FINELITE®
Better Lighting

Declare. Third Party Verified

Date	
Project	
Type	
Comments	

Optional Curved Endcap shown

Flat Endcap

Diffuse Center Optic shown
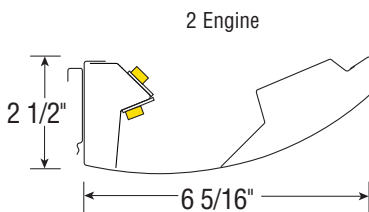Signal White is standard finish
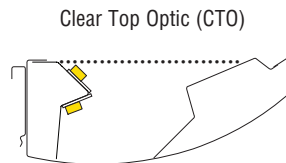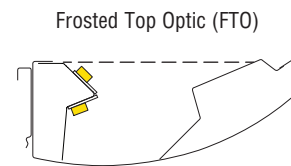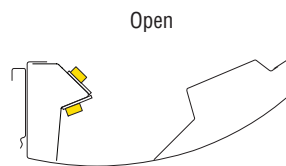
Optional Standoff Mount shown

DESCRIPTION

Series 12 LED is a luminaire with a classic curved shape and is available with 2 light engines. The luminaire uses mid-power LEDs for long life and enhanced performance. It is available with a standard flat endcap or an optional extended diecast aluminum endcap. This Product is enrolled in the International Living Future Institute (ILFI) Declare 2.0 Program and is third-party verified with options achieving Red List Approved and Declared status.

LIGHT ENGINE

2 Engine

2 1/2"

6 5/16"

OPTIC OPTIONS

Open

Frosted Top Optic (FTO)

Clear Top Optic (CTO)

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2E FEATURES

DIMENSIONS & LIGHT ENGINE

2 1/2"

6 5/16"

OPTIC OPTIONS

Open

Frosted Top Optic (FTO)

Clear Top Optic (CTO)
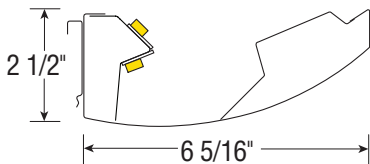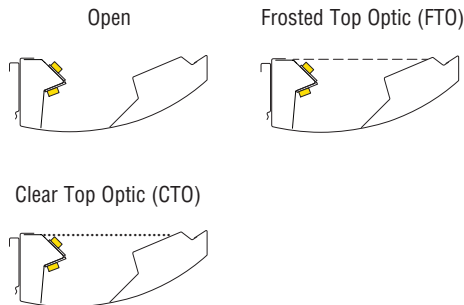
Date	
Project	
Type	
Comments	

LUMEN PACKAGES
Available in four outputs.

☑ **Standard Output**

☑ **Boosted Output**

☑ **High Output**

☑ **Very High Output**

ORDERING GUIDE:

Sample Number: S12 LED WM ID - DCO - 8' - 2E - S - 835 - OPEN - 120V - FC-10% - SC - SUR - FE - SW - OBO - RLA

Series 12 LED WM ID

Finelite **Series 12 LED WM ID**

Shielding (**DCO**, **WCB**, **PLV**)

Lenght (**4'**, **8'**, multiples standard)

Light Engine System (**2E** - 2 Light Engine)

Light Output (**S** - Standard, **B** - Boosted Standard, **H** - High, **V** - Very High)

LED CRI/CCT (**830** - 80 CRI min, 3000K; **835** - 80 CRI min, 3500K;
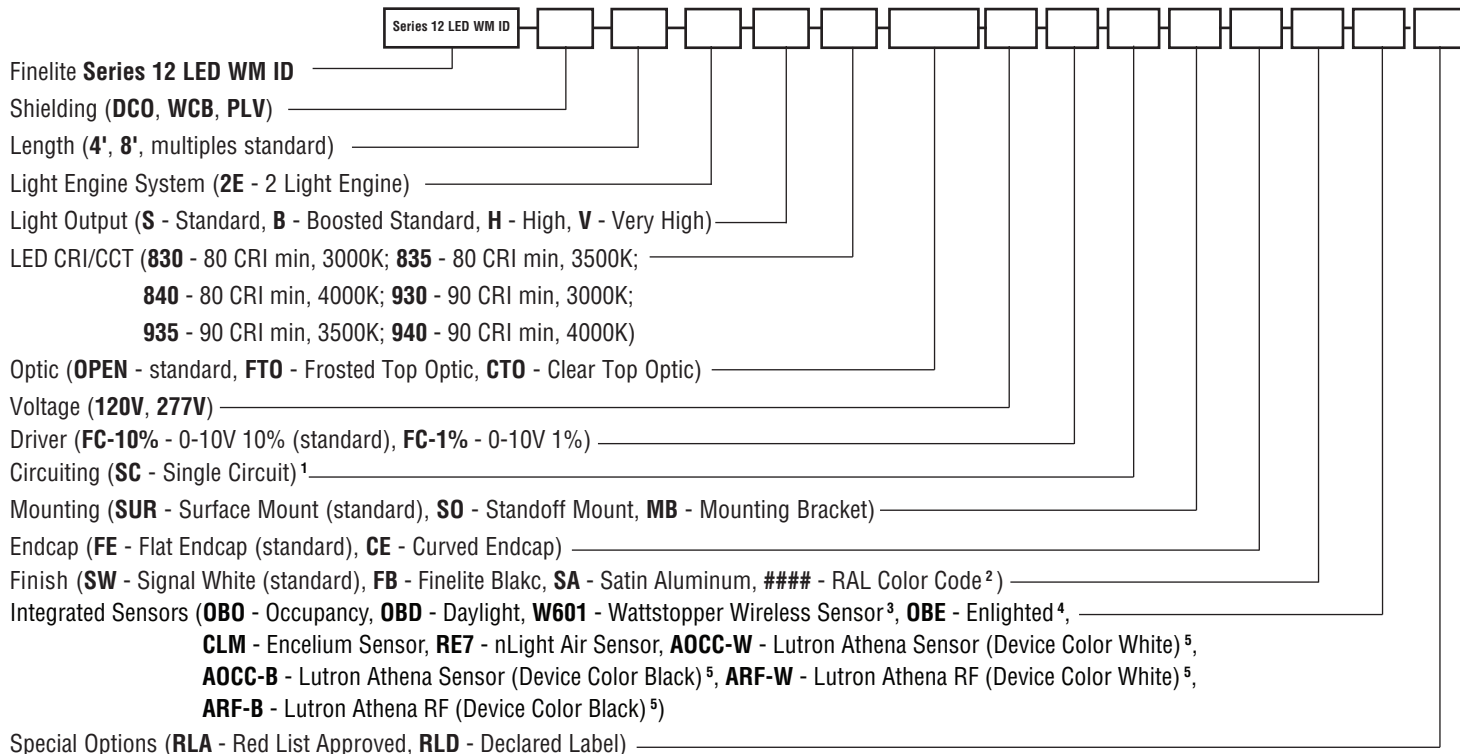   **840** - 80 CRI min, 4000K; **930** - 90 CRI min, 3000K;
      935 - 90 CRI min, 3500K; **940** - 90 CRI min, 4000K)

Optic (**OPEN** - standard, **FTO** - Frosted Top Optic, **CTO** - Clear Top Optic)

Voltage (**120V**, **277V**)

Driver (**FC-10%** - 0-10V 10% (standard), **FC-1%** - 0-10V 1%)

Circuiting (**SC** - Single Circuit)[1]

Mounting (**SUR** - Surface Mount (standard), **SO** - Standoff Mount, **MB** - Mounting Bracket)

Endcap (**FE** - Flat Endcap (standard), **CE** - Curved Endcap)

Finish (**SW** - Signal White (standard), **FB** - Finelite Blakc, **SA** - Satin Aluminum, **####** - RAL Color Code[2])

Integrated Sensors (**OBO** - Occupancy, **OBD** - Daylight, **W601** - Wattstopper Wireless Sensor[3], **OBE** - Enlighted[4],
      CLM - Encelium Sensor, **RE7** - nLight Air Sensor, **AOCC-W** - Lutron Athena Sensor (Device Color White)[5],
      AOCC-B - Lutron Athena Sensor (Device Color Black)[5], **ARF-W** - Lutron Athena RF (Device Color White)[5],
      ARF-B - Lutron Athena RF (Device Color Black)[5])

Special Options (**RLA** - Red List Approved, **RLD** - Declared Label)

[1] Contact factory for switching options.
[2] 20 business days lead time for color
[3] LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected / LMFS-601 w/ DALI driver, only 1 driver can be connected.
[4] Enlighted components installed by Finelite, provided by others
[5] 0-10V Drivers - AOCC up to 10 drivers may be connected; ARF up to 40 drivers may be connected / DALI Drivers - AOCC & ARF up to 4 drivers can be connected.

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2E OPEN PHOTOMETRY - 4 ft. Luminaire
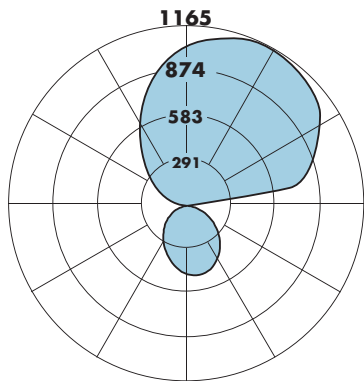
Series 12-LED-WM-ID-DCO-**2E**-V-835-**OPEN**
Distribution: 75% up / 25% down
Efficacy: 124 lumens per watt
Total Luminaire Output: 4624 lumens (1156 lumens/foot)
37.2 watts (9.3 watts/foot)
CCT: 3500K
ITL LM79 Report 85167

1165
874
583
291

CANDLEPOWER SUMMARY					
	0.0	22.5	45.0	67.5	90.0	Flux
0	448	448	448	448	448	
5	457	456	454	450	445	42
15	454	452	446	435	423	119
25	421	420	413	399	384	175
35	366	365	359	347	330	203
45	297	296	292	283	269	203
55	221	220	219	214	204	177
65	144	143	145	142	138	130
75	70	70	72	73	72	71
85	12	12	13	15	16	17
90	1	1	1	0	0	
95	3	4	8	227	39	93
105	868	808	655	470	235	385
115	955	932	936	791	607	501
125	1090	1055	936	791	607	566
135	1120	1091	1004	916	757	578
145	1130	1114	1087	995	873	537
155	1164	1155	1119	1042	958	440
165	1145	1135	1112	1056	1013	286
175	1075	1071	1064	1057	1037	99
180	1040	1040	1040	1040	1040	

2E OPEN

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminare			
S*	B*	H*	V**
1893	2380	3596	4624

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S*	B*	H*	V**
473	595	899	1156

Power, 3500K, 80 CRI (Watts Per Foot)			
S*	B*	H*	V**
3.6	4.6	7.1	9.3

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S*	B*	H*	V**
130	129	126	124

* Family Correlation based on 4 ft. luminaire 3500K Very High Output **(V)** test - 120V.
** Based on ITL report: 85167
S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

Lumen Adjustment Factors - 80 CRI	
3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors - 90 CRI	
3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H) 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output =
3596 lm x 0.789 = 2837 lm

Total Light Output per Foot =
899 lm/ft x 0.789 = 709 lm/ft

watts/foot = 7.1 W/ft

$$\text{Efficacy} = \frac{709 \; \frac{lm}{ft}}{7.1 \; \frac{W}{ft}} = 100 \; lm/W$$

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SPECIFICATIONS

CONSTRUCTION: Body is 20-gauge die-formed steel with an 18-gauge die-formed internal joiner system. Plug-together wiring standard. All components are hard-tooled to tolerances of +/- 0.010".

ENDCAPS: The Flat Endcap (**FE**) is standard and made of 20-gauge die-formed steel adding 1/8" at each end. The optional Curved Endcap (**CE**) is an aluminum die-cast endcap with a 1/8" reveal adding 5.0" at each end.

OPTICS:

Open	Standard
FTO	Frosted Top Optic
CTO	Clear Top Optic

SHIELDING OPTIONS:

DCO — Diffuse Center Optic, 73% transmissive, 99% diffusion.

WCB — White Cross Baffle, 87 cell baffles spaced 0.5" apart and finished with 96% reflective white paint.

PLV — Parabolic Louver, Semi-specular louvers with straight edges, spaced approximately 1-3/16" apart.

LIGHT OUTPUT: Four lumen packages available, Standard (**S**), Boosted Standard (**B**), High (**H**), and Very High (**V**). A separate chart summarizes lumen distribution and wattage. Light engines are replaceable.

LUMEN MAINTENANCE: 90% of initial light output (L90) at 100,000+ hours; 70% of initial light output (L70) at 200,000+ hours.

DRIVER: Replaceable 120V/277V Constant Current Reduction dimming driver standard. Can be wired dimming or non-dimming. 0-10V dimming controls with a range of 10%-100%. Dimming to 1% available; consult factory. Driver is fully accessible from below the ceiling. Power Factor: ≥ 0.9. Total Harmonic Distortion (THD): < 20%. Expected driver lifetime: 100,000 hours.

LUTRON DRIVER OPTIONS: LUTES1: Hi-lume 1% EcoSystem with Soft-On, Fade to Black dimming (LDE1 series); Contact factort for availability of discontinued Lutron drivers, L3DA-3-wire and L3DA EcoSystem.

ELECTRICAL: Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery. A factory-choice low-profile backup battery is available (8 ft. minimum fixture length). Backup batteries deliver 2392 lumens. A 4 ft. section will be illuminated in emergency mode.

Daylight Sensor **Occupancy Sensor** **INTEGRATED SENSORS:** Integrated PIR (Passive Infrared) Occupancy (OBO) or Daylight Sensors (OBD) available with Flush and Bottom Glow downlight diffusers. PIR sensors not recommended for stairwell applications. Refer to Occupancy Sensor & Daylight Sensor tech sheet and the Embedded Intelligence landing page for more information and additional sensor options.

MOUNTING: Standard Surface Mount (**SUR**) - luminaire is bolted directly into existing wall studs. Optional Standoff Mount (**SO**) - luminaire hangs from tapered mounting bracket fastened to wall at luminaire ends and joints; standoff bracket measures 4-1/2" wide, 6.0" tall, and 1/2" deep; luminaire hangs 1/2" from wall; feed goes through mount to vertical J-box. Optional Mounting Bracket (**MB**) - luminaire hangs from bracket fastened directly to wall; mounting bracket available in 4 ft. and 8 ft. lengths; luminaire hangs 1/2" from wall; mounting bracket is concealed behind luminaire.

FINISHES: Finelite Signal White (**SW**) powder coat, Finelite Black (**RAL 9005**) with semi gloss fine texture (**FB**),and Satin Aluminum (**SA**) are standard. Optional Adders: 179 RAL colors.[1]

FEED: Standard with one 18-gauge/5-conductor single-circuit feed. 14-gauge feed used when fixture current exceeds 5 amps.

LENGTHS: Standard 4 ft. and 8 ft. section lengths can be combined to make longer runs. Contact factory additional lengths.

LABELS: Fixture and electrical components are ETLlisted conforming to UL 1598 in the U.S.A. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.130 (G), this luminaire contains an internal driver disconnect. UL 924 and UL 2108 - PoE options available on request. Damp Location. Finelite products use electronic components that are RoHS compliant, and the mechanical components of the luminaire have been verified to not knowingly contain any restricted substances listed per RoHS Directive 2015/863. Finelite makes the specification process easy when putting healthier products on your projects. Simply add – **RLA** (Red List Approved) or – **RLD** (Red List Declared Label) to your part number.

WEIGHT: With Flat Endcaps (**FE**) - 2.0 lb/ft; with Curved Endcaps (**CE**) – 2.6 to 3.6 lb/ft.

WARRANTY: 10-year performance-based warranty on all standard components. Optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.

[1] 20 business days lead time for color

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