



Declare.



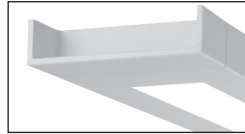
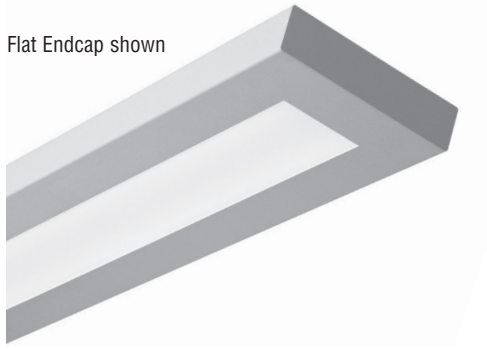
Date

Project

Type

Comments

Flat Endcap shown



Extended Endcap

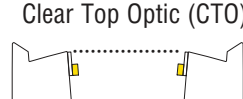
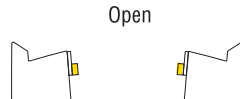
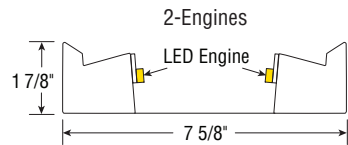
Signal White is standard finish

DESCRIPTION

Series 16 LED is a low profile rectilinear form scaled to blend into any interior architecture. The luminaire uses mid-power LEDs for long life and enhanced performance. 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.

DIMENSIONS & LIGHT ENGINES

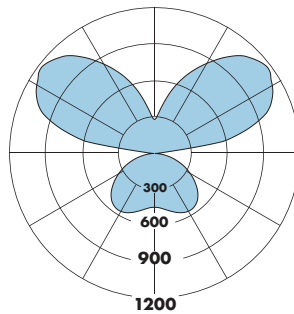
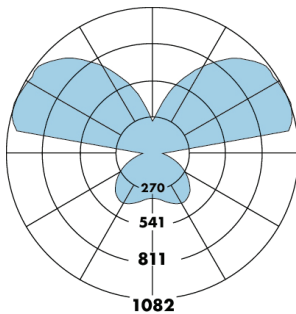
OPTIC OPTIONS



OPTIC OPTIONS

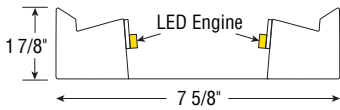
Open

Clear Top Optic (CTO)



2E FEATURES

DIMENSIONS & LIGHT ENGINES



OPTIC OPTIONS



Date

Project

Type

Comments

ORDERING GUIDE:

Sample Number: S16 LED ID - DCO - 8' - 2E - S - 835 - OPEN - 120V - FC-10% - SC - FA - FE - SW - C1 - OBO - CP - RLA

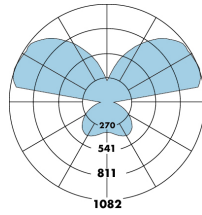
Series 16 LED ID																				
Finelite Series 16 LED ID ¹																				
Shielding (DCO , WCB)																				
Length (4' , 8' , multiples standard)																				
Light Engine System (2E - 2 Light Engines)																				
Light Output (S - Standard, B - Boosted Standard, H - 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 or Distribution Ratio (OPEN - Standard, CTO - Clear Top Optic)																				
Voltage (120V , 277V)																				
Driver (FC-10% - 0-10V 10% (standard), FC-1% - 0-10V 1%)																				
Circuiting (SC - Single Circuit) ²																				
Mounting (FA - Fully Adjustable (standard), AC - semi-adjustable)																				
Endcap (FE - Flat Endcap (standard), EE - Extended Endcap)																				
Finish (SW - Signal White (standard), FB - Finelite Blakc, SA - Satin Aluminum, ##### - RAL Color Code ³)																				
Ceiling Type (C1 - 15/16" T-Bar, C2 - 9/16" T-Bar, C3 - Slot Grid, C1T - 15/16" Tegular, C2T - 9/16" Tegular, C4 - Hard Ceiling)																				
Integrated Sensors (OBO - Occupancy, OBD - Daylight, W601 - Wattstopper Wireless Sensor ⁴ , OBE - Enlighted ⁵ , CLM - Encelium Sensor, RE7 - nLight Air Sensor, AOCC-W - Lutron Athena Sensor (Device Color White) ⁶ , AOCC-B - Lutron Athena Sensor (Device Color Black) ⁶ , ARF-W - Lutron Athena RF (Device Color White) ⁶ , ARF-B - Lutron Athena RF (Device Color Black) ⁶)																				
Special Options (SCA - School Construction Authority, RLA - Red List Approved (Optional), RLD - Red List Declared Label (Optional))																				

¹ Indirect luminaires available on 2E.
² Contact factory for switching options.
³ 20 business days lead time for color
⁴ 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.
⁵ Enlighted components installed by Finelite, provided by others
⁶ 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 16-LED-ID-DCO-2E-V-835-OPEN
Nominal Distribution: 70% up / 30% down
Efficacy: 162 lumens per watt
Total Luminaire Output: 5574 lumens (1394 lumens/foot)
34.51 watts (8.6 watts/foot)
NLTLM79 Report# REP-071124-07



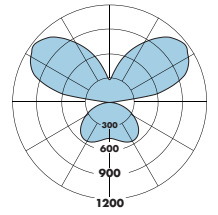
2E OPEN - REPORT 071124-07



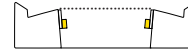
Refer to LM-79 reports for candlepower summaries

2E CTO PHOTOMETRY - 4 ft. Luminaire

Series 16-LED-ID-DCO-2E-V-835-CTO
Nominal Distribution: 70% up / 30% down
Efficacy: 153 lumens per watt
Total Luminaire Output: 5273 lumens (1318 lumens/foot)
34.47 watts (8.6 watts/foot)
NLTLM79 Report# REP-071024-7



2E CTO - REPORT 071024-7



Refer to LM-79 reports for candlepower summaries

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire				
	S*	B*	H*	V**
OPEN	2218	2853	4352	5574
CTO	2098	2706	4118	5273

Lumen Adjustment Factors - 80 CRI	
3000K	0.973
3500K	1.000
4000K	1.040

Lumen Adjustment Factors - 90 CRI	
3000K	0.899
3500K	0.920
4000K	0.955

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

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
	S*	B*	H*	V**
OPEN	555	713	1088	1394
CTO	525	677	1030	1318

Power (Watts Per Foot)				
	S*	B*	H*	V**
OPEN	3.4	4.4	6.7	8.6
CTO	3.4	4.4	6.7	8.6

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	S*	B*	H*	V**
OPEN	162	163	163	162
CTO	153	154	155	153

* Family Correlation based on 4 ft. luminaire 3500K Very High Output (V) test - 120V.

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H), CTO, 4000K, 90 CRI

$$\text{Lumen Adjustment Factor} = 0.955$$

$$\text{Total Light Output} = 4118 \text{ lm} \times 0.955 = 3933 \text{ lm}$$

$$\text{Total Light Output per Foot} = 1030 \text{ lm/ft} \times 0.955 = 984 \text{ lm/ft}$$

$$\text{watts/foot} = 6.7 \text{ W/ft}$$

$$\text{Efficacy} = \frac{984 \frac{\text{lm}}{\text{ft}}}{6.7 \frac{\text{W}}{\text{ft}}} = 147 \text{ lm/W}$$

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 Extended Endcap (**EE**) is an aluminum die-cast endcap with a 1/8" reveal adding 2-1/2" at each end.

OPTIC OPTIONS

OPEN	Standard
CTO	Clear Top Optic

SHIELDING: Diffuse Center Optic (**DCO**), 73% transmissive, 99% diffusion. Visible diffuser: UV-stabilized and impact-resistant frosted virgin acrylic, 1/8" thick. Inner diffuser: 1/8" thick with 40% round perforations white/white. White Cross Baffle (**WCB**), 87 cell baffles spaced 1/2" apart and finished with 96% reflective white paint.

LIGHT OUTPUT:

2E: 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.

REFLECTORS: (**91W**) Die-formed pre-painted aluminum, 91% reflective white.

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: LUT-ES1: Hi-lume 1% EcoSystem with Soft-On, Fade to Black dimming (LDE1 series); Contact factory 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. Optional Chicago Plenum available.

2E: A factory-choice low-profile backup battery is available (8 ft. minimum fixture length). Backup batteries deliver 2361 lumens. A 4 ft. section will be illuminated in emergency mode.



INTEGRATED SENSORS: Integrated Passive Infrared (**PIR**) 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: 50" Fully Adjustable (**FA**) plated steel aircraft cable with safety stop hardware standard. Contact factory for additional lengths up to 150". Optional semi-adjustable Aircraft Cable (**AC**) (± 1/2") in lengths of 12", 15", 18", 21", 24", 27", 30", and 36".

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 ETL listed 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: 3.0 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