardware components, driver enclosures, canopies and wiring.

(D) DRYWALL New or Retrofit	(G) GRID ON or OFF Grid	(S) STRUCTURE Exposed Ceilings	(R) REMOTE																								
<p>Integrated driver, power feed and mounting suspension points suitable for GWB or plaster thicknesses of <0.875" (22 mm).</p> <p>Perpendicular or Parallel</p> <p>Retrofit Method</p>	<p>Integrated clip, driver, power feed and mounting suspension points suitable for accessible ceiling grid heights of <1.75" (44 mm).</p> <p>Horizontal or Vertical</p> <p>Detached Method</p>	<p>Integrated driver with mounting, power feed, suspension + canopy suitable for exposed surface conduit or recessed junction boxes.</p> <p>Power Feed Canopy</p> <p>Suspension Canopy</p> <p>Battery Pack Option</p>	<p>External remote mounted driver. Power feed and suspension points suitable for exposed conduit or recessed junction boxes. See Notes for wire gauge guide.</p> <p>Power Feed</p> <p>Multivolt 120-277 V Driver</p>																								
<table border="0"> <tr> <td><input checked="" type="checkbox"/> 120-277 V</td> <td><input checked="" type="checkbox"/> 347 V</td> <td><input checked="" type="checkbox"/> Battery Pack</td> </tr> <tr> <td><input checked="" type="checkbox"/> 0-10 V Dim</td> <td><input checked="" type="checkbox"/> Lutron</td> <td><input checked="" type="checkbox"/> eldoLED</td> </tr> </table> <p><input checked="" type="checkbox"/> Canopy Integrated Enlighted Sensor</p> <p><input checked="" type="checkbox"/> Remote Enlighted Sensor</p>	<input checked="" type="checkbox"/> 120-277 V	<input checked="" type="checkbox"/> 347 V	<input checked="" type="checkbox"/> Battery Pack	<input checked="" type="checkbox"/> 0-10 V Dim	<input checked="" type="checkbox"/> Lutron	<input checked="" type="checkbox"/> eldoLED	<table border="0"> <tr> <td><input checked="" type="checkbox"/> 120-277 V</td> <td><input checked="" type="checkbox"/> 347 V</td> <td><input checked="" type="checkbox"/> Battery Pack</td> </tr> <tr> <td><input checked="" type="checkbox"/> 0-10 V Dim</td> <td><input checked="" type="checkbox"/> Lutron</td> <td><input checked="" type="checkbox"/> eldoLED</td> </tr> </table> <p><input checked="" type="checkbox"/> Canopy Integrated Enlighted Sensor</p> <p><input checked="" type="checkbox"/> Remote Enlighted Sensor</p>	<input checked="" type="checkbox"/> 120-277 V	<input checked="" type="checkbox"/> 347 V	<input checked="" type="checkbox"/> Battery Pack	<input checked="" type="checkbox"/> 0-10 V Dim	<input checked="" type="checkbox"/> Lutron	<input checked="" type="checkbox"/> eldoLED	<table border="0"> <tr> <td><input checked="" type="checkbox"/> 120-277 V</td> <td><input checked="" type="checkbox"/> 347 V</td> <td><input checked="" type="checkbox"/> Battery Pack</td> </tr> <tr> <td><input checked="" type="checkbox"/> 0-10 V Dim</td> <td><input checked="" type="checkbox"/> Lutron</td> <td><input checked="" type="checkbox"/> eldoLED</td> </tr> </table> <p><input checked="" type="checkbox"/> Canopy Integrated Enlighted Sensor</p> <p><input checked="" type="checkbox"/> Remote Enlighted Sensor</p>	<input checked="" type="checkbox"/> 120-277 V	<input checked="" type="checkbox"/> 347 V	<input checked="" type="checkbox"/> Battery Pack	<input checked="" type="checkbox"/> 0-10 V Dim	<input checked="" type="checkbox"/> Lutron	<input checked="" type="checkbox"/> eldoLED	<table border="0"> <tr> <td><input checked="" type="checkbox"/> 120-277 V</td> <td><input checked="" type="checkbox"/> 347 V</td> <td><input checked="" type="checkbox"/> Battery Pack</td> </tr> <tr> <td><input checked="" type="checkbox"/> 0-10 V Dim</td> <td><input checked="" type="checkbox"/> Lutron</td> <td><input checked="" type="checkbox"/> eldoLED</td> </tr> </table> <p><input checked="" type="checkbox"/> Canopy Integrated Enlighted Sensor</p> <p><input checked="" type="checkbox"/> Remote Enlighted Sensor</p>	<input checked="" type="checkbox"/> 120-277 V	<input checked="" type="checkbox"/> 347 V	<input checked="" type="checkbox"/> Battery Pack	<input checked="" type="checkbox"/> 0-10 V Dim	<input checked="" type="checkbox"/> Lutron	<input checked="" type="checkbox"/> eldoLED
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Enlighted Sensor Option: (D) DRYWALL	Enlighted Sensor Option: (G) GRID	Enlighted Sensor Option: (S) STRUCTURE	Enlighted Sensor Option: (R) REMOTE
<p>For Enlighted Sensors in drywall ceilings, use REMOTE (R) mounting enclosure options.</p>	<p>Canopy Integrated Sensor</p> <p>5.5" round canopy preinstalled with Enlighted wireless sensor and large driver enclosure with Enlighted control unit. Plenum rated cable whips and RJ45 plugs enable quick field connection.</p> <p>RJ45 Coupler</p> <p>Horizontal or Vertical</p>	<p>Canopy Integrated Sensor</p> <p>Large driver enclosure with Enlighted control unit and enclosure shroud preinstalled with Enlighted wireless sensor. Hidden cable whips and RJ45 plugs enable quick field connection.</p> <p>Power Feed Canopy</p>	<p>Canopy Integrated Sensor</p> <p>5.5" round canopy preinstalled with Enlighted wireless sensor for a 4" octagon J-box (by others). Remote mounted, large driver enclosure with Enlighted control unit. Plenum rated cable whips and RJ45 plugs enable quick sensor field connection.</p> <p>Power Feed</p>
	<p>Remote Sensor</p> <p>Enlighted wireless sensor supplied with tile mount collar for remote sensor placement in a ceiling tile. Plenum rated cable whips and RJ45 plugs enable quick field connection.</p> <p>RJ45 Coupler</p> <p>Tile</p> <p>Horizontal or Vertical</p>	<p>Remote Sensor</p> <p>Enlighted wireless sensor supplied with tile mount collar for remote sensor placement to a horizontal surface or J-box lid (by others). Plenum rated cable whips and RJ45 plugs enable quick sensor field connection.</p> <p>J-box + Lid by others</p> <p>Power Feed Canopy</p>	<p>Remote Sensor</p> <p>Enlighted wireless sensor supplied with tile mount collar for remote sensor placement to a horizontal surface or J-box lid (by others). Plenum rated cable whips and RJ45 plugs enable quick sensor field connection.</p> <p>J-box + Lid by others</p> <p>Power Feed</p>



SPECIFICATION DATA

PROFILE MINI 20 UP | 80 DN LED (PM1xD)

NOTES

CONSTRUCTION

- Anodized, extruded + machined architectural grade aluminum
- Precision machined aluminum joints and endcaps are factory preinstalled for seamless fit
- Stainless steel fasteners
- 0.04" (1.0 mm) stainless steel aircraft cable suspensions
- Clear anodized surface finish or powdercoated in white, metallic silver or black, canopies in white as standard

OPTICAL

- Anidolic optical structures with linear light extraction elements
- Precision molded high transmittance clear acrylic lenses
- Long life mid-flux LED system designed for typical TM21 lumen maintenance \geq L90 @ 60,000 h
- Available in 3000 K, 3500 K, 4000 K with CRI \geq 80 and R9 \geq 0, or CRI \geq 90 and R9 \geq 50, all with color accurate binning \leq 2 SDCM

ELECTRICAL

- No electrical connections are required at fixture level for installation; low voltage power cords factory preinstalled
- High efficiency multivolt drivers, integrated with suspension and mounting components, for 50-60 Hz 120-277V or 347V
- Power Factor $>$ 0.90
- Total Harmonic Distortion $<$ 20%
- Dim level: Standard 3%, optional 1% or 0.1%
- Optional Battery Pack delivers 10 W Class 2 rated output for 90 min. Use 12 W input energy to estimate emergency flux, typically 1150-1750 lm (@ 100-150 lm/W).
- Optional GTD (Generator Transfer Switch), 120-277V, disables 0-10 V control during emergency for full light output
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

WIRE GAUGE

- Recommended low voltage wire gauge (AWG) for minimal losses over distance when REMOTE mounting:
 - 30 ft | 18 ga
 - 50 ft | 14 ga
 - 80 ft | 12 ga

ENVIRONMENTAL & CARE

- Designed for use in dry or damp indoor locations with ambient temperatures of 0-30° C (32-86° F)
- Not suitable for natatorium environments, e.g. swimming pools, hot tubs and saunas. The luminaire may be damaged by chemicals such as chlorine, solvents, ammonia, alcohol or sulfur in the area of operation or in cleaning products. Damage from contaminants is not covered under warranty.
- Clean only by wiping with a slightly water-damp, soft, clean cloth.

WEIGHT

- Fixture only: ~ 1.3 lb/ft (1.9 kg/m)

WARRANTY

- 5 year limited warranty on all components and workmanship

INDEPENDENT TESTING

- IESNA LM79
- IESNA LM80 (LED @ 10,000 h)

APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum

Protected by one or more US patents: 10215344, 10830415, 9733411, 9823406, D731700, D780971, D891670, D890403, D877953, D877954, D877955, 10077891; EU patents: 002263020-0001, 002263020-0002, 002263020-0003.

CONTROLS & SENSORS

Fluxwerx products are designed for simple integration with a wide range of sensors, lighting controls and building management systems. Many projects incorporate occupancy sensing, daylight harvesting, individual or central adjustment of light levels and luminaire or space monitoring in order to save energy, reduce costs and maximize occupant comfort. Fluxwerx offers a number of standard driver and controller options to support various wired and wireless network protocols. In our suspended products, the packaging of drivers and controls in the mounting system maintains clean aesthetics, simplifies installation & maintenance, increases flexibility and supports future system upgrades.

enlighted™

Enlighted wireless, networked smart sensor integrates occupancy sensing, daylight harvesting, energy usage, temperature and light level control. Option: Canopy-integrated or remote Enlighted sensor (SE1 or RE1) Model: SU-SE-CL

nLIGHT

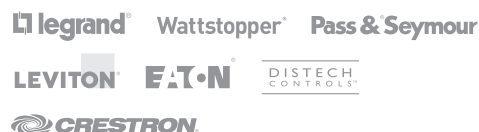
nLight wired, 2-way network supports luminaire light level control as well as occupancy and daylight sensors. Option: Acuity nLight Converter (VNI) Model: nPS-80-EZ or nPS-80-EZ-ER

eldoLED™

EldoLED drivers support common wired protocols, 0-10 V and DALI. They also provide access to finer dimming control, dynamic white and Bluetooth low-energy (BLE) wireless. Options: ECO 1% (E1), SOLO 0.1% (E2)

LUTRON®

Lutron EcoSystem network protocol enables on/off, dimming, occupancy sensing and daylight harvesting. Option: EcoSystem Hi Lume 1% (L1)





TYPE

SPECIFICATION DATA
PROFILE MINI 20 UP | 80 DN LED (PM1xD)

FAMILY PERFORMANCE

80 CRI

COLOR	4000 K	3500 K	3000 K
Color Rendering (CRI)	83	83	83
Red Index (R9)	6	6	6
Color Matching (SDCM)	< 2		

90 CRI

COLOR	4000 K	3500 K	3000 K
Color Rendering (CRI)	92	92	92
Red Index (R9)	63	63	59
Color Matching (SDCM)	< 2		

LUMEN MAINTENANCE	Z 14 W	A 18 W	B 22 W	C 28 W
L90 per TM-21 (hr)	> 60,000			
L70 Estimate (hr)	> 200,000			

BATTERY OUTPUT - 80 CRI	4000 K	3500 K	3000 K
10 W BP Light (Est. lm)	1470	1430	1390

90 CRI OUTPUT	4000 K	3500 K	3000 K
90 CRI Multiplier	0.84	0.84	0.84

For Light (lm), Intensity (Cd) or Luminance (Cd/m²) in 90 CRI, multiply 80 CRI values by the 90 CRI Multiplier for chosen CCT.

VERSION PERFORMANCE

80 CRI, 20% Up | 80% Down

CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm/4ft)	POWER (W/4ft)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	
PM1xDx40 4000 K	Z	14 W	1697	13.82	122.8	384	7,175	
	A	18 W	2107	17.23	122.3	477	8,911	
	B	22 W	2662	22.24	119.7	603	11,257	
	C	28 W	3327	28.21	118.0	753	14,072	
PM1xDx35 3500 K	Z	14 W	1653	13.82	119.6	374	6,991	
	A	18 W	2052	17.23	119.1	465	8,680	
	B	22 W	2593	22.24	116.6	587	10,968	
	C	28 W	3242	28.21	114.9	734	13,709	
PM1xDx30 3000 K	Z	14 W	1609	13.82	116.4	364	6,804	
	A	18 W	1998	17.23	116.0	452	8,449	
	B	22 W	2524	22.24	113.5	572	10,676	
	C	28 W	3156	28.21	111.9	714	13,347	

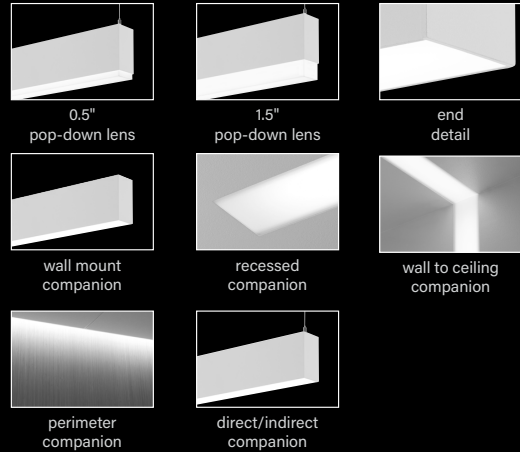
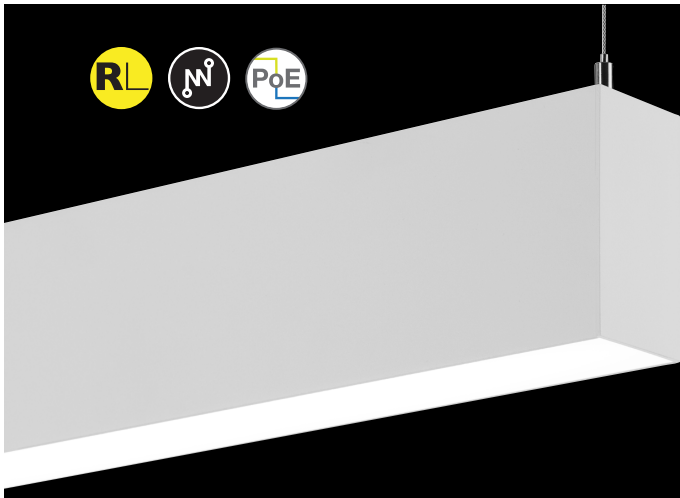


Photometry Reports: xxx (28 W)

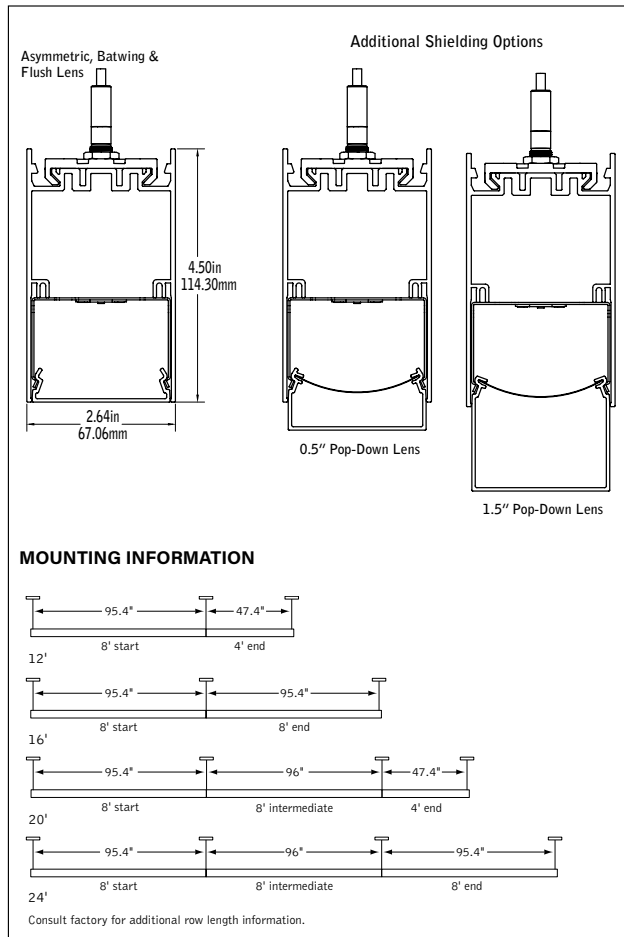
Integrating Sphere and Photometric results at 3000K, 3500K and 4000K scaled from PM1xD 38W (D) and PF1xB results from an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Candelperformance scaled per total lumens of Integrating Sphere results.

Seem[®] 2

LED



DIMENSIONAL DATA



FEATURES

Narrow 2.5" linear direct LED with Asymmetric, Batwing, Flush, 0.5" or 1.5" Pop-Down lens.

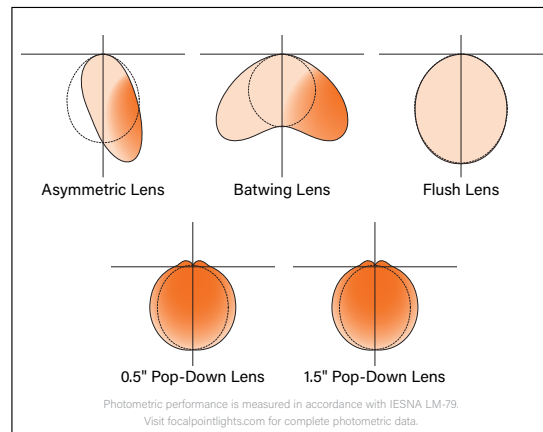
Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.

Individual units and continuous runs in 1' increments.

Connected Solutions: Integrates with wired and wireless building lighting control systems.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

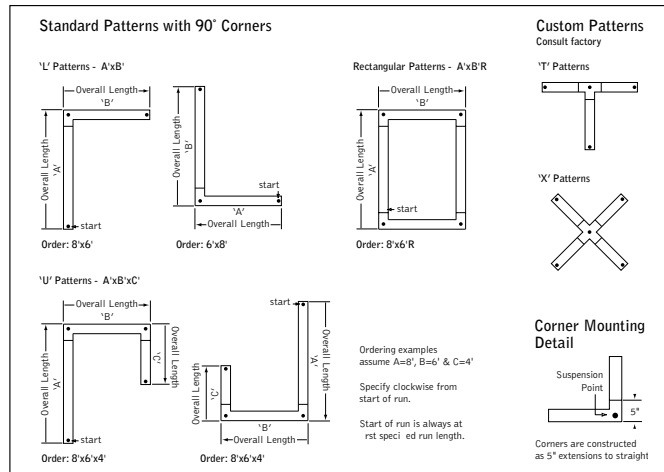
DISTRIBUTIONS



fixture:

project:

MOUNTING INFORMATION



SPECIFICATIONS

LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 2700K, 3000K, 3500K or 4000K with CRI>80 or CRI>90, 3 SDCM. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. Cast aluminum end caps. 8' unit weight: 30 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in matte white powder coat. Extruded acrylic lens with satin finish, up to 8' continuous.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Power factor > .9. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs require an independent PoE node and power feed for each luminaire section.

Emergency

Emergency Battery output - 10 watts for 90 minutes. Maximum mounting height: 20 ft. Emergency Circuit with Connected Solutions (DLM1, LMFS1, LMFS2, NLT1, ENL1, CLM1, NXE1, WLXP) shipped standard with leads to connect UL924 compliant device, by others.

Labels

UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only.

Finish

Polyester powder coat applied over a multi-stage pre-treatment. Canopy and cord white as standard.

Lumen Maintenance

Reported: L70 at >61,000 hours Calculated: L70 at 385,000 hours
 L90 at >61,000 hours L90 at 103,000 hours

Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

4' PERFORMANCE CHART






See page 3.

QS 10 DAY Options in orange qualify for the Quickship program. 1000' total. Refer to Quickship Guide for complete details including EM/EC options.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

ORDERING	FSM2LS
Luminaire Series	FSM2LS
Seem 2 LED	FSM2LS
Shielding	_____
Asymmetric Lens	AS
Batwing Lens	BW
Flush Satin Lens	FL
0.5" Pop-Down Lens	PD05
1.5" Pop-Down Lens (Individual units only)	PD15
Lumen Output	_____
125 Lumens per foot (LD1 & L11 only, 4' minimum)	125LF
250 Lumens per foot (3' minimum with LH1)	250LF
375 Lumens per foot	375LF
500 Lumens per foot	500LF
625 Lumens per foot	625LF
750 Lumens per foot	750LF
875 Lumens per foot	875LF
1000 Lumens per foot	1000LF
Color Temperature	_____
2700K, 80+ CRI or 90+ CRI	27K or 927K
3000K, 80+ CRI or 90+ CRI	30K or 930K
3500K, 80+ CRI or 90+ CRI	35K or 935K
4000K, 80+ CRI or 90+ CRI	40K or 940K
Circuits & Zones	_____
1 Circuit, non-emergency	1C
Consult Ordering Guide on page 5 for multiple circuiting and zoning options	_C_Z_DL
Voltage	_____
120/277 UNV Volt	UNV
347V (LD1 & L11 only)	347
Low voltage	LV
Control System & Dimming Level	_____
0-10V - 10% Dimming	LD1
0-10V - 1% Dimming	L11
Low Voltage, PoE compatible (No driver. Not available with EM or EC. LV Voltage only.)	LVN
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1
DALI 1% Dimming	D11
(For 750LF, 875LF & 1000LF consult factory.)	
Wattstopper DLM - 1% Dimming**	DLM1
Wattstopper Fixture Sensor ^{††} Low Density - 1% Dimming	LMFS1
See sensor layout guide	
Wattstopper Fixture Sensor ^{††} High Density - 1% Dimming	LMFS2
See sensor layout guide	
Acuity nLight - 1% Dimming**	NLT1
Enlighted Smart Sensor - 1% Dimming ^{††}	ENL1
See sensor layout guide	
Encelium CLM Connected Lighting Module - 1% Dimming	CLM1
Current NX Enabled - 1% Dimming ^{††}	NXE1
WaveLinX Pro - 1% Dimming ^{††}	WLXP
See sensor layout guide	
** (3' minimum length, with ECD/EM - 7' minimum.) ^{††} (Not available with pop-down lenses.)	
Mounting	_____
24" Cable Suspension	C24_
48" Cable Suspension	C48_
96" Cable Suspension	C96_
(Specify canopy color White (WH), Black (BK) or Titanium Silver (TS). Example: C24WH)	
J - for 2" canopies at non-feed locations. CS - for sloped ceiling applications)	
Surface Mount	SM
(Not available with CLM1, DLM1 NLT1 or NXE1)	
Factory Options	_____
(See Ordering Guide on page 5 for ordering details for DC, EC, EM & ECD.)	
Black Cord	BKCD
Daylight Circuit	_DC
Emergency Circuit	_EC
Emergency Battery Pack [†]	_EM
Emergency Control Device [†]	_ECD
[†] (3' minimum, 120/277 Volt only.)	
Finish	_____
Black	BK
Titanium Silver	TS
Matte White Housing	WH
Luminaire Length	_____
Specify luminaire/row length in 1' increments (2' minimum. Leave blank for patterns. Smaller increments available, consult factory.)	X'
Pattern Options	_____
(2' minimum length)	
'L' pattern	A' x B'
'U' pattern	A' x B' x C'
Rectangular pattern	A' x B' R
(Consult factory for other pattern options)	

4' PERFORMANCE CHART

Lumen Output	Delivered Lumens	Tested System Watts	Lumens Per Watt (LPW)				
			 AS	 BW	 FL	 PD05	 PD15
125LF	500	6	95	91	88	81	82
250LF	1000	10	113	108	103	94	98
375LF	1500	14	120	116	105	101	100
500LF	2000	19	123	118	107	103	102
625LF	2500	24	121	116	105	101	101
750LF	3000	28	122	117	108	101	100
875LF	3500	34	120	115	104	100	100
1000LF	4000	39	119	114	105	101	100

Based on 3500K, 4' length. Lumen multipliers:
 Delivered lumens may vary +/- 5%. Actual wattage may vary +/- 5%



Seem[®] 2

LED

Focal Point provides flexibility in meeting the needs of each project by integrating with several building lighting control systems. A variety of sensors, drivers and other components can be specified that allow the luminaires to communicate with wired and wireless networks. All zoning can be digitally reconfigured through the application software. Daylight harvesting, occupancy sensing, integration with HVAC systems, and individual controls enable the monitoring and modulating of light levels and temperature in order to save energy, reduce costs and maximize occupants' comfort. All Connected Solutions luminaires require a compatible building control system.†

Connected Solution	Ordering Code	Model #**	Protocol	Compatible Networks*	Occupancy & Daylight	Temperature Reporting	Communication to Luminaire	Drivers	
 legrand [®] WATTSTOPPER [®]		DLM1	LMFC-011	DLM	DLM	Enabled	No	Wired 	Advance by Signify , Optotronic by eldoLED
		LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Enabled	No	Wireless	Advance by Signify
	LMFSD	LMFS-601	Optotronic by eldoLED (Dexal)						
		WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Enabled	No	Wireless (WaveLinx Pro Wireless Area Controller)	Advance by Signify
		D11	Specified Driver	DALI	Crestron Züm Wireless & SpaceBuilder	Enabled	No	Wired	eldoLED ECOdrive
		L11		0-10V					Advance by Signify
		CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled	No	Wireless	Optotronic by eldoLED Advance by Signify
		ENL1	SU-5E-IOT	Enlighted RF	Enlighted	Integrated	Yes	Wireless	Advance by Signify
		LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	No	Wired	Lutron Hi-Lume
		NLT1	nEPS-60-IO	nLight	nLight	Enabled	No	Wired 	eldoLED ECOdrive , eldoLED SOLOdrive
		NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled	No	Wired 	Optotronic by eldoLED

*Not all compatible networks may be listed. **For performance data and additional control system details please visit the connected solutions manufacturer websites. Primary drivers are listed in **bold**. To specify a particular driver please consult factory. †Controls systems supplied by others.

Ordering Guide



Direct Only Linear Circuitry, Zones & Factory Options

HOW TO USE THIS GUIDE

Fill out the worksheet on the following page to specify your requirements for circuitry, zones, and factory options.

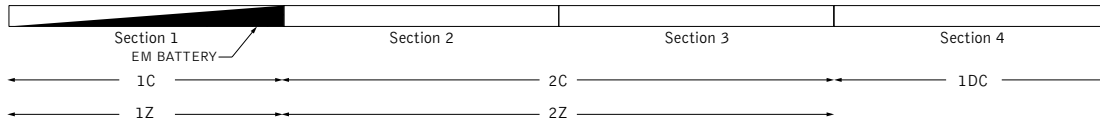
Refer to the run chart for standard run configurations, consult factory for custom configurations.

Complete the Totals / Ordering Codes at the bottom of the worksheet and add to your ordering logic on the cut sheet.

Submit the worksheet along with your order.

TOTAL RUN LENGTH: 32ft		JOB NAME:			FIXTURE TYPE:			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	SEPARATE ELECTRICAL FEEDS			EM
		DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD				
1	8	1C	1Z					1EM
2	8	2C	2Z					
3	8	2C	2Z					
4	8				1DC			
Totals / Ordering Codes		2C	2Z		1DC			1EM

ORDERING: FSM4L-FL-625LF-35K- **2C2Z** -UNV-LD1-G2- **1DC-1EM** -WH-32ft



KEY	
C = Switching Circuit Switched Hot / Shared Neutral	DC = Daylight Circuit Switched Hot / Separate Neutral
Z = Dimming Zone Dimming Control Wires	EC = Emergency Circuit Switched Hot / Separate Neutral
DL = Daylight Zone Daylight Dimming Control Wires	EM = Emergency Battery Unswitched Hot / Shared Neutral
	ECD = Emergency Control Device Unswitched Hot / Separate Neutral

- DEFAULTS**
- Zones and Factory Options illuminate entire sections from 4' to 8' in length.
 - One shared or isolated circuit and zone required per housing section.
 - Limit of one EM or ECD per housing section.
 - Additional electrical feed required for applications greater than three shared circuits and zones.
 - Each DC, EC and ECD require an additional electrical feed.
 - ECD not available in the same housing section as EC.
 - Longer lead times and additional pricing may apply for custom run configurations.

- CUSTOM LENGTHS**
- If partial illumination of emergency or daylight section is required, indicate in ordering guide and add "partial illumination" in Order Notes. Drawing required.
 - Engineering validation required, longer lead times may apply.

Ordering Guide Worksheet

Linear Circuitry, Zones & Factory Options



TOTAL RUN LENGTH: _____		JOB NAME: _____			FIXTURE TYPE: _____			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	EM
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Totals / Ordering Codes								

WORKSHEET

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

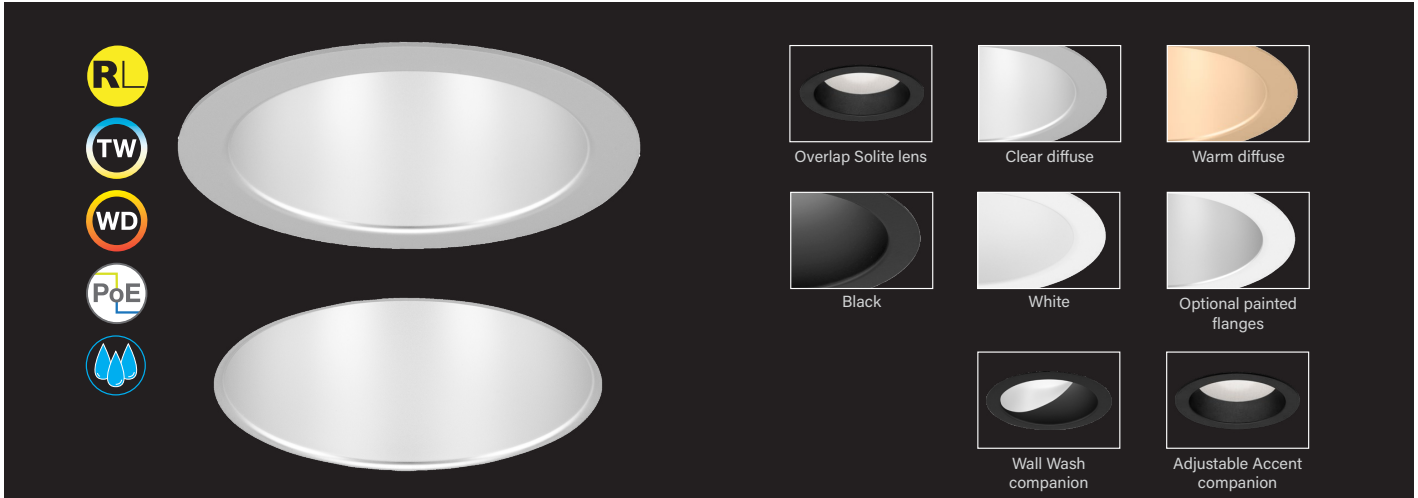
RUN CHART

Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths
9	5 + 4	21	8 + 8 + 5	33	8 + 8 + 8 + 5 + 4	45	8 + 8 + 8 + 8 + 8 + 5
10	6 + 4	22	8 + 8 + 6	34	8 + 8 + 8 + 6 + 4	46	8 + 8 + 8 + 8 + 8 + 6
11	7 + 4	23	8 + 8 + 7	35	8 + 8 + 8 + 7 + 4	47	8 + 8 + 8 + 8 + 8 + 7
12	8 + 4	24	8 + 8 + 8	36	8 + 8 + 8 + 8 + 4	48	8 + 8 + 8 + 8 + 8 + 8
13	8 + 5	25	8 + 8 + 5 + 4	37	8 + 8 + 8 + 8 + 5		
14	8 + 6	26	8 + 8 + 6 + 4	38	8 + 8 + 8 + 8 + 6		
15	8 + 7	27	8 + 8 + 7 + 4	39	8 + 8 + 8 + 8 + 7		
16	8 + 8	28	8 + 8 + 8 + 4	40	8 + 8 + 8 + 8 + 8		
17	8 + 5 + 4	29	8 + 8 + 8 + 5	41	8 + 8 + 8 + 8 + 5 + 4		
18	8 + 6 + 4	30	8 + 8 + 8 + 6	42	8 + 8 + 8 + 8 + 6 + 4		
19	8 + 7 + 4	31	8 + 8 + 8 + 7	43	8 + 8 + 8 + 8 + 7 + 4		
20	8 + 8 + 4	32	8 + 8 + 8 + 8	44	8 + 8 + 8 + 8 + 8 + 4		

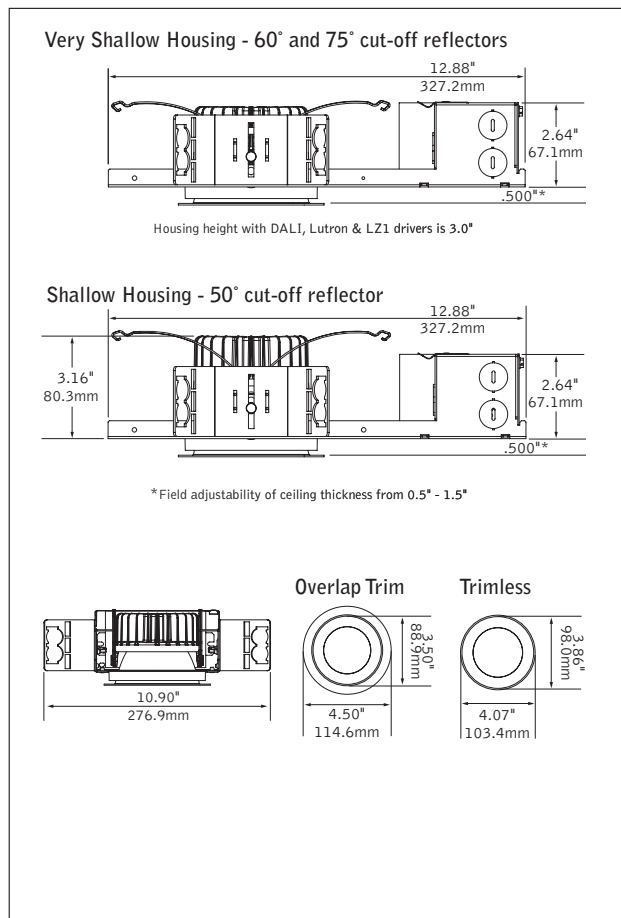
Standard run configurations, consult factory for custom configurations.

ID+ 3.5"

OVERLAP & TRIMLESS LED DOWNLIGHTS



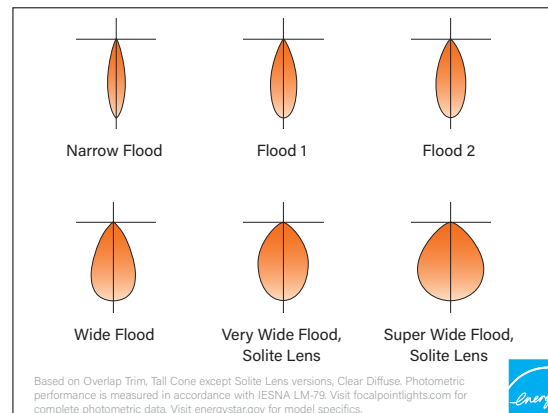
DIMENSIONAL DATA



FEATURES

- Less than 2.64" low profile housing available.
- 50°, 60° and 75° cut-off reflector options available.
- 25° to 90° beam spreads support accent lighting, task lighting and general illumination.
- Solite lens with die-cast trim allows for a coordinated aesthetic with ID+ 3.5" Adjustable Accent and delivers 70° or 90° beam spread options.
- Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.
- Warm Dim: Lighting that enhances spaces with a warm glow, reminiscent of incandescent or halogen light sources.
- PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

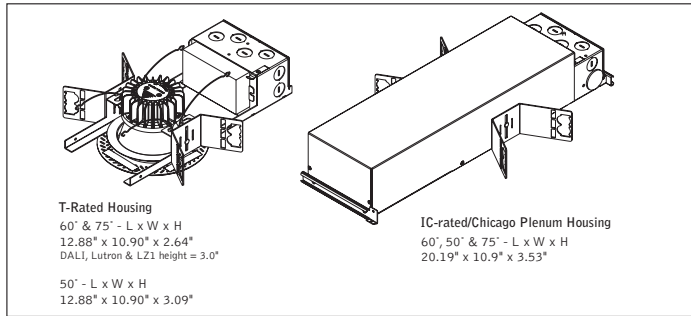
DISTRIBUTIONS



TYPE: R1-Page 2

fixture: project:

STANDARD WHITE HOUSING DETAILS



3.5" ROUND DOWNLIGHT OPTICS

Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread Spacing Criteria						SWFL
			NFL	FL1	FL2	WFL	VWFL	SWFL	
DNT	50°	Overlap	25° 0.42	37° 0.62	44° 0.72	59° 0.89	67° 1.02	-	-
		Trimless	26° 0.54	37° 0.62	44° 0.76	58° 0.87	-	-	-
DNS	60°	Overlap	24° 0.42	34° 0.67	47° 0.81	54° 0.87	65° 0.99	-	-
		Trimless	25° 0.42	37° 0.63	45° 0.75	56° 0.92	-	-	-
DSS	75°	Overlap	-	-	-	-	73° 1.07	91° 1.26	-
		Trimless	-	-	-	-	74° 1.07	91° 1.24	-

3.5" ROUND DOWNLIGHT PERFORMANCE TABLES

Based on Overlap, Tall Cone, Wide Flood, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

STANDARD WHITE				
CCT	Lumen Output	Delivered Lumens	System Watts	LPW
3500K, 80CRI	700L	721	8	90
	900L	919	10	94
	1100L	1112	12	96
	1300L	1298	16	83
	1500L	1484	17	85
	1700L	1682	19	86
	1900L	1909	22	87
	2100L	2144	25	86

Compton college student housing

STANDARD WHITE HOUSING ORDERING

Housing Series	ID+ 3.5" Round	FLC3D
Trim Type		
Round Overlap	RO	
Round Trimless	RT	
Color Options		
Standard White, 80 & 90 CRI	SW	
High 97 CRI	HC	
Lumen Output		
700 Lumen (Not available with Lutron or LFP)	700L	
900 Lumen (Not available with LFP)	900L	
1100 Lumen	1100L	
1300 Lumen	1300L	
1500 Lumen	1500L	
1700 Lumen	1700L	
1900 Lumen	1900L	
2100 Lumen	2100L	
Voltage		
120/277 Volt	UNV	
<small>(IC-rated housing: SW - 1700lm max, HC - 1500lm max. T-rated & TW housings: SW - 1100lm max, HC - 900lm max.)</small>		
120V	120	
277V	277	
Low Voltage		
120V	LV	
<small>(IC-rated housing: SW - 1700lm max, HC - 1500lm max. T-rated & TW housings: SW - 1100lm max, HC - 900lm max.)</small>		
Control System & Dimming Level		
0-10V <1% Dimming	LZ1	
0-10V - 1% Dimming	L11	
0-10V - 10% Dimming	LD1	
Low Voltage, PoE Compatible		
<small>(No driver. Not available with EMR, LV voltage only.)</small>		
Forward Phase (120V only)	LFP	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
Lutron Hi-Lume - Forward Phase (120V) - 1% Dimming	LTE	
DALI <1% Dimming	DZ1	
DALI - 1% Dimming	D11	
Housing Type		
IC-Rated / Airtight	IC	
<small>(SW - 1700lm max, HC - 1500lm max. Not available with LTE.)</small>		
Thermally Protected, Non-IC / Airtight	T	
Thermally Protected, Non-IC Wood	TW	
<small>(Trimless only. Wood kit required.)</small>		
Factory Options		
Bar Hangers	BH	
Chicago Plenum	CP	
Emergency Battery - Remote test switch	EMR	
<small>(Overlap trim only. Not available with CP or IC-rated housing. Above ceiling access required.)</small>		
Outdoor Rated	OD	
<small>(LD1 driver and T-rated housing only. Not available with CP or EMR. See dimming performance table on page 5.)</small>		
TRIM & LED MODULE		
Aperture		LC3
3.5" Round Reflector	LC3	
Trim Type		
Round Overlap	RO	
Round Die-Cast Overlap (DSS only)	RDO	
Round Trimless	RT	
Round Die-Cast Trimless (DSS only)	RDT	
Color Options		
Standard White, 80 & 90 CRI	SW	
High 97 CRI	HC	
Lumen Output		
700 Lumen (Not available with Lutron or LFP)	700L	
900 Lumen (Not available with LFP)	900L	
1100 Lumen	1100L	
1300 Lumen	1300L	
1500 Lumen	1500L	
1700 Lumen	1700L	
1900 Lumen	1900L	
2100 Lumen	2100L	
Color Temperature		
<small>(Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K; 2700K, 80 CRI = 27K.)</small>		
2700K, 80/90/97+ CRI	27K	
3000K, 80/90/97+ CRI	30K	
3500K, 80/90/97+ CRI	35K	
4000K, 80/90/97+ CRI	40K	
Optic		
Tall Cone with 50° cut-off	DNT	
Short Cone with 60° cut-off	DNS	
Super Short Cone with Solite Lens 75° cut-off	DSS	
<small>(Die-cast trims only. VWFL or SWFL only.)</small>		
Distribution		
Narrow Flood	NFL	
Flood 1	FL1	
Flood 2	FL2	
Wide Flood	WFL	
Very Wide Flood (Overlap all optics, Trimless DSS only)	VWFL	
Super Wide Flood (DSS only)	SWFL	
Finish		
Clear Diffuse	CD	
Warm Diffuse	WD	
Black	BK	
White	WH	
Optional Flange Finish		
<small>(Overlap CD & WD finish only. For matching finishes leave blank.)</small>		
Black Painted	BP	
White Painted	WP	
ACCESSORIES		
Trimless Wood Ceiling Installation Kit	LC3- WOOD-KIT	
<small>(One kit recommended per 10 downlights.)</small>		

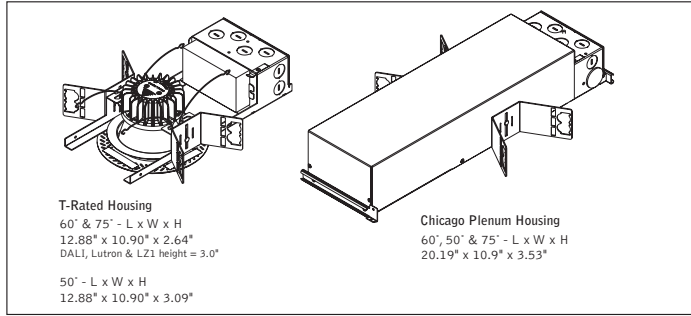
QS QS Options in red and orange qualify for 2-day and 5-day Quickship respectively, up to 200 pieces. If red and orange options make an ordering string, 5-day Quickship applies. See Quickship Guide for more details.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

TYPE: R1-Page 3

fixture: project:

WARM DIM HOUSING DETAILS



3.5" ROUND DOWNLIGHT OPTICS

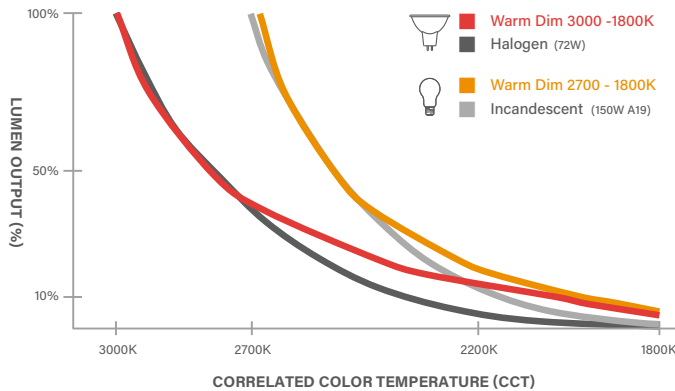
Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread Spacing Criteria						
			NFL	FL1	FL2	WFL	VWFL	SWFL	
DNT	50°	Overlap	25° 0.42	37° 0.62	44° 0.72	59° 0.89	67° 1.02	-	-
		Trimless	26° 0.54	37° 0.62	44° 0.76	58° 0.87	-	-	-
DNS	60°	Overlap	24° 0.42	34° 0.67	47° 0.81	54° 0.87	65° 0.99	-	-
		Trimless	25° 0.42	37° 0.63	45° 0.75	56° 0.92	-	-	-
DSS	75°	Overlap	-	-	-	-	73° 1.07	91° 1.26	-
		Trimless	-	-	-	-	74° 1.07	91° 1.24	-

3.5" ROUND DOWNLIGHT PERFORMANCE TABLE

Based on Overlap, Tall Cone, Wide Flood, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

WD WARM DIM				
CCT Range	Lumen Output	Delivered Lumens	System Watts	LPW
2700 - 1800K	1500L	1524	25	61
3000 - 1800K	1500L	1555	25	61

The 3000K to 1800K and 2700K to 1800K ranges mimic the black body curves of halogen and incandescent light sources, respectively.



Compton college student housing



WARM DIM HOUSING ORDERING

Housing Series	FLC3D
ID+ 3.5" Round	
Trim Type	
Round Overlap	RO
Round Trimless	RT
Color Options	WDM
Warm Dim	
Lumen Output	1500L
1500 Lumen	
Voltage	
120V	
277V	

Control System & Dimming Level

0-10V <1% Dimming	LZ1
0-10V - 1% Dimming	L11
0-10V - 10% Dimming	LD1
Forward Phase (120V only)	LFP
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1
Lutron Hi-Lume - Forward Phase (120V) - 1% Dimming	LTE
DALI <1% Dimming	DZ1
DALI - 1% Dimming	D11

Housing Type

Thermally Protected, Non-IC / Airtight	T
Thermally Protected, Non-IC Wood (Trimless only. Wood kit required)	TW

Factory Options

Bar Hangers	BH
Chicago Plenum	CP
Outdoor Rated	OD

(LD1 driver and T-rated housing only. Not available with CP. See dimming performance table on page 5.)

TRIM & LED MODULE

Aperture

3.5" Round Reflector	LC3
----------------------	-----

Trim Type

Round Overlap	RO
Round Die-Cast Overlap (DSS only)	RDO
Round Trimless	RT
Round Die-Cast Trimless (DSS only)	RDT

Color Options

Warm Dim	WDM
----------	-----

Lumen Output

1500 Lumen	1500L
------------	-------

Color Temperature

Warm Dim: 2700-1800K, 90+ CRI	92718W
Warm Dim: 3000-1800K, 90+ CRI	93018W

Optic

Tall Cone with 50° cut-off	DNT
Short Cone with 60° cut-off	DNS
Super Short Cone with Solite Lens 75° cut-off (Die-cast trims only)	DSS

Distribution

Narrow Flood	NFL
Flood 1	FL1
Flood 2	FL2
Wide Flood	WFL
Very Wide Flood (Overlap all optics. Trimless DSS only)	VWFL
Super Wide Flood (DSS only)	SWFL

Finish

Clear Diffuse	CD
Warm Diffuse	WD
Black	BK
White	WH

Optional Flange Finish

(Overlap CD & WD finish only) (For matching finishes leave blank)	
Black Painted	BP
White Painted	WP

ACCESSORIES

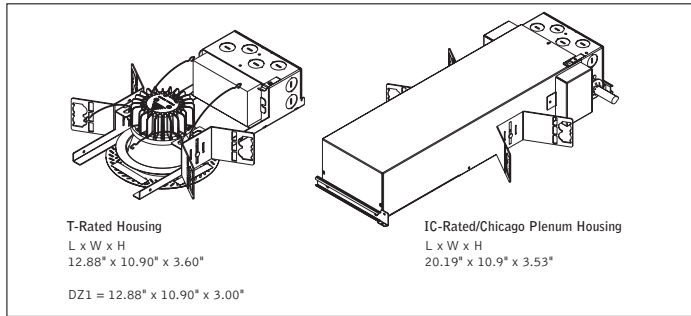
Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights)	LC3-WOOD-KIT
--	--------------

TYPE: R1-Page 4

fixture:

project:

TUNABLE WHITE HOUSING DETAILS



3.5" ROUND DOWNLIGHT OPTICS

Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread Spacing Criteria					
			NFL	FL1	FL2	WFL	VWFL	SWFL
DNT	50°	Overlap	25° 0.42	37° 0.62	44° 0.72	59° 0.89	67° 1.02	
		Trimless	26° 0.54	37° 0.62	44° 0.76	58° 0.87	-	-
DNS	60°	Overlap	24° 0.42	34° 0.67	47° 0.81	54° 0.87	65° 0.99	
		Trimless	25° 0.42	37° 0.63	45° 0.75	56° 0.92	-	-
DSS	75°	Overlap	-	-	-	-	73° 1.07	91° 1.26
		Trimless	-	-	-	-	74° 1.07	91° 1.24

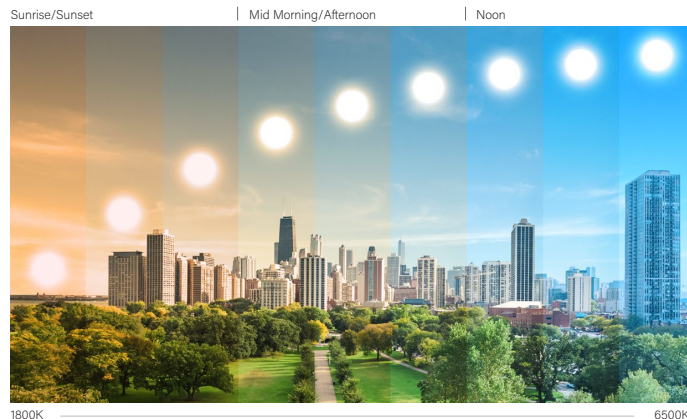
3.5" ROUND DOWNLIGHT PERFORMANCE TABLES

Based on Overlap, Tall Cone, Wide Flood, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

TUNABLE WHITE				
CCT	Lumen Output	Delivered Lumens	System Watts	LPW
	700L	700	13	53
2700K (2700-5000K & 2700-6500K)	900L	906	17	54
	1100L	1095	20	54
	1300L	1306	25	53
1800K (1800-4000K)	700L	701	20	36
	900L	898	25	37

The Comfort (1800K-4000K), Preference (2700K-5000K), and Activity (2700K-6500K) ranges give specifiers the tools to enhance spaces, mood, and alertness.

DAYLIGHT RANGE



Focal Point LLC reserves the right to change specifications for product improvement without notification.

Compton college student housing



TUNABLE WHITE HOUSING ORDERING

Housing Series ID+ 3.5" Round **FLC3D**

Trim Type
Round Overlap **RO**
Round Trimless **RT**

Color Options
Tunable White: 1800-4000K (900L max. T-rated housings only) **1840T**
Tunable White: 2700-5000K **2750T**
Tunable White: 2700-6500K **2765T**

Lumen Output
700 Lumen **700L**
900 Lumen **900L**
1100 Lumen **1100L**
1300 Lumen **1300L**

Voltage
120/277 Volt **UNV**
(2705T & 2765T only. IC housing only.)
120V **120**
277V **277**

Low Voltage
(2705T & 2765T only. IC housing only.)
LV

Control System & Dimming Level
0-10V <1% Dimming **LZ1**
Lutron T-Series <1% Dimming **LTZ**
DALI <1% Dimming **DZ1**
(Requires 2 addresses, one for light intensity & one for color tuning)

Low Voltage, PoE Compatible **LVN**
(No driver. Not available with EMR. LV voltage only.)

Housing Type
IC-Rated / Airtight **IC**
(700L only. 2750T or 2765T only.)
Thermally Protected, Non-IC / Airtight **T**
Thermally Protected, Non-IC Wood **TW**
(Trimless only. Wood kit required)

Factory Options
Bar Hangers **BH**
Chicago Plenum **CP**
(2750T & 2765T; 1100L max. 1840T; 700L only.)

Emergency Battery - Remote test switch **EMR**
(Overlap trim only. Not available with CP or IC-rated housing. Above ceiling access required.)

TRIM & LED MODULE Aperture **LC3**

3.5" Round Reflector **LC3**

Trim Type
Round Overlap **RO**
Round Die-Cast Overlap (DSS only) **RDO**
Round Trimless **RT**
Round Die-Cast Trimless (DSS only) **RDT**

Color Options
(Trim & housing must match)
Tunable White: 1800-4000K **1840T**
Tunable White: 2700-5000K **2750T**
Tunable White: 2700-6500K **2765T**

Lumen Output
(Trim & housing must match)
700 Lumen **700L**
900 Lumen **900L**
1100 Lumen **1100L**
1300 Lumen **1300L**

Color Temperature
Tunable White: 1800-4000K, 90+ CRI **91840T**
Tunable White: 2700-5000K, 90+ CRI **92750T**
Tunable White: 2700-6500K, 90+ CRI **92765T**

Optic
Tall Cone with 50° cut-off **DNT**
Short Cone with 60° cut-off **DNS**
Super Short Cone with Solite Lens 75° cut-off **DSS**
(Die-cast trims only)

Distribution
Narrow Flood **NFL**
Flood 1 **FL1**
Flood 2 **FL2**
Wide Flood **WFL**
Very Wide Flood **VWFL**
(Overlap all optics. Trimless DSS only.)
Super Wide Flood (DSS only) **SWFL**

Finish
Clear Diffuse **CD**
Warm Diffuse **WD**
Black **BK**
White **WH**

Optional Flange Finish
(Overlap CD & WD finish only) (For matching finishes leave blank)
Black Painted **BP**
White Painted **WP**

ACCESSORIES

Trimless Wood Ceiling Installation Kit **LC3-WOOD-KIT**
(One kit recommended per 10 downlights)

HOUSING SPECIFICATIONS

Construction

Thermally protected housing for new construction applications. Insulation to be kept 3" away from housing. Type IC inherently protected, suitable for direct contact with insulation. Restrictive airflow per ASTM-E283. Butterfly brackets allow mounting to 12" emt. Order bar hangers as an accessory. Die-cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) 1/2" pry outs. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 1.5" thickness. For thicker ceiling consult factory. Fixture will not exceed 5 lb. Trim is inherently airtight and may be used to obtain airtight rating when used with IC-rated or thermally protected, non-IC (T) housings.

Electrical

Choice of constant current dimming drivers. Power factor > .9 typical. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

Emergency

Above ceiling access required. Overlap trim only. Emergency output - 7W for 90 minutes. Maximum mounting height — Clear Diffuse & White: 22.5ft. Black & Warm Diffuse: 15.3ft.

Labels

UL and cUL Listed. Suitable for Dry, Damp or Wet Locations, indoor use only. Specify Outdoor rated (OD) for outdoor recessed ceiling applications.

Outdoor Rated (OD) Driver Dimming Performance table

Lumen Output	Minimum Dimming Level
700L	20%
900L	16%
1100L	13%
1300L	10%
1500L	10%
1700L	10%
1900L	10%
2100L	10%

Lumen Maintenance

Reported: L70 at >55,000 hours Calculated: L70 at 204,000 hours
 L90 at >55,000 hours L90 at 59,000 hours
 Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED System rated for operation in ambient environments up to 25°C. 5-year limited warranty. Fixture with Outdoor rated option must be installed in a covered ceiling and is warranted for operation in ambient environments between -20°C to +40°C.

TRIM & LED SPECIFICATIONS

LED System

Proprietary array incorporates premium LEDs on a robust platform. May be specified in 2700K, 3000K, 3500K or 4000K, Warm Dimming (2700K-1800K and 3000K-1800K), or Tunable White (1800K-4000K, 2700K-5000K and 2700K-6500K). CRI>80, >90 or 97. Color accuracy within 2 SDCM (Warm Dimming from 3-5 SDCM). 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. Aluminum heat sink provides appropriate thermal management.

Aesthetics

Parabolic reflector cone ensures glare free optics. DNT & DNS reflector is .050 spun aluminum. DSS reflector is die-cast aluminum. Trims are self-flanged. Non-painted trim matches reflector finish. Painted flange may also be specified.

Optics

50-degree, 60-degree or 75-degree cut-off to light source and its image.

Color Lumen Multipliers

CRI	STANDARD WHITE CCT				WARM DIM CCT RANGES		TUNABLE WHITE CCT RANGES		
	2700	3000	3500	4000	2700-1800K	3000-1800K	1800-4000K	2700-5000K	2700-6500K
80+	0.92	0.98	1.00	1.01	-	-	-	-	-
90+	0.79	0.83	0.82	0.84	1.02	1.04	1.00	1.00	1.00
97	0.67	0.72	0.73	0.76	-	-	-	-	-

Distribution Lumen Multipliers

Trim Type	Optic	Distribution	Multiplier		
Round Trimless [RT]	Tall Cone with 50° cut-off [DNT]	Narrow Flood [NFL]	1.12		
		Flood 1 [FL1]	0.92		
		Flood 2 [FL2]	1.06		
		Wide Flood [WFL]	0.92		
Round Overlap [RO]	Tall Cone with 50° cut-off [DNT]	Narrow Flood [NFL]	0.99		
		Flood 1 [FL1]	0.96		
		Flood 2 [FL2]	0.92		
		Wide Flood [WFL]	0.95		
Round Die-Cast Trimless [RDT]	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Very Wide Flood [VWFL]	1.00		
		Super Wide Flood [SWFL]	0.95		
		Round Die-Cast Overlap [RDO]	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Very Wide Flood [VWFL]	0.96
				Super Wide Flood [SWFL]	0.90

Color Lumen Multipliers

Trim Type	Optic	Color	Multiplier
Round Trimless [RT] and Round Overlap [RO]	Tall Cone with 50° cut-off [DNT]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.92
		White [WH]	1.09
		Black [BK]	0.46
Round Die-Cast Trimless [RDT] and Round Die-Cast Overlap [RDO]	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.97
		White [WH]	1.16
		Black [BK]	0.86

How To Use Lumen Multipliers

Formula:
 (Lumen Output Value) x (Color Temperature & CRI) x (Distribution) x (Color)

Example:
 LC3-RO-SW-1100L-935K-DNS-FL1-WH
 (1100) x (0.81) x (1.17) x (1.12) = 1167lm (estimated delivered lumens)

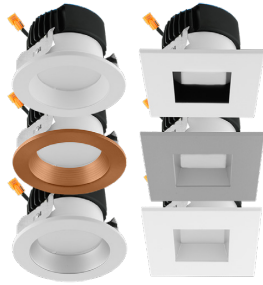
Multiplier charts are provided to aid with estimation of lumen levels across options. Apply multipliers against ordered Lumen Output to estimate Delivered Lumens. An estimation should make use of all tables through consecutive application of three multipliers. Refer to IES files for most accurate photometric information.



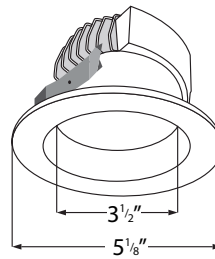
RFL4

4" LED Recessed Module

Project: _____
 Model: _____
 Location: _____
 Contact: _____



DIMENSIONS



USE OF PRODUCT

The Versatrim RFL4 Series is the ideal product for energy efficient lighting in existing, remodel, or new construction housings. This product may be used in hospitality, health care, commercial, retail, and residential applications. The Versatrim will reduce energy consumption, emits little heat, and reduces cooling loads for added costs savings. Approximately 75% in energy savings compared to incandescent light source.

VERSATRIM FEATURES

- Watts/Lumens: 10.5W/800lm, 12.5W/1100lm
- Color Temperature: 2700K, 3000K, 3500K, or 4000K
- Color Rendering Index: 93+ CRI Typical
- SDCM: 2 Step binning
- R9 Value: 85
- LED Life: 50,000 hours
- LED Type: Cree LED for maximum light output
- Versatility: Interchangeable dead front trim in round and square
- EM Battery: 90 min, 800 lumens only
- Warranty: 5 Year Limited Warranty
- Wet Location Certified

LED DRIVER

Standard Triac/ELV or optional 0-10V driver provides high power factor with the optimum thermal management to prevent damage caused by high temperature. Driver protections include: output open load, over-current and short circuit, and over temperature with auto recovery.

DIMMING

Available in 8 driver selections. Standard Triac/ELV, 120V. (018) 0-10V dimming in 800 delivered lumens, 120-277V. (PEQ0) Lutron Hi-Lume Premier Ecosystem 0.1% w/soft on, fade to black dimming, 120-277V. (LDE1) Lutron Hi-Lume 1% Ecosystem with soft on, fade to black dimming, 120-277V. (LTE) Hi-Lume 1% 2-wire, 120V (L3DA) Hi-lume 1% EcoSystem/3-Wire L3D Driver (EEI) eldoLED Eco 1% Dim (0-10V), 120-277V. (EDIO) eldoLED Solo 0.1% Dim(0-10V), 120-277V. (EDID) eldoLED Solo 0.1% Dim(DALI), 120-277V.

ELECTRICAL CONNECTION

LED module quick connect allows easy connection to Rayon LED housing. Optional edison screw base or GU24 adaptor available for retrofit applications.

EMERGENCY BATTERY

Optional emergency battery with up to 90 minute illumination time. 800 delivered lumens only.

MOUNTING

Torsion springs supplied for convenient mounting to existing, remodel, or new construction housing.

MODULE MECHANICS

The RFL4 Series is constructed of durable heat sink, baffle/reflector, trim ring, diffused lens and Cree LEDs for optimum performance. Interchangeable round or square

baffle, reflector, and trim ring are designed for convenient color selection and replacement in the field. Diffused, polycarbonate, impact-resistant lens provides for even light output, glare control, and conceals LEDs from view

LABELS/COMPLIANCE

- CSA Classified for wet location
- LM79 and LM80
- Can be used for state of California Title 24 compliance
- JAB Certified



DIMENSIONS

Series	Lumens	Color Temp.	Dimming	Trim	Option
RFL4	8L - 800lm 11L - 1100lm	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	Leave blank - Triac/ELV 018 ¹ - 0-10V Dimming (800 lumens) 011 ¹ - 0-10V Dimming (120-277V0) PEQ0 ^{1,2} - Lutron Hi-Lume Premier Ecosystem 0.1% w/soft on, fade to black dimming LDE ^{1,2} - Lutron Hi-Lume 1% Ecosystem with soft on, fade to black dimming LTE ^{1,2,3} - Hi-Lume 1% 2-wire L3DA ^{1,2} - Hi-lume 1% EcoSystem/3-Wire L3D Driver EEI ^{1,2,4} - eldoLED Eco 1% Dim (0-10V) EDIO ^{1,2,4} - eldoLED Solo 0.1% Dim (0-10V) EDID ^{1,2,4} - eldoLED Solo 0.1% Dim (DALI)	4TLDF-W - White (dead front)	EM ¹ - Emergency back-up

Note:
 1. Requires dedicated housing.
 2. Requires ceiling access
 3. 120V only.
 4. Must specify logarithmic or linear eldoLED driver.

PRIME

PRIME 3" LED ARCHITECTURAL ROUND FLANGED DOWNLIGHT



USE OF PRODUCT

The 3" PRIME Downlight is a small aperture fixture with shallow height that may be used in residential and commercial applications. Available with die cast or spun aluminum trims, with an assortment of color temperatures, optics and dimmable drivers.

LED ENGINE

LED engine available with CREE LEDs in 2700K, 3000K, 3500K, or 4000K in standard 93+ CRI. 2 Step MacAdam ellipse allows for color consistency between fixtures. LED mounted to aluminum heat sink for maximum life output and thermal management. LED engine is accessible from below ceiling.

FRAME CONSTRUCTION

IC Air-tight rated housing constructed from 16 gauge heavy duty powder coated cold rolled steel frame. Junction box with 1/2" knockouts. Butterfly bracket included to accommodate adjustable bar hangers or C-channel (ordered separately).

ADJUSTMENT

- Housing provides for 359° locking rotation
- Aperture collar compatible up to 1 1/2" ceiling thickness.
- Accommodation for 2" or 3" ceiling thickness available upon request.

OPTICAL LENS & FILTERS (Field Replaceable)

Field replaceable optical lens available in 12°, 22°, 27°, 35° and 45°. Easily achieve narrow spot to wide flood beam pattern. Accepts up to 2 filters.

DIMMING

Available in 8 driver selections. (ID) Standard all-inclusive ELV(120V), Triac(120V), and 0-10V(120-277V) dimming driver called Intelligent Drive, 120-277V. (PEQ0) Lutron Hi-Lume Premier Ecosystem 0.1% w/soft on, fade to black dimming, 120-277V. (LDE1) Lutron Hi-Lume 1% Ecosystem with soft on, fade to black dimming, 120-277V. (L3DA) Hi-Lume 1% EcoSystem/3-Wire L3D Driver (EEI) eldoLED Eco 1% Dim (0-10V), 120-277V. (EDIO) eldoLED Solo 0.1% Dim(0-10V), 120-277V. (EDID) eldoLED Solo 0.1% Dim(DALI), 120-277V. Driver accessible from below ceiling.

THERMAL MANAGEMENT

Ambient temperatures at fixture location should not exceed -20° to 40°C.

TRIM

Trim available in die cast or spun aluminum. Consult factory for made to order finishes. Flanged trim is compatible with all ceiling materials.

EMERGENCY BATTERY

Optional emergency battery available for a minimum of 90 minutes with Remote test switch in 800 delivered lumens.

LABELS/COMPLIANCE/WARRANTY

- CSA Listed for US and Canada
- Energy Star
- Dry/Damp/Wet location rated.
- Title 24, JAB Compliant
- 5 Year limited warranty.



ORDERING INFORMATION

RPM

Series	Aperture Size	Lumens	Color Temperature	Voltage	Dimming	Optical Lens	Filter
RPA	3 - 3"	8L - 890 lm	27 - 2700K	UNV - 120-277V	ID ² - Standard all-inclusive ELV, Triac, and 0-10V dimming driver (Intelligent Drive)	12 - 12°	None - Leave blank
PRIME Series		11L - 1175 lm	30 - 3000K	120 - 20V	PEQ0 - Lutron Hi-Lume Premier Ecosystem 0.1% w/ soft on, fade to black dimming	22 - 22°	F - Frosted filter
		16L - 1650 lm	35 - 3500K	347 - 347V	LDE1 ² - Lutron Hi-Lume 1% Ecosystem with soft on, fade to black dimming	27 - 27°	H - Honey comb
		20L ³ - 2000 lm	40 - 4000K		LTE ² - Lutron Hi-Lume 1% 2-wire	35 - 35°	S - Solite filter
					L3DA - Hi-lume 1% EcoSystem/3-Wire L3D Driver	45 - 45°	L - Linear filter
					EEI ³ - eldoLED Eco 1% Dim (0-10V)		
					EDIO ^{3,4} - eldoLED Solo 0.1% Dim (0-10V)		
					EDID ^{3,4} - eldoLED Solo 0.1% Dim (DALI)		

Housing Type	Aperture	Frame Accessories	Collar	Options
IC - IC Air-tight New Construction	RFD - Round Flanged Downlight	AH - Adjustable bar hanger	Blank - 1.5" Depth	ER8 ² - Emergency battery with remote switch (800 Lumens)
NC - Non-IC New Construction		C - C Channel bar hanger	20 - 2" Depth	CP - Chicago Plenum
		B - Flat bar hanger	30 - 3" Depth	
			MTO - Made to order	

TRIM ORDERING INFORMATION

Aperture Size / Shape / Trim Type / Style	Bevel Opening	Bevel	Flange	Options
3RFO - 3" Round Flange Open	Die Cast	CL - Die cast large opening CS - Die cast small opening	W - White B - Black H - Haze BZ - Bronze C - Clear MTO - Made to order	WL - Wet Location
Spun Aluminum (Self Flanged)	AL - Spun alum. Large opening AS - Spun alum. Small opening	H - Haze C - Clear MTO - Made to order		WL - Wet Location

- Notes
1. Not Available in IC
 2. Intelligent Drive is the standard driver.
 3. Ceiling access required.
 4. Must specify logarithmic or linear eldoLED driver.

PRIME

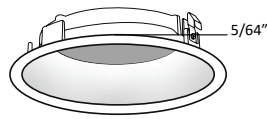


LUMEN CHART

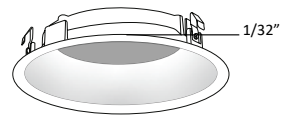
Wattage	Delivered Lumens	Voltage	CRI
10W	890 lm	120 - 277V	93+
14W	1175 lm	120 - 277V	93+
20W	1650 lm	120 - 277V	93+
30W	2000 lm	120 - 277V	93+

*Above chart, ordering information, and IES File name reflect delivered lumens based 3000K and 30° optical lens.
 **Lumens will vary based on CCT, optical lens, and bevel finish.

TRIM THICKNESS



Die Cast

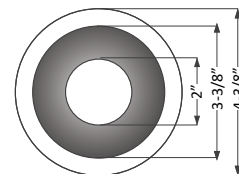
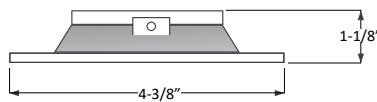


Spun Aluminum

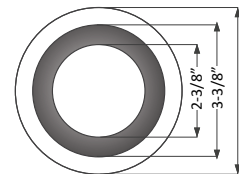
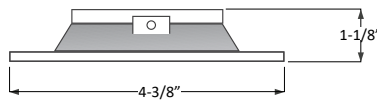
TRIM DIMENSION



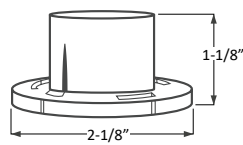
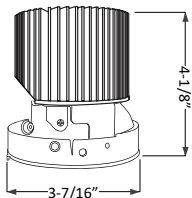
Small Opening



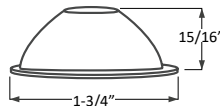
Large Opening



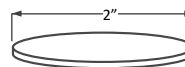
MODULE/HEATSINK, LED HOLDER & FILTER DIMENSION



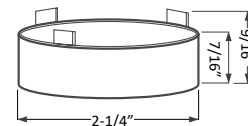
LED Holder (Body)



Optics



Filter

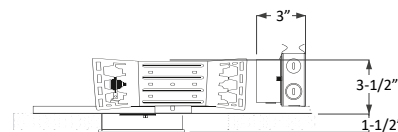
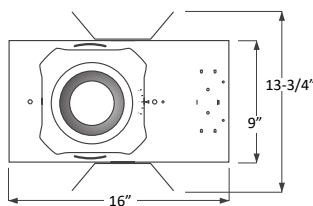


LED Holder (Head)

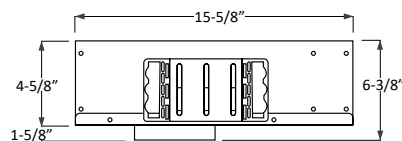
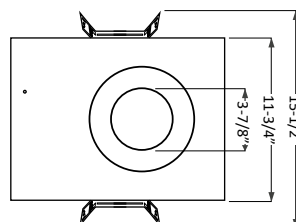
HOUSING DIMENSION



NC - Non-IC New Construction



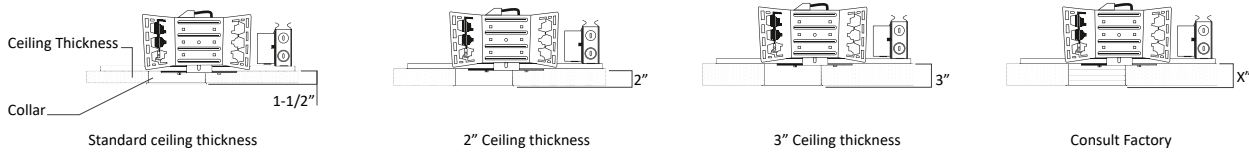
IC - Air-tight New Construction



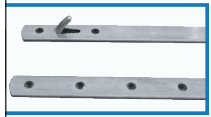
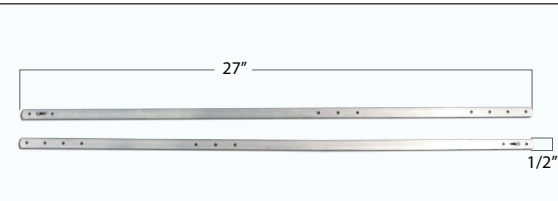
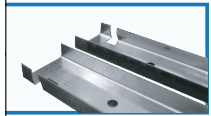
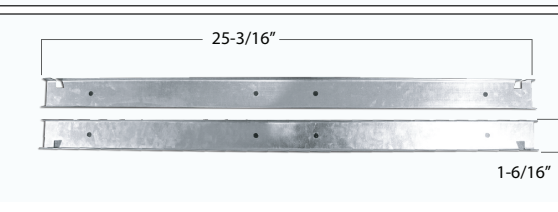

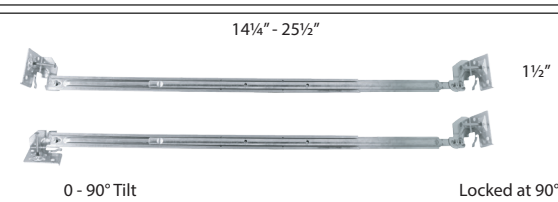
PRIME

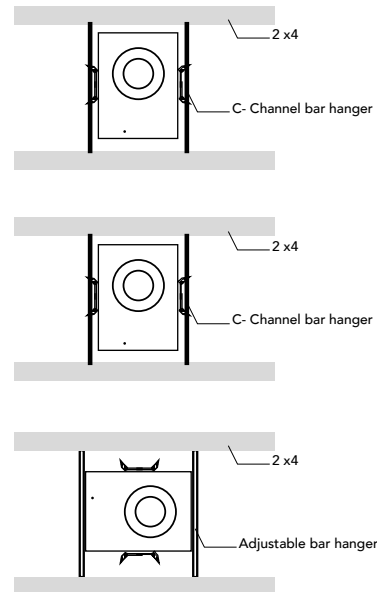


COLLAR DEPTH PER CEILING THICKNESS



FRAME ACCESSORIES

<p>B Flat Bar Hanger</p> 	 <p>27"</p> <p>1/2"</p>
<p>C C Channel Bar Hanger</p> 	 <p>25-3/16"</p> <p>1-6/16"</p>
<p>AH Adjustable Bar Hanger</p>  <p>0°-90° Tilt</p>	 <p>14 1/4" - 25 1/2"</p> <p>1 1/2"</p> <p>0 - 90° Tilt</p> <p>Locked at 90°</p>





DALS LIGHTING

Canada
80, de la Seigneurie Blvd., E.
Blainville, Quebec J7C 4N1

U.S.A.
4383, NW 124th Ave.,
Coral Springs, Florida 33065

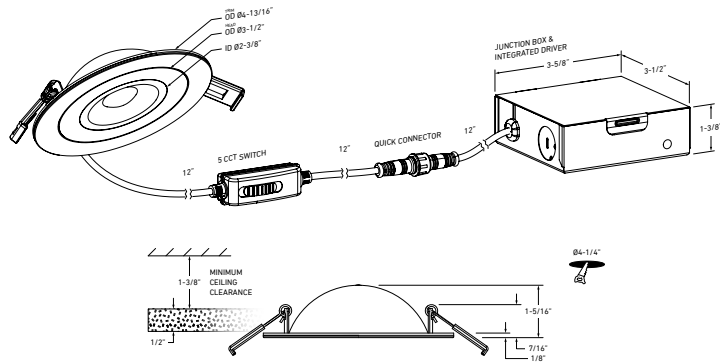
877.430.1818
info@dals.com
dals.com

MODEL NAME **FGM4-CC PIVOT**
4-Inch Flat Gimbal Recessed

With powerful lumen output and the ability to direct light with a 360° rotation and a 90° tilt angle, this product will meet your every need.



PROJECT:	TYPE:
DATE:	QTY:
NOTES:	

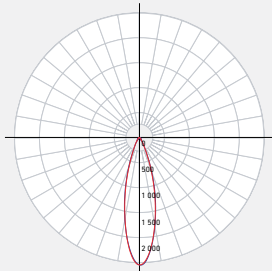


QUICK SPECS

SIZE	WATTS	DELIVERED LUMENS*	COLOR °T 5CCT	CRI	VOLTAGE	BEAM ANGLE	FINISH
4"	9W	700lm	2700K 3000K 3500K 4000K 5000K	90	120V	40°	<input type="radio"/> White <input type="radio"/> Satin Nickel <input type="radio"/> Black

*Lumen output measured at 3000K

LIGHT DISTRIBUTION



CONSTRUCTION	Lens Clear	Type of optics Optical lens	Type of LED COB
	Lens material Acrylic	Housing material Cast aluminum	Cut hole size 4-1/4"

RATINGS	Placement Indoor/Outdoor	Lifespan 50,000 hrs.	FT rating FT6
	Location Wet	Certifications ETL, FCC, ICES, ES IC, ASTM E283-04, T24	Operating temperature -20° to 40° C

WHAT'S IN THE BOX

- LED recessed fixture
- Junction box
- Push-in wire connectors
- Mounting hardware
- Instruction sheet

ACCESSORIES

- [RFP-UNI](#)
Universal Drilling Plate
- [RFP-46](#)
Drilling Plate

ADAPTERS

- [REC-EXT108](#)
108" extension cord for recessed fixtures
- [REC-EXT230](#)
230" extension cord for recessed fixtures



Canada
80, de la Seigneurie blvd., E.
Blainville, Quebec J7C 4N1

U.S.A.
4383, NW 124th Ave.,
Coral Springs, Florida 33065

877.430.1818
info@dals.com
dals.com

**ELECTRICAL
DETAILS**

Input voltage
108-135V

Output current
380mA

Power factor
98%

Driver type
Constant current

Output voltage
18-24V

LED model #
COB

**THD harmonic
distortion**
<30%

Binning type
3 SDCM

FEATURES

Every fixture includes
a junction box with an
integrated driver

Superior LED
performance and
lifespan

Minimal heat emission

Clear lens

Switch-selectable CCT:
2700K/ 3000 K/ 3500 K/
4000 K/ 5000 K

Can be daisy chained

Smooth 360° wide
spread

Low profile

WARRANTY

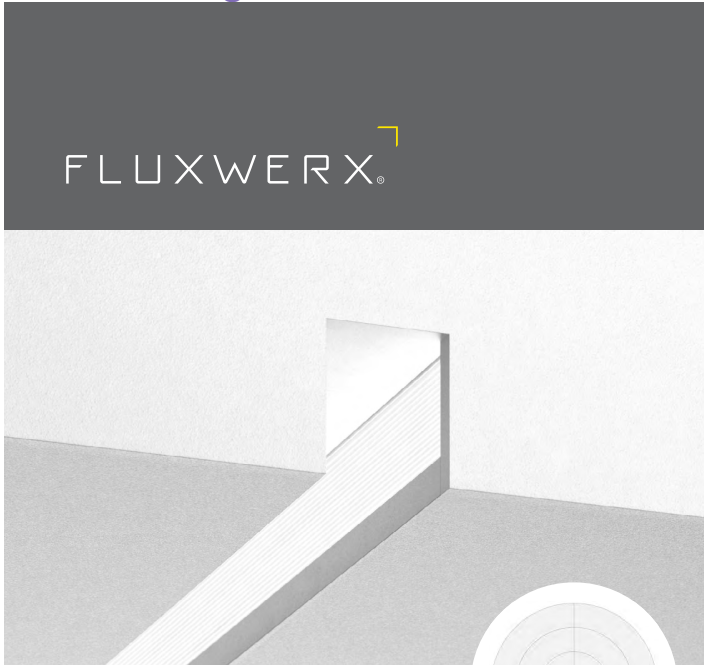
DALS offers a 5-year warranty from the date of purchase which covers repairs or replacement of defective parts of the housing, optics, and electronics. To contact DALS customer service call 1-877-430-1818 or send an e-mail to info@dals.com.

RECOMMENDED DIMMER LIST*

BRAND	MODEL #	DIMMER SPECS	GRADE	DIMMING RANGE (%)	MAX LOAD
Dals	SM-DIMSW Smart Dimmer	Triac, 250W LED/CFL	Compatible	Min: 9 / Max: 100	27
Lutron	DVCL-153PR-WH-C	Triac, 150 W Dimmable CFL/LED	Compatible	Min: 10 / Max: 100	16
Lutron	CTCL-153PDH-WH-C	Triac, 150 W Dimmable CFL/LED	Compatible	Min: 3 / Max: 100	16
Lutron	STCL-153PH-WH-C	Triac, 150 W Dimmable CFL/LED	Compatible	Min: 3 / Max: 100	16
Lutron	DVWCL-153PH-WHC	Triac, 150 W Dimmable CFL/LED	Compatible	Min: 10 / Max: 100	16
Lutron	MACL-153MRHW-WHC	Triac, 150 W Dimmable CFL/LED	Compatible	Min: 2 / Max: 100	16
Lutron	DVELV-300P-WH	300W electronic low voltage dimmer	Compatible	Min: 12 / Max: 100	33
Lutron	MA-PRO-WH	ELV, 250W LED/CFL	Compatible	Min: 3 / Max: 100	27
Lutron	Caseta PD-6WCL-WH-R-C	Triac, 300W Dimmable CFL/LED	Compatible	Min: 1 / Max: 100	33
Lutron	Caseta PD-5NE-WH-C	ELV, LED—up to 250 W	Compatible	Min: 6 / Max: 100	27
Lutron	Caseta PD-10NXD-WH	Triac, LED—up to 250 W	Compatible	Min: 2 / Max: 100	27
Leviton	6672-1LW	Triac, 150W Dimmable CFL/LED	Compatible	Min: 34 / Max: 99	16
Leviton	DSM10	Triac, 450W Dimmable CFL/LED	Compatible	Min: 27 / Max: 99	50
Leviton	6674	Triac, 150 W Dimmable CFL/LED	Compatible	Min: 12 / Max: 99	16
Leviton	IPL06-10Z	Triac, 150 W Dimmable CFL/LED	Compatible	Min: 20 / Max: 99	16
Leviton	DSL06-752	Triac, 150 W Dimmable CFL/LED	Compatible	Min: 20 / Max: 99	16
Leviton	D26HD-742-1RW	Triac, 300W LED/CFL	Compatible	Min: 14 / Max: 100	33
Legrand	RHCL453PNICCV4	Triac, 450W Dimmable CFL/LED	Compatible	Min: 14 / Max: 99	50
Legrand	ADTP703TUM4	Triac,450W Dimmable CFL/LED	Compatible	Min: 17 / Max: 100	50
Legrand	ADPD453LM2	Triac,450W Dimmable CFL/LED	Compatible	Min: 43 / Max: 99	50
Legrand	RHL373PW	Triac, 250W LED	Compatible	Min: 10 / Max: 97	27
Control 4	C4-APD120-WH	ELV, 120W LED	Compatible	Min: 2 / Max: 100	13
Control 4	C4-FPD120-WH	Triac, 200W LED	Compatible	Min: 3 / Max: 100	22

* Minimal buzzing noise may occur with some dimmers

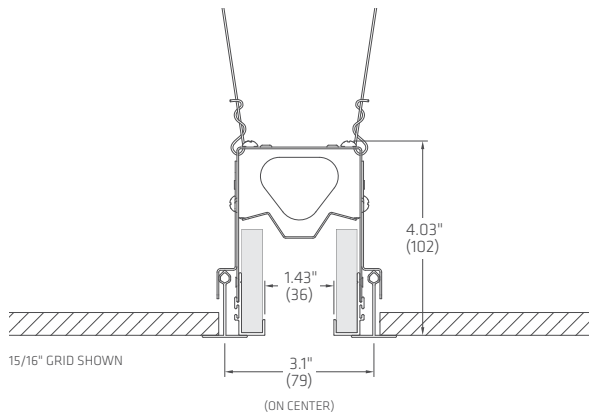
TYPE



D2 – DRYWALL TRIMLESS SHOWN WITH (E) DADO ENDCAP OPTION

100% Dn Symmetric

CROSS SECTION



CEILING & TRIM



SPECIFICATION DATA
NOTCH 1 AREA SYMMETRIC (NN1-B)

CATALOG #

PROJECT

NOTES

PERFORMANCE FOCUS

80 CRI 4000 K (NN1-Bx40)

	Energy (W/ft)	Light (lm/ft)	Efficacy (lm/W)
A	4.5 W	400	99
B	5.5 W	525	98
C	7 W	650	96
D	8.5 W	800	95

Color Matching (SDCM)	Lumen Maintenance (hr)	
	L90 per TM21	L70 Estimate
< 2	> 60,000	> 200,000

Nominal values, refer to back pages for full performance data.

FEATURES

- 1.5" aperture, open design with fully luminous interior. No horizontal lenses or diffusers.
- Recessed companion to Profile Mini suspended, smaller scale version of Notch 2.
- Anidolic optics provide shielded, precisely controlled optical distributions, for low glare and wide row spacing.
- Up to 12 ft oc. spacing, delivering 40 fc at less than 0.4 W/ft².
- Length increments of 1' in drywall or 2' in T-grid ceilings.
- L-Corner module enables square, rectangular and open patterns.
- Extruded aluminum trims simplify installation and help installers to achieve precise fit and finish.
- Optional Dado and Capsule drywall endcaps create a unique boundary for a continuous line of light.





TYPE

SPECIFICATION DATA
NOTCH 1 AREA SYMMETRIC (NN1-B)

ORDER GUIDE

1	2	3	4	5	6	7	8	9	OPTIONS	CONTROLS
NN1			B							

1 FAMILY	2 VERSION	3 TRIM / CEILING	4 DISTRIBUTION	5 ENERGY ²
NN1 Notch 1 Area	L Linear Row	D1 Drywall – Trim Flange D2 Drywall – Trimless G1 Grid – 9/16" or 15/16" Flat-T 9/16" Tegular or Bolt-Slot	A Asymmetric	A 4.5 W/ft
	R Pattern Side/Corner		B Symmetric	B 5.5 W/ft
	PATTERN ¹			C 7 W/ft
	P0 Square			D 8.5 W/ft
	P1 Rectangle			
	P2 2 Sides 1 Corner			
	P3 3 Sides 2 Corners			
	P4 4 Sides 3 Corners			
	P5 5 Sides 4 Corners			
	¹ Other patterns available, consult Fluxwerx.			² Add 1 W/ft for BP or 347 V with E1-4/L1.

6 CRI-CCT	7 DRIVER	8 VOLTAGE	9 LENGTH
30 80 CRI 3000 K	F1 Non-Dim	M 120-277 V 1 120 V ⁴ 2 277 V ⁴ 3 347 V ⁵	XX Length in ft (min 2 ft) Drywall – 1ft increments Grid – 2 ft increments (for 1 ft consult Fluxwerx)
35 80 CRI 3500 K	F2 0-10 V Dim 3%		
40 80 CRI 4000 K	E1 eldoLED ECO 0-10 V Dim 1%		CORNERS LC L Corner (Flat 2' x 2')
93 90 CRI 3000 K	E2 eldoLED SOLO 0-10 V Dim 0.1%		
90 90 CRI 3500 K	E3 eldoLED ECO DALI Dim 1%		
94 90 CRI 4000 K	E4 eldoLED SOLO DALI Dim 0.1%		
	L1 Lutron Hi-Lume 1% EcoSystem (LDE1)		
	L2 Lutron Hi-Lume 1% 2-Wire 120 V (LTEA)		
		⁴ Fixed 120 or 277 V for nLight, 120 V for 2-wire driver.	
		⁵ 347 V Transformer for E1-4/L1 drivers.	

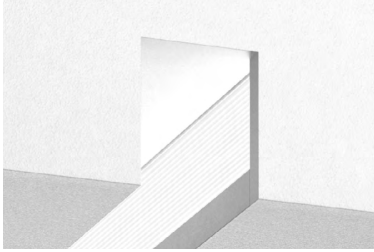
OPTIONS		CONTROLS	
WIRING & EMERGENCY	LAYOUT & FINISH	SENSORS & CONTROLLERS	
A# Alternate Wiring Module Qty (Two 4 ft circuits in 8 ft module for EM, NL or AV switching)	C Chicago Plenum	RE1 Remote Enlighted Smart Sensor	
B# Battery Pack Qty ⁶	E Dado Endcap ⁷	VN1 Acuity nLight Converter	
F 6' Flex Whip (in first module)	K Black Trim and Endcap		
H# Emergency Switch Qty ⁶ (GTD or Controller)	P Capsule Endcap ⁸		
T Throughwire Circuit			
⁶ BP/GTD: For 120-277 V, linear 4 ft or 8 ft modules.	⁷ Dado End: D2 trim, only one end by default. ⁸ Capsule End: D2 only.		



TYPE

SPECIFICATION DATA
NOTCH 1 AREA SYMMETRIC (NN1-B)

PRODUCT DETAILS



LINEAR ANIDOLIC OPTIC

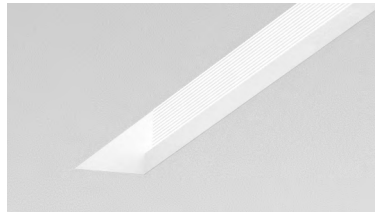
TRIM OPTIONS

TRIM

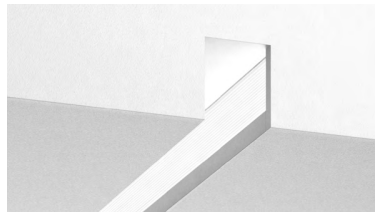


D1 – DRYWALL TRIM FLANGE

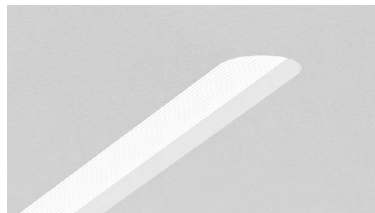
TRIMLESS



D2 – DRYWALL TRIMLESS



OPTIONAL – DADO ENDCAP



OPTIONAL – CAPSULE ENDCAP

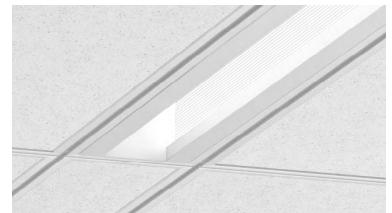
GRID



G1 – 9/16" GRID FLAT T



G1 – 15/16" GRID FLAT T



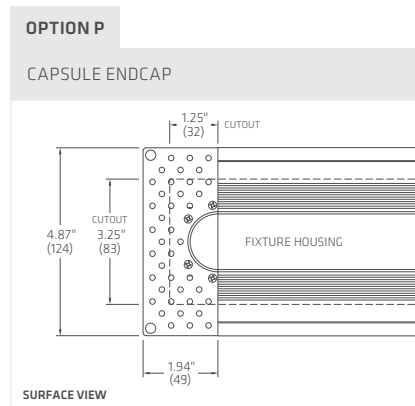
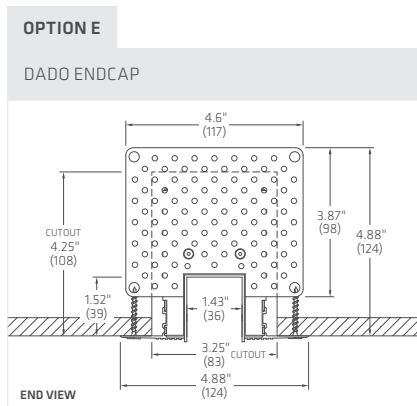
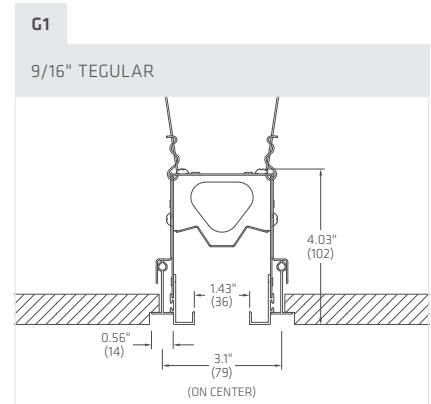
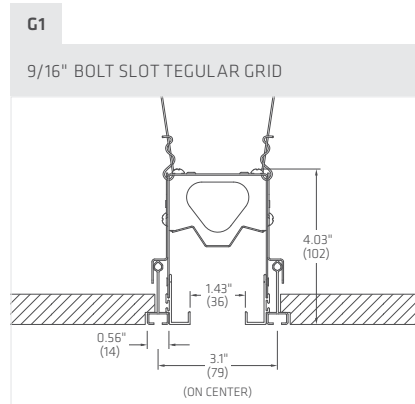
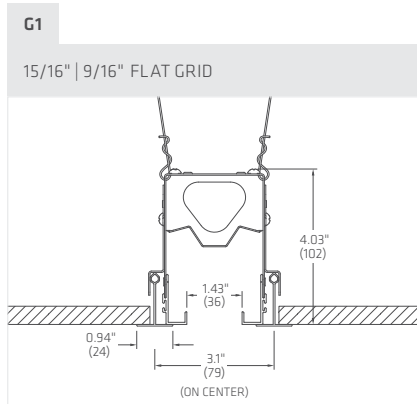
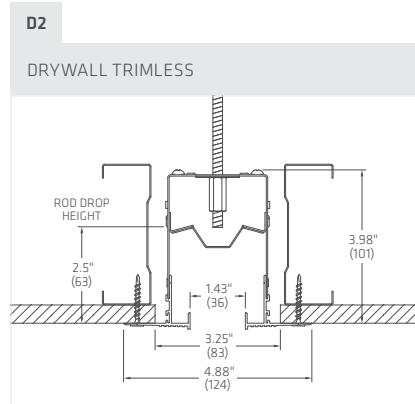
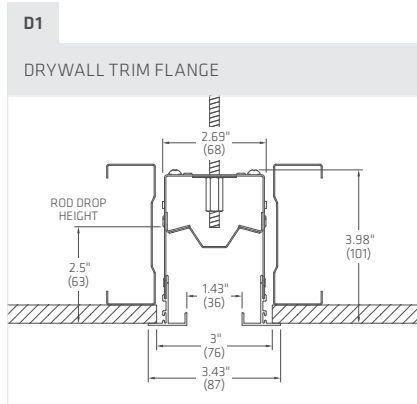
G1 – 9/16" TEGULAR | SLOT GRID



SPECIFICATION DATA

NOTCH 1 AREA SYMMETRIC (NN1-B)

DIMENSIONS





TYPE

SPECIFICATION DATA
NOTCH 1 AREA SYMMETRIC (NN1-B)

LINEAR ROWS & FIXTURES

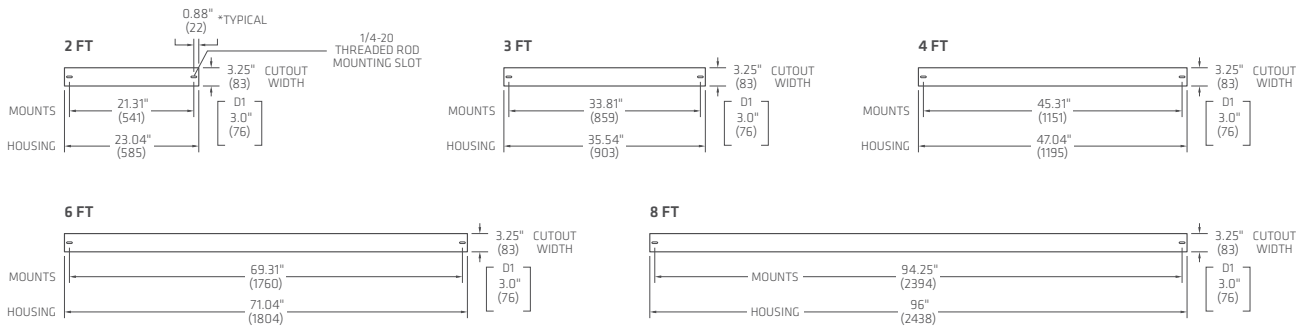
Continuous rows are available in nominal 1' increments in drywall ceilings and in 2' increments on-grid for T-bar ceilings. Standalone fixtures are available in 2', 3', 4', 6', or 8' sizes.



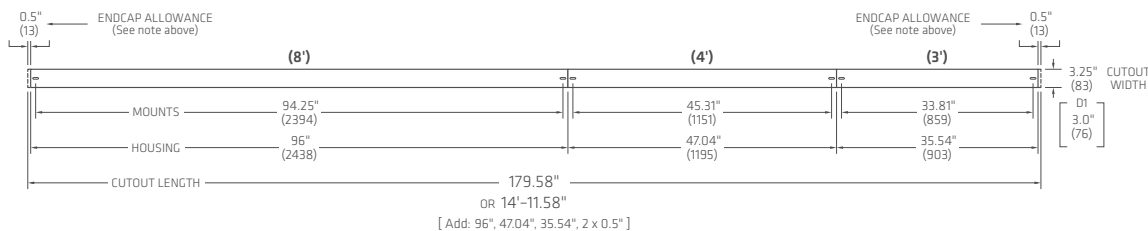
NOTE: Run lengths are nominal and vary with ceiling condition and trim selections.

DRYWALL CUTOUT DIMENSIONS

To determine the overall drywall ceiling cutout length, add an endcap allowance to each end of a straight run, as follows: Standard flat endcap (D1-D4) – 1/2"; Capsule endcap – 1-1/4"; Dado endcap – 3/16".



EXAMPLE OF A DRYWALL CUTOUT FOR A 15' RUN



INSTALLATION NOTES

- Cutout dimensions apply to all drywall trim options.
- A minimum depth of 4.25" above the ceiling plane is required.
- Threaded rod or lag bolt mounting is required for ceiling installations only:
 - Ensure 1/4-20 threaded rod length is cut between 2.25" – 2.75" above finished ceiling plane.
 - 2 threaded rods required for each linear housing.

TYPE



SPECIFICATION DATA

NOTCH 1 AREA SYMMETRIC (NN1-B)

NOTES

CONSTRUCTION

- 20 ga. satin coat steel housing
- Extruded aluminum flange options available for drywall trim, trimless and T-bar grid ceilings
- White powdercoat or optional black trim

OPTICAL

- Anidolic optical structures with linear light extraction elements
- Precision extruded high transmittance clear acrylic lenses
- Long life mid-flux LED system designed for typical TM21 lumen maintenance \geq L90 @ 60,000 h
- Available in 3000 K, 3500 K, 4000 K with CRI \geq 80 and R9 \geq 0, or CRI \geq 90 and R9 \geq 50, all with color accurate binning \leq 2 SDCM

ELECTRICAL

- Integral high efficiency multivolt drivers, for 50-60 Hz 120-277 V or 347 V
- Power Factor $>$ 0.90
- Total Harmonic Distortion $<$ 20%
- Dim level: Standard 3%, optional 1% or 0.1%
- Optional Battery Pack delivers 10 W Class 2 rated output for 90 min. Use 12 W input energy to estimate emergency flux, typically 1000-1200 lm (@90-100 lm/W).
- Optional GTD (Generator Transfer Switch), 120-277 V, disables 0-10 V control during emergency for full light output
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

ENVIRONMENTAL & CARE

- Designed for use in dry or damp indoor locations with ambient temperatures of 0-30°C (32-86°F)
- Not suitable for natatorium environments, e.g. swimming pools, hot tubs and saunas. The luminaire may be damaged by chemicals such as chlorine, solvents, ammonia, alcohol or sulfur in the area of operation or in cleaning products. Damage from contaminants is not covered under warranty.
- Clean only by wiping with a slightly water-damp, soft, clean cloth.

WEIGHT

- Maximum 3.5 lb/ft (5.2 kg/m) with standard driver
- Maximum 3.7 lb/ft (5.5 kg/m) with battery pack or 347 V transformer

WARRANTY

- 5 year limited warranty on all components and workmanship

INDEPENDENT TESTING

- IESNA LM79
- IESNA LM80 (LED @ 9,000 or 10,000 h)

APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- IC Rated

Protected by one or more US patents: 10215344, 10830415, 9733411, 9823406, D731700, D780971; EU patents: 002263020-0001, 002263020-0002, 002263020-0003.

CONTROLS & SENSORS

Fluxwerx products are designed for simple integration with a wide range of wired & wireless sensors, lighting controls and building management systems. These support occupancy sensing, daylight harvesting, individual or central adjustment of light levels and luminaire or space monitoring.

enlighted™

Enlighted wireless, networked smart sensor integrates occupancy sensing, daylight harvesting, energy usage, temperature and light level control. Option: Remote Enlighted sensor (RE1), Model: SU-5E-CL

nLIGHT

nLight wired, 2-way network supports luminaire light level control as well as occupancy and daylight sensors. Option: Acuity nLight Converter (VN1), Model: nPS-80-EZ or nPS-80-EZ-ER

eldoLED™

EldoLED drivers support common wired protocols, 0-10 V and DALI. They also provide access to finer dimming control, dynamic white and Bluetooth low-energy (BLE) wireless. Options: ECO 1% (E1), SOLO 0.1% (E2)

LUTRON®

Lutron EcoSystem network protocol enables on/off, dimming, occupancy sensing and daylight harvesting. Option: Hi-Lume 1% EcoSystem (L1), Model: LDE1

legrand® Wattstopper® Pass & Seymour

LEVITON® FAT-N® DISTECH CONTROLS®

CRESTRON®



TYPE

SPECIFICATION DATA
NOTCH 1 AREA SYMMETRIC (NN1-B)

FAMILY PERFORMANCE

80 CRI

COLOR	4000 K	3500 K	3000 K
Color Rendering (CRI)	83	83	83
Red Index (R9)	6	4	6
Color Matching (SDCM)	< 2		

90 CRI

COLOR	4000 K	3500 K	3000 K
Color Rendering (CRI)	92	93	92
Red Index (R9)	63	64	59
Color Matching (SDCM)	< 2		

LUMEN MAINTENANCE	A 4.5 W	B 5.5 W	C 7 W	D 8.5 W
L90 per TM-21 (hr)	> 60,000			
L70 Estimate (hr)	> 200,000			

BATTERY OUTPUT - 80 CRI	4000 K	3500 K	3000 K
10 W BP Light (Est. lm)	1180	1160	1130

90 CRI OUTPUT	4000 K	3500 K	3000 K
90 CRI Multiplier	0.84	0.84	0.84

For Light (lm), Intensity (Cd) or Luminance (Cd/m²) in 90 CRI, multiply 80 CRI values by the 90 CRI Multiplier for chosen CCT.

VERSION PERFORMANCE

80 CRI, 100% Down Symmetric

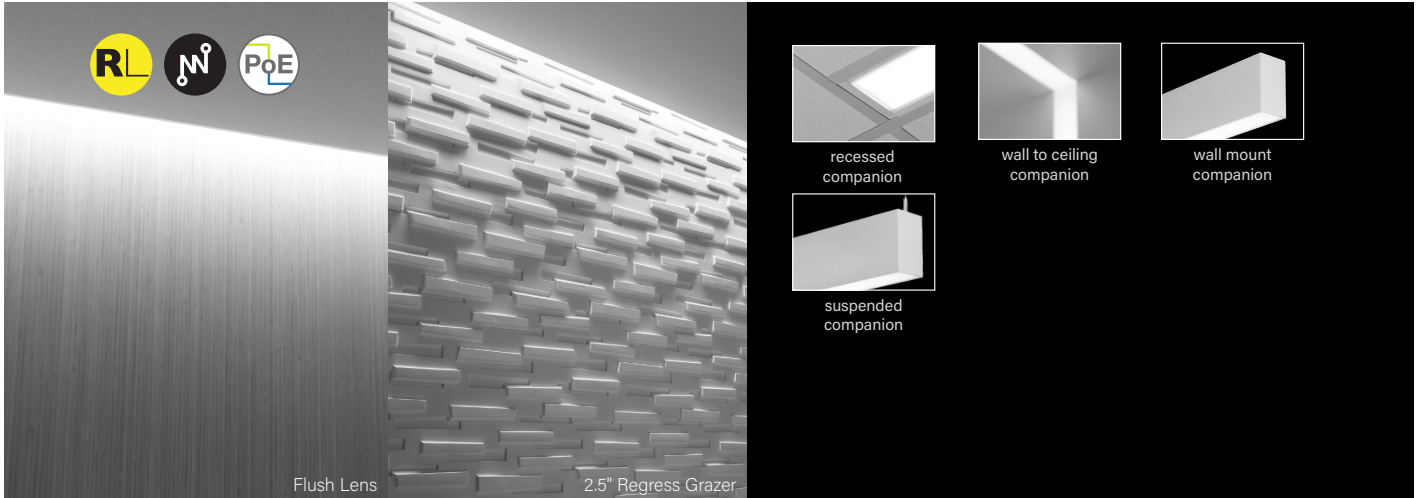
CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm/ft)	POWER (W/ft)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	
NN1-Bx40 4000 K	A	4.5 W	418	4.23	98.9	510	15,849	<p>Notch 1 100% Dn Symmetric</p>
	B	5.5 W	529	5.39	98.1	644	20,027	
	C	7 W	650	6.77	96.0	792	24,608	
	D	8.5 W	794	8.41	94.5	968	30,098	
NN1-Bx35 3500 K	A	4.5 W	409	4.23	96.7	499	15,498	
	B	5.5 W	517	5.39	95.9	630	19,582	
	C	7 W	636	6.77	93.9	775	24,060	
	D	8.5 W	777	8.41	92.4	946	29,426	
NN1-Bx30 3000 K	A	4.5 W	400	4.23	94.6	487	15,148	
	B	5.5 W	505	5.39	93.7	616	19,136	
	C	7 W	621	6.77	91.8	757	23,511	
	D	8.5 W	759	8.41	90.3	925	28,754	

Photometry Reports: 3500K, 18 W | 13911702.04; 22 W | 13911702.03; 36 W | 13809463.01

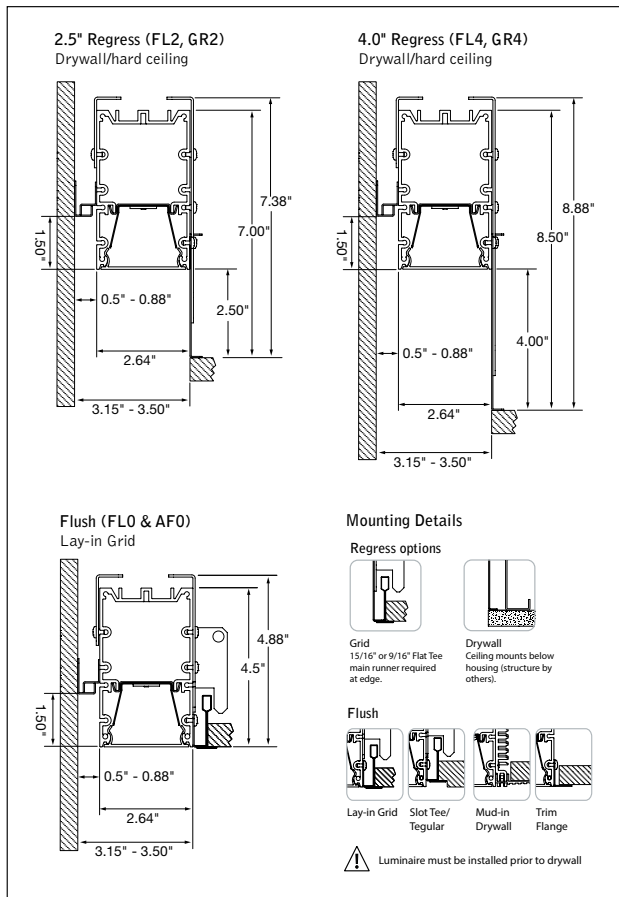
Integrating Sphere and Photometric results by an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Results for 3000K, 3500K and 4000K scaled based on integrating sphere results of Notch1 Symmetric and Profile Mini 100Dn 3000K and 4000K. Candlepower Distribution scaled per total lumens of Integrating Sphere results.

Seem[®] 2

LED PERIMETER



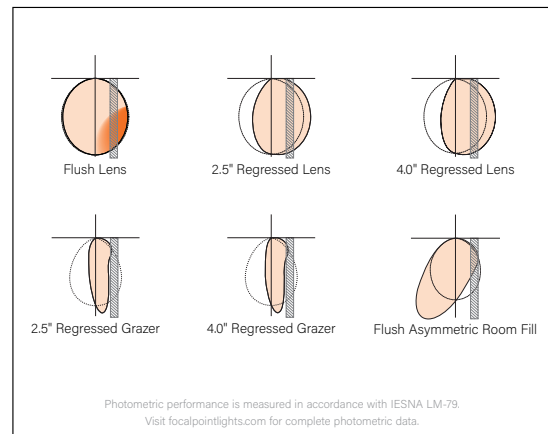
DIMENSIONAL DATA



FEATURES

- Seem 2 LED perimeter provides a glowing transition between ceiling and wall with flush, 2.5" regress or 4.0" regress lenses.
- Adjustable housing option provides flexibility with +/- 3 inch adjustability for wall-to-wall illumination.
- Grazer optic provides even vertical illumination and adds drama to a space by highlighting textured walls and architectural details.
- Asymmetric Room Fill optic provides superior efficacy and uniformity to light rooms and corridors from the perimeter.
- Connected Solutions: Integrates with wired and wireless building lighting control systems.
- PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

DISTRIBUTIONS

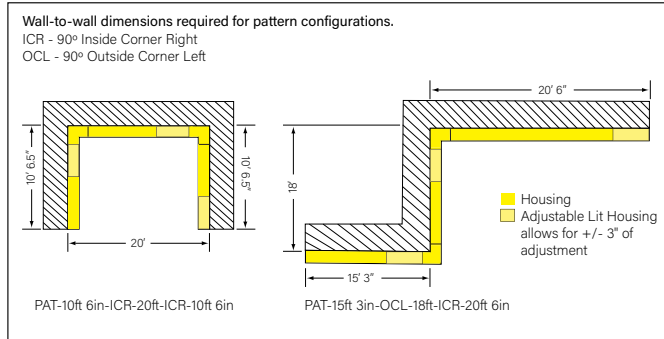


TYPE: R6-Page 2

fixture:

project:

PATTERN CONFIGURATIONS



SPECIFICATIONS

LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 2700K, 3000K, 3500K or 4000K with CRI>80 or CRI>90, 3 SDCM. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps, bulkheads, sliding sleeve and regress leg. 4' unit weight: 17 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .07" thick with satin finish, up to 8' continuous.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Power factor > .9. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs require an independent PoE node and power feed for each luminaire section.

Emergency Battery

Output - 10 watts for 90 minutes. Maximum mounting height: 17.9ft. Emergency Circuit with Connected Solutions (DLM1, LMFS1, LMFS2, NLT1, ENL1, CLM1, NXE1, WLXP) shipped standard with leads to connect UL924 compliant device, by others.

Labels

UL and cUL Listed. Suitable for Dry or Damp Locations, indoor use only.

Finish

Polyester powder coat applied over a multi-stage pre-treatment.

Lumen Maintenance

Reported: L70 at >61,000 hours Calculated: L70 at 270,000 hours
L90 at >61,000 hours L90 at 73,000 hours
(Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.)

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

4' PERFORMANCE CHART

See page 3.

Compton college student housing

ORDERING

Luminaire Series	FSM2PR	FSM2PR
Seem 2 LED Perimeter	FSM2PR	
Housing Type		
Adjustable Lit Housing <small>(Allows for +/- 3" adjustment to overall run length. 3' minimum luminaire length.)</small>	ALH	
Fixed Housing <small>(not recommended for wall to wall installations)</small>	FXH	
Shielding		
Flush Lens <small>(Not available with Unlit Sliding Sleeves - SSB)</small>	FL0	
2.5" Regress	FL2	
4" Regress	FL4	
2.5" Regress Grazer	GR2	
4.0" Regress Grazer	GR4	
Flush Asymmetric Room Fill <small>(Not available with Unlit Sliding Sleeves - SSB)</small>	AF0	
Lumen Output		
125 Lumens per foot <small>(LD1, L11 & D11 only. 4' minimum.)</small>	125LF	
250 Lumens per foot <small>(Not available with LH1. 4' minimum with D11.)</small>	250LF	
375 Lumens per foot <small>(4' minimum with LH1 & D11.)</small>	375LF	
625 Lumens per foot <small>(3' minimum with LH1.)</small>	625LF	
Color Temperature		
2700K, 80+ CRI or 90+ CRI	27K or 927K	
3000K, 80+ CRI or 90+ CRI	30K or 930K	
3500K, 80+ CRI or 90+ CRI	35K or 935K	
4000K, 80+ CRI or 90+ CRI	40K or 940K	
Circuits & Zones		
1 Circuit, non-emergency	1C	
Consult Ordering Guide on page 5 for multiple circuiting and zoning options	_C_Z_DL	
Voltage		
120/277 UNV Volt	UNV	
Low Voltage	LV	
Control System & Dimming Level		
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Low Voltage, PoE compatible <small>(No driver. Not available with EM or ECD. LV Voltage only.)</small>	LVN	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
DALI 1% Dimming	D11	
Wattstopper DLM - 1% Dimming* <small>(Not available with CP)</small>	DLM1	
Wattstopper Fixture Sensor* Low Density - 1% Dimming <small>(Remote mounted sensor. See sensor layout guide.)</small>	LMFS1	
Wattstopper Fixture Sensor* High Density - 1% Dimming <small>(Remote mounted sensor. See sensor layout guide.)</small>	LMFS2	
Acuity nLight - 1% Dimming* <small>(Not available with CP)</small>	NLT1	
Enlighted Smart Sensor - 1% Dimming* <small>(Remote mounted sensor. See sensor layout guide.)</small>	ENL1	
Excelium CLM Connected Lighting Module - 1% Dimming	CLM1	
Current NX Enabled - 1% Dimming* <small>(Not available with CP)</small>	NXE1	
WaveLinX Pro - 1% Dimming* <small>(Remote mounted sensor. See sensor layout guide.)</small>	WLXP	
* (3' minimum length. 7' minimum length with FXH & EM. Not available with ALH & EM. G & ST mounting only.)		
Mounting		
Lay-in Grid	G	
Flush	Slot Tee / Tegular	ST
(FL0 & AF0)	Trim Flange Drywall	TF
	Mud-in Trimless Drywall	XFF
Regressed (FL2, FL4, GR2 & GR4)	Grid	G
	Trimless Drywall	XF
Factory Options <small>(See Ordering Guide for ordering details for DC, EG, EM & ECD.)</small>		
Chicago Plenum <small>(Not available with Flex Whip)</small>	CP	
Daylight Circuit <small>(See Pattern Configurations for example)</small>	_DC	
Emergency Circuit	_EC	
Emergency Battery Pack†	_EM	
Emergency Control Device†	_ECD	
6' New York City Flex Whip (120V)	FNY1	
6' New York City Flex Whip (277V)	FNY2	
6' Flex Whip	FW	
Unlit Sliding Sleeves <small>(Set of two unlit 12" sleeves. Fixed housing in straight runs only. FL2, FL4, GR2 & GR4 only. 3' minimum luminaire length.)</small>	SSB	
Finish		WH
Matte White Housing	WH	
Luminaire Length		ft in
Specify luminaire/row length in 1" increments <small>(2' minimum length)</small>	_ft_in	
Pattern Options		
Specify patterns based on wall-to-wall dimensions <small>(See Pattern Configurations for example)</small>	PAT	
Example: FSM2LPR-ALH-FL2-625LF-35K-1C-120-LD1-G-WH-PAT-10-ICR-20-ICR-10		

† 4' minimum length with EM or ECD. 120/277 Volt only. EM or ECD not available at corners.



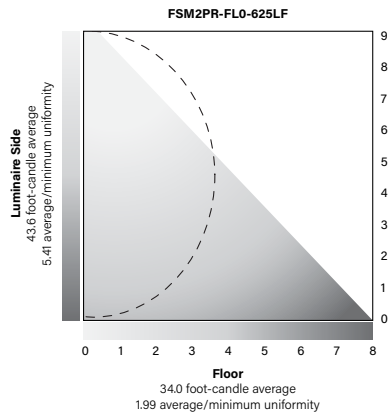
4' PERFORMANCE CHART

Lumens per Foot	Lumen Output	Tested System Watts	LPW					
			FL0	FL2	FL4	GR2	GR4	AF0
125LF	500	6	69	64	62	80	79	84
250LF	1000	12	85	78	76	98	97	103
375LF	1500	18	89	82	80	103	102	108
625LF	2500	31	86	79	78	100	99	105

Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

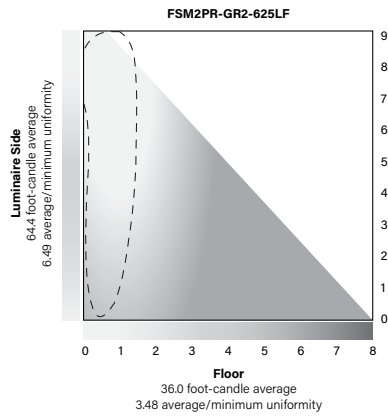
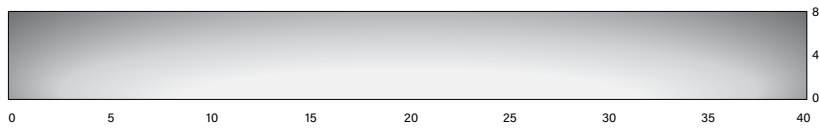
SELECTING THE BEST OPTIC FOR EACH APPLICATION

8' W x 40' L x 9' H Corridor | 80/50/20 Reflectances | 0.9 Light Loss Factor



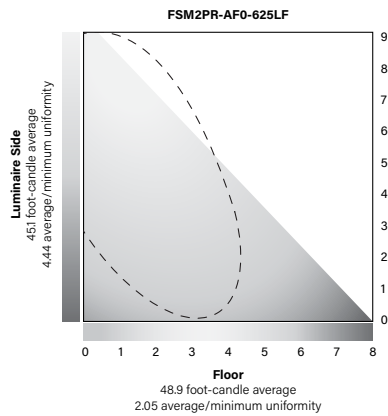
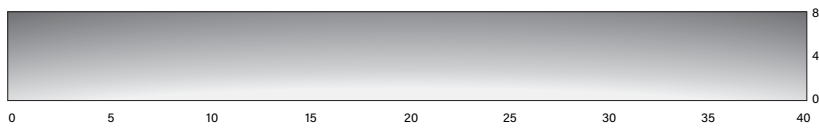
Standard Lens

The standard optic results in a Lambertian light distribution that provides uniform illumination. It is ideal to create a glowing transition between the walls and ceiling, adding dimension to the space.



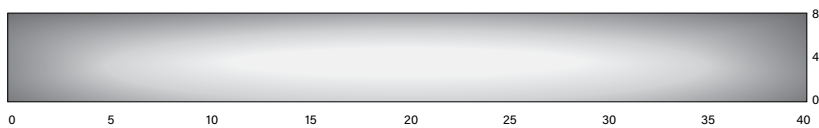
Grazer Lens

The grazer optic closely grazes walls, highlighting textures and architectural details. It is intended to provide even illumination and deliver maximum visual impact on the vertical surfaces.



Asymmetric Room Fill Lens

The asymmetric room fill optic projects light into the space to evenly illuminate horizontal planes. It is ideal to light rooms and corridors from the perimeter, resulting in superior efficacy and uniformity on the floor.





Seem[®] 2 Perimeter LED

Focal Point provides flexibility in meeting the needs of each project by integrating with several building lighting control systems. A variety of sensors, drivers and other components can be specified that allow the luminaires to communicate with wired and wireless networks. All zoning can be digitally reconfigured through the application software. Daylight harvesting, occupancy sensing, integration with HVAC systems, and individual controls enable the monitoring and modulating of light levels and temperature in order to save energy, reduce costs and maximize occupants' comfort. All Connected Solutions luminaires require a compatible building control system.[†]

Connected Solution	Ordering Code	Model #**	Protocol	Compatible Networks*	Occupancy & Daylight	Temperature Reporting	Communication to Luminaire	Drivers	
 legrand [®] WATTSTOPPER [®]		DLM1	LMFC-011	DLM	DLM	Enabled	No	Wired 	Advance by Signify , Optotronic by eldoLED
		LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Enabled	No	Wireless	Advance by Signify
		LMFSD	LMFS-601						Optotronic by eldoLED (Dexal)
 COOPER Lighting Solutions		WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Enabled	No	Wireless (WaveLinx Pro Wireless Area Controller)	Advance by Signify
 CRESTRON		D11	Specified Driver	DALI	Crestron Züm Wireless & SpaceBuilder	Enabled	No	Wired	eldoLED ECOdrive
		L11		0-10V					Advance by Signify
 ENCELIUM		CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled	No	Wireless	Optotronic by eldoLED Advance by Signify
 Enlighted		ENL1	SU-5E-IOT	Enlighted RF	Enlighted	Integrated	Yes	Wireless	Advance by Signify
 LUTRON		LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	No	Wired	Lutron Hi-Lume
 nLIGHT		NLT1	nEPS-60-IO	nLight	nLight	Enabled	No	Wired 	eldoLED ECOdrive , eldoLED SOLOdrive
 LIGHTING CONTROLS		NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled	No	Wired 	Optotronic by eldoLED

*Not all compatible networks may be listed. **For performance data and additional control system details please visit the connected solutions manufacturer websites. Primary drivers are listed in bold. To specify a particular driver please consult factory. †Controls systems supplied by others.

Ordering Guide



Direct Only Linear Circuitry, Zones & Factory Options

HOW TO USE THIS GUIDE

Fill out the worksheet on the following page to specify your requirements for circuitry, zones, and factory options.

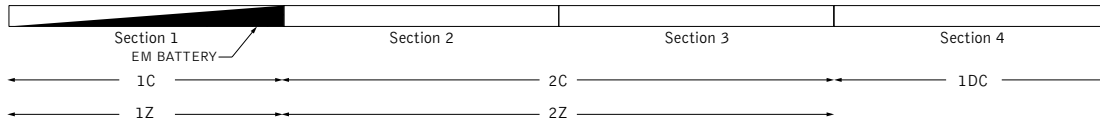
Refer to the run chart for standard run configurations, consult factory for custom configurations.

Complete the Totals / Ordering Codes at the bottom of the worksheet and add to your ordering logic on the cut sheet.

Submit the worksheet along with your order.

TOTAL RUN LENGTH: 32ft		JOB NAME:			FIXTURE TYPE:			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	SEPARATE ELECTRICAL FEEDS			EM
					DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	
1	8	1C	1Z					1EM
2	8	2C	2Z					
3	8	2C	2Z					
4	8				1DC			
Totals / Ordering Codes		2C	2Z		1DC			1EM

ORDERING: FSM4L-FL-625LF-35K- **2C2Z** -UNV-LD1-G2- **1DC-1EM** -WH-32ft



KEY	
C = Switching Circuit Switched Hot / Shared Neutral	DC = Daylight Circuit Switched Hot / Separate Neutral
Z = Dimming Zone Dimming Control Wires	EC = Emergency Circuit Switched Hot / Separate Neutral
DL = Daylight Zone Daylight Dimming Control Wires	EM = Emergency Battery Unswitched Hot / Shared Neutral
	ECD = Emergency Control Device Unswitched Hot / Separate Neutral

DEFAULTS

- Zones and Factory Options illuminate entire sections from 4' to 8' in length.
- One shared or isolated circuit and zone required per housing section.
- Limit of one EM or ECD per housing section.
- Additional electrical feed required for applications greater than three shared circuits and zones.
- Each DC, EC and ECD require an additional electrical feed.
- ECD not available in the same housing section as EC.
- Longer lead times and additional pricing may apply for custom run configurations.

CUSTOM LENGTHS

- If partial illumination of emergency or daylight section is required, indicate in ordering guide and add "partial illumination" in Order Notes. Drawing required.
- Engineering validation required, longer lead times may apply.

Ordering Guide Worksheet

Linear Circuitry, Zones & Factory Options



TOTAL RUN LENGTH: _____		JOB NAME: _____			FIXTURE TYPE: _____			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	EM
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Totals / Ordering Codes								

WORKSHEET

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

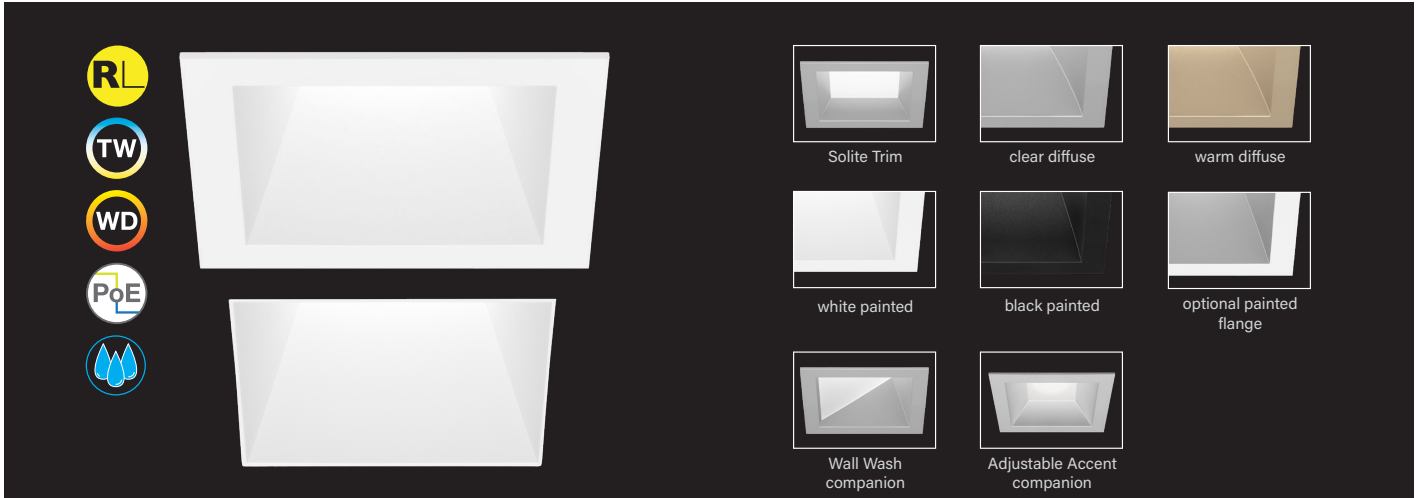
RUN CHART

Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths
9	5 + 4	21	8 + 8 + 5	33	8 + 8 + 8 + 5 + 4	45	8 + 8 + 8 + 8 + 8 + 5
10	6 + 4	22	8 + 8 + 6	34	8 + 8 + 8 + 6 + 4	46	8 + 8 + 8 + 8 + 8 + 6
11	7 + 4	23	8 + 8 + 7	35	8 + 8 + 8 + 7 + 4	47	8 + 8 + 8 + 8 + 8 + 7
12	8 + 4	24	8 + 8 + 8	36	8 + 8 + 8 + 8 + 4	48	8 + 8 + 8 + 8 + 8 + 8
13	8 + 5	25	8 + 8 + 5 + 4	37	8 + 8 + 8 + 8 + 5		
14	8 + 6	26	8 + 8 + 6 + 4	38	8 + 8 + 8 + 8 + 6		
15	8 + 7	27	8 + 8 + 7 + 4	39	8 + 8 + 8 + 8 + 7		
16	8 + 8	28	8 + 8 + 8 + 4	40	8 + 8 + 8 + 8 + 8		
17	8 + 5 + 4	29	8 + 8 + 8 + 5	41	8 + 8 + 8 + 8 + 5 + 4		
18	8 + 6 + 4	30	8 + 8 + 8 + 6	42	8 + 8 + 8 + 8 + 6 + 4		
19	8 + 7 + 4	31	8 + 8 + 8 + 7	43	8 + 8 + 8 + 8 + 7 + 4		
20	8 + 8 + 4	32	8 + 8 + 8 + 8	44	8 + 8 + 8 + 8 + 8 + 4		

Standard run configurations, consult factory for custom configurations.

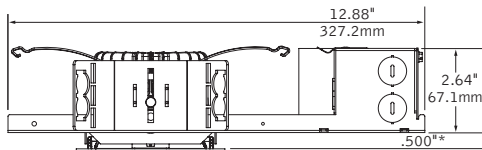
ID+ 3.5" x 3.5"

OVERLAP & TRIMLESS LED DOWNLIGHTS



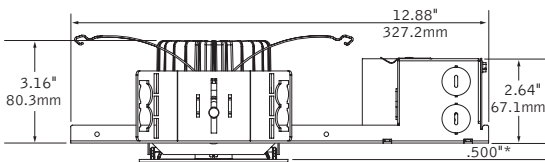
DIMENSIONAL DATA

Very Shallow Housing - 60° and 75° cut-off reflectors

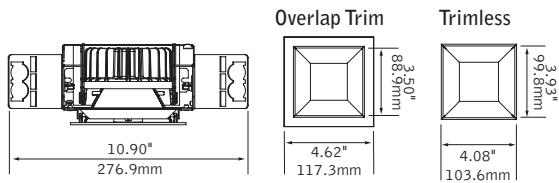


Housing height with DALI, Lutron & LZ1 drivers is 3.0"

Shallow Housing - 50° cut-off reflector



* Field adjustability of ceiling thickness from 0.5" - 1.5".



FEATURES

Less than 2.64" low profile housing available.

50°, 60° and 75° cut-off reflector options available.

25° to 90° beam spreads support accent lighting, task lighting and general illumination.

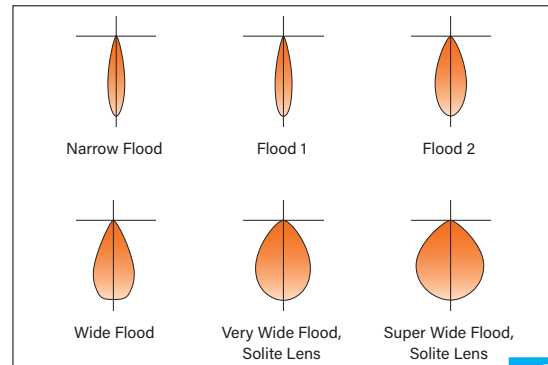
Solite lens with die-cast trim allows for a coordinated aesthetic with ID+ 3.5" Adjustable Accent and delivers 70° or 90° beam spread options.

Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

Warm Dim: Lighting that enhances spaces with a warm glow, reminiscent of incandescent or halogen light sources.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

DISTRIBUTIONS



Based on Overlap Trim, Tall Cone except Solite Lens versions, Clear Diffuse. Photometric performance is measured in accordance with IESNA LM-79. Visit focalpointlights.com for complete photometric data. Visit energystar.gov for model specifics.

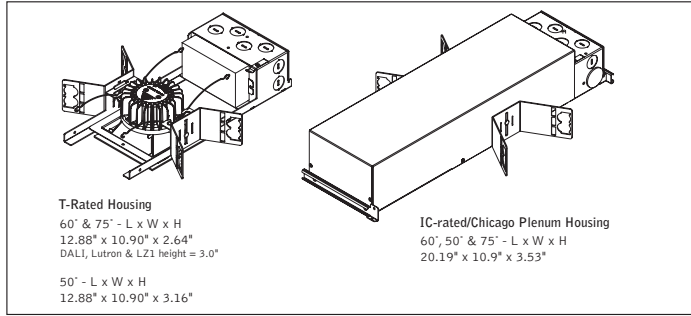


TYPE: R7-Page 13

fixture:

project:

STANDARD WHITE HOUSING DETAILS



3.5" SQUARE DOWNLIGHT OPTICS

Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread Spacing Criteria						
			NFL	FL1	FL2	WFL	VWFL	SWFL	
DNT	50°	Overlap	25° 0.42	34° 0.56	44° 0.70	52° 0.85	64° 0.97	-	
		Trimless	24° 0.41	34° 0.56	45° 0.70	58° 0.86	66° 0.99	-	
DNS	60°	Overlap	24° 0.41	34° 0.56	45° 0.70	59° 0.86	72° 1.01	-	
		Trimless	24° 0.40	34° 0.56	45° 0.70	60° 0.88	69° 1.07	-	
DSS	75°	Overlap	-	-	-	-	69° 0.99	92° 1.21	
		Trimless	-	-	-	-	72° 0.99	92° 1.26	

3.5" SQUARE DOWNLIGHT PERFORMANCE TABLES

Based on Overlap, Tall Cone, Wide Flood, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

STANDARD WHITE				
CCT	Lumen Output	Delivered Lumens	System Watts	LPW
3500K, 80CRI	700L	722	8	91
	900L	937	10	93
	1100L	1130	12	96
	1300L	1355	16	84
	1500L	1539	18	86
	1700L	1751	20	86
	1900L	1925	22	87
	2100L	2159	25	87

Compton college student housing

STANDARD WHITE HOUSING ORDERING

Housing Series	FLC33D	FLC33D
ID+ 3.5" Square Trim Type		
Square Die-Cast Overlap	SDO	
Square Die-Cast Trimless	SDT	
Color Options		
Standard White, 80 & 90 CRI	SW	
High 97 CRI	HC	
Lumen Output		
700 Lumen (Not available with Lutron or LFP)	700L	
900 Lumen (Not available with LFP)	900L	
1100 Lumen	1100L	
1300 Lumen	1300L	
1500 Lumen	1500L	
1700 Lumen	1700L	
1900 Lumen	1900L	
2100 Lumen	2100L	
Voltage		
120/277 Volt	UNV	
<small>(IC-rated housing: SW - 1700lm max., HC - 1500lm max. T-rated & TW housings: SW - 1100lm max., HC - 900lm max.)</small>		
120V	120	
277V	277	
Low Voltage	LV	
<small>(IC-rated housing: SW - 1700lm max., HC - 1500lm max. T-rated & TW housings: SW - 1100lm max., HC - 900lm max.)</small>		
Control System & Dimming Level		
0-10V <1% Dimming	LZ1	
0-10V - 1% Dimming	L11	
0-10V - 10% Dimming	LD1	
Low Voltage, PoE Compatible	LVN	
<small>(No driver. Not available with EMR. LV voltage only.)</small>		
Forward Phase (120V only)	LFP	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
Lutron Hi-Lume - Forward Phase - 1% Dimming (120V only)	LTE	
DALI <1% Dimming	DZ1	
DALI - 1% Dimming	D11	
Housing Type		
IC-Rated / Airtight	IC	
<small>(SW - 1700lm max., HC - 1500lm max. Not available with LTE.)</small>		
Thermally Protected, Non-IC / Airtight	T	
Thermally Protected, Non-IC Wood	TW	
<small>(Trimless only. Wood kit required.)</small>		
Factory Options		
Bar Hangers	BH	
Chicago Plenum	CP	
Emergency Battery - Remote test switch	EMR	
<small>(Overlap trim only. Not available with CP or IC-rated housing. Above ceiling access required.)</small>		
Outdoor Rated	OD	
<small>(LD1 driver and T-rated housing only. Not available with CP or EMR. See dimming performance table on page 5.)</small>		
TRIM & LED MODULE		
Aperture		LC33
3.5" Square Reflector	LC33	
Trim Type		
Square Die-Cast Overlap	SDO	
Square Die-Cast Trimless	SDT	
Color Options		
<small>(Trim & housing must match)</small>		
Standard White, 80 & 90 CRI	SW	
High 97 CRI	HC	
Lumen Output		
<small>(Trim & housing output must match)</small>		
700 Lumen	700L	
900 Lumen	900L	
1100 Lumen	1100L	
1300 Lumen	1300L	
1500 Lumen	1500L	
1700 Lumen	1700L	
1900 Lumen	1900L	
2100 Lumen	2100L	
Color Temperature		
<small>(Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K; 2700K, 80 CRI = 27K.)</small>		
2700K, 80/90/97+ CRI	_27K	
3000K, 80/90/97+ CRI	_30K	
3500K, 80/90/97+ CRI	_35K	
4000K, 80/90/97+ CRI	_40K	
Optic		
Tall Cone with 50° cut-off	DNT	
Short Cone with 60° cut-off	DNS	
Super Short Cone with Solite Lens 75° cut-off	DSS	
<small>(VWFL or SWFL only)</small>		
Distribution		
Narrow Flood	NFL	
Flood 1	FL1	
Flood 2	FL2	
Wide Flood	WFL	
Very Wide Flood	VWFL	
Super Wide Flood (DSS Optic only)	SWFL	
Finish		
Clear Diffuse	CD	
Warm Diffuse	WD	
Black	BK	
White	WH	
Optional Flange Finish		
<small>(Overlap CD & WD finish only. For matching finishes leave blank.)</small>		
Black Painted	BP	
White Painted	WP	
ACCESSORIES		
Trimless Wood Ceiling Installation Kit	LC33-WOOD-KIT	
<small>(One kit recommended per 10 downlights.)</small>		



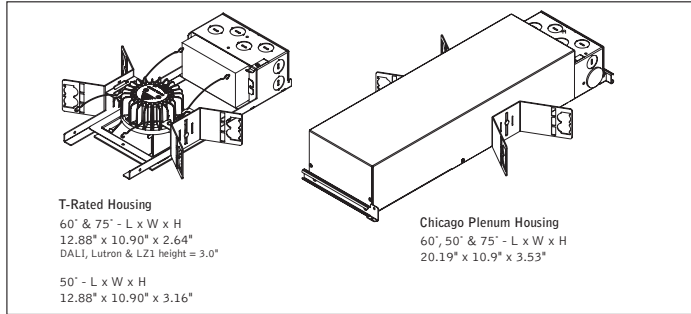
Options in red and orange qualify for 2-day and 5-day Quickship respectively, up to 200 pieces. If red and orange options make an ordering string, 5-day Quickship applies. See Quickship Guide for more details.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

TYPE: R7-Page 14

fixture: project:

WARM DIM HOUSING DETAILS



3.5" SQUARE DOWNLIGHT OPTICS

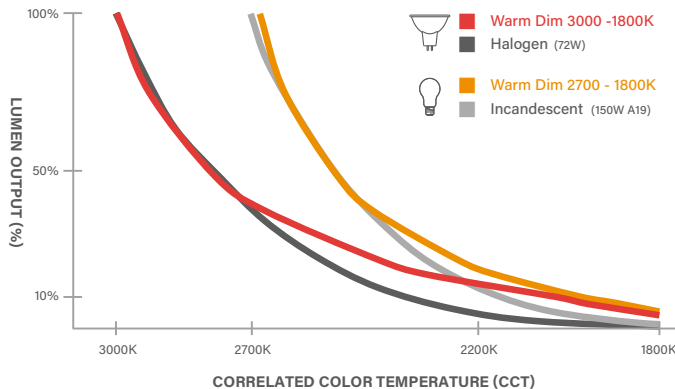
Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread Spacing Criteria						SWFL
			NFL	FL1	FL2	WFL	VWFL	SWFL	
DNT	50°	Overlap	25° 0.42	34° 0.56	44° 0.70	52° 0.85	64° 0.97	-	
		Trimless	24° 0.41	34° 0.56	45° 0.70	58° 0.86	66° 0.99	-	
DNS	60°	Overlap	24° 0.41	34° 0.56	45° 0.70	59° 0.86	72° 1.01	-	
		Trimless	24° 0.40	34° 0.56	45° 0.70	60° 0.88	69° 1.07	-	
DSS	75°	Overlap	-	-	-	-	69° 0.99	92° 1.21	
		Trimless	-	-	-	-	72° 0.99	92° 1.26	

3.5" SQUARE DOWNLIGHT PERFORMANCE TABLE

Based on Overlap, Tall Cone, Wide Flood, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

WARM DIM				
CCT Range	Lumen Output	Delivered Lumens	System Watts	LPW
2700 - 1800K	1500L	1455	25	58
3000 - 1800K	1500L	1485	25	59

The 3000K to 1800K and 2700K to 1800K ranges mimic the black body curves of halogen and incandescent light sources, respectively.



Compton college student housing



WARM DIM

HOUSING ORDERING

Housing Series	FLC33D
ID+ 3.5" Square	
Trim Type	
Square Die-Cast Overlap	SDO
Square Die-Cast Trimless	SDT
Color Options	WDM
Warm Dim	
Lumen Output	1500L
1500 Lumen	1500L
Voltage	
120V	120
277V	277

Control System & Dimming Level

0-10V <1% Dimming	LZ1
0-10V - 1% Dimming	L11
0-10V - 10% Dimming	LD1
Forward Phase (120V only)	LFP
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1
Lutron Hi-Lume - Forward Phase (120V only) - 1% Dimming	LTE
DALI <1% Dimming	DZ1
DALI - 1% Dimming	DT1

Housing Type

IC-Rated / Airtight	IC
Thermally Protected, Non-IC / Airtight	T
Thermally Protected, Non-IC Wood (Trimless only. Wood kit required)	TW

Factory Options

Bar Hangers	BH
Chicago Plenum	CP
Outdoor Rated	OD

(LDI driver and T-rated housing only. Not available with CP or EMR. See dimming performance table on page 5.)

TRIM & LED MODULE

Aperture	LC33
3.5" Square Reflector	LC33

Trim Type

Square Die-Cast Overlap	SDO
Square Die-Cast Trimless	SDT

Color Options

Warm Dim	WDM
----------	-----

Lumen Output

1500 Lumen	1500L
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Color Temperature

Warm Dim: 2700-1800K, 90+ CRI	92718W
Warm Dim: 3000-1800K, 90+ CRI	93018W

Optic

Tall Cone with 50° cut-off	DNT
Short Cone with 60° cut-off	DNS
Super Short Cone with Solite Lens 75° cut-off (VWFL or SWFL only)	DSS

Distribution

Narrow Flood	NFL
Flood 1	FL1
Flood 2	FL2
Wide Flood	WFL
Very Wide Flood	VWFL
Super Wide Flood (DSS Optic only)	SWFL

Finish

Clear Diffuse	CD
Warm Diffuse	WD
Black	BK
White	WH

Optional Flange Finish

(Overlap CD & WD finish only) (For matching finishes leave blank)	
Black Painted	BP
White Painted	WP

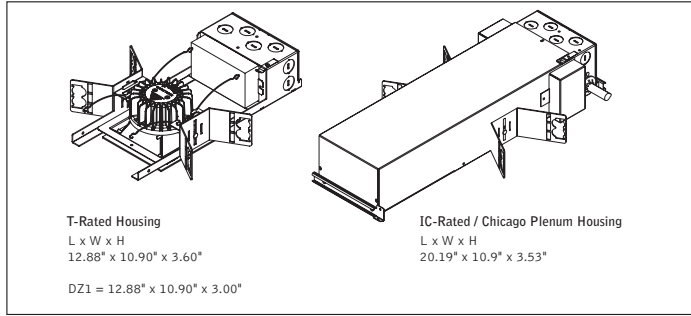
ACCESSORIES

Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights)	LC33- WOOD-KIT
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TYPE: R7-Page 15

fixture: project:

TUNABLE WHITE HOUSING DETAILS



3.5" SQUARE DOWNLIGHT OPTICS

Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread Spacing Criteria						
			NFL	FL1	FL2	WFL	VWFL	SWFL	
DNT	50°	Overlap	25° 0.42	34° 0.56	44° 0.70	52° 0.85	64° 0.97	-	
		Trimless	24° 0.41	34° 0.56	45° 0.70	58° 0.86	66° 0.99	-	
DNS	60°	Overlap	24° 0.41	34° 0.56	45° 0.70	59° 0.86	72° 1.01	-	
		Trimless	24° 0.40	34° 0.56	45° 0.70	60° 0.88	69° 1.07	-	
DSS	75°	Overlap	-	-	-	-	69° 0.99	92° 1.21	
		Trimless	-	-	-	-	72° 0.99	92° 1.26	

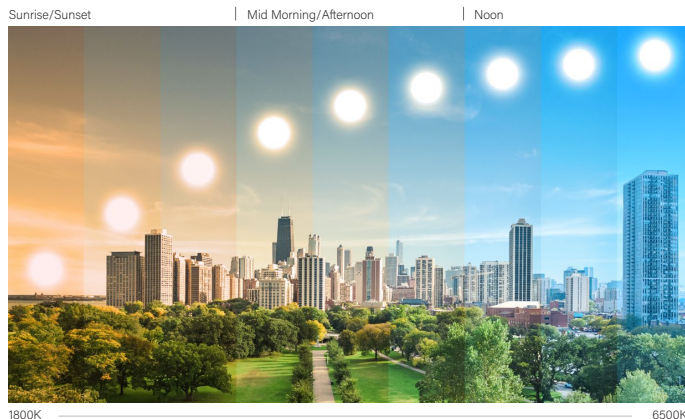
3.5" SQUARE DOWNLIGHT PERFORMANCE TABLES

Based on Overlap, Tall Cone, Wide Flood, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

TUNABLE WHITE				
CCT	Lumen Output	Delivered Lumens	System Watts	LPW
	700L	694	13	52
2700K (2700-5000K & 2700-6500K)	900L	902	17	54
	1100L	1112	21	53
	1300L	1307	24	53
1800K (1800-4000K)	700L	701	20	36
	900L	894	25	36

The Comfort (1800K-4000K), Preference (2700K-5000K), and Activity (2700K-6500K) ranges give specifiers the tools to enhance spaces, mood, and alertness.

DAYLIGHT RANGE



Focal Point LLC reserves the right to change specifications for product improvement without notification.

Compton college student housing



TUNABLE WHITE

HOUSING ORDERING

Housing Series ID+ 3.5" Square	FLC33D	<u>FLC33D</u>
Trim Type Square Die-Cast Overlap	SDO	_____
Square Die-Cast Trimless	SDT	_____
Color Options Tunable White: 1800-4000K (900L max. T-rated housings only)	1840T	_____
Tunable White: 2700-5000K	2750T	_____
Tunable White: 2700-6500K	2765T	_____
Lumen Output 700 Lumen	700L	_____
900 Lumen	900L	_____
1100 Lumen	1100L	_____
1300 Lumen	1300L	_____
Voltage 120/277 Volt (2705T & 2765T only. IC housing only.)	UNV	_____
120V	120	_____
277V	277	_____
Low Voltage (2705T & 2765T only. IC housing only.)	LV	_____

Control System & Dimming Level

0-10V <1% Dimming	LZ1	_____
0-10V <1% Dimming	LTZ	_____
DALI <1% Dimming (Requires 2 addresses, one for light intensity & one for color tuning)	DZ1	_____
Low Voltage, PoE Compatible (No driver. Not available with EMR. LV voltage only.)	LVN	_____

Housing Type IC-Rated / Airtight (700L only. 2750T or 2765T only.)	IC	_____
Thermally Protected, Non-IC / Airtight	T	_____
Thermally Protected, Non-IC Wood (Trimless only. Wood kit required.)	TW	_____

Factory Options

Bar Hangers	BH	_____
Chicago Plenum (2750T & 2765T: 1100L max. 1840T: 700L only.)	CP	_____

Emergency Battery - Remote test switch (Overlap trim only. Not available with CP or IC-rated housing. Above ceiling access required.)	EMR	_____
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TRIM & LED MODULE

Aperture 3.5" Square Reflector	LC33	<u>LC33</u>
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Trim Type Square Die-Cast Overlap	SDO	_____
Square Die-Cast Trimless	SDT	_____

Color Options (Trim & housing must match) Tunable White: 1800-4000K	1840T	_____
Tunable White: 2700-5000K	2750T	_____
Tunable White: 2700-6500K	2765T	_____

Lumen Output (Trim & housing must match) 700 Lumen	700L	_____
900 Lumen	900L	_____
1100 Lumen	1100L	_____
1300 Lumen	1300L	_____

Color Temperature Tunable White: 1800-4000K, 90+ CRI	91840T	_____
Tunable White: 2700-5000K, 90+ CRI	92750T	_____
Tunable White: 2700-6500K, 90+ CRI	92765T	_____

Optic Tall Cone with 50° cut-off	DNT	_____
Short Cone with 60° cut-off	DNS	_____
Super Short Cone with Solite Lens 75° cut-off (VWFL or SWFL only)	DSS	_____

Distribution Narrow Flood	NFL	_____
Flood 1	FL1	_____
Flood 2	FL2	_____
Wide Flood	WFL	_____
Very Wide Flood	VWFL	_____
Super Wide Flood (DSS Optic only)	SWFL	_____

Finish Clear Diffuse	CD	_____
Warm Diffuse	WD	_____
Black	BK	_____
White	WH	_____

Optional Flange Finish (Overlap CD & WD finish only) (For matching finishes leave blank)		_____
Black Painted	BP	_____
White Painted	WP	_____

ACCESSORIES

Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights)	LC33- WOOD-KIT	_____
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HOUSING SPECIFICATIONS

Construction

Thermally protected housing for new construction applications. Insulation to be kept 3" away from housing. Type IC inherently protected, suitable for direct contact with insulation. Restrictive airflow per ASTM-E283. Butterfly brackets allow mounting to 12" emt. Order bar hangers as an accessory. Die-cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) 12" pry outs. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 1.5" thickness. For thicker ceiling consult factory. Fixture will not exceed 5 lb. Trim is inherently airtight and may be used to obtain airtight rating when used with IC-rated or thermally protected, non-IC (T) housings.

Electrical

Choice of constant current dimming drivers. Power factor > .9 typical. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

Emergency

Above ceiling access required. Overlap trim only. Emergency output - 7W for 90 minutes. Maximum mounting height — Clear Diffuse & White: 22.5ft. Black & Warm Diffuse: 15.3ft.

Labels

UL and cUL Listed. Suitable for Dry, Damp or Wet Locations, indoor use only. Specify Outdoor rated (OD) for outdoor recessed ceiling applications.

Outdoor Rated (OD) Driver Dimming Performance table

Lumen Output	Minimum Dimming Level
700L	20%
900L	16%
1100L	13%
1300L	10%
1500L	10%
1700L	10%
1900L	10%
2100L	10%

Lumen Maintenance

Reported: L70 at >55,000 hours Calculated: L70 at 204,000 hours
 L90 at >55,000 hours L90 at 59,000 hours
 Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED System rated for operation in ambient environments up to 25°C. 5-year limited warranty. Fixture with Outdoor rated option must be installed in a covered ceiling and is warranted for operation in ambient environments between -20°C to +40°C.

TRIM & LED SPECIFICATIONS

LED System

Proprietary array incorporates premium LEDs on a robust platform. May be specified in 2700K, 3000K, 3500K or 4000K, Warm Dimming (2700K-1800K and 3000K-1800K), or Tunable White (1800K-4000K, 2700K-5000K and 2700K-6500K), CRI>80, >90 or 97. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. Color accuracy within 2 SDCM (Warm Dimming from 3-5 SDCM). Aluminum heat sink provides appropriate thermal management.

Aesthetics

Die-formed aluminum reflector ensures glare free optics. Torsion springs pull trim tight to the ceiling with no visible fasteners within the trim.

Optics

50-degree, 60-degree or 75-degree cut-off to light source and its image.

Color Lumen Multipliers

CRI	STANDARD WHITE CCT				WARM DIM CCT RANGES		TUNABLE WHITE CCT RANGES		
	2700	3000	3500	4000	2700-1800K	3000-1800K	1800-4000K	2700-5000K	2700-6500K
80+	0.92	0.98	1.00	1.01	-	-	-	-	-
90+	0.79	0.83	0.82	0.84	0.97	0.99	1.00	1.00	1.00
97	0.67	0.72	0.73	0.76	-	-	-	-	-

Distribution Lumen Multipliers

Trim Type	Optic	Distribution	Multiplier
Square Die-Cast Trimless [SDT]	Tall Cone with 50° cut-off [DNT]	Narrow Flood [NFL]	0.93
		Flood 1 [FL1]	1.00
		Flood 2 [FL2]	0.92
		Wide Flood [WFL]	1.13
		Very Wide Flood [VWFL]	0.90
	Short Cone with 60° cut-off [DNS]	Narrow Flood [NFL]	0.95
		Flood 1 [FL1]	1.03
		Flood 2 [FL2]	0.98
		Wide Flood [WFL]	0.96
		Very Wide Flood [VWFL]	1.24
Square Die-Cast Overlap [SDO]	Tall Cone with 50° cut-off [DNT]	Narrow Flood [NFL]	0.94
		Flood 1 [FL1]	1.00
		Flood 2 [FL2]	0.93
		Wide Flood [WFL]	1.03
		Very Wide Flood [VWFL]	0.86
	Short Cone with 60° cut-off [DNS]	Narrow Flood [NFL]	0.95
		Flood 1 [FL1]	1.02
		Flood 2 [FL2]	0.97
		Wide Flood [WFL]	0.94
		Very Wide Flood [VWFL]	0.98
Square Die-Cast Trimless [SDT]	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Very Wide Flood [VWFL]	1.07
		Super Wide Flood [SWFL]	1.02
Square Die-Cast Overlap [SDO]	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Very Wide Flood [VWFL]	1.03
		Super Wide Flood [SWFL]	0.98

Color Lumen Multipliers

Trim Type	Optic	Color	Multiplier
ALL	Tall Cone with 50° cut-off [DNT]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	1.01
		White [WH]	1.23
		Black [BK]	0.79
		Clear Diffuse [CD]	1.00
	Short Cone with 60° cut-off [DNS]	Warm Diffuse [WD]	0.89
		White [WH]	0.97
		Black [BK]	0.83
		Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.99
Super Short Cone with Solite Lens with 75° cut-off [DSS]	White [WH]	1.15	
	Black [BK]	0.88	

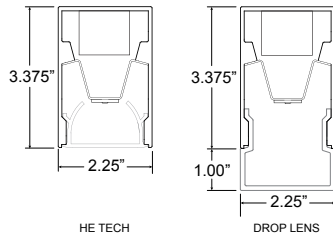
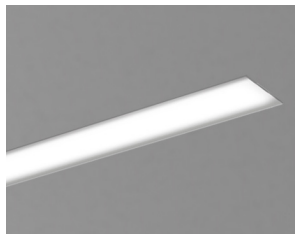
How To Use Lumen Multipliers

Formula:
 (Lumen Output Value) x (Color Temperature & CRI) x (Distribution) x (Color)

Example:
 LC33-SDO-SW-1100L-935K-DNS-FL1-WH
 (1100) x (0.81) x (1.02) x (0.97) ≈ 882lm (estimated delivered lumens)

Multiplier charts are provided to aid with estimation of lumen levels across options. Apply multipliers against ordered Lumen Output to estimate Delivered Lumens. An estimation should make use of all tables through consecutive application of three multipliers. Refer to IES files for most accurate photometric information.

ACL5 | SPECIFICATION GUIDE



ORDERING CODE

ACL5

PROJECT INFO

TYPE

DATE

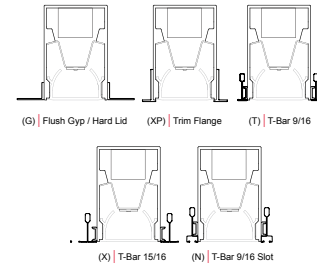
QUANTITY

PERFORMANCE AT 3500K

OUTPUT	OPTICS	NOMINAL		
		LUMEN OUPUT	INPUT WATTS	EFFICACY
LH <small>(high)</small>	HE Tech™	1075 lm/ft	9.8 W/ft	109 lm/W
	1" Drop Lens	843 lm/ft	9.8 W/ft	86 lm/W
	Flat Blade Louver*	982 lm/ft	9.8 W/ft	100 lm/W
LS <small>(standard)</small>	HE Tech™	572 lm/ft	4.9 W/ft	117 lm/W
	1" Drop Lens	443 lm/ft	4.9 W/ft	90 lm/W
	Flat Blade Louver*	517 lm/ft	4.9 W/ft	106 lm/W

Custom tuned output available from 25% to 125% of high output. Please consult factory for custom lumen output and wattage. *Flat Blade Louver calculated using the aluminum finish.

MOUNTING OPTIONS



SERIES	LENGTH OR PATTERN TYPE	INTERSECTION TYPE	OUTPUT	LED CCT	LED CRI	VOLTAGE
ACL5	_ Nominal Length* M_ Exact Length** PL_ "L" Shape*** PU_ "U" Shape*** PR_ Rectangle / Square*** CP_ Custom Pattern****	IT "T" Intersection IX "X" Intersection IY "Y" Intersection*	LS Standard Output LH High Output C_ Custom Output*	27 2700K 30 3000K 35 3500K 40 4000K TW Tunable White* DW Dim-to-warm*	_ 80+ CRI CRI 90+ CRI	U 120V - 277V 3 347V

*Specify in feet to the nearest foot (i.e. 12)
 **Specify in inches to then nearest 1/8 (i.e. M180.125)
 ***Specify in inches to the nearest 1/8 (See Pattern Guide for configurations)
 ****Contact Design Assist
 *Available with Flat Blade Louvers only in 90° degrees.
 ** Fully illuminated intersection available with HE Tech and Polycarbonate Flush WISP optics only. Contact Design Assist.
 *Available from 25% to 125% of LED High Output
 *Standard CCT range is 27-50K. Contact design assist for custom range
 Standard offering is 80+ CRI.
 *90+ CRI is not available with Tunable white and Dim to warm.

DIRECT OPTICS	MOUNTING	FINISH*	DIMMING	EMERGENCY
HE HE Tech™ DL 1" Drop Lens* LV Flat Blade Louvers** PFW Polycarbonate Flush WISP™ WW Direct Wall Wash WG Direct Wall Grazer BW Direct Batwing Wide	G Flush Gyp / Mud Over Flange RG 1" Regressed Gyp / Mud Over Flange XP 1/2" Trim Flange T T-Bar 9/16" X T-Bar 15/16" N T-Bar 9/16 Slot	T Titanium W White B Black O_ Other**	D Standard 0-10V dimming* D1 HiLume Ecosystems 1% (LDE1) D2 Phase dimming** D4 DALI dim-to-off (EldoLED) NAIR nLight @AIR (dim-to-off) NWIR nLight @Wired (dim-to-off) DO Dimming - Other	EC Emergency - circuited* E_ Emergency - battery**

* Not available in Wet Location.
 **Aluminum Standard. Not available in Wet Location.
 *Only on RG and XP mounting types
 **Specify RAL#
 * 1% Dimming standard unless otherwise specified.
 **Reference ERP-PHB driver for compatible dimmers.
 *Not available on fixtures < 4' length. Smallest EM circuit is 2ft. If entire fixture is on EM circuit, no need to call out EC in part number.
 **Factory-installed emergency battery pack. Specify desired quantity of batteries. Not available on fixtures < 4' length. Not available for 347V. See technical data for more information.

SENSORS	OPTIONS
OF Occupancy Sensor - Fixture PF Photocell / Daylight Sensor - Fixture OPF Occupancy & daylight Sensor - Fixture	M Multi-Circuit* K Natatorium Application** Q Wet Location*** CP Chicago Plenum MRI MRI

*Submit multi-circuiting requirements
 **Not available with aircraft cable, nor horizontal setoff bracket. See guide and contact Design Assist. Not compatible with Drop Lens, Flat Blade Louvers or Wall Grazer Optics.
 ***Client must specify power feed location. Not available with aircraft cable. Wet location suitable in full coverage and/or mullion mounted applications (direct to sky not recommended); not suitable for extreme weather applications. Refer to Wet Location brochure and contact Design Assist for more information. Not compatible with Drop Lens, Flat Blade Louvers optics.
 Sensor will be matched to dimming input.

ACL5 | PHOTOMETRY
LIGHT DISTRIBUTION

DISTRIBUTION

Direct Symmetric

OUTPUT

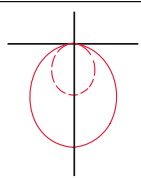
LH: High output - 9.8 W/ft
LS: Standard output - 4.9 W/ft
C: Custom tuned output - Contact Design Assist

PHOTOMETRIC DATA

DIRECT SYMMETRIC
LH - 4FT - 3500K - HE TECH

Lumens: 1075 lm/ft
Input watts: 9.8 W/ft
Efficacy: 109 lm/W

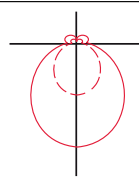
LH: _____
LS: - - - - -



DIRECT SYMMETRIC
LH - 4FT - 3500K - DROP LENS

Lumens: 843 lm/ft
Input watts: 9.8 W/ft
Efficacy: 86 lm/W

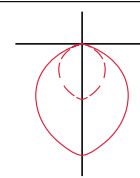
LH: _____
LS: - - - - -



DIRECT SYMMETRIC
LH - 4FT - 3500K - BLADE LOUVERS

Lumens: 982 lm/ft
Input watts: 9.8 W/ft
Efficacy: 100 lm/W

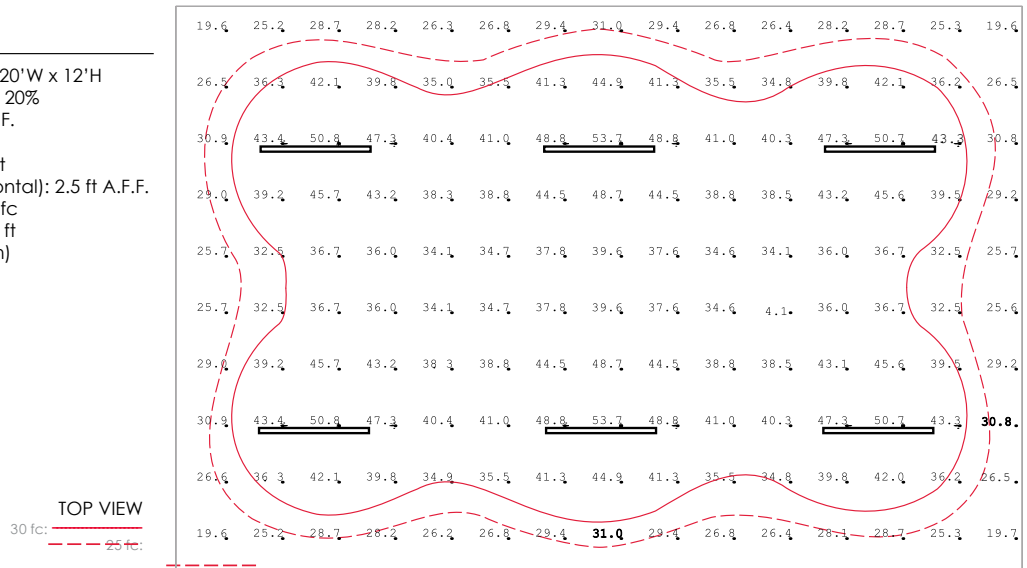
LH: _____
LS: - - - - -



SAMPLE INSTALLATION - WORKSPACE

LH DOWN - 3500K

Room dimensions: 30'L x 20'W x 12'H
Reflectance: 80% / 50% / 20%
Mounting height: 9 ft A.F.F.
Fixture length: 4 ft
Calculation grid: 2 ft x 2 ft
Calculation plane (horizontal): 2.5 ft A.F.F.
Average Illuminance: 36 fc
Fixture spacing: 10 ft x 10 ft
Uniformity: 1.9:1 (avg/min)



LIGHT LOSS FACTORS (LLF)

OUTPUT	CCT	CRI 80+			CRI 90+		
		OPTICS			OPTICS		
		HE Tech™	Drop Lens	Flat Blade Louver	HE Tech™	Drop Lens	Flat Blade Louver
LH (high)	4000k	926 lm/ft	756 lm/ft	655 lm/ft	815 lm/ft	665 lm/ft	576 lm/ft
	3500k	907 lm/ft	740 lm/ft	642 lm/ft	787 lm/ft	643 lm/ft	557 lm/ft
	3000k	870 lm/ft	710 lm/ft	615 lm/ft	750 lm/ft	612 lm/ft	531 lm/ft
	2700k	842 lm/ft	687 lm/ft	596 lm/ft	713 lm/ft	582 lm/ft	504 lm/ft
LS (standard)	4000k	495 lm/ft	404 lm/ft	350 lm/ft	436 lm/ft	356 lm/ft	308 lm/ft
	3500k	485 lm/ft	396 lm/ft	343 lm/ft	421 lm/ft	343 lm/ft	298 lm/ft
	3000k	465 lm/ft	380 lm/ft	329 lm/ft	401 lm/ft	327 lm/ft	284 lm/ft
	2700k	450 lm/ft	367 lm/ft	319 lm/ft	381 lm/ft	311 lm/ft	270 lm/ft

Factors above for high output (LH).
For standard output (LS) -50%.

ACL5 | PHOTOMETRY

LIGHT LOSS FACTORS (LLF)

OUTPUT	CCT	CRI 80+				CRI 90+			
		%	OPTICS			%	OPTICS		
			HE Tech™	Drop Lens	Flat Blade Louver		HE Tech™	Drop Lens	Flat Blade Louver
LH <small>(high)</small>	4000k	102.1%	1098 lm/ft	861 lm/ft	1003 lm/ft	90.2%	970 lm/ft	760 lm/ft	886 lm/ft
	3500k	100.0%	1075 lm/ft	843 lm/ft	982 lm/ft	87.3%	938 lm/ft	735 lm/ft	857 lm/ft
	3000k	96.2%	1034 lm/ft	811 lm/ft	945 lm/ft	82.4%	886 lm/ft	695 lm/ft	809 lm/ft
	2700k	92.6%	995 lm/ft	780 lm/ft	909 lm/ft	78.1%	840 lm/ft	659 lm/ft	767 lm/ft
LS <small>(standard)</small>	4000k	54.3%	584 lm/ft	453 lm/ft	528 lm/ft	48.0%	516 lm/ft	400 lm/ft	466 lm/ft
	3500k	53.2%	572 lm/ft	443 lm/ft	517 lm/ft	46.4%	499 lm/ft	387 lm/ft	451 lm/ft
	3000k	51.2%	550 lm/ft	427 lm/ft	497 lm/ft	43.8%	471 lm/ft	366 lm/ft	426 lm/ft
	2700k	49.2%	529 lm/ft	410 lm/ft	478 lm/ft	41.6%	447 lm/ft	347 lm/ft	404 lm/ft

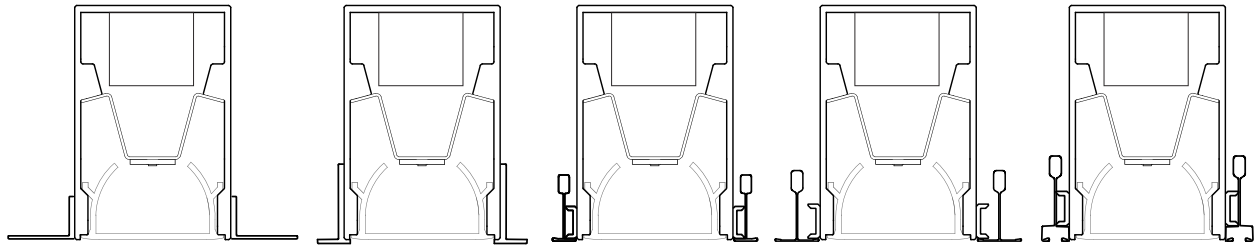
For standard output (LS) -50%.

TUNNABLE WHITE | LIGHT LOSS FACTORS (LLF)

OUTPUT	CCT	CRI 80+			
		%	OPTICS		
			HE Tech™	Drop Lens	Flat Blade Louver
LH <small>(High)</small>	5000k	100%	890 lm/ft	727 lm/ft	847 lm/ft
	2700k	93.6%	833 lm/ft	667 lm/ft	776 lm/ft
LS <small>(Standard)</small>	5000k	100%	469 lm/ft	351 lm/ft	446 lm/ft
	2700k	93.6%	439 lm/ft	383 lm/ft	409 lm/ft

For standard output (LS) -50%. Values are applicable for Tunable White and Dim-to-warm only.

ACL5 | MOUNTING



(G) | Flush Gyp/Hard Lid

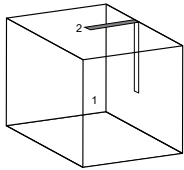
(XP) | Trim Flange

(T) | T-bar 9/16"

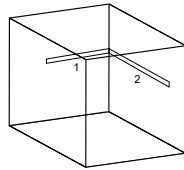
(X) | T-bar 15/16"

(N) | T-bar 9/16" Slot

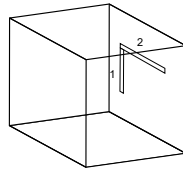
STANDARD PATTERNS



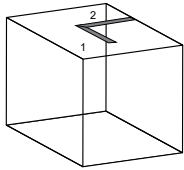
(PLCW) | Wall to ceiling



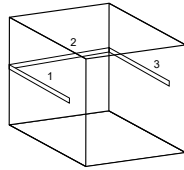
(PLWW) | Wall to wall



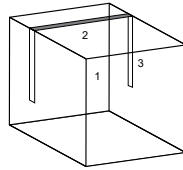
(PLW) | Wall only



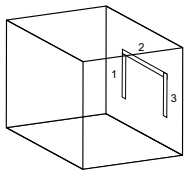
(PLC) | Ceiling only



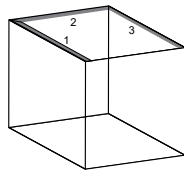
(PUWW) | Wall to wall to wall



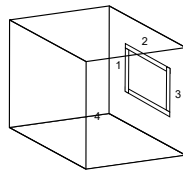
(PUCW) | Wall to ceiling to wall



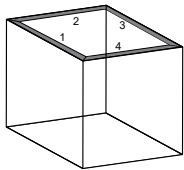
(PUW) | Wall only



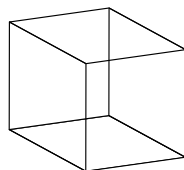
(PUC) | Ceiling only



(PRW) | Wall only

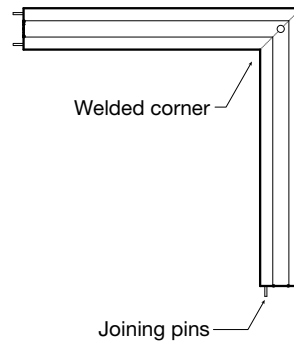


(PRC) | Ceiling only



(CP) | Custom pattern

CORNER DETAIL



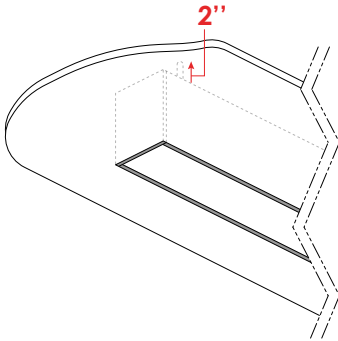
Welded corner

Joining pins

ACL5 | NLIGHT

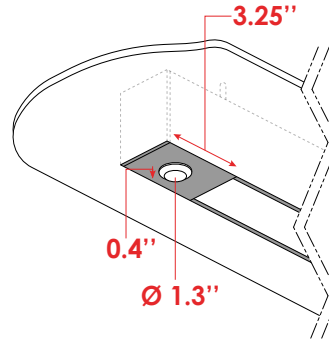
NLIGHT® DIMENSIONS

AIR : r10 Recessed



*Fixture mounted sensors and filler panel for nLight AIR only.

AIR : res7 Recessed



*Fixture mounted sensors and filler panel for nLight AIR only.

ACL5 | TECHNICAL DATA

LINEAR DIMENSIONS

Nominal or exact lengths to the nearest 1/8th of an inch available as individual fixtures or joined to create continuous row lengths, minimum fixture lengths is 12 inches. Patterns comprised of 90 degree precisely welded fully illuminated corners provide a multitude of geometric options and architectural transitions.

Custom - Contact [Design Assist](#) for modifications to product not detailed within specification sheets.

OPTICS

The Tech™ patented high efficacy extruded diffuse acrylic lens technology with integrated opaque white reflector delivers superior lumen output with optimal uniform lens surface luminance for direct distribution.

Flat Blade Louvers are used to cut down on glare and better control the light source on ACL5. This option includes a linear film diffuser (inserted between the louvers and the LEDs), that enhances glare control. The louvers standard finish is aluminum. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

Drop Lens is a light diffuser option for ACL5 that turns the luminaire into a decorative graphical statement. The diffuser drops down from the luminaire's main body of 1" and sits flush with the metal end caps. Once lit, the drop lens glows vividly and offers a wider diffusion pattern.

Perimeter fill - Wall wash, Wall grazer and Batwing wide for direct distributions are film optics that refract light along with an HE Tech™ extruded diffuse acrylic lens with integrated opaque white reflector.

LED LIGHT SOURCE

Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM79 and LM-80; L70>60,000hr; operated at reduced output for high efficacy and lumen maintenance. 2700K, 3000K, 3500K, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Low, Standard, and High outputs. Refer to photometry for delivered lumens. Custom output available in the range 25% to 125% of high output, contact factory.

LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hrs with ambient operating temperature range of -20°C to 50°C, maximum case temperature of 80°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency. Other available drivers include Lutron Hi-lume 1% EcoSystem LED Driver (LDE1) with Soft On, Fade to Black dimming technology; and DALI protocol drivers. Other Lutron and specialty drivers available, contact factory.

EMERGENCY

This luminaire is provided with a factory installed LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This fixture integrated unit contains long-life Ni-Cad recyclable battery, 24 hour charger, and converter circuit. Test switch and charge indicator provided. Test button to be remote located within 3 feet of the luminaire, by others in accordance with local code. Emergency mode provides constant power to a nominal 12W LED load for a period of 90 minutes, delivering 1200 lumens of unwavering illumination throughout the full 90 minute emergency duration. Unless otherwise specified, the emergency battery pack will illuminate one 2 foot end in the direct portion of the fixture.

Emergency circuiting provided as a separate circuit from normal power circuit according to NEC requirements, specify circuit length and location.

CONTROLS

Low-profile integral occupancy and daylight sensors are available to deliver high performance control in an architecturally pleasing package.

Integrated nLight® for system networking wired and wireless:

NLIGHT® AIR WIRELESS

The integrated API smart sensor is part of each luminaire in the nLight® AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application. Optionally you can order nLight® AIR less sensors for compatibility with an nLight Air wireless system. The rIO, rES7, rMSOD, and rCMS models are available for integration.

CONTROLS AND SYSTEM NETWORKING OPTIONS

For wired networking via Cat-5e, choose an nLight® wired module. The nIO EZ PH, nIO EZDL CCT, nES7 and nCM are available for integration.

nLight enabled, remote mounted controls provided by others. Please contact an Acuity controls representative for more information.

MOUNTING

Common recessed mounting options available. Contact factory for applications regarding modified recessed mounting conditions.

Flush Gypsum Flange: Raw aluminum flange is attached to blocking (by others), then mudded over and/or painted by installing contractor to provide a "flangeless" fixture appearance in recessed ceiling/wall applications.

Trim Flange: 1/2" wide visible powder coated flange, specify finish requirement. Fixture is mounted to structure using threaded rod (by others) or ceiling tie wires (provided). Use of a-clamp™ secures fixture trim and housing around ceiling/wall material. Use for any gypsum or hard ceiling/wall that requires a minimal flange covering the ceiling cut-out edge.

ACL5 | TECHNICAL DATA

T-Bar/Grid Ceiling: 9/16" or 15/16" standard T-Bar or 9/16" slot ceiling.
Raw aluminum flange sits on T-Bar and is concealed from view.

STRUCTURE

Robust, high quality 60% recycled aluminum extruded housing. 0.040" thick aluminum internal gear trays. Flat or flanged aluminum end caps. Aluminum joiner brackets. 4 lbs/ft approximate fixture weight.

FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

LISTING

IC Rated for IC, Airtight, CCEA Ceilings. CCEA mark applied for Chicago Plenum applications. UL/CUL rated for Damp Locations. Tested in accordance with UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

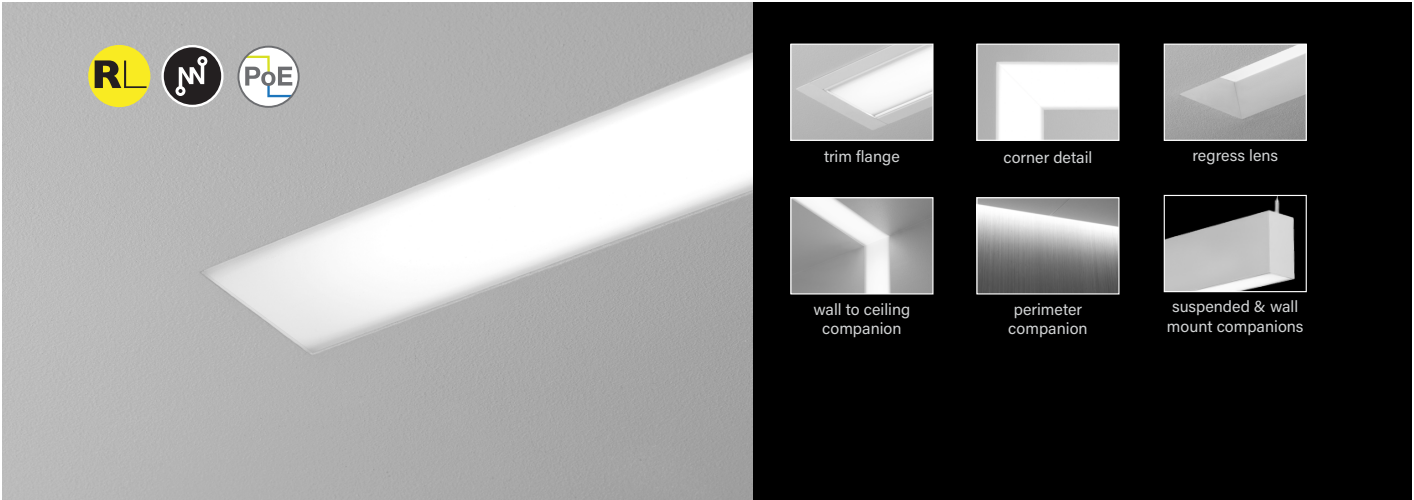
UL Wet location label available. Complies with UL definition of wet locations to prevent accumulation of water on live parts, electrical components, or conductor not identified for use in contact with water through the provision of weep holes or through the lens. Waterproof connectors to be provided by others. Installing contractor responsible for properly sealing and waterproofing all field drilled mounting and power feed locations.

WARRANTY

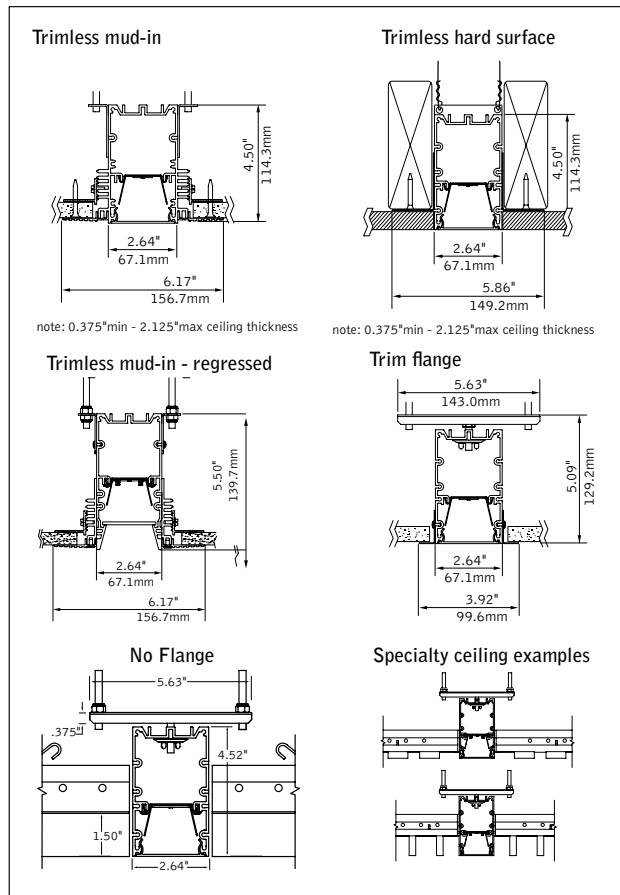
Please refer to the full terms and conditions on our website:
<https://www.alights.com/downloads/warranty/>

Seem[®] 2 Drywall/Hard/Specialty Ceiling

LED



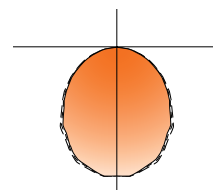
DIMENSIONAL DATA



FEATURES

- Narrow extruded aluminum 2.5" aperture recessed slot LED.
- Integrates with ceiling or wall in a variety of mounting styles for a clean, unobtrusive aesthetic.
- Individual units and continuous runs in 1" increments.
- Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.
- LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.
- Connected Solutions: Integrates with wired and wireless building lighting control systems.
- PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

PERFORMANCE



PRODUCT OVERVIEW

Lumen Output: 500-2500lm

Wattage: 7-43W

LPW: 71-89

SDCM: 3

4' Flush Lens
 Nominal output:
 250 Lumens per foot

Delivered Lumens: 1000lm

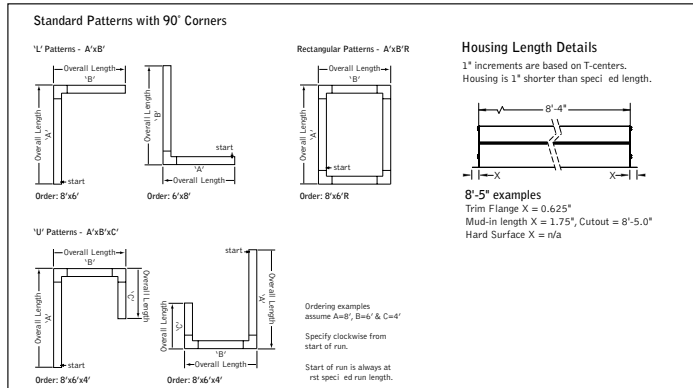
Total System Watts: 16W

Photometric performance is measured in accordance with IESNA LM-79.
 Visit focalpointlights.com for complete photometric data.

fixture:

project:

DETAILS



SPECIFICATIONS

LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 2700K, 3000K, 3500K or 4000K with CRI>80 or CRI>90, 3 SDCM. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps. Housing for new construction applications. 2' unit: 5.1 lbs., 3' unit: 7.6 lbs., 4' unit: 10.1 lbs., 5' unit: 12.6 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .07" thick with satin finish, up to 8' continuous.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Power factor > .9. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs require an independent PoE node and power feed for each luminaire section.

Emergency

Emergency Battery output - 10 watts for 90 minutes. Maximum mounting height: 17.9ft. Emergency Circuit with Connected Solutions (LMFS1, LMFS1, ENL1, WLXP) shipped standard with leads to connect UL924 compliant device, by others.

Labels

UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only.

Finish

Polyester powder coat applied over a multi-stage pre-treatment.

Lumen Maintenance

Reported: L70 at >61,000 hours Calculated: L70 at 270,000 hours
 L90 at >61,000 hours L90 at 73,000 hours

(Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.)

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

4' PERFORMANCE CHART

Lumen Output	Delivered Lumens	Tested System Watts	Lumens Per Watt (LPW)		
			FL	SR	SRXP
125LF	500	7	89	72	84
250LF	1000	16	88	72	83
375LF	1500	26	88	71	84
625LF	2500	43	87	72	83

Based on 3500K, 4' length. Lumen multipliers:
 Delivered lumens may vary +/- 5%. Actual wattage may vary +/- 5%

Focal Point LLC reserves the right to change specifications for product improvement without notification.

ORDERING

Luminaire Series		FSM2L
Seem 2 LED	FSM2L	
Shielding		
Flush Satin Lens	FL	
Regress Lens (Housing height 5.5". Ceiling applications only)	SR	
Regress High Performance Lens (Housing height 5.5". Ceiling applications only)	SRXP	
Lumen Output		
125 Lumens per foot (LD1, L11 & D11 driver only, 4' minimum. Not available on patterns.)	125LF	
250 Lumens per foot (Not available with LHI, 4' minimum with D11 & FL shielding.)	250LF	
375 Lumens per foot (4' minimum with LHI or D11 with FL shielding.)	375LF	
625 Lumens per foot (3' minimum with LHI)	625LF	
Color Temperature		
2700K, 80+ CRI or 90+ CRI	27K or 927K	
3000K, 80+ CRI or 90+ CRI	30K or 930K	
3500K, 80+ CRI or 90+ CRI	35K or 935K	
4000K, 80+ CRI or 90+ CRI	40K or 940K	
Circuits & Zones		
1 Circuit, non-emergency	1C	
Consult Ordering Guide on page 3 for multiple circuiting and zoning options	C_Z_DL	
Voltage		
120/277 UNV Volt	UNV	
Low voltage	LV	
Control System & Dimming Level		
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Low Voltage, PoE compatible (No driver. Not available with EM or EC. LV Voltage only)	LVN	
Lutron Hi-Lume EcoSystem (LDE1) - 4 % Dimming	LH1	
DALI 1% Dimming* *(Not available with patterns.)	D11	
Wattstopper Fixture Sensor* Low Density - 1% Dimming See sensor layout guide	LMFS1	
Wattstopper Fixture Sensor* High Density - 1% Dimming See sensor layout guide	LMFS1	
Enlighted Smart Sensor - 1% Dimming* See sensor layout guide	ENL1	
WaveLinX Pro - 1% Dimming* See sensor layout guide	WLXP	
**3' minimum length with ECD, EM - 7' minimum, XFL, XF2 and XFF only)		
Ceiling Configuration		
No Flange for specialty ceilings (Ex. slat, panel, cloud systems.)	NF	
Trim Flange Drywall	TF	
Trim Flange Wood	TFW	
Mud-in Trimless, pre-set for 1/2" Drywall	XF1	
Mud-in Trimless, pre-set for 5/8" Drywall	XF2	
Mud-in Trimless, set thickness in field (Mounting equipment assembled in field)	XFF	
Non-Drywall Hard Surface	XFN	
Hard Surface, Wood	XFW	
Factory Options		
(See Ordering Guide for ordering details for DC, EC, EM & ECD.)		
Chicago Plenum	CP	
(Not available with Flex Whip)		
Daylight Circuit	_DC	
Emergency Circuit	_EC	
Emergency Battery Pack*	_EM	
Emergency Control Device* *4' minimum, 6' minimum with patterns. 120/277 Volt only. Not available at corners.)	_ECD	
6' New York City Flex Whip (120V)	FNY1	
6' New York City Flex Whip (277V)	FNY2	
6' Flex Whip	FW	
Finish		WH
Matte White Housing	WH	
Luminaire Length		
Specify luminaire/row length in 1" increments (2' minimum. Housing length is 1" shorter than specified. Leave blank for patterns.)	_ft_in	ft in
Pattern Options		
(4' minimum length)		
'L' pattern	A' x B'	
'U' pattern	A' x B' x C'	
Rectangular pattern	A' x B' R	
(Consult factory for other pattern options)		




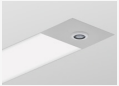

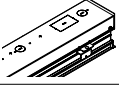



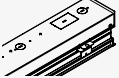


Options in orange qualify for the Quickship program. 1000' total, 48' maximum per pattern section. Refer to Quickship Guide for complete details including EM/EC options.



Seem[®] 2 LED

Focal Point provides flexibility in meeting the needs of each project by integrating with several building lighting control systems. A variety of sensors, drivers and other components can be specified that allow the luminaires to communicate with wired and wireless networks. All zoning can be digitally reconfigured through the application software. Daylight harvesting, occupancy sensing, integration with HVAC systems, and individual controls enable the monitoring and modulating of light levels and temperature in order to save energy, reduce costs and maximize occupants' comfort. All Connected Solutions luminaires require a compatible building control system.†

Connected Solution	Ordering Code	Model #**	Protocol	Compatible Networks*	Occupancy & Daylight	Temperature Reporting	Communication to Luminaire	Drivers
  WATTSTOPPER®	LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Enabled	No	Wireless	Advance by Signify
	LMFSD	LMFS-601						Optotronic by eldoLED (Dexal)
 	WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Enabled	No	Wireless (WaveLinx Pro Wireless Area Controller)	Advance by Signify
 	D11	Specified Driver	DALI	Crestron Züm Wireless & SpaceBuilder	Enabled	No	Wired	eldoLED ECOdrive
 	ENL1	SU-5E-IOT	Enlighted RF	Enlighted	Integrated	Yes	Wireless	Advance by Signify
 	LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	No	Wired	Lutron Hi-Lume

*Not all compatible networks may be listed. **For performance data and additional control system details please visit the connected solutions manufacturer websites. Primary drivers are listed in bold. †To specify a particular driver please consult factory. ‡Controls systems supplied by others.

Ordering Guide



Direct Only Linear Circuitry, Zones & Factory Options

HOW TO USE THIS GUIDE

Fill out the worksheet on the following page to specify your requirements for circuitry, zones, and factory options.

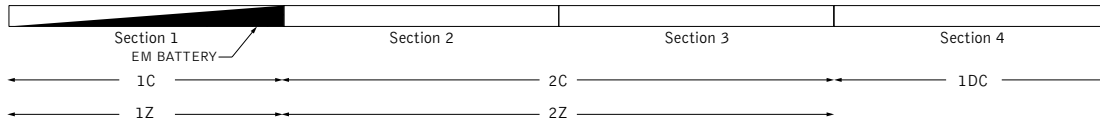
Refer to the run chart for standard run configurations, consult factory for custom configurations.

Complete the Totals / Ordering Codes at the bottom of the worksheet and add to your ordering logic on the cut sheet.

Submit the worksheet along with your order.

TOTAL RUN LENGTH: 32ft		JOB NAME:			FIXTURE TYPE:			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	SEPARATE ELECTRICAL FEEDS			EM
		DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD				
1	8	1C	1Z					1EM
2	8	2C	2Z					
3	8	2C	2Z					
4	8				1DC			
Totals / Ordering Codes		2C	2Z		1DC			1EM

ORDERING: FSM4L-FL-625LF-35K- **2C2Z** -UNV-LD1-G2- **1DC-1EM** -WH-32ft



KEY	
C = Switching Circuit Switched Hot / Shared Neutral	DC = Daylight Circuit Switched Hot / Separate Neutral
Z = Dimming Zone Dimming Control Wires	EC = Emergency Circuit Switched Hot / Separate Neutral
DL = Daylight Zone Daylight Dimming Control Wires	EM = Emergency Battery Unswitched Hot / Shared Neutral
	ECD = Emergency Control Device Unswitched Hot / Separate Neutral

DEFAULTS

- Zones and Factory Options illuminate entire sections from 4' to 8' in length.
- One shared or isolated circuit and zone required per housing section.
- Limit of one EM or ECD per housing section.
- Additional electrical feed required for applications greater than three shared circuits and zones.
- Each DC, EC and ECD require an additional electrical feed.
- ECD not available in the same housing section as EC.
- Longer lead times and additional pricing may apply for custom run configurations.

CUSTOM LENGTHS

- If partial illumination of emergency or daylight section is required, indicate in ordering guide and add "partial illumination" in Order Notes. Drawing required.
- Engineering validation required, longer lead times may apply.

Ordering Guide Worksheet

Linear Circuitry, Zones & Factory Options



TOTAL RUN LENGTH: _____		JOB NAME: _____			FIXTURE TYPE: _____			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	EM
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Totals / Ordering Codes								

WORKSHEET

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

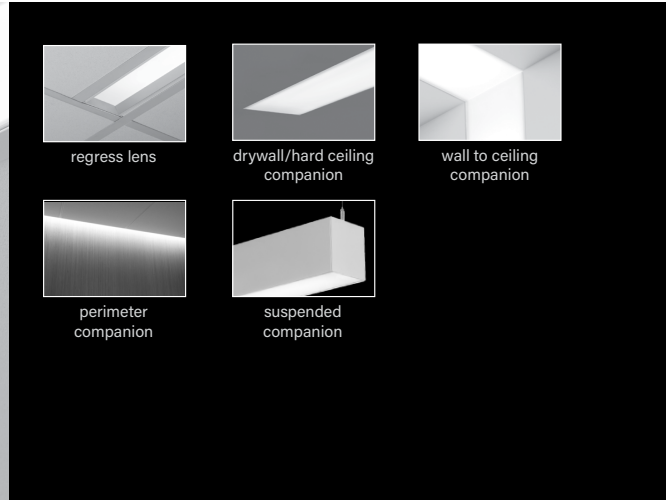
RUN CHART

Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths
9	5 + 4	21	8 + 8 + 5	33	8 + 8 + 8 + 5 + 4	45	8 + 8 + 8 + 8 + 8 + 5
10	6 + 4	22	8 + 8 + 6	34	8 + 8 + 8 + 6 + 4	46	8 + 8 + 8 + 8 + 8 + 6
11	7 + 4	23	8 + 8 + 7	35	8 + 8 + 8 + 7 + 4	47	8 + 8 + 8 + 8 + 8 + 7
12	8 + 4	24	8 + 8 + 8	36	8 + 8 + 8 + 8 + 4	48	8 + 8 + 8 + 8 + 8 + 8
13	8 + 5	25	8 + 8 + 5 + 4	37	8 + 8 + 8 + 8 + 5		
14	8 + 6	26	8 + 8 + 6 + 4	38	8 + 8 + 8 + 8 + 6		
15	8 + 7	27	8 + 8 + 7 + 4	39	8 + 8 + 8 + 8 + 7		
16	8 + 8	28	8 + 8 + 8 + 4	40	8 + 8 + 8 + 8 + 8		
17	8 + 5 + 4	29	8 + 8 + 8 + 5	41	8 + 8 + 8 + 8 + 5 + 4		
18	8 + 6 + 4	30	8 + 8 + 8 + 6	42	8 + 8 + 8 + 8 + 6 + 4		
19	8 + 7 + 4	31	8 + 8 + 8 + 7	43	8 + 8 + 8 + 8 + 7 + 4		
20	8 + 8 + 4	32	8 + 8 + 8 + 8	44	8 + 8 + 8 + 8 + 8 + 4		

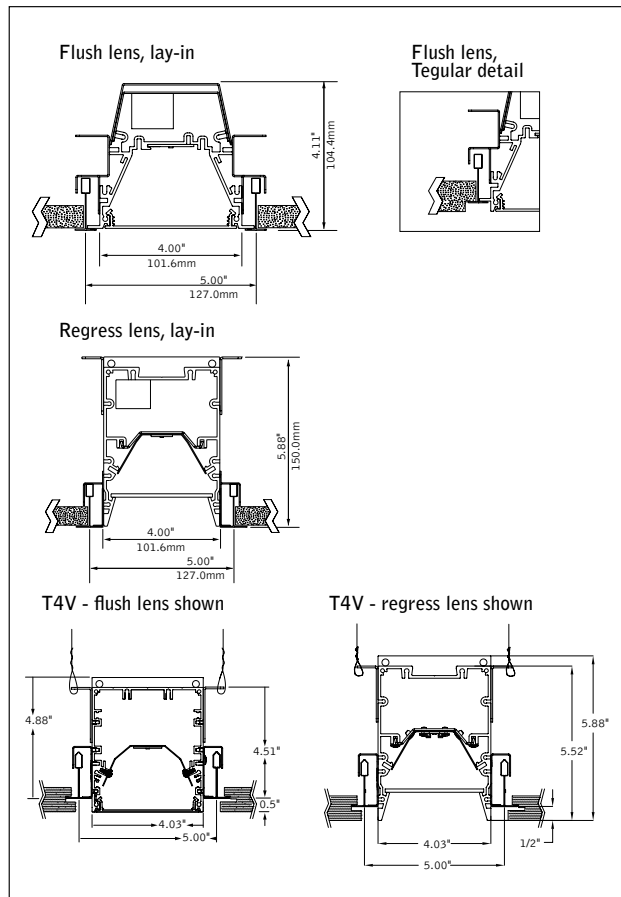
Standard run configurations, consult factory for custom configurations.

Seem[®] 4 Grid Ceiling

LED



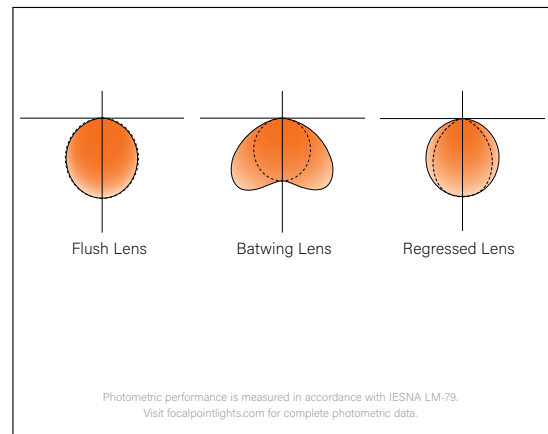
DIMENSIONAL DATA



FEATURES

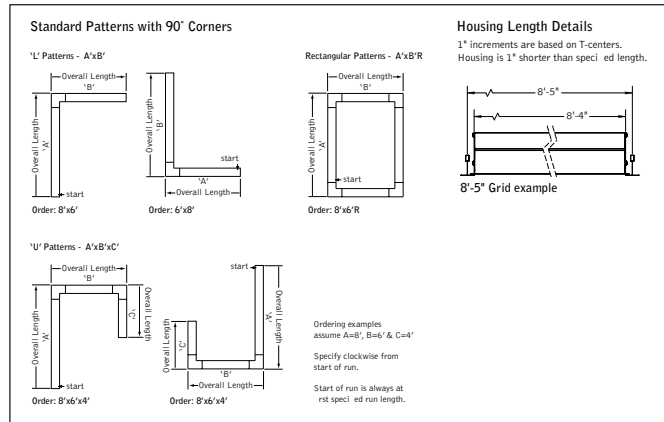
- 4" aperture recessed slot LED integrates with grid ceilings for a clean, unobtrusive aesthetic.
- Individual units and continuous runs in 1" increments.
- Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.
- LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.
- Connected Solutions: Integrates with wired and wireless building lighting control systems.
- PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

DISTRIBUTIONS



fixture: project:

DETAILS



SPECIFICATIONS

LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 2700K, 3000K, 3500K or 4000K with CRI>80, 3 SDCM. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules are replaceable from below. Flush lens driver access from above. Regress lens driver access from below.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps. Steel driver compartment, flush lens only. Flush lens weights: 4' unit: 11 lbs., 8' unit: 22 lbs. Regress lens weights: 4' unit: 20 lbs., 8' unit: 40 lbs.

Optic

Extruded acrylic lens .085" thick with satin finish, up to 8' continuous. Regress lens .118" thick acrylic lay-in lens and 22 Ga. reflector finished in High Reflectance White powder coat.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Power factor >.9. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs require an independent PoE node and power feed for each luminaire section.

Emergency

Emergency Battery output - 10 watts for 90 minutes. Maximum mounting height: 19.2ft. Emergency Circuit with Connected Solutions (DLM1, LMFS1, LMFS2, NLT1, ENL1, CLM1, NXE1, WLXP) shipped standard with leads to connect UL924 compliant device, by others.

Labels

UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only.

Finish

Polyester powder coat applied over a multi-stage pre-treatment.

Lumen Maintenance

Reported: L70 > 61000 hours Calculated: L70 at > 480,000 hours
L90 > 61,000 hours L90 at > 128,000 hours
Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

4' PERFORMANCE CHART

See page 3.



Options in orange qualify for the Quickship program. 1000' total. 48' maximum per pattern section. Refer to Quickship Guide for complete details including EM/EC options.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

ORDERING

Luminaire Series

- Seem 4 LED FSM4L
- Shielding
- Batwing Lens BW
- Flush Satin Lens FL
- Regress Lens SR
- Regress High Performance Lens SRXP

Lumen Output

- 275 Lumens per foot (Not available with LHT) 275LF
- 375 Lumens per foot (Not available with LHT) 375LF
- 625 Lumens per foot (BW, FL & SR 3' minimum with LHT, SRXP 4' minimum with LHT. Patterns not available with LHT) 625LF
- 875 Lumens per foot (SR & SRXP 3' minimum with LHT, SR & SRXP with LHT not available on patterns.) 875LF
- 1000 Lumens per foot 1000LF
- 1125 Lumens per foot 1125LF
- 1250 Lumens per foot 1250LF

Color Temperature

- 2700K, 80+ CRI or 90+ CRI 27K or 927K
- 3000K, 80+ CRI or 90+ CRI 30K or 930K
- 3500K, 80+ CRI or 90+ CRI 35K or 935K
- 4000K, 80+ CRI or 90+ CRI 40K or 940K

Circuits & Zones

- 1 Circuit, non-emergency 1C
- Consult Ordering Guide on page 5 for multiple circuiting and zoning options _C_Z_DL

Voltage

- 120/277 UNV Volt UNV
- Low Voltage LV

Control System & Dimming Level

- 0-10V - 10% Dimming LD1
- 0-10V - 1% Dimming L11
- Low Voltage, PoE compatible (No driver. Not available with EM or EC. LV Voltage only) LVN
- Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming LH1
- DALI 1% Dimming D11
- Wattstopper DLM - 1% Dimming** (Not available with CP) DLM1
- Wattstopper Fixture Sensor** LMFS1
- Low Density - 1% Dimming (See sensor layout guide) LMFS2
- Wattstopper Fixture Sensor** High Density - 1% Dimming (See sensor layout guide) LMFS3
- Acuity nLight - 1% Dimming** (Not available with CP) NLT1
- Enlighted Smart Sensor - 1% Dimming** (See sensor layout guide) ENL1
- Encelium CLM Connected Lighting Module -** 1% Dimming CLM1
- Current NX Enabled - 1% Dimming** (Not available with CP) NXE1
- WaveLinX Pro - 1% Dimming** (See sensor layout guide) WLXP

** (3' minimum length, with ECD/EM - 7' minimum.)

Ceiling Configuration

- Std. 15/16" Lay-in or Std. 15/16" Tegular G1 or T1
- Std. 9/16" Lay-in or Std. 9/16" Tegular G2 or T2
- 9/16" Slot-tee Tegular G3
- Tall 15/16" Lay-in or Tall 15/16" Tegular G4 or T4
- Tall 15/16" Tegular for specialty ceilings (0.5' drop) T4V
- Tall 9/16" Lay-in or Tall 9/16" Tegular (0.5' drop) G5 or T5
- Node 9/16" Tegular T6

Factory Options

- (See Ordering Guide on page 5 for ordering details for DC, EC, EM & ECD.)
- Chicago Plenum CP
- (Not available with Flex Whip)
- Daylight Circuit _DC
- Emergency Circuit _EC
- Emergency Battery Pack† _EM
- Emergency Control Device‡ _ECD

† (4' minimum, 6' minimum with patterns. Not available at corners. 120/277 Volt only)

6' New York City Flex Whip (120V) FNY1

6' New York City Flex Whip (277V) FNY2

6' Flex Whip FW

Finish WH

Matte White Housing WH

Luminaire Length ft in

Specify luminaire/row length in 1" increments



(2' minimum, lengths are nominal 1" increments based on T-centers. Housing length is 1" shorter than specified. Leave blank for patterns. Smaller increments available, consult factory. Individual units cannot be joined in the field.)

Pattern Options

- (4' minimum length)
- 'L' pattern A' x B'
- 'U' pattern A' x B' x C'
- Rectangular pattern A' x B' R



(Consult factory for other pattern options)

4' PERFORMANCE CHART

Lumens Output	Delivered Lumens	Tested System Watts	LPW	
			 BW	 FL
275	1100	10	111	108
375	1500	13	121	119
625	2500	22	117	115
875	3500	32	116	114
1000	4000	37	115	112
1125	4500	41	113	110
1250	5000	46	112	110

Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers:
Lumen output may vary +/- 5% Actual wattage may vary +/- 5%

4' PERFORMANCE CHART - REGRESS

Lumens Output	Delivered Lumens	Tested System Watts	LPW	
			 SR	 SRXP
275	1100	12	79	98
375	1500	16	84	109
625	2500	26	84	110
875	3500	39	80	105
1000	4000	46	77	101
1125	4500	53	76	101
1250	5000	59	75	99

Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers:
Lumen output may vary +/- 5% Actual wattage may vary +/- 5%



Seem® 4 LED

Focal Point provides flexibility in meeting the needs of each project by integrating with several building lighting control systems. A variety of sensors, drivers and other components can be specified that allow the luminaires to communicate with wired and wireless networks. All zoning can be digitally reconfigured through the application software. Daylight harvesting, occupancy sensing, integration with HVAC systems, and individual controls enable the monitoring and modulating of light levels and temperature in order to save energy, reduce costs and maximize occupants' comfort. All Connected Solutions luminaires require a compatible building control system.†

Connected Solution	Ordering Code	Model #**	Protocol	Compatible Networks*	Occupancy & Daylight	Temperature Reporting	Communication to Luminaire	Drivers
legrand WATTSTOPPER®	DLM1	LMFC-011	DLM	DLM	Enabled	No	Wired 	Advance by Signify , Optotronic by eldoLED
	LMFS1 LMFSD	LMFS-601 & LMFI-111 LMFS-601	DLM Wireless	DLM	Enabled	No	Wireless	Advance by Signify Optotronic by eldoLED (Dexal)
COOPER Lighting Solutions	WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Enabled	No	Wireless (WaveLinx Pro Wireless Area Controller)	Advance by Signify
CRESTRON <p>Connections located under access panel.</p>	D11	Specified Driver	DALI	Crestron Züm Wireless & SpaceBuilder	Enabled	No	Wired	eldoLED ECOdrive
	L11		0-10V					Advance by Signify
ENCELIUM <p>CLM1 adds 0.78" to overall height.</p>	CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled	No	Wireless	Optotronic by eldoLED Advance by Signify
Enlighted	ENL1	SU-5E-IOT	Enlighted RF	Enlighted	Integrated	Yes	Wireless	Advance by Signify
LUTRON <p>Connections located under access panel.</p>	LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	No	Wired	Lutron Hi-Lume
nLIGHT <p>Connections located under access panel.</p>	NLT1	nEPS-60-IO	nLight	nLight	Enabled	No	Wired 	eldoLED ECOdrive , eldoLED SOLOdrive
LIGHTING CONTROLS <p>NXE1 adds 1.00" to overall height.</p>	NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled	No	Wired 	Optotronic by eldoLED

*Not all compatible networks may be listed. **For performance data and additional control system details please visit the connected solutions manufacturer websites. Primary drivers are listed in bold. To specify a particular driver please consult factory. †Controls systems supplied by others.

Ordering Guide



Direct Only Linear Circuitry, Zones & Factory Options

HOW TO USE THIS GUIDE

Fill out the worksheet on the following page to specify your requirements for circuitry, zones, and factory options.

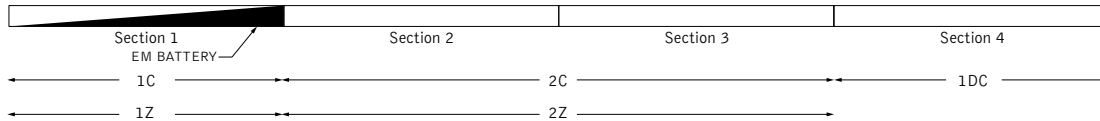
Refer to the run chart for standard run configurations, consult factory for custom configurations.

Complete the Totals / Ordering Codes at the bottom of the worksheet and add to your ordering logic on the cut sheet.

Submit the worksheet along with your order.

TOTAL RUN LENGTH: 32ft		JOB NAME:			FIXTURE TYPE:			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	SEPARATE ELECTRICAL FEEDS			EM
		DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD				
1	8	1C	1Z					1EM
2	8	2C	2Z					
3	8	2C	2Z					
4	8				1DC			
Totals / Ordering Codes		2C	2Z		1DC			1EM

ORDERING: FSM4L-FL-625LF-35K- **2C2Z** -UNV-LD1-G2- **1DC-1EM** -WH-32ft



KEY	
C = Switching Circuit Switched Hot / Shared Neutral	DC = Daylight Circuit Switched Hot / Separate Neutral
Z = Dimming Zone Dimming Control Wires	EC = Emergency Circuit Switched Hot / Separate Neutral
DL = Daylight Zone Daylight Dimming Control Wires	EM = Emergency Battery Unswitched Hot / Shared Neutral
	ECD = Emergency Control Device Unswitched Hot / Separate Neutral

DEFAULTS

- Zones and Factory Options illuminate entire sections from 4' to 8' in length.
- One shared or isolated circuit and zone required per housing section.
- Limit of one EM or ECD per housing section.
- Additional electrical feed required for applications greater than three shared circuits and zones.
- Each DC, EC and ECD require an additional electrical feed.
- ECD not available in the same housing section as EC.
- Longer lead times and additional pricing may apply for custom run configurations.

CUSTOM LENGTHS

- If partial illumination of emergency or daylight section is required, indicate in ordering guide and add "partial illumination" in Order Notes. Drawing required.
- Engineering validation required, longer lead times may apply.

Ordering Guide Worksheet

Linear Circuitry, Zones & Factory Options



TOTAL RUN LENGTH: _____		JOB NAME: _____			FIXTURE TYPE: _____			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	EM
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Totals / Ordering Codes								

WORKSHEET

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

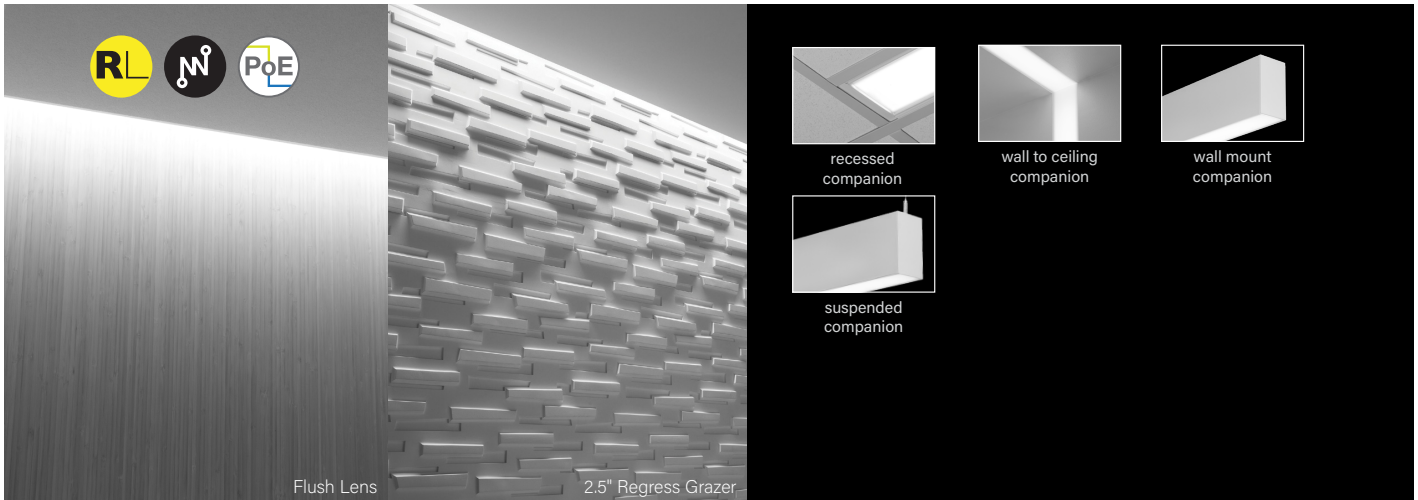
RUN CHART

Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths
9	5 + 4	21	8 + 8 + 5	33	8 + 8 + 8 + 5 + 4	45	8 + 8 + 8 + 8 + 8 + 5
10	6 + 4	22	8 + 8 + 6	34	8 + 8 + 8 + 6 + 4	46	8 + 8 + 8 + 8 + 8 + 6
11	7 + 4	23	8 + 8 + 7	35	8 + 8 + 8 + 7 + 4	47	8 + 8 + 8 + 8 + 8 + 7
12	8 + 4	24	8 + 8 + 8	36	8 + 8 + 8 + 8 + 4	48	8 + 8 + 8 + 8 + 8 + 8
13	8 + 5	25	8 + 8 + 5 + 4	37	8 + 8 + 8 + 8 + 5		
14	8 + 6	26	8 + 8 + 6 + 4	38	8 + 8 + 8 + 8 + 6		
15	8 + 7	27	8 + 8 + 7 + 4	39	8 + 8 + 8 + 8 + 7		
16	8 + 8	28	8 + 8 + 8 + 4	40	8 + 8 + 8 + 8 + 8		
17	8 + 5 + 4	29	8 + 8 + 8 + 5	41	8 + 8 + 8 + 8 + 5 + 4		
18	8 + 6 + 4	30	8 + 8 + 8 + 6	42	8 + 8 + 8 + 8 + 6 + 4		
19	8 + 7 + 4	31	8 + 8 + 8 + 7	43	8 + 8 + 8 + 8 + 7 + 4		
20	8 + 8 + 4	32	8 + 8 + 8 + 8	44	8 + 8 + 8 + 8 + 8 + 4		

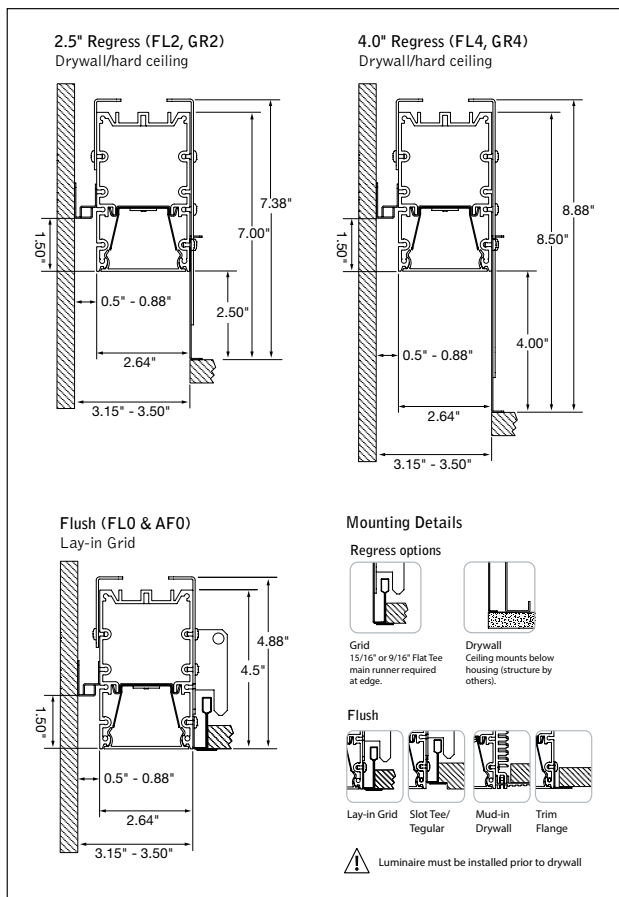
Standard run configurations, consult factory for custom configurations.

Seem[®] 2

LED PERIMETER



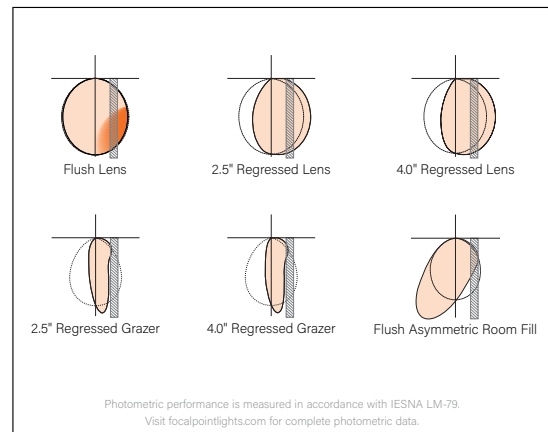
DIMENSIONAL DATA



FEATURES

- Seem 2 LED perimeter provides a glowing transition between ceiling and wall with flush, 2.5° regress or 4.0° regress lenses.
- Adjustable housing option provides flexibility with +/- 3 inch adjustability for wall-to-wall illumination.
- Grazer optic provides even vertical illumination and adds drama to a space by highlighting textured walls and architectural details.
- Asymmetric Room Fill optic provides superior efficacy and uniformity to light rooms and corridors from the perimeter.
- Connected Solutions: Integrates with wired and wireless building lighting control systems.
- PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

DISTRIBUTIONS

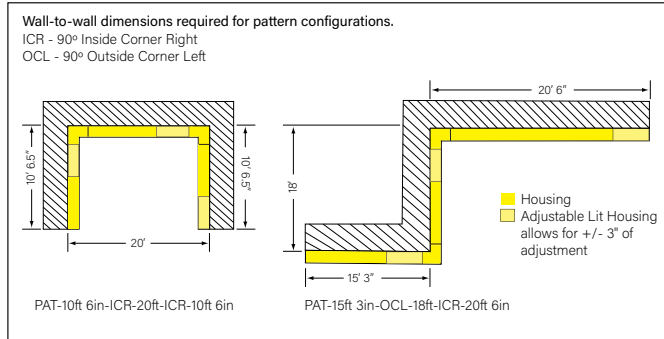


TYPE: R11-Page 2

fixture:

project:

PATTERN CONFIGURATIONS



SPECIFICATIONS

LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 2700K, 3000K, 3500K or 4000K with CRI>80 or CRI>90, 3 SDCM. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps, bulkheads, sliding sleeve and regress leg. 4' unit weight: 17 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .07" thick with satin finish, up to 8' continuous.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Power factor > .9. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs require an independent PoE node and power feed for each luminaire section.

Emergency Battery

Output - 10 watts for 90 minutes. Maximum mounting height: 17.9ft. Emergency Circuit with Connected Solutions (DLM1, LMFS1, LMFS2, NLT1, ENL1, CLM1, NXE1, WLXP) shipped standard with leads to connect UL924 compliant device, by others.

Labels

UL and cUL Listed. Suitable for Dry or Damp Locations, indoor use only.

Finish

Polyester powder coat applied over a multi-stage pre-treatment.

Lumen Maintenance

Reported: L70 at >61,000 hours Calculated: L70 at 270,000 hours
L90 at >61,000 hours L90 at 73,000 hours
(Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.)

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

4* PERFORMANCE CHART

See page 3.

Compton college student housing

ORDERING

Luminaire Series	FSM2PR	FSM2PR
Seem 2 LED Perimeter	FSM2PR	
Housing Type		
Adjustable Lit Housing <small>(Allows for +/- 3" adjustment to overall run length. 3' minimum luminaire length.)</small>	ALH	
Fixed Housing <small>(not recommended for wall to wall installations)</small>	FXH	
Shielding		
Flush Lens <small>(Not available with Unlit Sliding Sleeves - SSB)</small>	FL0	
2.5" Regress	FL2	
4" Regress	FL4	
2.5" Regress Grazer	GR2	
4.0" Regress Grazer	GR4	
Flush Asymmetric Room Fill <small>(Not available with Unlit Sliding Sleeves - SSB)</small>	AF0	
Lumen Output		
125 Lumens per foot <small>(LD1, L11 & D11 only. 4' minimum.)</small>	125LF	
250 Lumens per foot <small>(Not available with LH1. 4' minimum with D11.)</small>	250LF	
375 Lumens per foot <small>(4' minimum with LH1 & D11.)</small>	375LF	
625 Lumens per foot <small>(3' minimum with LH1.)</small>	625LF	
Color Temperature		
2700K, 80+ CRI or 90+ CRI	27K or 927K	
3000K, 80+ CRI or 90+ CRI	30K or 930K	
3500K, 80+ CRI or 90+ CRI	35K or 935K	
4000K, 80+ CRI or 90+ CRI	40K or 940K	
Circuits & Zones		
1 Circuit, non-emergency	1C	
Consult Ordering Guide on page 5 for multiple circuiting and zoning options	_C_Z_DL	
Voltage		
120/277 UNV Volt	UNV	
Low Voltage	LV	
Control System & Dimming Level		
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Low Voltage, PoE compatible <small>(No driver. Not available with EM or ECD. LV Voltage only.)</small>	LVN	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
DALI 1% Dimming	D11	
Wattstopper DLM - 1% Dimming* <small>(Not available with CP)</small>	DLM1	
Wattstopper Fixture Sensor* Low Density - 1% Dimming <small>(Remote mounted sensor. See sensor layout guide)</small>	LMFS1	
Wattstopper Fixture Sensor* High Density - 1% Dimming <small>(Remote mounted sensor. See sensor layout guide)</small>	LMFS2	
Acuity nLight - 1% Dimming* <small>(Not available with CP)</small>	NLT1	
Enlighted Smart Sensor - 1% Dimming* <small>(Remote mounted sensor. See sensor layout guide)</small>	ENL1	
Excelium CLM Connected Lighting Module - 1% Dimming	CLM1	
Current NX Enabled - 1% Dimming* <small>(Not available with CP)</small>	NXE1	
WaveLinX Pro - 1% Dimming* <small>(Remote mounted sensor. See sensor layout guide)</small>	WLXP	
* (3' minimum length. 7' minimum length with FXH & EM. Not available with ALH & EM. G & ST mounting only.)		
Mounting		
Lay-in Grid	G	
Flush	Slot Tee / Tegular	ST
(FL0 & AF0)	Trim Flange Drywall	TF
	Mud-in Trimless Drywall	XFF
Regressed (FL2, FL4, GR2 & GR4)	Grid	G
	Trimless Drywall	XF
Factory Options <small>(See Ordering Guide for ordering details for DC, EG, EM & ECD)</small>		
Chicago Plenum <small>(Not available with Flex Whip)</small>	CP	
Daylight Circuit <small>(See Pattern Configurations for example)</small>	_DC	
Emergency Circuit	_EC	
Emergency Battery Pack†	_EM	
Emergency Control Device†	_ECD	
6' New York City Flex Whip (120V)	FNY1	
6' New York City Flex Whip (277V)	FNY2	
6' Flex Whip	FW	
Unlit Sliding Sleeves <small>(Set of two unlit 12" sleeves. Fixed housing in straight runs only. FL2, FL4, GR2 & GR4 only. 3' minimum luminaire length.)</small>	SSB	
Finish		WH
Matte White Housing	WH	
Luminaire Length		ft in
Specify luminaire/row length in 1" increments <small>(2' minimum length)</small>	_ft_in	
Pattern Options		
Specify patterns based on wall-to-wall dimensions <small>(See Pattern Configurations for example)</small>	PAT	
Example: FSM2LPR-ALH-FL2-625LF-35K-1C-120-LD1-G-WH-PAT-10-ICR-20-ICR-10		

* 4' minimum length with EM or ECD. 120/277 Volt only. EM or ECD not available at corners.



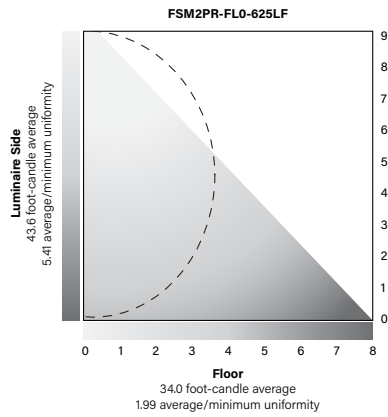
4' PERFORMANCE CHART

Lumens per Foot	Lumen Output	Tested System Watts	LPW					
			FL0	FL2	FL4	GR2	GR4	AF0
125LF	500	6	69	64	62	80	79	84
250LF	1000	12	85	78	76	98	97	103
375LF	1500	18	89	82	80	103	102	108
625LF	2500	31	86	79	78	100	99	105

Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

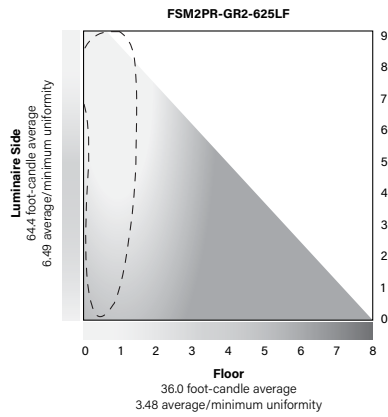
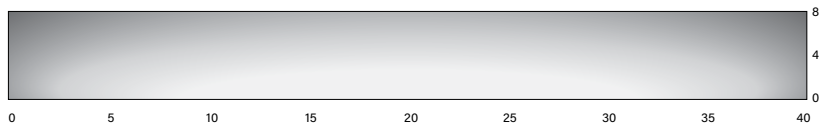
SELECTING THE BEST OPTIC FOR EACH APPLICATION

8' W x 40' L x 9' H Corridor | 80/50/20 Reflectances | 0.9 Light Loss Factor



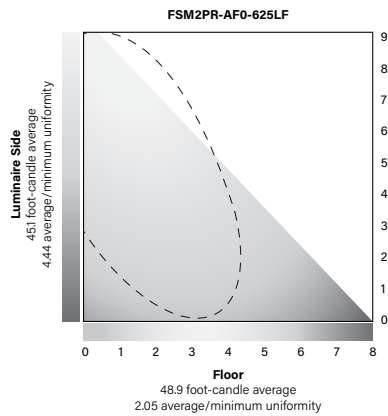
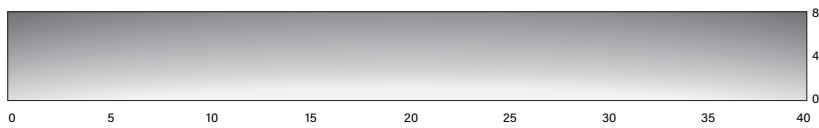
Standard Lens

The standard optic results in a Lambertian light distribution that provides uniform illumination. It is ideal to create a glowing transition between the walls and ceiling, adding dimension to the space.



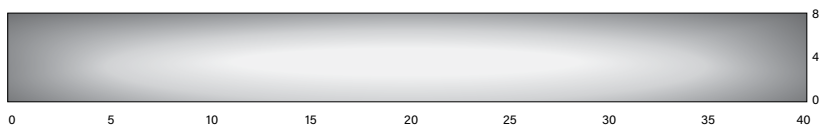
Grazer Lens

The grazer optic closely grazes walls, highlighting textures and architectural details. It is intended to provide even illumination and deliver maximum visual impact on the vertical surfaces.



Asymmetric Room Fill Lens

The asymmetric room fill optic projects light into the space to evenly illuminate horizontal planes. It is ideal to light rooms and corridors from the perimeter, resulting in superior efficacy and uniformity on the floor.





Seem® 2 Perimeter LED

Focal Point provides flexibility in meeting the needs of each project by integrating with several building lighting control systems. A variety of sensors, drivers and other components can be specified that allow the luminaires to communicate with wired and wireless networks. All zoning can be digitally reconfigured through the application software. Daylight harvesting, occupancy sensing, integration with HVAC systems, and individual controls enable the monitoring and modulating of light levels and temperature in order to save energy, reduce costs and maximize occupants' comfort. All Connected Solutions luminaires require a compatible building control system.†

Connected Solution	Ordering Code	Model #**	Protocol	Compatible Networks*	Occupancy & Daylight	Temperature Reporting	Communication to Luminaire	Drivers	
 legrand ® WATTSTOPPER®		DLM1	LMFC-011	DLM	DLM	Enabled	No	Wired 	Advance by Signify , Optotronic by eldoLED
		LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Enabled	No	Wireless	Advance by Signify
		LMFSD	LMFS-601						Optotronic by eldoLED (Dexal)
 COOPER Lighting Solutions		WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Enabled	No	Wireless (WaveLinx Pro Wireless Area Controller)	Advance by Signify
 CRESTRON		D11	Specified Driver	DALI	Crestron Züm Wireless & SpaceBuilder	Enabled	No	Wired	eldoLED ECOdrive
		L11		0-10V					Advance by Signify
 ENCELIUM		CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled	No	Wireless	Optotronic by eldoLED Advance by Signify
 Enlighted		ENL1	SU-5E-IOT	Enlighted RF	Enlighted	Integrated	Yes	Wireless	Advance by Signify
 LUTRON		LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	No	Wired	Lutron Hi-Lume
 nLIGHT		NLT1	nEPS-60-IO	nLight	nLight	Enabled	No	Wired 	eldoLED ECOdrive , eldoLED SOLOdrive
 LIGHTING CONTROLS		NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled	No	Wired 	Optotronic by eldoLED

*Not all compatible networks may be listed. **For performance data and additional control system details please visit the connected solutions manufacturer websites. Primary drivers are listed in bold. To specify a particular driver please consult factory. †Controls systems supplied by others.

Ordering Guide



Direct Only Linear Circuitry, Zones & Factory Options

HOW TO USE THIS GUIDE

Fill out the worksheet on the following page to specify your requirements for circuitry, zones, and factory options.

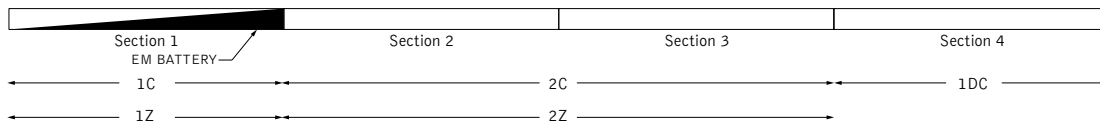
Refer to the run chart for standard run configurations, consult factory for custom configurations.

Complete the Totals / Ordering Codes at the bottom of the worksheet and add to your ordering logic on the cut sheet.

Submit the worksheet along with your order.

TOTAL RUN LENGTH: 32ft		JOB NAME:			FIXTURE TYPE:			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	SEPARATE ELECTRICAL FEEDS			EM
		DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD				
1	8	1C	1Z					1EM
2	8	2C	2Z					
3	8	2C	2Z					
4	8				1DC			
Totals / Ordering Codes		2C	2Z		1DC			1EM

ORDERING: FSM4L-FL-625LF-35K- **2C2Z** -UNV-LD1-G2- **1DC-1EM** -WH-32ft



KEY	
C = Switching Circuit Switched Hot / Shared Neutral	DC = Daylight Circuit Switched Hot / Separate Neutral
Z = Dimming Zone Dimming Control Wires	EC = Emergency Circuit Switched Hot / Separate Neutral
DL = Daylight Zone Daylight Dimming Control Wires	EM = Emergency Battery Unswitched Hot / Shared Neutral
	ECD = Emergency Control Device Unswitched Hot / Separate Neutral

DEFAULTS

- Zones and Factory Options illuminate entire sections from 4' to 8' in length.
- One shared or isolated circuit and zone required per housing section.
- Limit of one EM or ECD per housing section.
- Additional electrical feed required for applications greater than three shared circuits and zones.
- Each DC, EC and ECD require an additional electrical feed.
- ECD not available in the same housing section as EC.
- Longer lead times and additional pricing may apply for custom run configurations.

CUSTOM LENGTHS

- If partial illumination of emergency or daylight section is required, indicate in ordering guide and add "partial illumination" in Order Notes. Drawing required.
- Engineering validation required, longer lead times may apply.

Ordering Guide Worksheet

Linear Circuitry, Zones & Factory Options



TOTAL RUN LENGTH: _____		JOB NAME: _____			FIXTURE TYPE: _____			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	EM
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Totals / Ordering Codes								

WORKSHEET

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

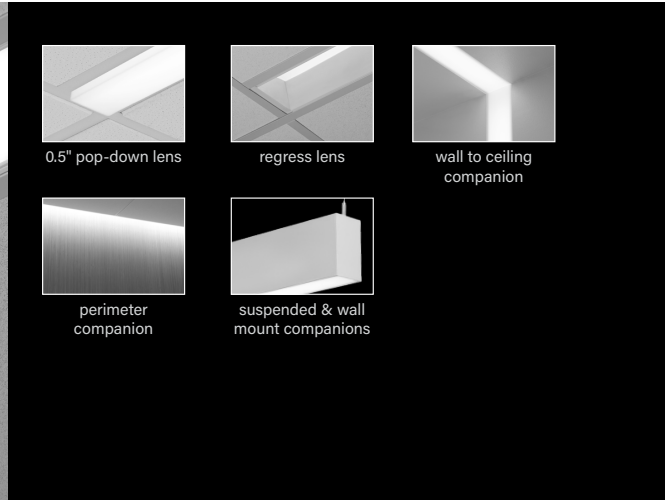
RUN CHART

Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths
9	5 + 4	21	8 + 8 + 5	33	8 + 8 + 8 + 5 + 4	45	8 + 8 + 8 + 8 + 8 + 5
10	6 + 4	22	8 + 8 + 6	34	8 + 8 + 8 + 6 + 4	46	8 + 8 + 8 + 8 + 8 + 6
11	7 + 4	23	8 + 8 + 7	35	8 + 8 + 8 + 7 + 4	47	8 + 8 + 8 + 8 + 8 + 7
12	8 + 4	24	8 + 8 + 8	36	8 + 8 + 8 + 8 + 4	48	8 + 8 + 8 + 8 + 8 + 8
13	8 + 5	25	8 + 8 + 5 + 4	37	8 + 8 + 8 + 8 + 5		
14	8 + 6	26	8 + 8 + 6 + 4	38	8 + 8 + 8 + 8 + 6		
15	8 + 7	27	8 + 8 + 7 + 4	39	8 + 8 + 8 + 8 + 7		
16	8 + 8	28	8 + 8 + 8 + 4	40	8 + 8 + 8 + 8 + 8		
17	8 + 5 + 4	29	8 + 8 + 8 + 5	41	8 + 8 + 8 + 8 + 5 + 4		
18	8 + 6 + 4	30	8 + 8 + 8 + 6	42	8 + 8 + 8 + 8 + 6 + 4		
19	8 + 7 + 4	31	8 + 8 + 8 + 7	43	8 + 8 + 8 + 8 + 7 + 4		
20	8 + 8 + 4	32	8 + 8 + 8 + 8	44	8 + 8 + 8 + 8 + 8 + 4		

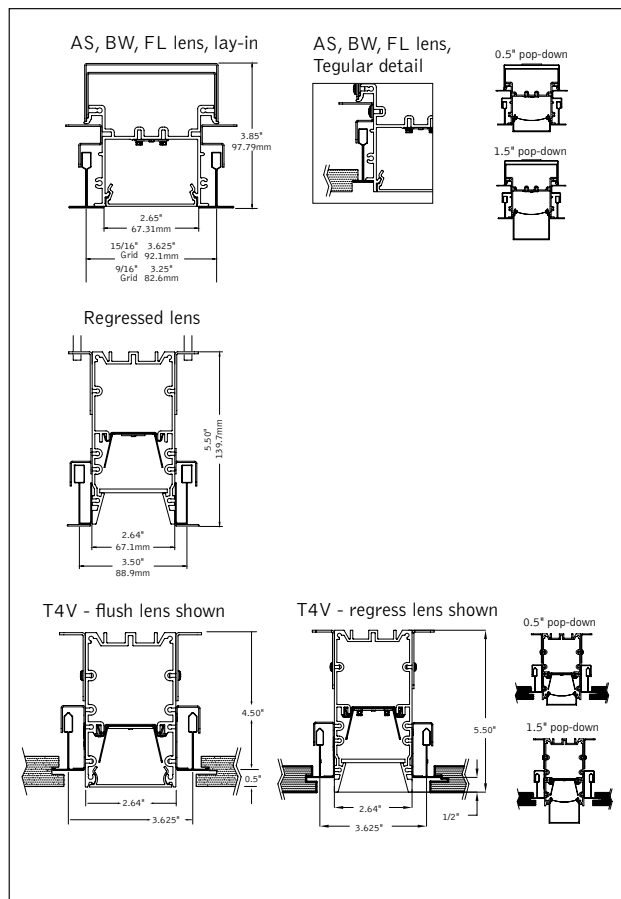
Standard run configurations, consult factory for custom configurations.

Seem® 2 Grid Ceiling

LED



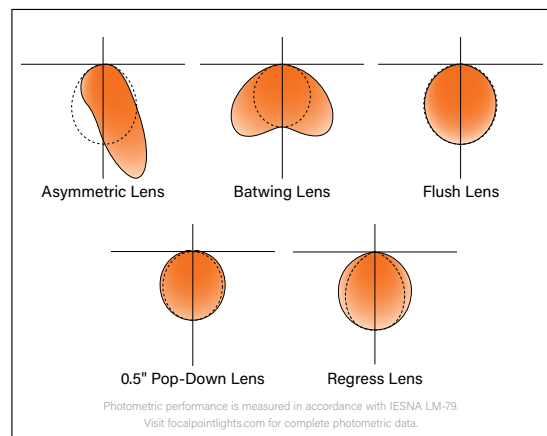
DIMENSIONAL DATA








FEATURES

- Narrow extruded aluminum 2.5" aperture recessed slot LED.
- Individual units and continuous runs in 1" increments.
- Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.
- LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.
- Connected Solutions: Integrates with wired and wireless building lighting control systems.
- PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

DISTRIBUTIONS





4' PERFORMANCE CHART

Lumen Output	Delivered Lumens	Tested System Watts	Lumens Per Watt (LPW)				
			 AS	 BW	 FL	 PD05	 PD15
125LF	500	5	108	103	99	95	97
250LF	1000	9	108	103	99	95	97
375LF	1500	13	118	113	108	105	106
500LF	2000	18	120	115	110	106	108
625LF	2500	23	116	111	107	103	105
750LF	3000	28	116	111	106	103	104
875LF	3500	32	115	110	106	102	104
1000LF	4000	39	113	107	102	99	100

Based on 3500K, 4' length. Lumen multipliers:
 Delivered lumens may vary +/- 5%. Actual wattage may vary +/- 5%

4' PERFORMANCE CHART - REGRESS LENS

Lumen Output	Delivered Lumens	Tested System Watts	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  SR </div> <div style="text-align: center;">  SRXP </div> </div>		
			LPW	Tested System Watts	LPW
125LF	500	7	72	6	84
250LF	1000	16	72	13	83
375LF	1500	26	71	19	84
500LF	2000	34	72	26	83
625LF	2500	43	72	33	83

Based on 3500K, 4' length. Lumen multipliers:
 Delivered lumens may vary +/- 5%. Actual wattage may vary +/- 5%



Seem[®] 2 Grid Ceiling LED

Focal Point provides flexibility in meeting the needs of each project by integrating with several building lighting control systems. A variety of sensors, drivers and other components can be specified that allow the luminaires to communicate with wired and wireless networks. All zoning can be digitally reconfigured through the application software. Daylight harvesting, occupancy sensing, integration with HVAC systems, and individual controls enable the monitoring and modulating of light levels and temperature in order to save energy, reduce costs and maximize occupants' comfort. All Connected Solutions luminaires require a compatible building control system.*

Connected Solution	Ordering Code	Model #**	Protocol	Compatible Networks*	Occupancy & Daylight	Temperature Reporting	Communication to Luminaire	Drivers
 WATTSTOPPER [®]	DLM1	LMFC-011	DLM	DLM	Enabled	No	Wired 	Advance by Signify, Optotronic by eldoLED
	LMFS1 LMFSD	LMFS-601 & LMFI-111 LMFS-601	DLM Wireless	DLM	Enabled	No	Wireless	Advance by Signify Optotronic by eldoLED (Dexal)
	WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Enabled	No	Wireless (WaveLinx Pro Wireless Area Controller)	Advance by Signify
	D11	Specified Driver	DALI	Crestron Züm Wireless & SpaceBuilder	Enabled	No	Wired	eldoLED ECOdrive
	L11		0-10V					Advance by Signify
	CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled	No	Wireless	Optotronic by eldoLED Advance by Signify
	ENL1	SU-5E-IOT	Enlighted RF	Enlighted	Integrated	Yes	Wireless	Advance by Signify
	LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	No	Wired	Lutron Hi-Lume
	NLT1	nEPS-60-IO	nLight	nLight	Enabled	No	Wired 	eldoLED ECOdrive, eldoLED SOLOdrive
	NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled	No	Wired 	Optotronic by eldoLED

*Not all compatible networks may be listed. **For performance data and additional control system details please visit the connected solutions manufacturer websites. Primary drivers are listed in bold. To specify a particular driver please consult factory. †Controls systems supplied by others.

Ordering Guide



Direct Only Linear Circuitry, Zones & Factory Options

HOW TO USE THIS GUIDE

Fill out the worksheet on the following page to specify your requirements for circuitry, zones, and factory options.

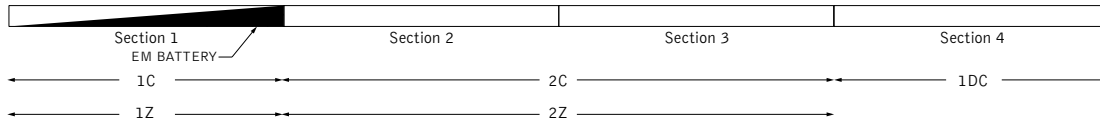
Refer to the run chart for standard run configurations, consult factory for custom configurations.

Complete the Totals / Ordering Codes at the bottom of the worksheet and add to your ordering logic on the cut sheet.

Submit the worksheet along with your order.

TOTAL RUN LENGTH: 32ft		JOB NAME:			FIXTURE TYPE:			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	SEPARATE ELECTRICAL FEEDS			EM
		DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD				
1	8	1C	1Z					1EM
2	8	2C	2Z					
3	8	2C	2Z					
4	8				1DC			
Totals / Ordering Codes		2C	2Z		1DC			1EM

ORDERING: FSM4L-FL-625LF-35K- **2C2Z** -UNV-LD1-G2- **1DC-1EM** -WH-32ft



KEY	
C = Switching Circuit Switched Hot / Shared Neutral	DC = Daylight Circuit Switched Hot / Separate Neutral
Z = Dimming Zone Dimming Control Wires	EC = Emergency Circuit Switched Hot / Separate Neutral
DL = Daylight Zone Daylight Dimming Control Wires	EM = Emergency Battery Unswitched Hot / Shared Neutral
	ECD = Emergency Control Device Unswitched Hot / Separate Neutral

- DEFAULTS**
- Zones and Factory Options illuminate entire sections from 4' to 8' in length.
 - One shared or isolated circuit and zone required per housing section.
 - Limit of one EM or ECD per housing section.
 - Additional electrical feed required for applications greater than three shared circuits and zones.
 - Each DC, EC and ECD require an additional electrical feed.
 - ECD not available in the same housing section as EC.
 - Longer lead times and additional pricing may apply for custom run configurations.

- CUSTOM LENGTHS**
- If partial illumination of emergency or daylight section is required, indicate in ordering guide and add "partial illumination" in Order Notes. Drawing required.
 - Engineering validation required, longer lead times may apply.

Ordering Guide Worksheet

Linear Circuitry, Zones & Factory Options



TOTAL RUN LENGTH: _____		JOB NAME: _____			FIXTURE TYPE: _____			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	EM
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Totals / Ordering Codes								

WORKSHEET

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

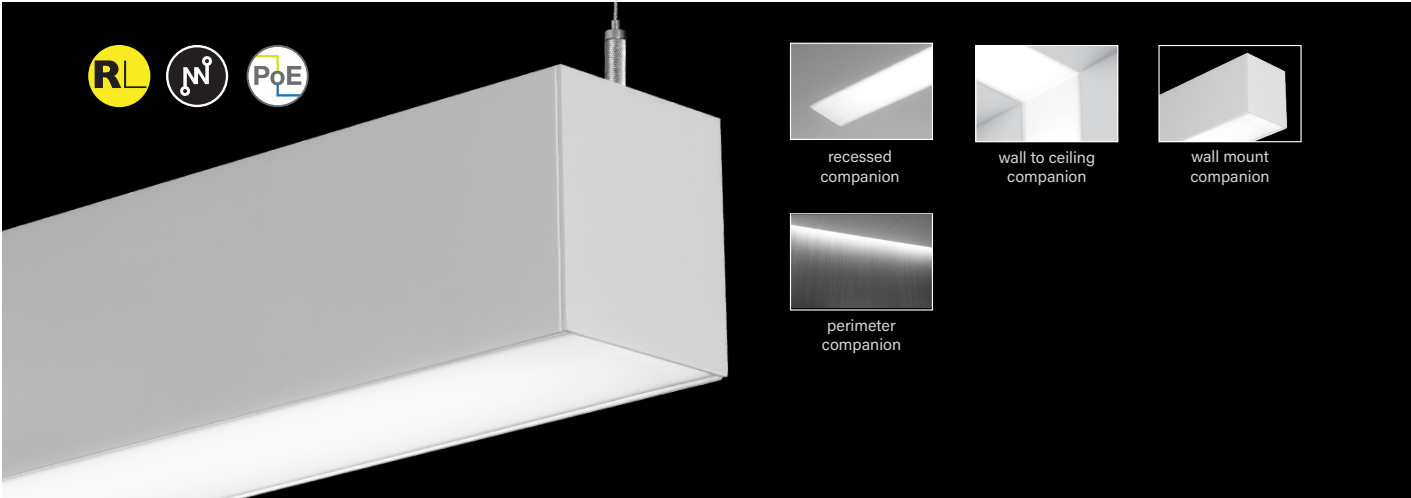
RUN CHART

Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths
9	5 + 4	21	8 + 8 + 5	33	8 + 8 + 8 + 5 + 4	45	8 + 8 + 8 + 8 + 8 + 5
10	6 + 4	22	8 + 8 + 6	34	8 + 8 + 8 + 6 + 4	46	8 + 8 + 8 + 8 + 8 + 6
11	7 + 4	23	8 + 8 + 7	35	8 + 8 + 8 + 7 + 4	47	8 + 8 + 8 + 8 + 8 + 7
12	8 + 4	24	8 + 8 + 8	36	8 + 8 + 8 + 8 + 4	48	8 + 8 + 8 + 8 + 8 + 8
13	8 + 5	25	8 + 8 + 5 + 4	37	8 + 8 + 8 + 8 + 5		
14	8 + 6	26	8 + 8 + 6 + 4	38	8 + 8 + 8 + 8 + 6		
15	8 + 7	27	8 + 8 + 7 + 4	39	8 + 8 + 8 + 8 + 7		
16	8 + 8	28	8 + 8 + 8 + 4	40	8 + 8 + 8 + 8 + 8		
17	8 + 5 + 4	29	8 + 8 + 8 + 5	41	8 + 8 + 8 + 8 + 5 + 4		
18	8 + 6 + 4	30	8 + 8 + 8 + 6	42	8 + 8 + 8 + 8 + 6 + 4		
19	8 + 7 + 4	31	8 + 8 + 8 + 7	43	8 + 8 + 8 + 8 + 7 + 4		
20	8 + 8 + 4	32	8 + 8 + 8 + 8	44	8 + 8 + 8 + 8 + 8 + 4		

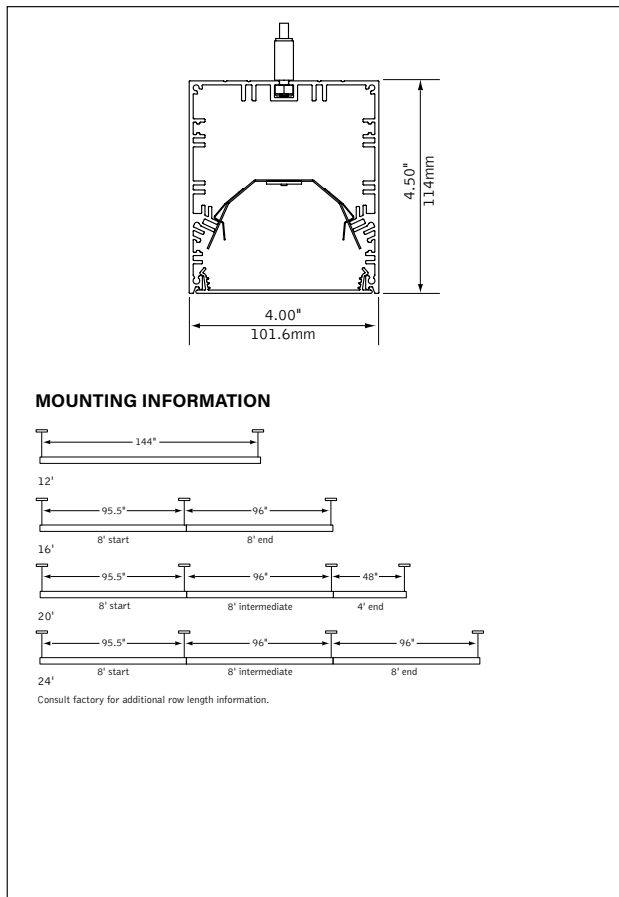
Standard run configurations, consult factory for custom configurations.

Seem® 4

LED



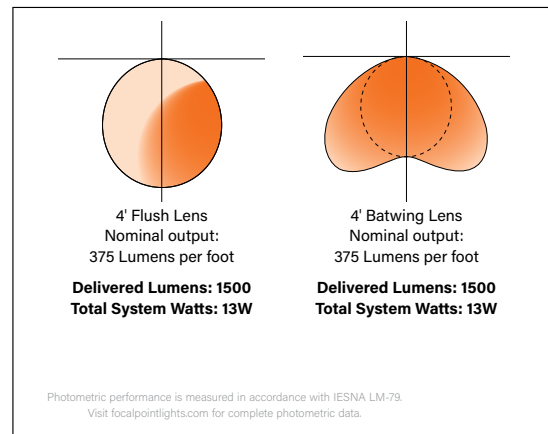
DIMENSIONAL DATA



FEATURES

- Narrow extruded aluminum 4" linear direct LED.
- Individual units and continuous runs in 1' increments.
- Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.
- LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.
- Choice of output levels to meet a wide variety of application needs.
- Connected Solutions: Integrates with wired and wireless building lighting control systems.
- PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

PERFORMANCE





Seem® 4

LED

Focal Point provides flexibility in meeting the needs of each project by integrating with several building lighting control systems. A variety of sensors, drivers and other components can be specified that allow the luminaires to communicate with wired and wireless networks. All zoning can be digitally reconfigured through the application software. Daylight harvesting, occupancy sensing, integration with HVAC systems, and individual controls enable the monitoring and modulating of light levels and temperature in order to save energy, reduce costs and maximize occupants' comfort. All Connected Solutions luminaires require a compatible building control system.†

Connected Solution	Ordering Code	Model #**	Protocol	Compatible Networks*	Occupancy & Daylight	Temperature Reporting	Communication to Luminaire	Drivers	
 WATTSTOPPER®		DLM1	LMFC-011	DLM	DLM	Enabled	No	Wired 	Advance by Signify , Optotronic by eldoLED
		LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Enabled	No	Wireless	Advance by Signify
	LMFSD	LMFS-601	Optotronic by eldoLED (Dexal)						
		WLXP	OEM-WAA	WaveLinX Wireless	WaveLinX Pro Trellix	Enabled	No	Wireless (WaveLinX Pro Wireless Area Controller)	Advance by Signify
		D11	Specified Driver	DALI	Crestron Züm Wireless & SpaceBuilder	Enabled	No	Wired	eldoLED ECOdrive
		L11		0-10V					Advance by Signify
		CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled	No	Wireless	Optotronic by eldoLED Advance by Signify
		ENL1	SU-5E-IOT	Enlighted RF	Enlighted	Integrated	Yes	Wireless	Advance by Signify
		LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	No	Wired	Lutron Hi-Lume
		NLT1	nEPS-60-IO	nLight	nLight	Enabled	No	Wired 	eldoLED ECOdrive , eldoLED SOLOdrive
								Wired 	Optotronic by eldoLED
		NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled	No	Wired 	Optotronic by eldoLED

*Not all compatible networks may be listed. **For performance data and additional control system details please visit the connected solutions manufacturer websites. Primary drivers are listed in bold. To specify a particular driver please consult factory. †Controls systems supplied by others.

Ordering Guide

Linear Circuitry, Zones & Factory Options

HOW TO USE THIS GUIDE

Fill out the worksheet on the following page to specify your requirements for circuitry, zones, and factory options.

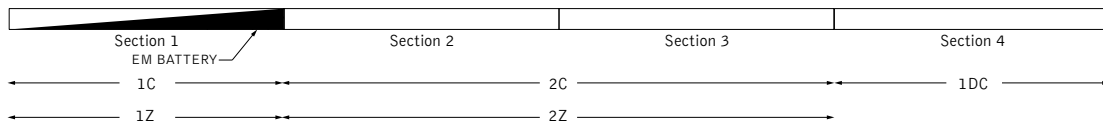
Refer to the run chart for standard run configurations, consult factory for custom configurations.

Complete the Totals / Ordering Codes at the bottom of the worksheet and add to your ordering logic on the cut sheet.

Submit the worksheet along with your order.

TOTAL RUN LENGTH: 32ft		JOB NAME:			FIXTURE TYPE:			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	SEPARATE ELECTRICAL FEEDS			EM
DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT				ECD			
1	8	1C	1Z					1EM
2	8	2C	2Z					
3	8	2C	2Z					
4	8				1DC			
Totals / Ordering Codes		2C	2Z		1DC			1EM

ORDERING: FSM4LS-FL-625LF-35K- 2C2Z -UNV-LD1-C24WH- 1DC-1EM -WH-32ft



KEY	
C = Switching Circuit Switched Hot / Shared Neutral	DC = Daylight Circuit Switched Hot / Separate Neutral
Z = Dimming Zone Dimming Control Wires	EC = Emergency Circuit Switched Hot / Separate Neutral
DL = Daylight Zone Daylight Dimming Control Wires	EM = Emergency Battery Unswitched Hot / Shared Neutral
	ECD = Emergency Control Device Unswitched Hot / Separate Neutral

DEFAULTS

- Zones and Factory Options illuminate entire sections from 4' to 8' in length.
- One shared or isolated circuit and zone required per housing section.
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- ECD not available in the same housing section as EC.
- Longer lead times and additional pricing may apply for custom run configurations.

CUSTOM LENGTHS

- If partial illumination of emergency or daylight section is required, indicate in ordering guide and add "partial illumination" in Order Notes. Drawing required.
- Engineering validation required, longer lead times may apply.

Ordering Guide Worksheet

Linear Circuitry, Zones & Factory Options

TOTAL RUN LENGTH: _____		JOB NAME: _____			FIXTURE TYPE: _____			
HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			EM
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	SEPARATE ELECTRICAL FEEDS			
					DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	
1								
2								
3								
4								
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7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Totals / Ordering Codes								

WORKSHEET

Combine to create Circuits & Zones ordering code

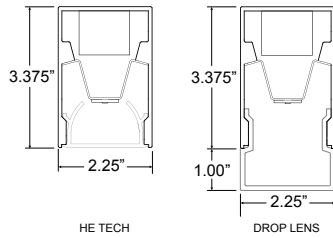
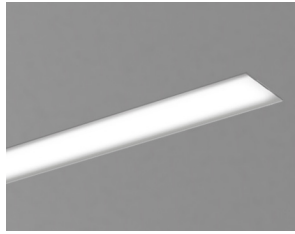
Enter as individual Factory Options

RUN CHART

Run Length (ft)	Housing Configuration Section Lengths	Ordering Code	Run Length (ft)	Housing Configuration Section Lengths	Ordering Code	Run Length (ft)	Housing Configuration Section Lengths	Ordering Code
9	5 + 4	9	19	8 + 7 + 4	19	35	8 + 8 + 8 + 7 + 4	35
	9	9(IND)	20	8 + 8 + 4	20	36	8 + 8 + 8 + 8 + 4	36
10	6 + 4	10	21	8 + 8 + 5	21	37	8 + 8 + 8 + 8 + 5	37
	5 + 5	10(5+5)	22	8 + 8 + 6	22	38	8 + 8 + 8 + 8 + 6	38
	10	10(IND)	23	8 + 8 + 7	23	39	8 + 8 + 8 + 8 + 7	39
11	7 + 4	11	24	8 + 8 + 8	24	40	8 + 8 + 8 + 8 + 8	40
	11	11(IND)	25	8 + 8 + 5 + 4	25	41	8 + 8 + 8 + 8 + 5 + 4	41
12	8 + 4	12	26	8 + 8 + 6 + 4	26	42	8 + 8 + 8 + 8 + 6 + 4	42
	6 + 6	12(6+6)	27	8 + 8 + 7 + 4	27	43	8 + 8 + 8 + 8 + 7 + 4	43
	12	12(IND)	28	8 + 8 + 8 + 4	28	44	8 + 8 + 8 + 8 + 8 + 4	44
13	8 + 5	13	29	8 + 8 + 8 + 5	29	45	8 + 8 + 8 + 8 + 8 + 5	45
14	8 + 6	14	30	8 + 8 + 8 + 6	30	46	8 + 8 + 8 + 8 + 8 + 6	46
15	8 + 7	15	31	8 + 8 + 8 + 7	31	47	8 + 8 + 8 + 8 + 8 + 7	47
16	8 + 8	16	32	8 + 8 + 8 + 8	32	48	8 + 8 + 8 + 8 + 8 + 8	48
17	8 + 5 + 4	17	33	8 + 8 + 8 + 5 + 4	33			
18	8 + 6 + 4	18	34	8 + 8 + 8 + 6 + 4	34			

Standard run configurations, consult factory for custom configurations.

ACL5 | SPECIFICATION GUIDE



ORDERING CODE

ACL5

PROJECT INFO

TYPE

DATE

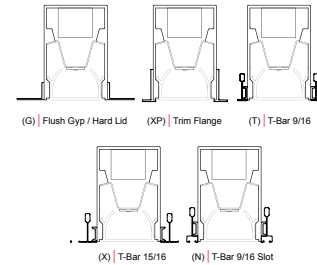
QUANTITY

PERFORMANCE AT 3500K

OUTPUT	OPTICS	NOMINAL		
		LUMEN OUPUT	INPUT WATTS	EFFICACY
LH (high)	HE Tech™	1075 lm/ft	9.8 W/ft	109 lm/W
	1" Drop Lens	843 lm/ft	9.8 W/ft	86 lm/W
	Flat Blade Louver*	982 lm/ft	9.8 W/ft	100 lm/W
LS (standard)	HE Tech™	572 lm/ft	4.9 W/ft	117 lm/W
	1" Drop Lens	443 lm/ft	4.9 W/ft	90 lm/W
	Flat Blade Louver*	517 lm/ft	4.9 W/ft	106 lm/W

Custom tuned output available from 25% to 125% of high output. Please consult factory for custom lumen output and wattage. *Flat Blade Louver calculated using the aluminum finish.

MOUNTING OPTIONS



SERIES	LENGTH OR PATTERN TYPE	INTERSECTION TYPE	OUTPUT	LED CCT	LED CRI	VOLTAGE
ACL5	_ Nominal Length* M_ Exact Length** PL_ "L" Shape*** PU_ "U" Shape*** PR_ Rectangle / Square*** CP_ Custom Pattern****	IT "T" Intersection IX "X" Intersection IY "Y" Intersection*	LS Standard Output LH High Output C_ Custom Output*	27 2700K 30 3000K 35 3500K 40 4000K TW Tunable White* DW Dim-to-warm*	_ 80+ CRI CRI 90+ CRI	U 120V - 277V 3 347V

*Specify in feet to the nearest foot (i.e. 12)
 **Specify in inches to then nearest 1/8 (i.e. M180.125)
 ***Specify in inches to the nearest 1/8 (See Pattern Guide for configurations)
 ****Contact Design Assist
 *Available with Flat Blade Louvers only in 90° degrees.
 ** Fully illuminated intersection available with HE Tech and Polycarbonate Flush WISP optics only. Contact Design Assist.
 *Available from 25% to 125% of LED High Output
 *Standard CCT range is 27-50K. Contact design assist for custom range
 Standard offering is 80+ CRI.
 *90+ CRI is not available with Tunable white and Dim to warm.

DIRECT OPTICS	MOUNTING	FINISH*	DIMMING	EMERGENCY
HE HE Tech™ DL 1" Drop Lens* LV Flat Blade Louvers** PFW Polycarbonate Flush WISP™ WW Direct Wall Wash WG Direct Wall Grazer BW Direct Batwing Wide	G Flush Gyp / Mud Over Flange RG 1" Regressed Gyp / Mud Over Flange XP 1/2" Trim Flange T T-Bar 9/16" X T-Bar 15/16" N T-Bar 9/16 Slot	T Titanium W White B Black O_ Other**	D Standard 0-10V dimming* D1 HiLume Ecosystems 1% (LDE1) D2 Phase dimming** D4 DALI dim-to-off (EldoLED) NAIR nLight @AIR (dim-to-off) NWIR nLight @Wired (dim-to-off) DO Dimming - Other	EC Emergency - circuited* E_ Emergency - battery**

* Not available in Wet Location.
 **Aluminum Standard. Not available in Wet Location.
 *Only on RG and XP mounting types
 **Specify RAL#
 * 1% Dimming standard unless otherwise specified.
 **Reference ERP-PHB driver for compatible dimmers.
 *Not available on fixtures < 4' length. Smallest EM circuit is 2ft. If entire fixture is on EM circuit, no need to call out EC in part number.
 **Factory-installed emergency battery pack. Specify desired quantity of batteries. Not available on fixtures < 4' length. Not available for 347V. See technical data for more information.

SENSORS	OPTIONS
OF Occupancy Sensor - Fixture PF Photocell / Daylight Sensor - Fixture OPF Occupancy & daylight Sensor - Fixture	M Multi-Circuit* K Natatorium Application** Q Wet Location*** CP Chicago Plenum MRI MRI

*Submit multi-circuiting requirements
 **Not available with aircraft cable, nor horizontal setoff bracket. See guide and contact Design Assist. Not compatible with Drop Lens, Flat Blade Louvers or Wall Grazer Optics.
 ***Client must specify power feed location. Not available with aircraft cable. Wet location suitable in full coverage and/or mullion mounted applications (direct to sky not recommended); not suitable for extreme weather applications. Refer to Wet Location brochure and contact Design Assist for more information. Not compatible with Drop Lens, Flat Blade Louvers optics.
 Sensor will be matched to dimming input.

ACL5 | PHOTOMETRY
LIGHT DISTRIBUTION

DISTRIBUTION

Direct Symmetric

OUTPUT

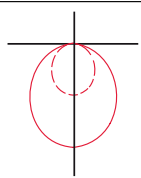
LH: High output - 9.8 W/ft
LS: Standard output - 4.9 W/ft
C: Custom tuned output - Contact Design Assist

PHOTOMETRIC DATA

DIRECT SYMMETRIC
LH - 4FT - 3500K - HE TECH

Lumens: 1075 lm/ft
Input watts: 9.8 W/ft
Efficacy: 109 lm/W

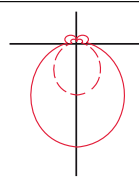
LH: _____
LS: - - - - -



DIRECT SYMMETRIC
LH - 4FT - 3500K - DROP LENS

Lumens: 843 lm/ft
Input watts: 9.8 W/ft
Efficacy: 86 lm/W

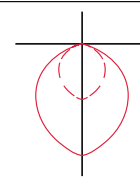
LH: _____
LS: - - - - -



DIRECT SYMMETRIC
LH - 4FT - 3500K - BLADE LOUVERS

Lumens: 982 lm/ft
Input watts: 9.8 W/ft
Efficacy: 100 lm/W

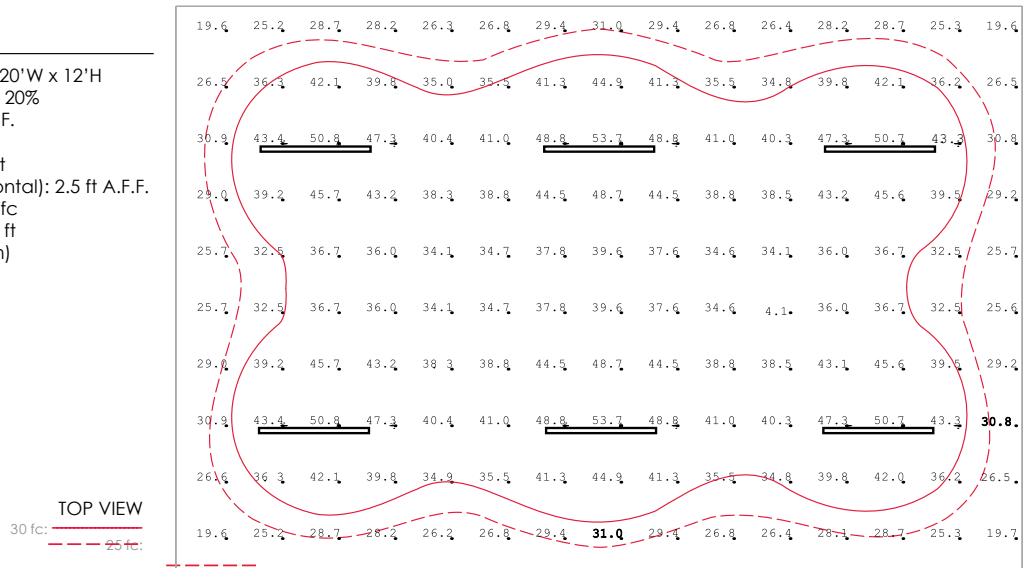
LH: _____
LS: - - - - -



SAMPLE INSTALLATION - WORKSPACE

LH DOWN - 3500K

Room dimensions: 30'L x 20'W x 12'H
Reflectance: 80% / 50% / 20%
Mounting height: 9 ft A.F.F.
Fixture length: 4 ft
Calculation grid: 2 ft x 2 ft
Calculation plane (horizontal): 2.5 ft A.F.F.
Average Illuminance: 36 fc
Fixture spacing: 10 ft x 10 ft
Uniformity: 1.9:1 (avg/min)



LIGHT LOSS FACTORS (LLF)

OUTPUT	CCT	CRI 80+			CRI 90+		
		OPTICS			OPTICS		
		HE Tech™	Drop Lens	Flat Blade Louver	HE Tech™	Drop Lens	Flat Blade Louver
LH (high)	4000k	926 lm/ft	756 lm/ft	655 lm/ft	815 lm/ft	665 lm/ft	576 lm/ft
	3500k	907 lm/ft	740 lm/ft	642 lm/ft	787 lm/ft	643 lm/ft	557 lm/ft
	3000k	870 lm/ft	710 lm/ft	615 lm/ft	750 lm/ft	612 lm/ft	531 lm/ft
	2700k	842 lm/ft	687 lm/ft	596 lm/ft	713 lm/ft	582 lm/ft	504 lm/ft
LS (standard)	4000k	495 lm/ft	404 lm/ft	350 lm/ft	436 lm/ft	356 lm/ft	308 lm/ft
	3500k	485 lm/ft	396 lm/ft	343 lm/ft	421 lm/ft	343 lm/ft	298 lm/ft
	3000k	465 lm/ft	380 lm/ft	329 lm/ft	401 lm/ft	327 lm/ft	284 lm/ft
	2700k	450 lm/ft	367 lm/ft	319 lm/ft	381 lm/ft	311 lm/ft	270 lm/ft

Factors above for high output (LH).
For standard output (LS) -50%.

ACL5 | PHOTOMETRY

LIGHT LOSS FACTORS (LLF)

OUTPUT	CCT	CRI 80+				CRI 90+			
		%	OPTICS			%	OPTICS		
			HE Tech™	Drop Lens	Flat Blade Louver		HE Tech™	Drop Lens	Flat Blade Louver
LH <small>(high)</small>	4000k	102.1%	1098 lm/ft	861 lm/ft	1003 lm/ft	90.2%	970 lm/ft	760 lm/ft	886 lm/ft
	3500k	100.0%	1075 lm/ft	843 lm/ft	982 lm/ft	87.3%	938 lm/ft	735 lm/ft	857 lm/ft
	3000k	96.2%	1034 lm/ft	811 lm/ft	945 lm/ft	82.4%	886 lm/ft	695 lm/ft	809 lm/ft
	2700k	92.6%	995 lm/ft	780 lm/ft	909 lm/ft	78.1%	840 lm/ft	659 lm/ft	767 lm/ft
LS <small>(standard)</small>	4000k	54.3%	584 lm/ft	453 lm/ft	528 lm/ft	48.0%	516 lm/ft	400 lm/ft	466 lm/ft
	3500k	53.2%	572 lm/ft	443 lm/ft	517 lm/ft	46.4%	499 lm/ft	387 lm/ft	451 lm/ft
	3000k	51.2%	550 lm/ft	427 lm/ft	497 lm/ft	43.8%	471 lm/ft	366 lm/ft	426 lm/ft
	2700k	49.2%	529 lm/ft	410 lm/ft	478 lm/ft	41.6%	447 lm/ft	347 lm/ft	404 lm/ft

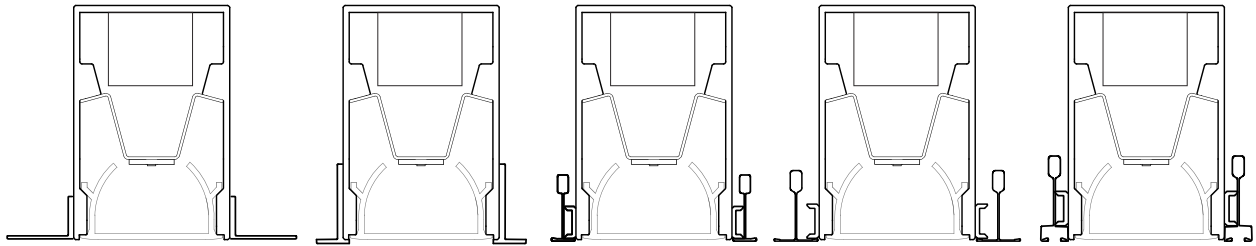
For standard output (LS) -50%.

TUNNABLE WHITE | LIGHT LOSS FACTORS (LLF)

OUTPUT	CCT	CRI 80+			
		%	OPTICS		
			HE Tech™	Drop Lens	Flat Blade Louver
LH <small>(High)</small>	5000k	100%	890 lm/ft	727 lm/ft	847 lm/ft
	2700k	93.6%	833 lm/ft	667 lm/ft	776 lm/ft
LS <small>(Standard)</small>	5000k	100%	469 lm/ft	351 lm/ft	446 lm/ft
	2700k	93.6%	439 lm/ft	383 lm/ft	409 lm/ft

For standard output (LS) -50%. Values are applicable for Tunable White and Dim-to-warm only.

ACL5 | MOUNTING



(G) | Flush Gyp/Hard Lid

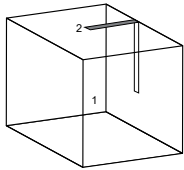
(XP) | Trim Flange

(T) | T-bar 9/16"

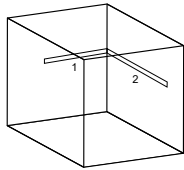
(X) | T-bar 15/16"

(N) | T-bar 9/16" Slot

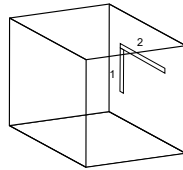
STANDARD PATTERNS



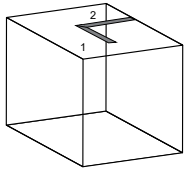
(PLCW) | Wall to ceiling



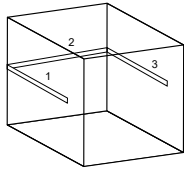
(PLWW) | Wall to wall



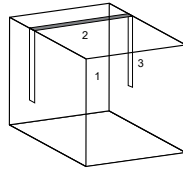
(PLW) | Wall only



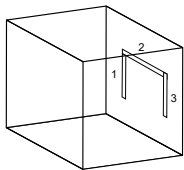
(PLC) | Ceiling only



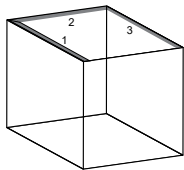
(PUWW) | Wall to wall to wall



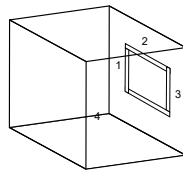
(PUCW) | Wall to ceiling to wall



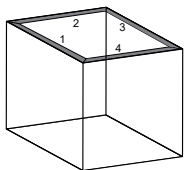
(PUW) | Wall only



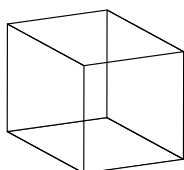
(PUC) | Ceiling only



(PRW) | Wall only

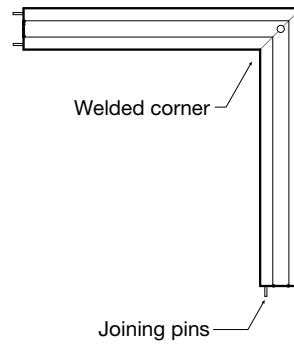


(PRC) | Ceiling only



(CP) | Custom pattern

CORNER DETAIL



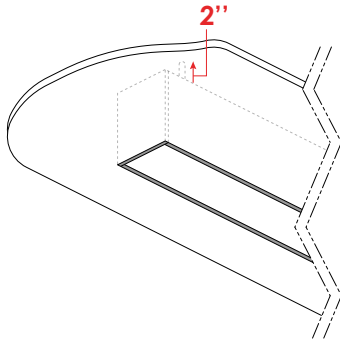
Welded corner

Joining pins

ACL5 | NLIGHT

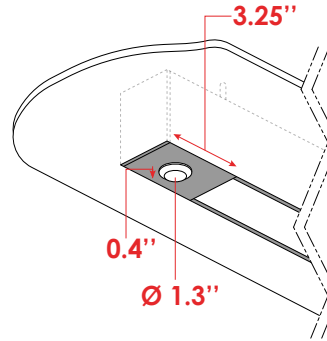
NLIGHT® DIMENSIONS

AIR : rIO Recessed



*Fixture mounted sensors and filler panel for nLight AIR only.

AIR : res7 Recessed



*Fixture mounted sensors and filler panel for nLight AIR only.

ACL5 | TECHNICAL DATA

LINEAR DIMENSIONS

Nominal or exact lengths to the nearest 1/8th of an inch available as individual fixtures or joined to create continuous row lengths, minimum fixture lengths is 12 inches. Patterns comprised of 90 degree precisely welded fully illuminated corners provide a multitude of geometric options and architectural transitions.

Custom - Contact [Design Assist](#) for modifications to product not detailed within specification sheets.

OPTICS

The Tech™ patented high efficacy extruded diffuse acrylic lens technology with integrated opaque white reflector delivers superior lumen output with optimal uniform lens surface luminance for direct distribution.

Flat Blade Louvers are used to cut down on glare and better control the light source on ACL5. This option includes a linear film diffuser (inserted between the louvers and the LEDs), that enhances glare control. The louvers standard finish is aluminum. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

Drop Lens is a light diffuser option for ACL5 that turns the luminaire into a decorative graphical statement. The diffuser drops down from the luminaire's main body of 1" and sits flush with the metal end caps. Once lit, the drop lens glows vividly and offers a wider diffusion pattern.

Perimeter fill - Wall wash, Wall grazer and Batwing wide for direct distributions are film optics that refract light along with an HE Tech™ extruded diffuse acrylic lens with integrated opaque white reflector.

LED LIGHT SOURCE

Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM79 and LM-80; L70>60,000hr; operated at reduced output for high efficacy and lumen maintenance. 2700K, 3000K, 3500K, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Low, Standard, and High outputs. Refer to photometry for delivered lumens. Custom output available in the range 25% to 125% of high output, contact factory.

LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hrs with ambient operating temperature range of -20°C to 50°C, maximum case temperature of 80°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency. Other available drivers include Lutron Hi-lume 1% EcoSystem LED Driver (LDE1) with Soft On, Fade to Black dimming technology; and DALI protocol drivers. Other Lutron and specialty drivers available, contact factory.

EMERGENCY

This luminaire is provided with a factory installed LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This fixture integrated unit contains long-life Ni-Cad recyclable battery, 24 hour charger, and converter circuit. Test switch and charge indicator provided. Test button to be remote located within 3 feet of the luminaire, by others in accordance with local code. Emergency mode provides constant power to a nominal 12W LED load for a period of 90 minutes, delivering 1200 lumens of unwavering illumination throughout the full 90 minute emergency duration. Unless otherwise specified, the emergency battery pack will illuminate one 2 foot end in the direct portion of the fixture.

Emergency circuiting provided as a separate circuit from normal power circuit according to NEC requirements, specify circuit length and location.

CONTROLS

Low-profile integral occupancy and daylight sensors are available to deliver high performance control in an architecturally pleasing package.

Integrated nLight® for system networking wired and wireless:

NLIGHT® AIR WIRELESS

The integrated API smart sensor is part of each luminaire in the nLight® AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application. Optionally you can order nLight® AIR less sensors for compatibility with an nLight Air wireless system. The rIO, rES7, rMSOD, and rCMS models are available for integration.

CONTROLS AND SYSTEM NETWORKING OPTIONS

For wired networking via Cat-5e, choose an nLight® wired module. The nIO EZ PH, nIO EZDL CCT, nES7 and nCM are available for integration.

nLight enabled, remote mounted controls provided by others. Please contact an Acuity controls representative for more information.

MOUNTING

Common recessed mounting options available. Contact factory for applications regarding modified recessed mounting conditions.

Flush Gypsum Flange: Raw aluminum flange is attached to blocking (by others), then mudded over and/or painted by installing contractor to provide a "flangeless" fixture appearance in recessed ceiling/wall applications.

Trim Flange: 1/2" wide visible powder coated flange, specify finish requirement. Fixture is mounted to structure using threaded rod (by others) or ceiling tie wires (provided). Use of a-clamp™ secures fixture trim and housing around ceiling/wall material. Use for any gypsum or hard ceiling/wall that requires a minimal flange covering the ceiling cut-out edge.

ACL5 | TECHNICAL DATA

T-Bar/Grid Ceiling: 9/16" or 15/16" standard T-Bar or 9/16" slot ceiling.
Raw aluminum flange sits on T-Bar and is concealed from view.

STRUCTURE

Robust, high quality 60% recycled aluminum extruded housing. 0.040" thick aluminum internal gear trays. Flat or flanged aluminum end caps. Aluminum joiner brackets. 4 lbs/ft approximate fixture weight.

FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

LISTING

IC Rated for IC, Airtight, CCEA Ceilings. CCEA mark applied for Chicago Plenum applications. UL/CUL rated for Damp Locations. Tested in accordance with UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

UL Wet location label available. Complies with UL definition of wet locations to prevent accumulation of water on live parts, electrical components, or conductor not identified for use in contact with water through the provision of weep holes or through the lens. Waterproof connectors to be provided by others. Installing contractor responsible for properly sealing and waterproofing all field drilled mounting and power feed locations.

WARRANTY

Please refer to the full terms and conditions on our website:
<https://www.alights.com/downloads/warranty/>



PRODUCT DESCRIPTION

Surrounded by a metal drum shade in a variety of sizes and finishes, an internal shade constructed of acrylic evenly diffuses bright LED illumination. Designed for simpler installation and in an aesthetically pleasing silhouette, these practical metal drum shades are offered in Matte White both inside and out, or enhanced by gold or black interiors for reduced glare and stylish design. The series also features a chic Black with Gold interior color combination shade. To round out the collection, all these color options are also made compatible with a pendant accessory that quickly converts the flush mount fixtures into drum shade pendants.

MEASUREMENTS

DIMENSION : 24" L x 24" W x 4.25" H
 HANGING WEIGHT : 5.7 lb

LAMPING

INPUT VOLTAGE : 120-277V
 LUMENS : 3,200 Rated (2,400 Del.)
 BULB : 1 x 40W LED DC Integrated , 40W Total
 BULB INCLUDED : (Integrated)
 CRI : 90 CRI
 COLOR_TEMP : Select 27-50KK

FINISHES OPTION

-  Black / Gold
-  White
-  White / Black
-  White/Gold

MATERIAL

Aluminum, Polycarbonate

RATINGS

Damp Location
 CA Title 24



ADDITIONAL

OPERATING TEMPERATURE:
 -20°C (-4°F), 40°C (104°F)

Always consult a qualified electrician before installing any lighting product.



Contemporary
 Lighting™

WESTERN DISTRIBUTION CENTER (HEADQUARTER)
 253 NORTH VINELAND AVE | CITY OF INDUSTRY, CA 91746

EASTERN DISTRIBUTION CENTER
 4200 SHIRLEY DR. | ATLANTA, GA 30336

P. 626.956.4200 | F. 626.956.4225 | et2online.com

Project		Catalog #		Type	
Prepared by		Notes		Date	



Fail-Safe

Vandal Resistant Vaportite LED

2' and 4' Tamper Resistant LED Vaportite

Typical Applications

Parking Garage • Cold Storage • Canopy • Warehouse • Food Processing • Manufacturing • Complex Environments

Interactive Menu

- Order Information [page 2](#)
- Photometric Data [page 3](#)
- Product Warranty

Product Certification



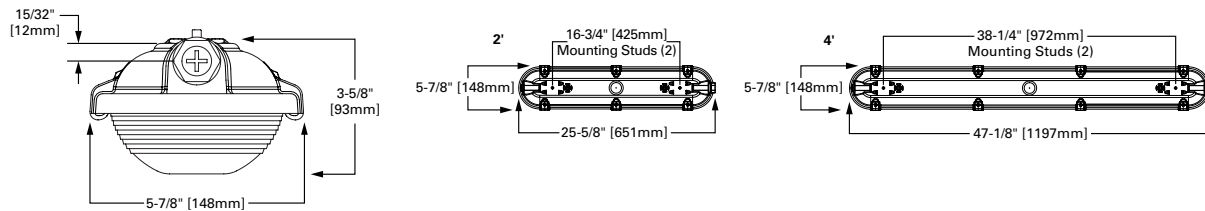
Product Features



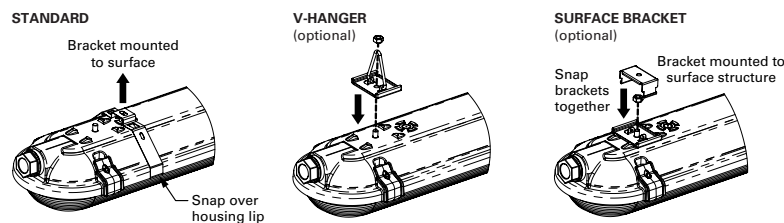
Top Product Features

- Compact and durable fiberglass reinforced polyester housing
- Precision optics in general, wide, or parking garage distribution
- High Impact Polycarbonate optical lens
- Available in 2ft and 4ft, with lumen packages up to 8,000 lumens
- Wet Location and IP67 Listed
- Options to meet Buy American and other domestic preference requirements

Dimensional, Mounting Details



Installation Data



Fail-Safe

2' and 4' Tamper Resistant LED Vaportite

Order Information

SAMPLE ORDER NUMBER: **4VRVT3-LD5-6-G-UNV-L840-CD1-U**

Domestic Preferences	Series	Lamp Type	LED Lumens Output		Distribution	Voltage	Remote Emergency Enclosure
Domestic Preferences ⁽¹¹⁾	Series	Lamp Type	LED Lumens Output		Distribution ^{(7), (8)}	Voltage	Remote Emergency Enclosure
[Blank] =Standard BAA =Buy American Act TAA =Trade Agreements Act	2VRVT3 =2' Vaportite 4VRVT3 =4' Vaportite	LD5 =LED 5.0	2 ft. 2=2000 Lumens 3=3000 Lumens 4=4000 Lumens	4 ft. 4=4000 Lumens 5=5000 Lumens 6=6000 Lumens 8=8000 Lumens	G =General Distribution W =Wide Distribution P =Parking Garage Distribution WPC =Wide Distribution, Polycarbonate PPC =Parking Distribution, Polycarbonate	120V =120 Volt 277V =277 Volt 347V =347 Volt 480V =480 Volt UNV =Universal Voltage 120-277 Volt UNC =Universal Voltage 347-480 Volt	EL10W =10-watt, 120-277V emergency battery pack installed ^{(1), (2), (5)} VT-REM-EL10W =Remote mounted 10-watt, 120-277V emergency battery pack ^{(1), (6)}
Notes <small>(11) Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.</small>			Notes <small>(7) General distribution provided with smooth frosted lens, Wide distribution provided with frosted prismatic lens, and Parking Garage distribution provided with clear prismatic lens. (8) IP69 only available in Wide or Parking Garage distributions.</small>			Notes <small>(1) EL and REM-EL options not available with UNC, 347V and 480V configurations. (2) EL10W available in 4ft 4000 and 6000 lumen packages only. (3) IP ratings require fixtures be mounted horizontally. (4) Specify voltage when ordering sensor option. (5) EL10W option rated for max. 35°C ambient. (6) VT-REM-EL10W option rated for max. 45°C ambient.</small>	

Lamps	Driver Type	Label	Options	Packaging	Accessories
Lamps	Driver Type	Label	Options	Packaging	Accessories (order separately) ⁽¹²⁾
L835 =3500K, LED L840 =4000K, LED L850 =5000K, LED LG52 =Green 520nm LED LA59 =Amber 590nm LED LR63 =Red 630nm LED	CD1 =1 Dimming Driver SLTD1 =Fifth Light DALI	WL =Wet Location Label	SSL =Stainless Steel Latches MSWL20 =Wet Listed Motion Sensor 360° HBE11 =Wet location PIR Indoor/Outdoor Occupancy Sensor ⁽¹⁰⁾	U =Unit Pack	VT3-SS-VBK =Stainless Steel V-Bracket (2 per kit) VT3-SS-SBK =Stainless Steel Surface Bracket (2 per kit)
Notes <small>(10) Available for 120V, 277V, and 347V voltage only.</small>				Notes <small>(12) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.</small>	

Product Specifications

Construction

- Rugged and durable construction
- Fiberglass housing is reinforced polyester and self-extinguishing (ASTM-D635-74) plastic
- Full metal fixture liner
- Watertight housing
- 1/2" conduit entry at each end of housing (standard) for continuous feed
- Polyurethane gasketing provides a continuous seamless seal for the diffuser lens
- Four sturdy cam latches clamp diffuser tightly for a positive seal between housing, gasketing and diffuser
- Stainless steel latches option
- Surface or chain mounting
- Torx (R) Tamperproof Screws to prevent unauthorized access

Electrical

- Long-Life LED system coupled with electrical driver for optimal performance
- LED's available in 3500K, 4000K and 5000K with a CRI ≥ 80
- Projected life is 60,000 hours at 91% lumen output
- Electronic drivers are available for 120-277V applications
- 0-10V dimming control (standard)
- Operating temperature of -40°C to 55°C; Ideal for cold storage environments

Lens

- Thermoformed low profile, high impact 50% DR High acrylic lens
- Smooth frosted lens for general distribution
- Frosted prismatic lens for wide distribution
- Clear prismatic lens for parking garage distribution

Warranty

- Five-year limited warranty

Compliance

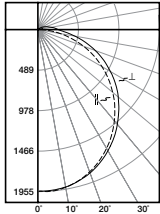
- UL/cUL listed for Wet location
- RoHS compliant
- LED modules comply with IESNA LM-79 and LM-80 standards
- NEMA 4X, IP65, IP66 and IP67 rated (see installation instructions for requirements)
- IP69 rated with wide or parking garage distributions
- NSF International certified for NSF/ANSI Standard 2 – Food Equipment

Fail-Safe

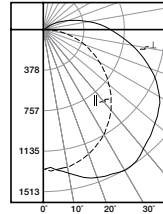
2' and 4' Tamper Resistant LED Vaportite

Photometric Data

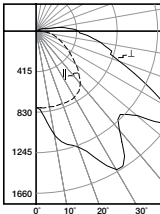
[View IES files](#)



4VRVT3-LD5-6-G-UNV-L840-CD1-U
 Electronic Driver
 Linear LED 4000K
 Spacing criterion: (II) 1.24 x mounting height,
 (L) 1.26 x mounting height
 Lumens: 6033
 Input Watts: 51.1W
 Efficacy: 118.1 lm/W
 Test Report:
 4VRVT3-LD5-6-G-UNV-L840-CD1-U.IES



4VRVT3-LD5-6-W-UNV-L840-CD1-U
 Electronic Driver
 Linear LED 4000K
 Spacing criterion: (II) 1.27 x mounting height,
 (L) 1.67 x mounting height
 Lumens: 6655
 Input Watts: 49.3W
 Efficacy: 135 lm/W
 Test Report:
 4VRVT3-LD5-6-W-UNV-L840-CD1-U.IES



4VRVT3-LD5-6-P-UNV-L840-CD1-U
 Electronic Driver
 Linear LED 4000K
 Spacing criterion: (II) 1.45 x mounting height,
 (L) 2.17 x mounting height
 Lumens: 6050
 Input Watts: 49.3W
 Efficacy: 122.7 lm/W
 Test Report:
 4VRVT3-LD5-6-P-UNV-L840-CD1-U.IES

Energy and Performance Data by Catalog Number

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) ⁽¹⁾	Theoretical L70 (Hours) ⁽²⁾
25°C	> 91%	> 247,000

Notes: (1) Supported by IES TM-21 standards. (2) Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

Ambient Ratings

2ft. Lumen Package	Ambient Rating	4ft. Lumen Package	Ambient Rating
2VRVT3-LD5-2	55°C	4VRVT3-LD5-4	55°C
2VRVT3-LD5-3	50°C	4VRVT3-LD5-5	50°C
2VRVT3-LD5-4	50°C	4VRVT3-LD5-6	50°C
		4VRVT3-LD5-8	45°C

Input Watts:

4VRVT3-LD5-4 (4,000 lumens)=31W
4VRVT3-LD5-5 (5,000 lumens)=44W
4VRVT3-LD5-6 (6,000 lumens)=49W
4VRVT3-LD5-8 (8,000 lumens)=69W

Shipping Data

Catalog No.	Wt.
4VRVT3-LD5	12 lbs.

Fail-Safe

2' and 4' Tamper Resistant LED Vaportite

Energy and Performance Data by Catalog Number

White LED

Catalog Number	Description	Delivered Lumens	Watts	Efficacy (lm/W)
General				
2VRVT3-LD5-2-G-UNV-L850-CD1-U	2ft Vaportight, 2K Lumen, General Dist, 120-277V, 5000K, Dim	2203	16	138
2VRVT3-LD5-3-G-UNV-L850-CD1-U	2ft Vaportight, 3K Lumen, General Dist, 120-277V, 5000K, Dim	3334	24	139
2VRVT3-LD5-4-G-UNV-L850-CD1-U	2ft Vaportight, 4K Lumen, General Dist, 120-277V, 5000K, Dim	4366	32	136
4VRVT3-LD5-4-G-UNV-L850-CD1-U	4ft Vaportight, 4K Lumen, General Dist, 120-277V, 5000K, Dim	4428	32	138
4VRVT3-LD5-5-G-UNV-L850-CD1-U	4ft Vaportight, 5K Lumen, General Dist, 120-277V, 5000K, Dim	5405	44	124
4VRVT3-LD5-6-G-UNV-L850-CD1-U	4ft Vaportight, 6K Lumen, General Dist, 120-277V, 5000K, Dim	6490	51	127
4VRVT3-LD5-8-G-UNV-L850-CD1-U	4ft Vaportight, 8K Lumen, General Dist, 120-277V, 5000K, Dim	8694	67	130
Wide				
2VRVT3-LD5-2-W-UNV-L850-CD1-U	2ft Vaportight, 2K Lumen, Wide Dist, 120-277V, 5000K, Dim	2445	17	144
2VRVT3-LD5-3-W-UNV-L850-CD1-U	2ft Vaportight, 3K Lumen, Wide Dist, 120-277V, 5000K, Dim	3547	25	142
2VRVT3-LD5-4-W-UNV-L850-CD1-U	2ft Vaportight, 4K Lumen, Wide Dist, 120-277V, 5000K, Dim	4700	34	138
4VRVT3-LD5-4-W-UNV-L850-CD1-U	4ft Vaportight, 4K Lumen, Wide Dist, 120-277V, 5000K, Dim	4767	31	154
4VRVT3-LD5-5-W-UNV-L850-CD1-U	4ft Vaportight, 5K Lumen, Wide Dist, 120-277V, 5000K, Dim	5818	44	133
4VRVT3-LD5-6-W-UNV-L850-CD1-U	4ft Vaportight, 6K Lumen, Wide Dist, 120-277V, 5000K, Dim	7159	49	146
4VRVT3-LD5-8-W-UNV-L850-CD1-U	4ft Vaportight, 8K Lumen, Wide Dist, 120-277V, 5000K, Dim	9552	70	136
Parking				
2VRVT3-LD5-2-P-UNV-L850-CD1-U	2ft Vaportight, 2K Lumen, Parking Garage, 120-277V, 5000K, Dim	2228	17	131
2VRVT3-LD5-3-P-UNV-L850-CD1-U	2ft Vaportight, 3K Lumen, Parking Garage, 120-277V, 5000K, Dim	3231	25	129
2VRVT3-LD5-4-P-UNV-L850-CD1-U	2ft Vaportight, 4K Lumen, Parking Garage, 120-277V, 5000K, Dim	4271	34	126
4VRVT3-LD5-4-P-UNV-L850-CD1-U	4ft Vaportight, 4K Lumen, Parking Garage, 120-277V, 5000K, Dim	4338	31	140
4VRVT3-LD5-5-P-UNV-L850-CD1-U	4ft Vaportight, 5K Lumen, Parking Garage, 120-277V, 5000K, Dim	5294	44	121
4VRVT3-LD5-6-P-UNV-L850-CD1-U	4ft Vaportight, 6K Lumen, Parking Garage, 120-277V, 5000K, Dim	6509	49	133
4VRVT3-LD5-8-P-UNV-L850-CD1-U	4ft Vaportight, 8K Lumen, Parking Garage, 120-277V, 5000K, Dim	8671	69	126

Color LED

Catalog Number	Description	Delivered Lumens	Watts	Efficacy (lm/W)
2VRVT3-LD5-2-G-UNV-LG52-CD1-U	2ft Vaportight, 2K Lumen, General Dist, 120-277V, Red 630nm, Dim	328	41	8
2VRVT3-LD5-2-G-UNV-LA59-CD1-U	2ft Vaportight, 2K Lumen, General Dist, 120-277V, Amber 590nm, Dim	573	24	24
2VRVT3-LD5-2-G-UNV-LR63-CD1-U	2ft Vaportight, 2K Lumen, General Dist, 120-277V, Green 520nm, Dim	1638	37	44
2VRVT3-LD5-3-G-UNV-LG52-CD1-U	2ft Vaportight, 3K Lumen, General Dist, 120-277V, Red 630nm, Dim	496	62	8
2VRVT3-LD5-3-G-UNV-LA59-CD1-U	2ft Vaportight, 3K Lumen, General Dist, 120-277V, Amber 590nm, Dim	868	37	24
2VRVT3-LD5-3-G-UNV-LR63-CD1-U	2ft Vaportight, 3K Lumen, General Dist, 120-277V, Green 520nm, Dim	2479	57	44
2VRVT3-LD5-4-G-UNV-LG52-CD1-U	2ft Vaportight, 4K Lumen, General Dist, 120-277V, Red 630nm, Dim	649	83	8
2VRVT3-LD5-4-G-UNV-LA59-CD1-U	2ft Vaportight, 4K Lumen, General Dist, 120-277V, Amber 590nm, Dim	1136	49	23
2VRVT3-LD5-4-G-UNV-LR63-CD1-U	2ft Vaportight, 4K Lumen, General Dist, 120-277V, Green 520nm, Dim	3246	76	43
4VRVT3-LD5-4-G-UNV-LG52-CD1-U	4ft Vaportight, 4K Lumen, General Dist, 120-277V, Red 630nm, Dim	659	84	8
4VRVT3-LD5-4-G-UNV-LA59-CD1-U	4ft Vaportight, 4K Lumen, General Dist, 120-277V, Amber 590nm, Dim	1152	49	24
4VRVT3-LD5-4-G-UNV-LR63-CD1-U	4ft Vaportight, 4K Lumen, General Dist, 120-277V, Green 520nm, Dim	3293	77	43
4VRVT3-LD5-6-G-UNV-LG52-CD1-U	4ft Vaportight, 6K Lumen, General Dist, 120-277V, Red 630nm, Dim	965	132	7
4VRVT3-LD5-6-G-UNV-LA59-CD1-U	4ft Vaportight, 6K Lumen, General Dist, 120-277V, Amber 590nm, Dim	1689	78	22
4VRVT3-LD5-6-G-UNV-LR63-CD1-U	4ft Vaportight, 6K Lumen, General Dist, 120-277V, Green 520nm, Dim	4826	122	40
4VRVT3-LD5-8-G-UNV-LG52-CD1-U	4ft Vaportight, 8K Lumen, General Dist, 120-277V, Red 630nm, Dim	1293	174	7
4VRVT3-LD5-8-G-UNV-LA59-CD1-U	4ft Vaportight, 8K Lumen, General Dist, 120-277V, Amber 590nm, Dim	2263	103	22
4VRVT3-LD5-8-G-UNV-LR63-CD1-U	4ft Vaportight, 8K Lumen, General Dist, 120-277V, Green 520nm, Dim	6465	160	40



**Barlow LED Vanity
BARV Series**

Features

Decorative vanity with a frosted acrylic diffuser. Ideal use for general lighting in indoor residential, commercial, and hospitality applications. Fixture can be mounted horizontally or vertically to a 2" x 4" junction box (not included) or a 4" x 4" box (not included) with included cover plate (shown on SN*).

Construction

Fabricated metal housing. Standard mounting holes and hardware are included. Power supply connections must be made inside a junction box (not included).

Finish

Black, polished chrome, satin brass or satin nickel finish.

Diffuser

Frosted acrylic diffuser.

Electrical

Input 120 VAC 60 Hz.
Compatible with residential TRIAC and ELV dimmers.

LED

Integrated LED modules capable of producing:
18" - 20W = 1800 source lumens, 1000 delivered lumens
24" - 22W = 2600 source lumens, 1125 delivered lumens
36" - 30W = 3800 source lumens, 1634 delivered lumens
3000K (CCT). Rated for 50,000 Hrs., 90 CRI.

Certification

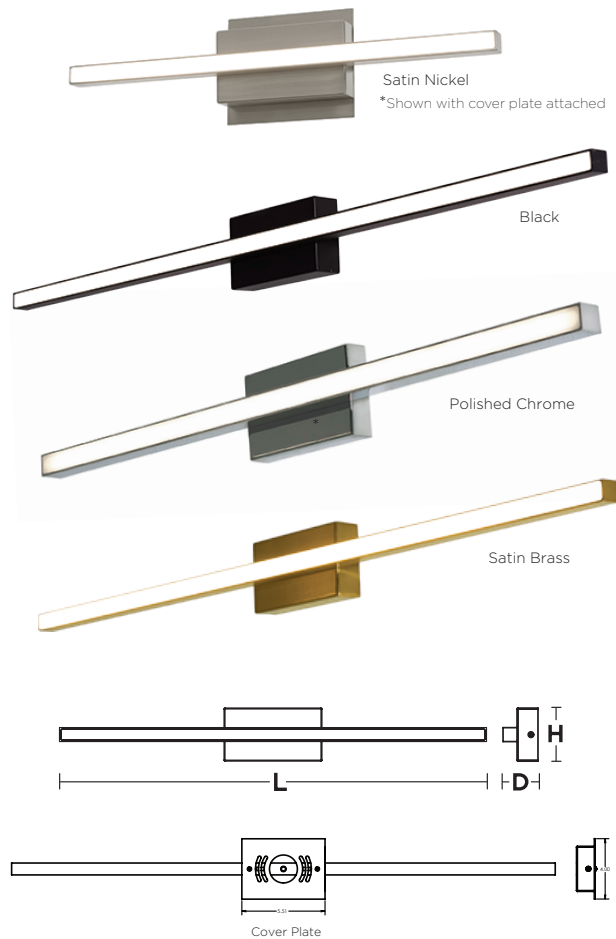
All fixtures are cETLus listed for indoor damp locations.
ADA
Title 24/JA8 Compliant

Warranty

Limited warranty: This fixture is free from defects in materials and workmanship for a period of 5 year from date of purchase.

Specifications and dimensions subject to change without notice.

LOCATION		DATE
PREPARED BY		QUANTITY
COMMENTS		FIXTURE TYPE
CATALOG NUMBER		



Ordering Information:

Black	Polished Chrome	Satin Brass	Satin Nickel	LED	Source Lumens	Delivered Lumens	CCT	L	H	D
BARV1803L30D1BK	BARV1803L30D1PC	BARV1803L30D1SB	BARV1803L30D1SN	20W	1800	1000	3000K	18"	3"	2-1/4"
BARV2403L30D1BK	BARV2403L30D1PC	BARV2403L30D1SB	BARV2403L30D1SN	22W	2600	1125	3000K	24"	3"	2-1/4"
BARV3603L30D1BK	BARV3603L30D1PC	BARV3603L30D1SB	BARV3603L30D1SN	30W	3800	1634	3000K	36"	3"	2-1/4"

Pavo 2" - Wall

SIW12169 2 in

SPILIGHTING
PROJECT DETAILS

JOB NAME:

TYPE:

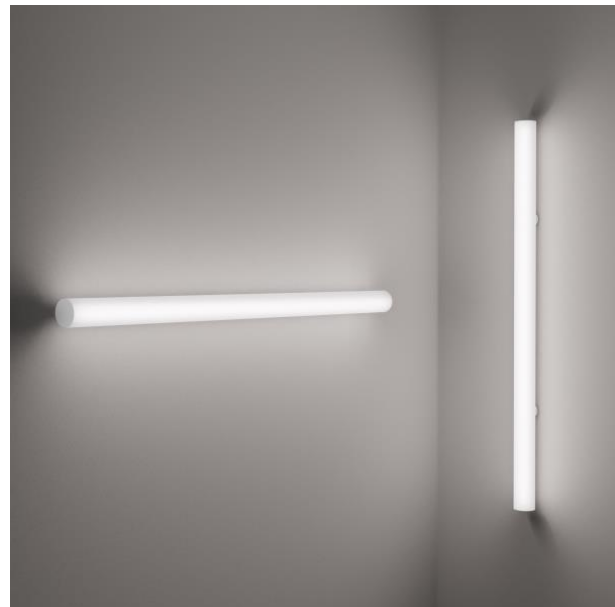
NOTES:

DESCRIPTION

This sleek 2" cylindrical form is a pure expression of light and proof that great design is rooted in simplicity. Pavo 2" Wall is fully illuminated with no housing or metal accents to interrupt its minimalist form. It looks uniform from every angle. Its round diffuser emits a soft gradual display of light on the wall behind the fixture. This low-profile sconce is ADA-compliant and a great choice for hallways, elevator bays, vanities, or anywhere you want to add a simple yet sophisticated line of light. Available in 1' to 6' sizes.

FEATURES & BENEFITS

- The design element you've been missing
- Linearly-lit wall sconce provides even illumination along the entire length of the lens
- Meticulously designed ends have no visible shadowing
- Minimal bracketry and hardware for an exceptionally clean look
- An expression of light in its most basic form
- Provides functional light, up to 750 lumens per foot, with comfortable luminance levels
- Pairs well with the entire Pavo family of pendants
- Mount vertically or horizontally on walls or ceilings
- Compliant with Americans with Disabilities Act (ADA) requirements
- Handcrafted in USA



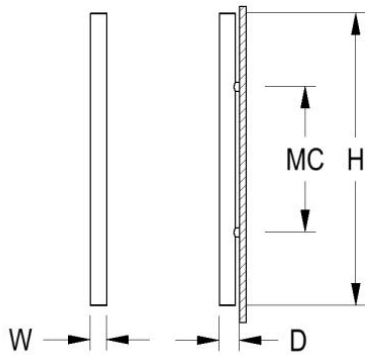
SPECIFICATIONS

- **LIGHT SOURCE:** White LED light engine
- **CRI:** 80+ (contact factory for 90+)
- **LUMEN MAINTENANCE:** L70 = >50,000 Hrs.
- **EFFICACY:** 107 lm/W delivered
- **CCT:** 3000K, 3500K, or 4000K
- **VOLTAGE:** 120-277V standard
- **DRIVER:** Remote or integral Class 2 power supply. Max distance to the driver is: #18 AWG = 50', #16 AWG = 75', #14 AWG = 100'. For extended distances, contact factory.
- **DIMMING:** 0-10V controls standard to 1%
- **INTEGRATED SURGE PROTECTION:** LED components are

protected against minor surge events

- **DIFFUSER:** White matte acrylic
- **CONSTRUCTION:** Aluminum and stainless steel
- **FINISH:** Solid flat end plates and mounting components finished to match. To specify separately, contact factory. Choose from 26 standard thermoset polyester powder coat paint colors or various metal finishes. RAL®, Pantone®, or custom finishes available upon request.
- **MODIFICATIONS:** Consult factory for all modification requests; including different sizes
- **APPROVALS:** ETL listed to UL standards (US & Canada) for use in damp locations; not recommended for exterior applications

DIMENSIONS



1FT	W	H	D	MC
	2 in	12 in	2.5 in	6 in
	5.1 cm	30.5 cm	6.4 cm	15.2 cm

Mounting Weight: Approximate: 5 lb (3 kg)

2FT	W	H	D	MC
	2 in	24 in	2.5 in	12 in
	5.1 cm	61 cm	6.4 cm	30.5 cm

Mounting Weight: Approximate: 5 lb (3 kg)

3FT	W	H	D	MC
	2 in	36 in	2.5 in	18 in
	5.1 cm	91.4 cm	6.4 cm	45.7 cm

Mounting Weight: Approximate: 5 lb (3 kg)

4FT	W	H	D	MC
	2 in	48 in	2.5 in	24 in
	5.1 cm	121.9 cm	6.4 cm	61 cm

Mounting Weight: Approximate: 5 lb (3 kg)

6FT	W	H	D	MC
	2 in	72 in	2.5 in	36 in
	5.1 cm	182.9 cm	6.4 cm	91.4 cm

Mounting Weight: Approximate: 5 lb (3 kg)

CONFIGURATOR

To configure your spec sheet online, go to www.spilighting.com/SIW12169. Not all options are available in all configurations; consult factory for details.

Required Field *

Catalog SIW12169	Light Source*	Primary Finish*	Voltage*	Lamp Options*	Diffuser*	Mounting*
	A		B	C	D	E

A - LIGHT SOURCE *

To ensure color consistency, SPI uses precise bin selection and strict quality processes to maintain a 3-step (MacAdam) SDCM on all white LED

lampings. Published LED luminaire wattages are calculated using a typical power supply efficiency of 88%; exact wattages may vary based on application. Alternative wattages available upon request.

1 FOOT NOMINAL FIXTURE

- 1FT-L5W** | White 5W LED Light Engine | Delivered Lumens: 537
- 1FT-L7W** | White 7W LED Light Engine | Delivered Lumens: 752

2 FOOT NOMINAL FIXTURE

- 2FT-L7W** | White 7W LED Light Engine | Delivered Lumens: 752
- 2FT-L14W** | White 14W LED Light Engine | Delivered Lumens: 1,504

3 FOOT NOMINAL FIXTURE

- 3FT-L10W** | White 10W LED Light Engine | Delivered Lumens: 1,074
- 3FT-L20W** | White 20W LED Light Engine | Delivered Lumens: 2,148

4 FOOT NOMINAL FIXTURE

- 4FT-L14W** | White 14W LED Light Engine | Delivered Lumens: 1,504
- 4FT-L28W** | White 28W LED Light Engine | Delivered Lumens: 3,007

6 FOOT NOMINAL FIXTURE

- 6FT-L21W** | White 21W LED Light Engine | Delivered Lumens: 2,255
- 6FT-L42W** | White 42W LED Light Engine | Delivered Lumens: 4,511

See last page for finish options

B - VOLTAGE *

- 120-277V** | Universal Voltage

C - LAMP OPTIONS *

Delivered lumens shown are at 4000K CCT; apply multiplier for delivered lumens at other CCT.

- 3000K**¹ | 3000K CCT
- 3500K**² | 3500K CCT
- 4000K** | 4000K CCT

¹ Apply .95 multiplier for delivered lumens

² Apply .97 multiplier for delivered lumens

D - DIFFUSER *

- DF_MA01** | Matte Acrylic Diffuser Lens (default)

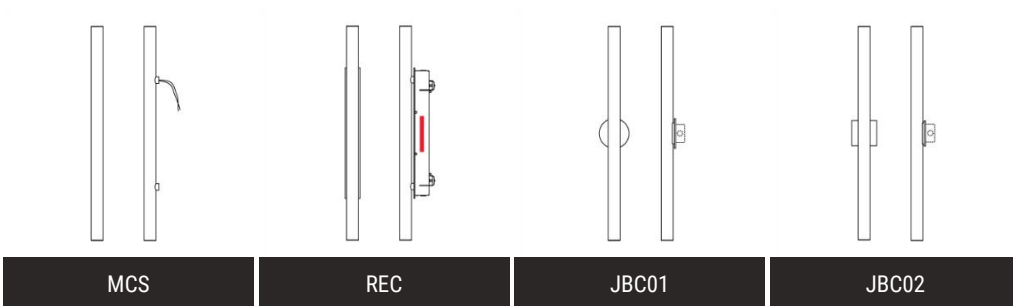


E - MOUNTING *

MCS mounting supplied with 8' lead length and 2.25" round goof plates. REC mounting requires a cut-out for the recessed box that measures 1.75" wide by a height calculated as MC plus 3" and a minimum wall cavity depth of 3.5". Consider wall framing accordingly, as the application requires. The JBC mounting center is one-half the height (H) of the fixture.

- MCS** | Invisible Stems, Remote Power Supply
- REC** | Recessed, Integral Power Supply
- JBC01**³ | 5" Round J-box Cover, Remote Power Supply
- JBC02**³ | 4.3" Square J-box Cover, Remote Power Supply

³ Only available in 1', 2', or 3' sizes



Standard Finishes

The colors shown are representative. Their actual appearance may vary due to differences in display settings. You can request color chips by emailing contact@spilighting.com. Please note, finishes may not be available in all configurations.

Paint Colors

PT01 RAL9003 Signal White (Gloss)	PT51 Matte White (Textured)	PT02 White (Textured)	PT04 RAL9001 Cream (Textured)	PT67 RAL7044 Silk Grey (Textured)
PT53 RAL7035 Light Grey (Textured)	PT54 RAL7037 Dusty Grey (Textured)	PT55 RAL7012 Basalt Grey (Textured)	PT56 RAL7016 Anthracite Grey (Textured)	PT11 Black (Textured)
PT57 RAL1015 Light Ivory (Textured)	PT58 RAL8004 Copper Brown (Textured)	PT59 RAL6021 Pale Green (Textured)	PT60 RAL1019 Grey Beige (Textured)	PT61 RAL7006 Beige Grey (Textured)
PT62 RAL1003 Signal Yellow (Textured)	PT63 RAL3001 Signal Red (Textured)	PT64 RAL6001 Emerald Green (Textured)	PT65 RAL5005 Signal Blue (Textured)	PT66 RAL5003 Sapphire Blue (Textured)

Metallic Paint Colors

PT22 Platinum (Metallic Gloss)	PT48 Brass (Metallic Textured)	PT28 Dark Stainless (Metallic Gloss)	PT49 Bronze (Metallic Textured)	PT32 Dark Bronze (Metallic Gloss)
PT46 Aluminum (Metallic Textured)				

Brushed Aluminum

BAL Brushed Aluminum

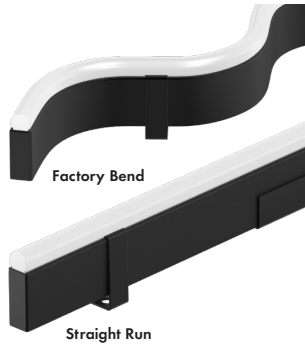
Specialty Finishes



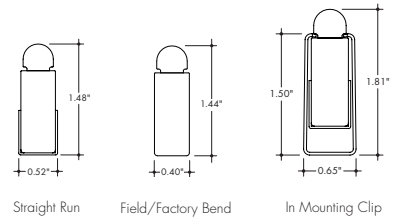
More RAL®, Pantone®, and custom finishes are available upon request. Setup fee and additional lead time applies. Call factory for details.

Plexineon Surface Mount

Static White and Monochrome Colors



- Easy to install, for interior and exterior accent lighting
- Neon look providing a crisp, clear line of light visible for miles
- Creative freedom to make stunning designs, rigid construction maintains factory formed shape
- Mounting clips are included in the appropriate quantities
- Operating temperature: -40° F to 140° F (-40° C to 60° C)
- 24VDC Class 2
- IK10 and 3G rated
- IP67 rated. IP68 rating available upon specific request
- 5 year warranty indoor, 3 year warranty outdoor



Technical Information

MODEL	Plexineon Static White (30K)	Plexineon Monochrome Colors					
		Red	Blue	Green	Magenta	Teal	Yellow
OUTPUT OPTIONS		SO					
Lumens Output (3000K)	123 lm/ft	14 lm/ft	11 lm/ft	50 lm/ft	24 lm/ft	60 lm/ft	62 lm/ft
Average Power Consumption <small>(for a 4' section)</small>	3.2 W/ft	1.2 W/ft	1.4 W/ft	1.5 W/ft	2.6 W/ft	2.9 W/ft	2.7 W/ft
Wavelength	N/A	622 nm	468 nm	525 nm	567 nm	486 nm	563 nm
Efficacy	39 lm/W	12.1 lm/W	8.1 lm/W	33.8 lm/W	9.2 lm/W	20.9 lm/W	23.2 lm/W
Cut Increment		1.97"					
Max Run Length <small>(in series)</small>	30 ft	32ft	32ft	32ft	32ft	32ft	32ft

CCT	Multiplier <small>(reference - 3000K)</small>	TM-30		
		CRI	R _f	R _g
2700k	0.94	90	88	97
3000k	1.00	90	87	97
3500k	1.02	90	87	97
4000k	1.02	90	84	92

Ordering Code

MODEL	RUN LENGTH ¹	BEND	CCT	OUTPUT	LENS	MOUNTING ⁴	FINISH	POWERFEED POSITION/TYPE	QUOTE NUMBER ⁵
PX - Plexineon	____ - Run length in inches, 6" min, no max run length	SR - Straight Run FB - Field Bendable ² EB - Factory Bend, Side/Easy Bend ³ HB - Factory Bend, Top/Hard Bend ³	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	SO - Standard	F - Frosted	SM - Surface Mount, Standard Clips SML - Surface Mount, L-Tab Clips SMS - Surface Mount, S-Tab Clips SMV - Surface Mount, Vertical Clips SMD - Surface Mount Decorative Clips ⁵	GG - Gloss Grey BK - Matte Black GY - Matte Grey WH - Matte White	B-4 - Male Quick Connect One End, Female Quick Connect Other End	(Leave Blank) - For SR or FB ____ - Quote Number entered by Inside Sales used for Factory Bends and Custom Drawings

1. Static White and Monochrome colors are available in 2" increments, +/- 1/8" tolerance. Run Lengths over 96" (8ft) will be made of equal sections no longer than 96".
 2. Field Bendable ships as straight sections which can be bent down to 72" radius min. Field Bendable sections do not include rigid c-channel and may not maintain straightness without appropriately placed mounting clips.
 3. Factory Bends require an Image or Drawing input at time of Quote to calculate total linear/arc length. Factory Bends require a Custom Drawing submittal at time of Order. Allow 2 weeks (typical) for Custom Drawing generation/confirmation process.
 4. Standard mounting clip included approximately every 30" of linear/arc length.
 5. Decorative Clips match the fixture finish, included approximately every 18" of linear/arc length.
 6. Quote Number correlates the Quote to the Custom Drawing. If a single Quote includes different designs having the same length, add -1, -2, -3, etc. to the end of the Quote Number for each unique configuration.

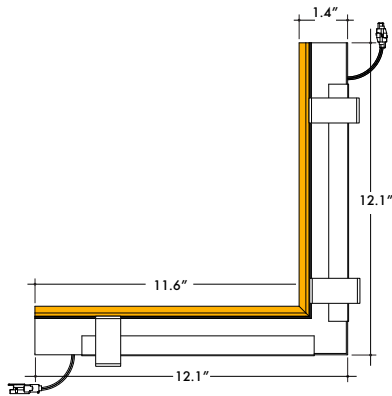
Plexineon Surface Mount

Static White and Monochrome Colors

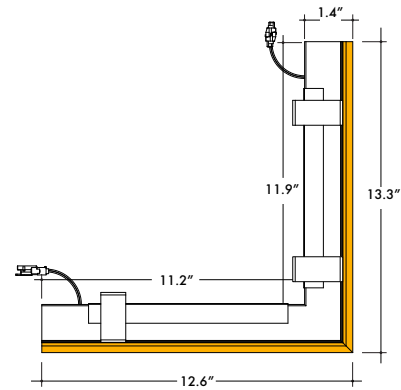


Corner Dimensions

IC-SR
Inside Corner

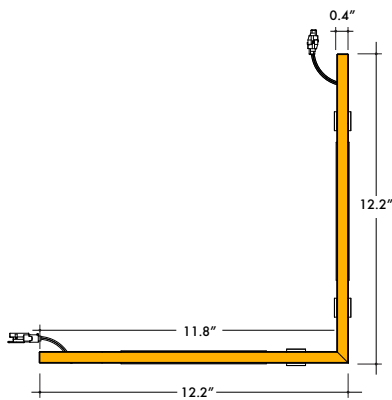


OC-SR
Outside Corner



Note: Outside Corner legs are asymmetric, male connector is on the longer end, female connector is on the shorter end.

HC-SR
Horizontal Corner



Ordering Code

MODEL	CORNER ¹	CCT	OUTPUT	LENS	MOUNTING ¹	FINISH	POWERFEED POSITION/TYPE
PX - Plexineon	IC-SR - Inside Corner OC-SR - Outside Corner HC-SR - Horizontal Corner	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K B - Blue G - Green T - Teal Y - Yellow R - Red M - Magenta	SO - Standard	F - Frosted	SM - Surface Mount, Standard Clips SML - Surface Mount, L-Tab Clips SMS - Surface Mount, S-Tab Clips SMV - Surface Mount, Vertical Clips SMD - Surface Mount Decorative Clips ²	GG - Gloss Grey BK - Matte Black GY - Matte Gray WH - Matte White	B-4 - Male Quick Connect One End, Female Quick Connect Other End

1. Corners include 3 mounting clips.
2. Decorative Clips match the fixture finish.

Plexineon Surface Mount

Static White and Monochrome Colors



Finish Options

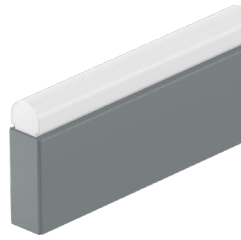
BK
Matte Black Finish



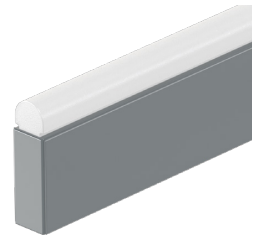
WH
Matte White Finish



GY
Matte Grey Finish



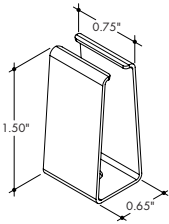
GG
Gloss Grey Finish



Mounting Clips

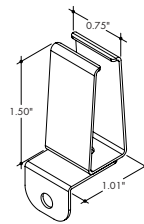
- Mounting Clips are included with Plexineon runs in the appropriate quantity, every 30" of linear/arc length for Standard Clips and every 18" of linear/arc length for Decorative Clips.
- Standard Clips have a stainless steel finish, Decorative Clip finishes match the fixture finishes.
- Standard Clip mounting hole is $\varnothing 0.2"$, Decorative Clip mounting hole is $\varnothing 0.16"$.

SM
75-CLP16-001-00
Surface Mount, Standard Clip



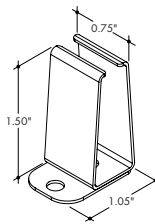
Used for mounting direct to surfaces

SML
75-CLP15-001-00
Surface Mount, L-Tab Clip



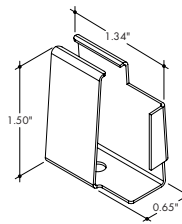
Used for mounting to adjacent surfaces

SMS
75-CLP17-001-00
Surface Mount, S-Tab Clip



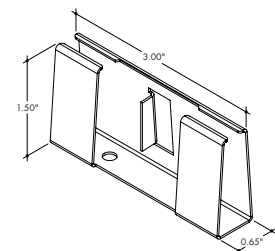
Used for to reduce install time and mounting direct to surfaces with fixture pre-assembled to clips

SMV
75-CLP20-001-00
Surface Mount, Vertical Clip



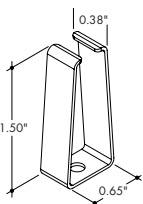
Used to hold fixtures in a vertical orientation

75-CLP19-001-00
Surface Mount, Standard Joiner Clip



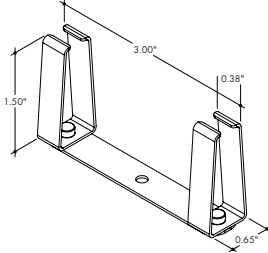
Used to join two fixtures together

SMD
75-CLP36-001-0X
Surface Mount, Decorative Clip



Thinner clip with finish options to match fixtures

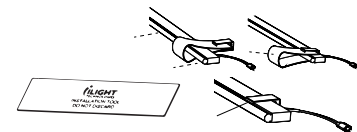
75-CLP37-001-0X
Surface Mount, Decorative Joiner Clip



Thinner clip with finish options to match and join two fixtures together for a continuous run

OX	Clip Finish
00	Stainless Steel
01	Matte Black
02	Matte Grey
03	Matte White

70-TOL02-001-01
Mounting Clip Installation Tool



Use for installation of Plexineon into Mounting Clips

Plexineon Surface Mount

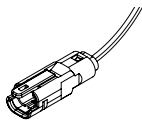
Static White and Monochrome Colors



Additional Material

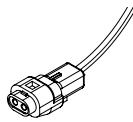
- Connectors are included in the Plexineon runs per CCT option selected. Order extras as desired.

60-H-0002-08
Female Quick Connect
with flying leads



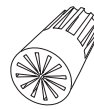
Female Quick Connect with flying leads can be connected to the Power Supply at the start of a run. Can also be used with the Male Quick Connect to make wire jumpers. Use color suffix -08 for Black, -09 for Grey, or -10 for White

60-H-0001-08
Male Quick Connect
with flying leads



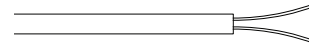
Male Quick Connect with flying leads can be used to make wire jumpers. Use color suffix -08 for Black, -09 for Grey, or -10 for White

60-12-22AWG5BWN
Weatherproof Wire Nut
Silicone Filled



Order 2 per Power Supply

55-STW02-050-00
50 ft of 14 gauge wire Black jacket,
2 conductors



Sunlight, moisture resistant, and flame retardant PVC jacket per UL 1277

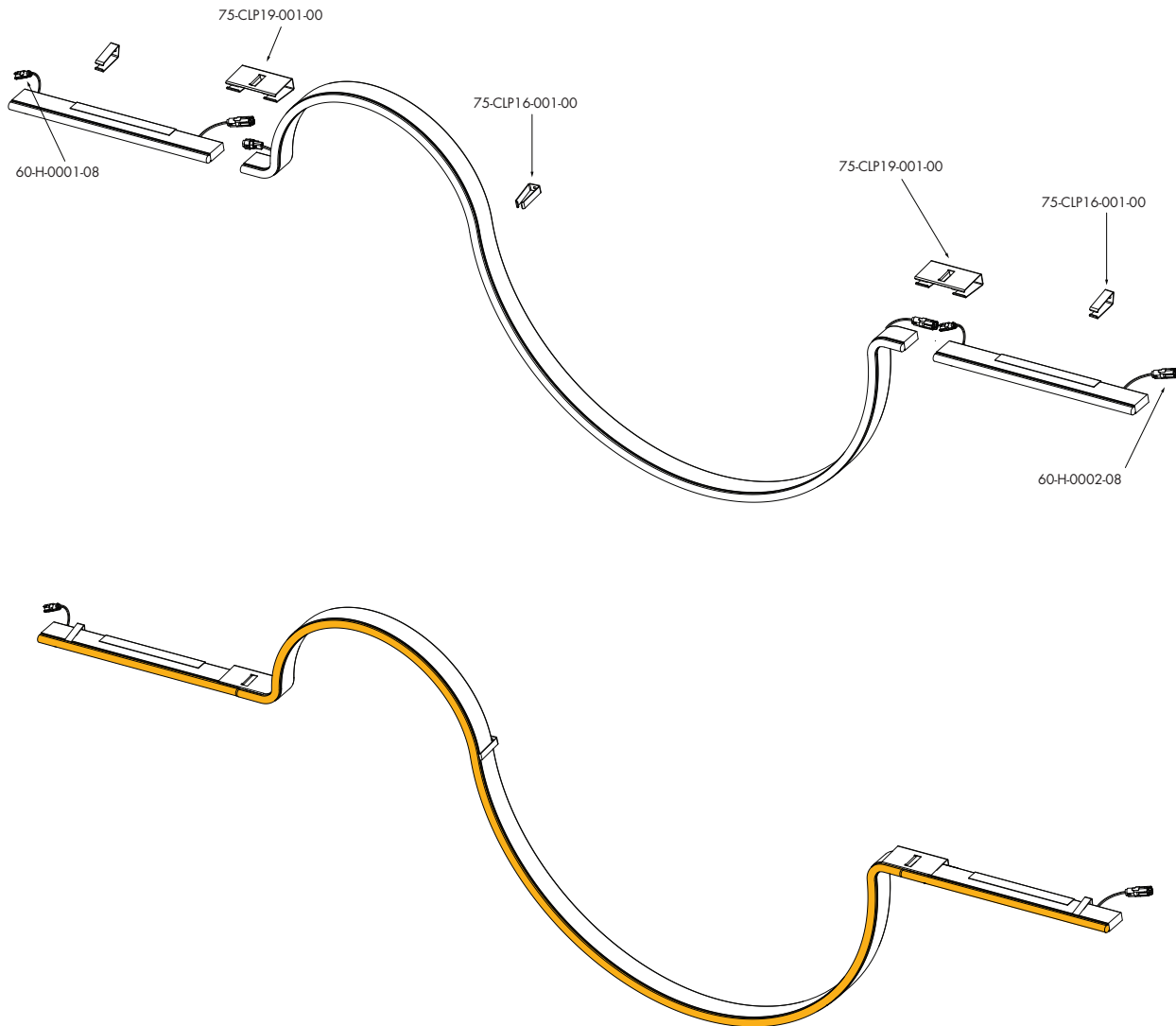
Plexineon Surface Mount

Static White and Monochrome Colors



Sample Layout

PX-120-EB-30K-SO-F-SM-GG-B-4-QXXXXX
Plexineon Factory Bend, Standard Mounting Clips



Plexineon Surface Mount

Static White and Monochrome Colors

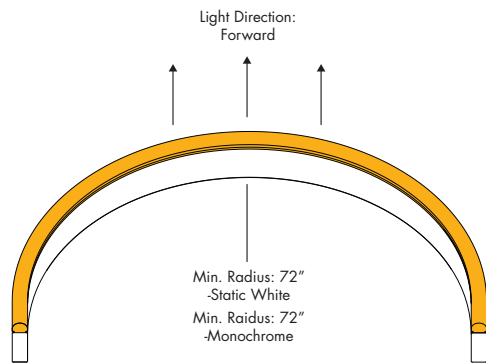


Field Bends

- Field Bends available with Surface Mount installations only.
- Field Bends can be made only in a direction perpendicular to the light output, Horizontal/Easy Bend.
- Field Bendable ship as straight sections which can be bent down to 72" radius min.
- Field Bendable sections do not include rigid c-channel and may not maintain straightness without appropriately placed mounting clips.

FB

Field Bend, Side/Easy Bend

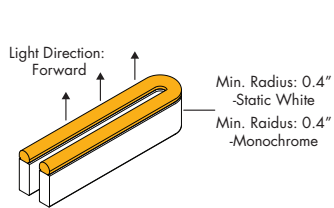


Factory Bends

- Require Custom Drawing submittal and approval.

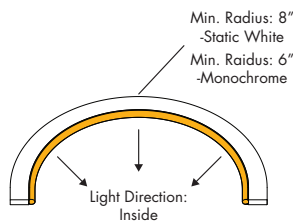
EB

Factory Bend, Side/Easy Bend



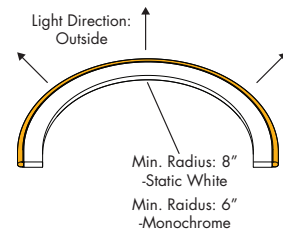
HB

Factory Bend, Top/Hard Bend



HB

Factory Bend, Top/Hard Bend



Plexineon Surface Mount

Static White and Monochrome Colors



Common Applications

Custom Indoor Designs | Coves | Signs | Building Facades | Lobbies | Hallways | Statement Pieces | Restaurants
Corporate Offices | Schools | Residential Towers | Parking Garages | Hotels | Bridges | Benches | Airports



Plexineon Surface Mount
Static White and Monochrome Colors

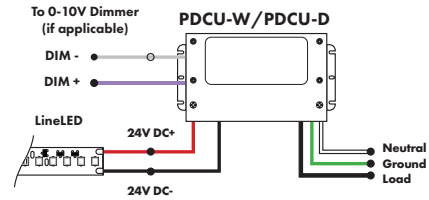


Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Universal Power Supply 1% 120VAC - 277VAC

MODEL	POWER	OUTPUT
PDCU-D - IP20 Dry Series	30 - 30 W 60 - 60 W 96 - 96 W 3X96 - 3X96 W	24 - 24 VDC
PDCU-W - IP66 Wet Series	96 - 96 W 3X96 - 3X96 W	

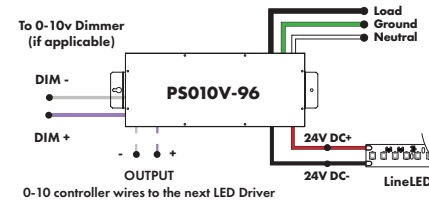


0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.
For a complete list of compatible dimmers, see [Compatible Dimming Chart](#) on the Resources page.

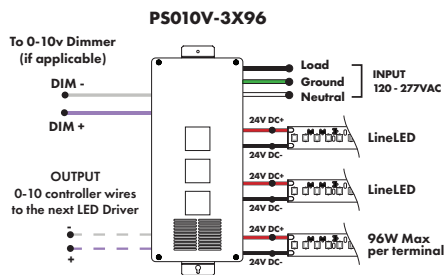
MODELS	PDCU-W 96W	PDCU-W 3X96W	PDCU-D 30W	PDCU-D 60W	PDCU-D 96W	PDCU-D 3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33"	1.32"	1.56"	1.13"

0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING
PS010V - 0-10V Power Supply dims down to 0.1%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC	LIN - linear LOG - Logarithmic



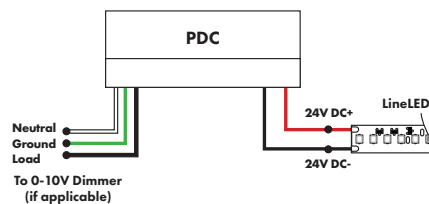
MODELS	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"



Triac, MLV, & ELV Compatible Dimmers

MODEL	POWER	OUTPUT
PDC - (IP20) Power Supply	96 - 96 Watts	24 - 24 VDC

MODELS	96W
Length	8.25"
Width	4.10"
Depth	1.56"



Plexineon Surface Mount

Static White and Monochrome Colors



Power Supplies

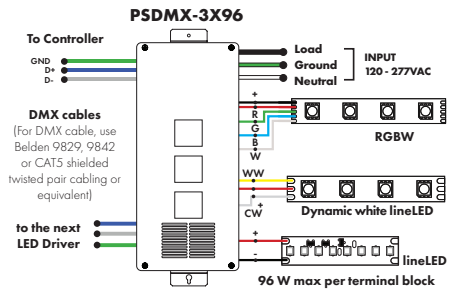
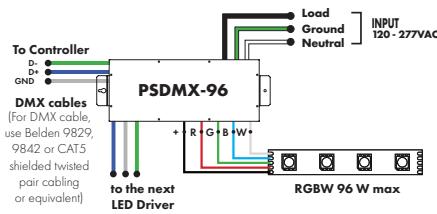
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

DMX Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDMX	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

PSDMX - DMX Power Supply dims down to 0%
Features eldoLED's LINEARdrive configurable dimmable drivers

MODELS	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"

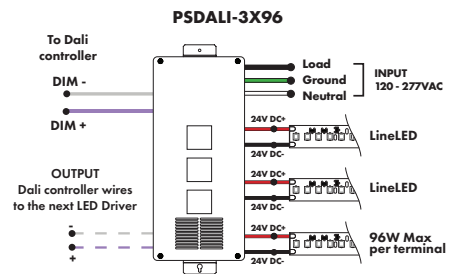
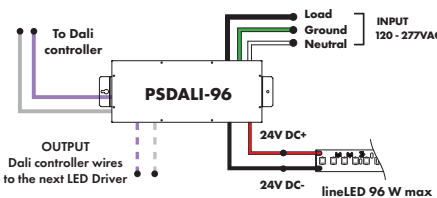


DALI 0% Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDALI	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

PSDALI - DALI Power Supply dims down to 0%
Features eldoLED's LINEARdrive configurable dimmable drivers

Model	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"

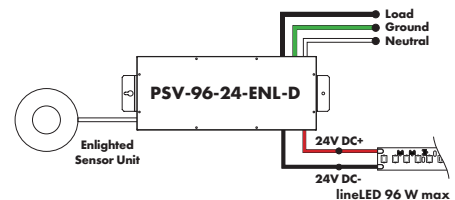


Enlighted Enabled Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV	96 - 96 Watt	24 - 24 VDC	ENL - Enlighted Dimming dims down to 0%	D - Damp

PSV - PSV Series

Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"



Plexineon Surface Mount
Static White and Monochrome Colors



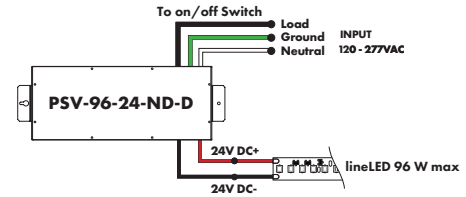
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Non-Dimming Power Supply 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	U2ND - Non Dimming	D - Damp

MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"



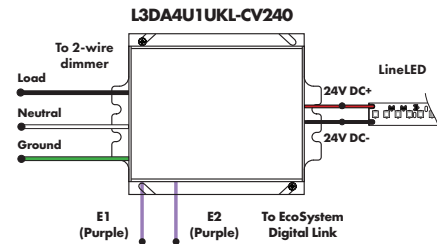
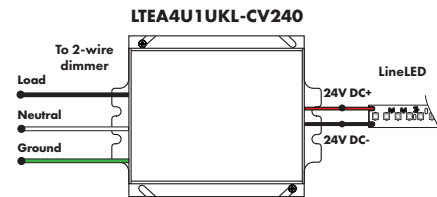
Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 1%

MODEL	MODEL
LTEA4U1UKL-CV240	L3DA4U1UKL-CV240
Lutron - HiLume™ 1% 2-wire LED Driver 40W max	HiLume™ 1% EcoSystem Voltage LED driver 40W max

(120V forward phase only)

MODELS	LTEA4U1UKL-CV240	L3DA4U1UKL-CV240
Length	4.89"	4.98"
Width	4.00"	4.00"
Depth	2.62"	2.62"



Plexineon Surface Mount
Static White and Monochrome Colors



Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

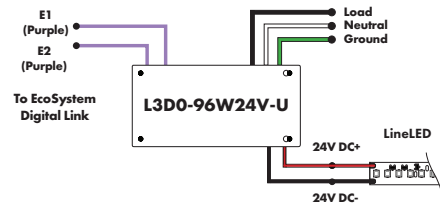


Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 0.1%

MODEL
L3D0-96W24V-U
Hilume™ 0.1% EcoSystem Voltage LED Driver with Soft-On, Fade-to-Black™ 96W max

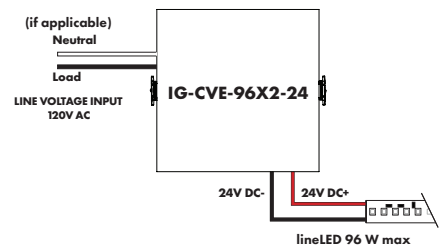
MODELS	L3D0
Length	10.50"
Width	5.50"
Depth	2.00"



In-Ground Power Supplies

MODEL	POWER	OUTPUT	INPUT
IG - In ground CVE Series	96X2 - 2 X 96 Watt	24 - 24 VDC	Blank - 120 V 277 - 240/277 V
	CVE - ELV Dimming DALI - eldoLED Dali dimming Both dims down to 0%		

MODELS	Dual Circuit
Length	8.40"
Width	8.30"
Depth	8.10"



Sure-Lites

DESCRIPTION

The Sure-Lites ES Series Exits are designed for architectural excellence and minimal presence. The crystal clear wedge shaped panel allows architectural details to shine through while providing excellent light distribution and exit visibility. Long life, energy efficient LED lamps reduce energy costs and eliminate routine lamp maintenance.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Electronic

- Dual voltage input 120/277 VAC, 60Hz
- Long-life energy efficient LED lamps
- Solid-state Voltage Charger
- Solid-state Switching
- Brownout Circuit
- Test Switch/Power Indicator Light

Battery

- Sealed nickel cadmium
- Maintenance free, long life
- Full recharge time, 24 hrs (max.)

Housing Construction

- 18-gauge steel housing with conduit knockouts
- Recessed housing available for ceiling or wall mounting
- Adjustable hanger bars
- Connectors facilitate quick installation and maintenance
- Convenient 1/2" knockouts provided in top and end of surface mounted housing

Trim/Housing Plate

- Injection molded high-impact acrylic panel
- NFPA 101 compliant chevron directional indicators (when specified)
- Extruded trim plate in Brushed or Polished Aluminum, Polished Brass, White, Black and Bronze
- Red and Deep Green letter colors

- 6" Letters
- Clear, mirror, or white background
- Torsion springs secure trim plate to housing - no visible mounting hardware

Code Compliance

- UL 924 Listed
- Life Safety NFPA 101
- NEC/OSHA
- Most State and Local Codes

Lamp Data

- LED, Red: Super-bright, long-life LEDs provide uniform illumination

Warranty

- Exit: 5-year
- Battery: 7-year pro-rata (self-powered only)



ES SERIES

- AC
- SELF POWERED
- SURFACE OR RECESSED
- EDGE LIT EXITS
- LED LAMPS
- EXIT LIGHTING



ENERGY DATA

Maximum power consumption under all charge conditions:

LED Exits, Red Letters, AC Only	LED Exits, Green Letters, AC Only
Input Power: 120V = 3.8W 277V = 3.9W	Input Power: 120V = 1.4W 277V = 1.5W
Input Current (Max.): 120V = .03 277V = .02	Input Current (Max.): 120V = .02 277V = .01
Power Factor: 120V = .93 277V = .93	Power Factor: 120V = .67 277V = .66
LED Exits, Red Letters, Self-Powered	LED Exits, Green Letters, Self-Powered
Input Power: 120V = 4.6W 277V = 4.8W	Input Power: 120V = 1.9W 277V = 2.0W
Input Current (Max.): 120V = .04 277V = .02	Input Current (Max.): 120V = .03 277V = .01
Power Factor: 120V = .90 277V = .89	Power Factor: 120V = .63 277V = .61

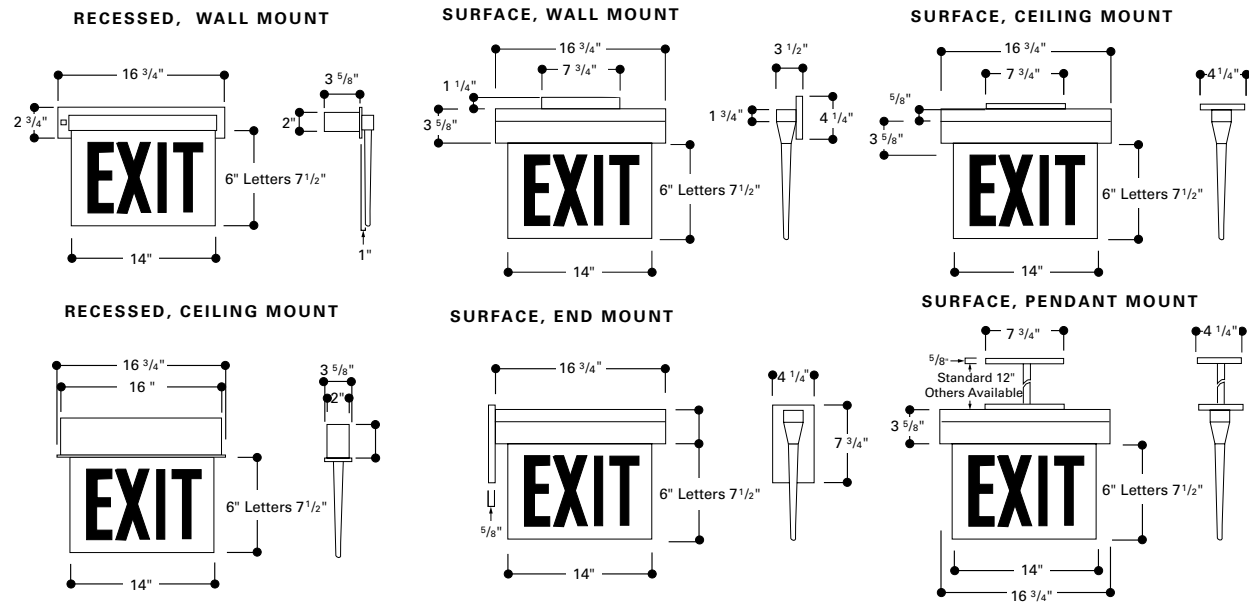
ORDERING INFORMATION

SAMPLE NUMBER: ES61SRC

ES (complete fixture)	Face Options	Battery	Mounting	Trim Finish
ES6 = AC Only ES7 = Self Powered	1 = Single Face 2 = Double Face	Blank = AC Only 70 = Nickel Cadmium	S = Surface Unit Blank = Recessed Only	Blank = Brushed Aluminum WH = White BL = Black BZ = Bronze PA = Polished Aluminum
Letters/Background	Chevron Direction	Mounting Options		
R = Red/Clear (Single Face Only) G = Green/Clear RM = Red/Mirror GM = Green/Mirror RW = Red/White	Blank = No Chevron AR = Right Chevron AL = Left Chevron DA = Double Chevron ARL = Chevrons Right/Left (Double Face Only)	C = Ceiling W = Wall E = End P = Pendant		
ES Recessed (fixture in two parts)				
Recessed Housing	Face Options (Self Powered Option Only)			
ESH6 = Recessed, AC Only ESH7 = Recessed, Self Powered	1 = Single Face 2 = Double Face			
Recessed Trim	Face Options	Trim Finish	Letters/Background	
EST6 = Trim and Panel, AC Only EST7 = Trim and Panel, Self Powered	1 = Single Face 2 = Double Face	Blank = Brushed Aluminum WH = White BL = Black BZ = Bronze PS = Polished Brass PA = Polished Aluminum	R = Red/Clear (Single Face Only) G = Green/Clear RM = Red/Mirror GM = Green/Mirror RW = Red/White	
Chevron Direction	Mounting Options			
Blank = No Chevron AR = Right Chevron AL = Left Chevron DA = Double Chevron ARL = Chevrons Right/Left (Double Face Only)	C = Ceiling W = Wall			



MOUNTING OPTIONS



TECHNICAL DATA

Lamp

Optimized for energy efficiency and aesthetic appearance, the ES Series Exit uses superbright, long-life LED lamps to illuminate the exit lens.

Power Housing (Self-Powered Only)

Dual voltage 120/277 VAC power housing is contained in the rough-in section. It will automatically illuminate the sign face for 90 minutes during a power interruption. Power housing is equipped with maintenance-free sealed nickel cadmium batteries.

Electrical

The electronics with quick connect connectors and simple wiring combine to make installation of the ES Series Exit fast and easy. Self-Powered and AC versions are standard 120/277 VAC. If necessary, ES Series housings and trim assemblies can be shipped separately for rough-in situations.

Housing Construction

The rugged 18-gauge, die formed steel housing has conduit knockouts for easy AC wiring connections. Fully adjustable, captive bar hangers make installation easy.

Trim

The high-impact, clear acrylic lens panel with precision molded lettering and NFPA 101 compliant directional chevrons makes the face panel of this exit sign clearly superior. A choice of red or deep green letters in clear, mirror, or white background inserts (deep green available in clear or mirror only) enables precise control of the fixture's aesthetic appearance. The

rugged extruded trim plate is attached to the housing back box with torsion springs to insure a tight fit against any wall or ceiling surface. The standard brushed aluminum finish blends with most any decor. Other finishes are available.

Solid-State Charger (Self-Powered Only)

Supplied with a 120/277 VAC, voltage regulated solid-state charger. Immediately upon restoration of AC current after a power failure, the charger provides a high charge rate. Solidstate circuitry recharges the battery following a power failure in accordance with UL 924.

Brownout Circuit (Self-Powered Only)

The brownout circuit on Sure-Lites' exits monitors the flow of AC current to the exit and activates the emergency lighting system when a predetermined reduction of AC power occurs. This dip in voltage will cause most ballasted fixtures to extinguish causing loss of normal lighting even though a total power failure has not occurred.

Solid-State Transfer (Self-Powered Only)

The ES Series Exit incorporates solid-state switching which eliminates corroded and pitted contacts or mechanical failures associated with relays. The switching circuit is designed to detect a loss of AC voltage and automatically energizes the LED lamps. Upon restoration of AC power, the emergency circuit will switch off and the charger will automatically recharge the battery.

Test Switch/Power Indicator Light (Self-Powered Only)

Conveniently located combination Test Switch/Power Indicator Light allows for manual verification of proper operation of the transfer circuit and emergency lamps.

Sealed Nickel Cadmium Battery (Self-Powered Only)

Sure-Lites sealed nickel cadmium batteries are maintenance-free with a life expectancy of 10 years. The sealed rechargeable nickel cadmium battery offers high discharge rates and stable performance over a wide range of temperatures.

Warranty

All Sure-Lites' products are backed by a firm five-year warranty against defects in material and workmanship. Maintenance-free, long-life, sealed nickel cadmium batteries carry a 7 year pro-rata warranty.

SHAFTS / POLES

PROJECT NAME: _____

PROJECT TYPE: _____

STRAIGHT

Shaft

Round extruded from 6063 alloy aluminum. Heat treated to produce a T6 temper. Shafts are intended to be paired with a decorative Sun Valley base.



1040
4" Dia.



1050
5" Dia.



1090
6" Dia.

Shaft Wall thickness .125 or .188 engineered to project requirements.

Poles provided with tenon top
Post Top (PT): 2 7/8" O.D. X 3" (73mm X 76mm)
Multiple Luminaires: 2 7/8" O.D. X 6" (73mm X 152mm)

2023041

○ ROUND STRAIGHT ALUMINUM POLE

RNTA 4"

FEATURES

Shaft

4" diameter, extruded from 6063 alloy aluminum tubing. Heat treated to produce a T6 temper. Shaft includes a hand hole furnished with cover. Shaft is furnished with ground lugs located on cast aluminum base plate.

Base Plate

Cast aluminum constructed of A-356 aluminum alloy heat treated to produce a T6 temper. Structurally engineered base includes eight heavy wall reinforcing vertical gussets. Base telescopes and is circumferentially welded to shaft at both the outside top and inside bottom of the base.

Anchorage

(4) anchor bolts fabricated from hot rolled steel bar. Minimum yield strength of 50,000 P.S.I. bolts have "L" bend on one end and are threaded on the other. Bolts are fully galvanized and are furnished with two nuts and two washers.

Base Cover

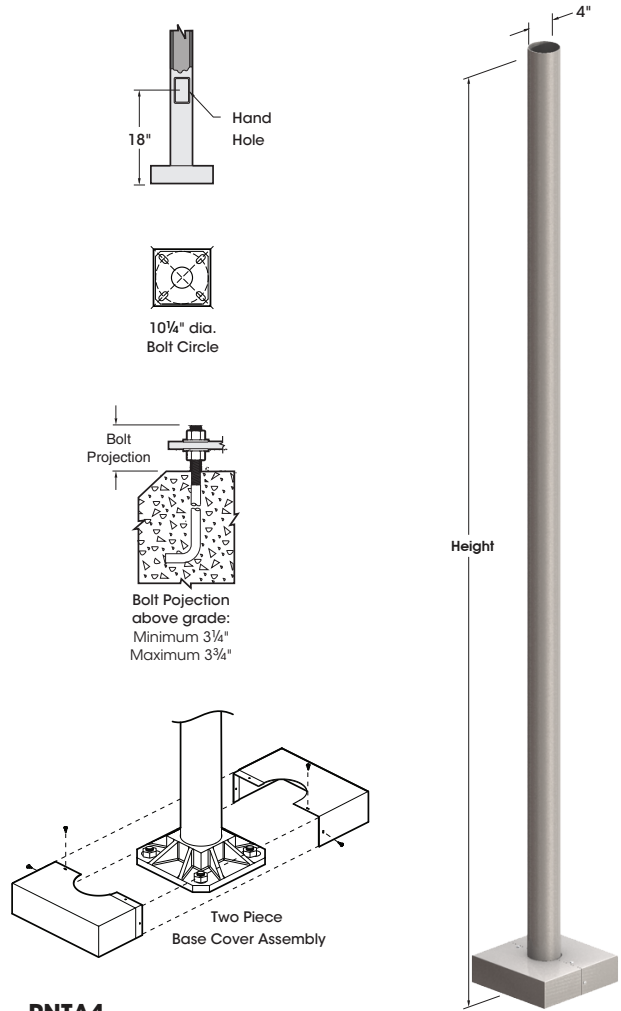
Fabricated from heavy wall aluminum construction. Two piece cover conceals base.

Finish

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

PROJECT NAME: _____

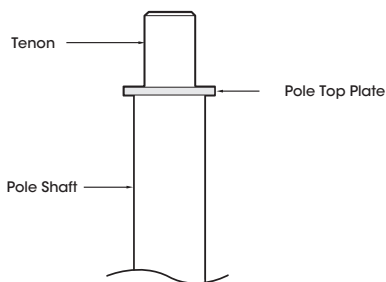
PROJECT TYPE: _____



RNTA4

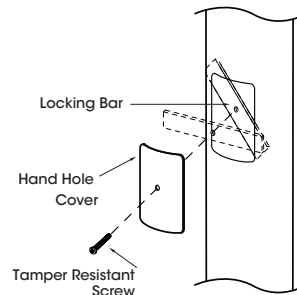
Pole Top Mount

PT23 - 2 3/8" X 4" Tenon PT27 - 2 7/8" X 4" Tenon



Hand Hole Cover

Hand hole cover with tamper resistant bolt assembly



○ RNTA 4"

SPECIFICATIONS

Engineering Data

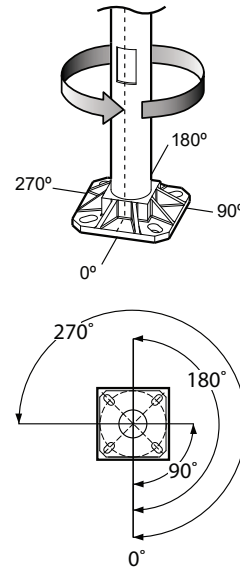
Maximum EPA - Square Feet

Model Number	Max. Fixture Weight	100 MPH	90 MPH	80 MPH	70 MPH
RNTA 84 - 125	100	6.9	8.7	11.4	15.2
RNTA 104 - 125	100	4.7	6.0	8.0	10.9
RNTA 124 - 125	100	3.3	4.4	6.0	8.5
RNTA 144 - 125	100	2.2	3.1	4.5	6.6

All above design calculations are based on sustained wind forces plus additional 1.3 wind gust
 (Example: Pole rated at 80 MPH withstands 104 MPH gusts)

Drilled Side Mount

Specify drilling location using codes below.



ORDERING INFORMATION

Spec/Order Example: RNTA124-125/2-90/RAL-6005-T

Pole Model Number - RNTA 4"					Mounting	Finish	Options
Pole Model Number - RNTA 4"					Mounting	Finish	Options
	Pole Height	Wall Thickness	Bolt Circle	Anchorage			
<input type="checkbox"/> RNTA 84 - 125	8'	.125	10 1/4"	3/4"X18"X3"	Arm Mount <input type="checkbox"/> PT23 2 3/8" X 4" Tenon <input type="checkbox"/> PT27 2 7/8" X 4" Tenon <input type="checkbox"/> Other Tenon Mt _____ Drill Mount <input type="checkbox"/> 1 ● <input type="checkbox"/> 2-180 ●● <input type="checkbox"/> 2-90 ●● <input type="checkbox"/> 3-90 ●●● <input type="checkbox"/> 4-90 ●●●● <input type="checkbox"/> 3-120 ●●●● 3-120 requires PT27 and T3120 Adapter 2-90, 3-90, 4-90 requires PT27 and T490 Adapter	Standard Textured Finish <input type="checkbox"/> Black RAL-9005-T <input type="checkbox"/> White RAL-9003-T <input type="checkbox"/> Grey RAL-7004-T <input type="checkbox"/> Dark Bronze RAL-8019-T <input type="checkbox"/> Green RAL-6005-T For Smooth Finish replace suffix "T" with suffix "S" (Example: RAL-9005-S) See USALTG.COM for additional colors	Receptacle <input type="checkbox"/> Duplex Receptacle DUP <input type="checkbox"/> GFI Receptacle GFI <input type="checkbox"/> 3 Way Adapter T3120 <input type="checkbox"/> 4 Way Adapter T490 <input type="checkbox"/> Round Base Cover RBC Coupling <input type="checkbox"/> 1/2" Coupling CPLN1/2 <input type="checkbox"/> 3/4" Coupling CPLN3/4 <input type="checkbox"/> 2" Coupling CPLN2 Specify Coupling location Refer to the Accessories Section for other options
<input type="checkbox"/> RNTA 104 - 125	10'	.125	10 1/4"	3/4"X18"X3"			
<input type="checkbox"/> RNTA 124 - 125	12'	.125	10 1/4"	3/4"X18"X3"			
<input type="checkbox"/> RNTA 144 - 125	14'	.125	10 1/4"	3/4"X18"X3"			
<input type="checkbox"/> Specify other heights _____							

SOLID STATE AREA LIGHTING

GALAXY3 SERIES-LED

SPECIFICATIONS

HOUSING

Heavy cast low copper aluminum assembly (A356 alloy, <0.2% copper). Minimum wall thickness is .188". Housing attaches to pole via a one piece, cast aluminum arm and a gasketed wiring access cast aluminum door. Housing/pole junction is gasketed. All exposed hardware is stainless steel. Internal protected hardware is electro-zinc plated.

LED OPTICAL MODULE

Low copper A356 alloy (<.2% copper) cast aluminum housing. Integrated clear tempered 3/16" glass lens sealed with a continuous silicone gasket protects emitters (LED's) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module; one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates every Reflector-Prism over an emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, III, IV, and V-SQ distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord. Lens, module and drivers are field replaceable.

LED EMITTERS

High Output LED's are driven at 350mA for nominal 1 Watt output each or 525mA for nominal 1.5 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED DRIVER

UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Texture finish is standard.

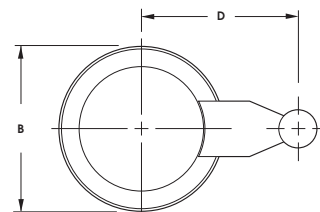
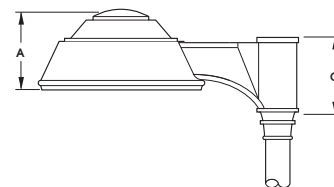
PROJECT NAME: _____

FIXTURE TYPE: _____



GLX3

PATENT PENDING



FIXTURE	A	B	C	D
GLX3	12" 305mm	24" DIA. 610mm	17" 432mm	30" 762mm
GLXM3	9.5" 241mm	18.5" DIA. 470mm	15" 381mm	18" 457mm



2018334



GALAXY3 SERIES - LED

SPECIFICATIONS

TENON MOUNT

27/8" DIA. (73mm)

4" (102mm)

27/8" X 4" TENON REQUIRED FOR SINGLE LUMINAIRE

27/8" X 6" TENON REQUIRED FOR MULTI LUMINAIRE

6" (152mm)

ARM MOUNT FITTER REQUIRED

WALL MOUNT

21" NOM. (533mm)

24" DIA. (610mm)

CORROSION RESISTANT CAST ALUMINUM ARM IS SUPPLIED WITH REMOVABLE CAST ALUMINUM TOP CAP FOR EASY ACCESS TO ELECTRICAL COMPONENTS.

VLED® MODULES

120 LED Module

80 LED Module

GLX3 E.P.A. = 1.75
Available in: 120, 80 & 64 LED Module

GLXM3 E.P.A. = 1.23
Available in: 80, 64 & 48 LED Module

# OF LED's	MAX INPUT WATTAGE	
	DRIVE CURRENT 350mA	525mA
120	131W	198W
100	110W	164W
80	91W	130W
64	70W	105W
48	53W	79W

ARM MOUNT FITTER

5.625" DIA. (143mm)

2" (51mm)

2.75" (70mm) FOR GLXM3

1.25" (32mm)

4" (102mm) FOR GLX3

WIREWAY .563" DIA. (14mm)

.406" DIA. (10mm) (3) HOLES

ARM MOUNT FITTER DRILLED AS REQUIRED

3" I.D.

WALL PLATE

8" (203mm)

12" (305mm)

10" (254mm)

6" (152mm)

.50" DIA. (13mm) (4) HOLES

ORDERING INFORMATION

LUMINAIRE	OPTICS	# of LED's	DRIVE CURRENT	COLOR	VOLTAGE	MOUNTING	FINISH	OPTIONS
LUMINAIRE	OPTICS	LED		MOUNTING	FINISH	OPTIONS		
<input type="checkbox"/> GLX3 <input type="checkbox"/> GLXM3	VLED® IES DISTRIBUTION TYPE <input type="checkbox"/> VLED - II (Type-II) <input type="checkbox"/> VLED - III (Type-III) <input type="checkbox"/> VLED - IV (Type-IV) <input type="checkbox"/> VLED - VSG (Type-VSG)	# of LED's <input type="checkbox"/> GLX3 <input type="checkbox"/> 120LED <input type="checkbox"/> 100LED <input type="checkbox"/> 80LED <input type="checkbox"/> 64LED GLXM3 <input type="checkbox"/> 80LED <input type="checkbox"/> 64LED <input type="checkbox"/> 48LED	DRIVE CURRENT <input type="checkbox"/> 350mA <input type="checkbox"/> 525mA	COLOR <input type="checkbox"/> NW (4000K) *STANDARD <input type="checkbox"/> CW (5000K) <input type="checkbox"/> WW (3000K) OTHER LED COLORS AVAILABLE CONSULT FACTORY VOLTAGE <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480	ARM MOUNT <input type="checkbox"/> 1 <input type="checkbox"/> 2-180 <input type="checkbox"/> 2-90 <input type="checkbox"/> 3-90 <input type="checkbox"/> 3-120 <input type="checkbox"/> 4-90 WALL MOUNT <input type="checkbox"/> WM	STANDARD TEXTURED FINISH <input type="checkbox"/> BLACK RAL-9005-T <input type="checkbox"/> WHITE RAL-9003-T <input type="checkbox"/> GREY RAL-7004-T <input type="checkbox"/> DARK BRONZE RAL-8019-T <input type="checkbox"/> GREEN RAL-6005-T FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9500) SEE USALTG.COM FOR ADDITIONAL COLORS	<input type="checkbox"/> INTERNAL HOUSE SIDE SHIELDS... HS <input type="checkbox"/> EXTERNAL HOUSE SIDE SHIELD... EHS <input type="checkbox"/> DIMMABLE DRIVER(S) (0-10V)... DIM <input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NON-INTEGRATED MOTION SENSOR... HLSW <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V)... PC+V <input type="checkbox"/> TWIST LOCK PHOTOCELL RECEPTACLE ONLY... TPR <input type="checkbox"/> 10KV SURGE PROTECTOR... 10SP <input type="checkbox"/> 20KV SURGE PROTECTOR (277V & 480V Only)... 20SP	

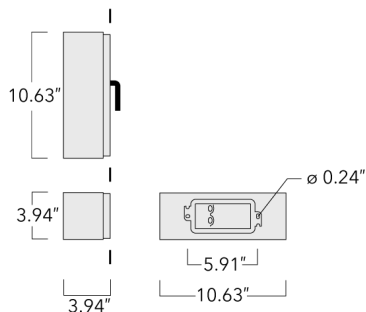


RLS420 LED

Surface Mounted Wall Luminaires



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Description

Surface-mounted wall or ceiling luminaire. ADA (American Disabilities Act) Compliant. IP66. Class I. IK08. Marine-grade, die-cast aluminum alloy. 5CE superior corrosion protection including PCS hardware. Silicone CCG® Controlled Compression Gasket. Safety glass lens. CAD-optimized optics for superior illumination and glare control. Integral driver. OLC® One LED Concept. Advanced thermal management protects LEDs while optimizing lumens output. 0-10V Dimming comes standard with luminaire. Luminaire is factory-sealed and does not need to be opened during installation. Luminaire can be mounted for up or down lighting. Suitable for installation on ceiling or wall over 4" recessed junction box. Specify product with 7 Digit product code – Finish Color. Accessories, such as mounting, optical, and electrical, must be specified separately. Example: XXX-XXXX-9004 (Black) + XXX-XXXX (Accessory 1)

RLS420 LED





Surface Mounted Wall Luminaires


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we-ef

Specifications

Material Specification

Body:	Marine-grade, die-cast aluminium alloy
Lens:	Safety glass lens
Colours:	 RAL9004 Black  RAL9007 Grey Metallic  RAL9016 White  RAL8019 Dark Bronze

 Quick Ship	Quickship features a one week ship time for Steplights and two week ship time for the rest of our Core products. All applicable information must be included for orders to be processed and colors must be in one of our 4 standard finishes. A maximum order quantity of 30 pieces applies.
--	--

Gasket:	Silicone CCG® Controlled Compression Gasket
Fasteners:	PCS Polymer Coated Stainless Steel Hardware
Ingress protection:	IP66
Impact protection:	IK08
Corrosion protection:	5CE

Electrical Specification

Power supply:	Integral [ECG] electronic driver 120V-277V. 0-10V dimmable, to be specified with order.
Driver / Ballast:	Standard. Optional DALI version available. To be specified at time of ordering.

Lifetime

Ta=25°/40° L90B10 > 90000h











RLS420 LED

Surface Mounted Wall Luminaires

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Choices

Light Distributions	Nominal Lumen	Nominal Watt	Colour Temperatures	Colours
 rectangular asymmetric Type II [R45]	1398 1476	12 18	 2700 K	 RAL9004 Black
 symmetric, medium beam [M]	2220 2340	26	 3000 K	 RAL9007 Grey Metallic
 symmetric, narrow beam [N]	2700 2839 2993 3453		 4000 K	 RAL9016 White  RAL8019 Dark Bronze

RLS420 LED

Surface Mounted Wall Luminaires



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Configurations

Light Distributions	Part ID	Light Source	Delivered Lumens	Rated Input Power	CRI	Weight	Link
rectangular asymmetric Type II [R45]	131-9610	LED-6/12W / 700 mA - 2700 K	1020.8	14.5	80	5.73	📄 ↗
	131-9980	LED-6/12W / 700 mA - 3000 K	1096.4	14.5	80	5.73	📄 ↗
	131-9981	LED-6/12W / 700 mA - 4000 K	1172	14.5	80	5.73	📄 ↗
	131-9611	LED-6/18W / 1050 mA - 2700 K	1468.6	21	80	5.73	📄 ↗
	131-9982	LED-6/18W / 1050 mA - 3000 K	1540.2	21	80	5.73	📄 ↗
	131-9983	LED-6/18W / 1050 mA - 4000 K	1611.9	21	80	5.73	📄 ↗
	131-9612	LED-6/26W / 1400 mA - 2700 K	1862.6	29	80	5.73	📄 ↗
	131-9984	LED-6/26W / 1400 mA - 3000 K	1970.1	29	80	5.73	📄 ↗
	131-9985	LED-6/26W / 1400 mA - 4000 K	2059.6	29	80	5.73	📄 ↗
	symmetric, medium beam [M]	131-9613	LED-6/12W / 700 mA - 2700 K	1300.7	14.5	80	5.73
131-9986		LED-6/12W / 700 mA - 3000 K	1397.1	14.5	80	5.73	📄 ↗
131-9987		LED-6/12W / 700 mA - 4000 K	1493.4	14.5	80	5.73	📄 ↗
131-9614		LED-6/18W / 1050 mA - 2700 K	1944.8	21	80	5.73	📄 ↗
131-9988		LED-6/18W / 1050 mA - 3000 K	2039.7	21	80	5.73	📄 ↗
131-9989		LED-6/18W / 1050 mA - 4000 K	2134.6	21	80	5.73	📄 ↗
131-9615		LED-6/26W / 1400 mA - 2700 K	2466.6	29	80	5.73	📄 ↗
131-9990		LED-6/26W / 1400 mA - 3000 K	2608.9	29	80	5.73	📄 ↗
131-9991		LED-6/26W / 1400 mA - 4000 K	2727.5	29	80	5.73	📄 ↗
symmetric, narrow beam [N]		131-9616	LED-6/12W / 700 mA - 2700 K	1223.2	14.5	80	5.73
	131-9992	LED-6/12W / 700 mA - 3000 K	1313.8	14.5	80	5.73	📄 ↗
	131-9993	LED-6/12W / 700 mA - 4000 K	1404.4	14.5	80	5.73	📄 ↗
	131-9617	LED-6/18W / 1050 mA - 2700 K	1972.3	21	80	5.73	📄 ↗
	131-9994	LED-6/18W / 1050 mA - 3000 K	2068.5	21	80	5.73	📄 ↗
	131-9995	LED-6/18W / 1050 mA - 4000 K	2164.7	21	80	5.73	📄 ↗
	131-9618	LED-6/26W / 1400 mA - 2700 K	2501.5	29	80	5.73	📄 ↗
	131-9996	LED-6/26W / 1400 mA - 3000 K	2645.8	29	80	5.73	📄 ↗
	131-9997	LED-6/26W / 1400 mA - 4000 K	2766.1	29	80	5.73	📄 ↗

Related Families / RLS400

Family	Dimensions	Wattage	Nominal Lumen	Links	
				Links	Download Data Sheet
RLS410 LED	7.09 x 3.94	6 -13 W	699 -1727	📄 ↗	📄 ↓
RLS420 LED	10.63 x 3.94	12 -26 W	1398 -3453	📄 ↗	📄 ↓

WE-EF LIGHTING USA LLC

Spec Support Hotline: +1 412 783 0949 | 410-D Keystone Drive | Warrendale PA 15086 U.S.A. | Tel +1 724 742 0030 | info.usa@we-ef.com | www.we-ef.com | 01-03-2023 01:50
 Technical modifications and errors excepted

RLS420 LED

Surface Mounted Wall Luminaires

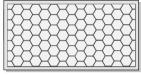
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Optical Accessories

Honeycomb louvre

■ 131-9706 Honeycomb louvre IW



SPECIFICATIONS

DESCRIPTION:

Wall mount MR16 accent fixture. Suitable for wet/damp/dry location installations.

MATERIAL:

Standard overall material is 6061 aluminum.
HL-340 - Machined Aluminum (Standard)
HL-340-2b - Machined Brass

FINISH:

- AA** - Anodized Satin Aluminum
- AP** - Powder Coat Aluminum
- BK** - Powder Coat Black
- BZ** - Powder Coat Bronze
- WT** - Powder Coat White
- N** - Natural, for Stainless Steel and Brass

HALOGEN LAMPING OPTION:

Lamp Type - 12V halogen MR16 lamp, bi-pin GX5.3 base, 50W max, not included (standard).

LED OPTIONS

Integral high output LED, warm white 85 CRI (3000K CCT) standard, others available.
3LED - 3W LED - 180 lumens
8LED - 8W LED - 300 lumens
8LED-E - 8.4W LED - 565 lumens

OPTICS

- 3LED and 8LED:
 - SP** - Spot, 12°
 - NF** - Narrow Flood, 24°
 - FL** - Flood, 36°
- 8LED-E:
 - SP** - Spot 14°
 - NF** - Narrow Flood, 25°
 - MF** - Medium Flood, 30°
 - FL** - Flood, 40°

VOLTAGE:

12 - 12 VAC output transformer required, not included.

MOUNTING:

Fixture is equipped with a 4.75" mounting plate and (2) mounting screws.

OPTIONS:

Glare shields

- GL-10** - Short Angled, aluminum
- GL-11** - Angled, aluminum
- GL-12** - Angled, brass
- GL-13** - Straight, aluminum
- GL-14** - Straight, brass

Lenses/Louvers/Color Filters

- LA-1** - Hexcell Louver (Black)
- LA-2** - Prismatic lens
- LA-3** - Linear spread lens
- LA-4** - Soft focus lens (diffused)
- LA-5** - Moonlight lens
- LA-6** - Blue lens

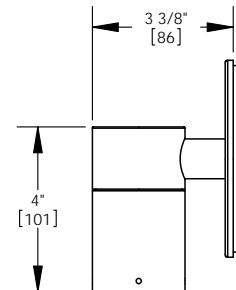
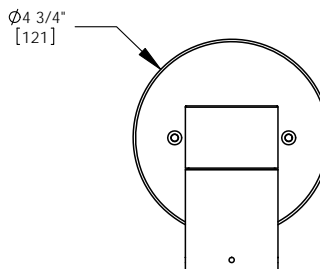
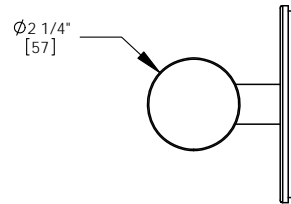
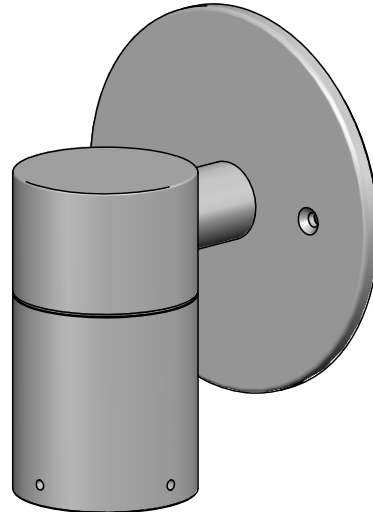
See fixture accessories for more information.

SAMPLE ORDER SPECIFICATION:

HL-340-AA-12-LA-6

RATING:

Wet/damp/dry location.



MADE IN THE USA

ORDER SPECIFICATION: _____ - _____ - _____ - _____ - _____
Fixture Finish Lamping Voltage Options/Access.

PROJECT:
APPROVED:
NOTE:
TYPE:

HEVI LITE, INC.
 9714 Variel Ave, Chatsworth, CA 91311
 Tel., (818) 341-8091 - Fax (818) 998-1986
 Web Site <http://www.hevilite.com>

CATALOG NUMBER:
HL-340