

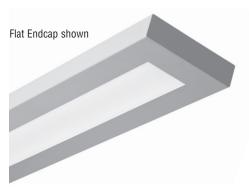
Date

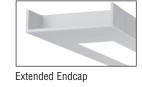












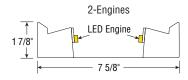
Project Type **Comments**

Signal White is standard finish

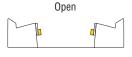
DESCRIPTION

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.

LIGHT ENGINES



OPTIC & DISTRIBUTION RATIO OPTIONS





Total Direct Optic (TDO)

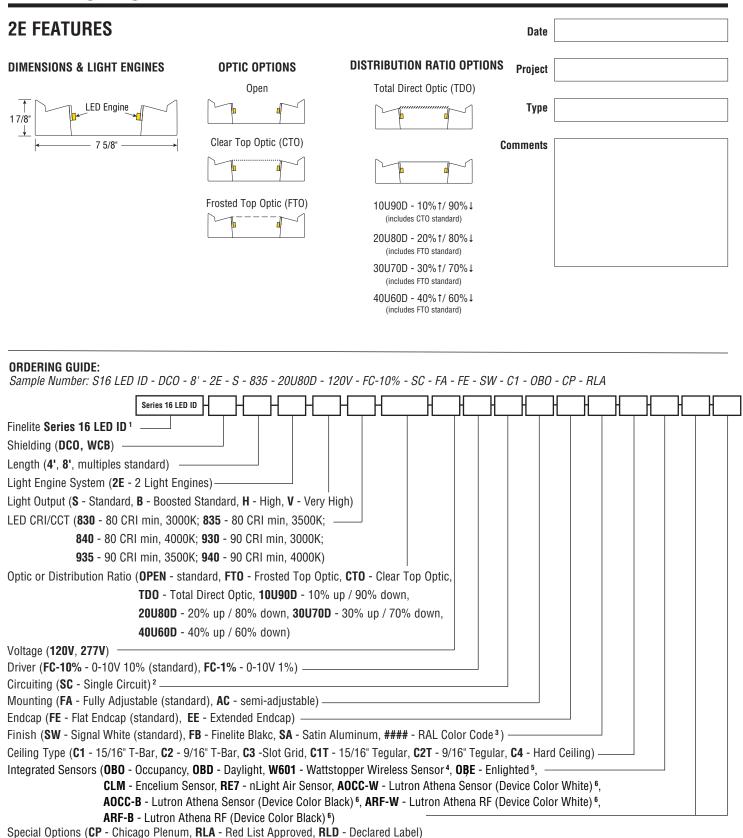


Distribution Ratios

10% 1/90% 1 30% 1/70% 1 20% 1/80% 1 40% 1/60% 1

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¹ Indirect luminaires available on 2E.

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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

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.



2E CTO AND FTO PHOTOMETRY - 4 ft. Luminaire

Series 16-LED-ID-DCO-2E-V-835-CTO Distribution: 70% up / 30% down Efficacy: 130 lumens per watt

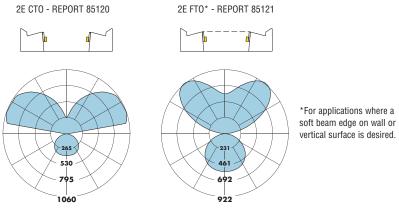
Total Luminaire Output: 4722 lumens (1181 lumens/foot)

36.4 watts (9.1 watts/foot)

Series 16-LED-ID-DCO-2E-V-835-FTO* Distribution: 60% up / 40% down Efficacy: 122 lumens per watt

Total Luminaire Output: 4442 lumens (1111 lumens/foot)

36.4 watts (9.1 watts/foot)



Refer to LM-79 reports for candlepower summaries

2E CTO AND FTO

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire						
S* B* H* V**						
СТО	1933	2430	3673	4722		
FT0	1818	2286	3455	4442		

Light Output, 3500K, 80 CRI (Lumens Per Foot)							
	S* B* H* V**						
СТО	483	608	918	1181			
FT0	455	571	864	1111			

Power (Watts Per Foot)					
	S*	B*	H*	V**	
СТО	3.5	4.6	6.9	9.1	
FT0	3.5	4.6	6.9	9.1	

	Efficacy, 3500K, 80 CRI (Lumens Per Watt)							
	S* B* H* V**							
СТО	138	132	133	130				
FT0	FTO 130 124 125 122							

^{*} 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

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), CTO, 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output = $3673 \text{ Im } \times 0.789 = 2898 \text{ Im}$

Total Light Output per Foot = 918 lm/ft x 0.789 = 724 lm/ft

watts/foot = 6.9 W/ft

$$Efficacy = \frac{724 \frac{lm}{ft}}{6.9 \frac{W}{ft}} = 105 \text{ Im/W}$$

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2E DISTRIBUTION RATIO PHOTOMETRY - 4 ft. Luminaire

Series 16-LED-ID-DCO-**2E**-V-835-**10U90D**Efficacy: 84 lumens per watt
Total Luminaire Output: 3138 lumens (785 lm/ft)

37.2 watts (9.3 W/ft)

ITL LM79 Report 87819

Series 16-LED-ID-DCO-**2E**-V-835-**30U70D** Efficacy: 94 lumens per watt

Total Luminaire Output: 3506 lumens (877 lm/ft) 37.2 watts (9.3 W/ft)

ITL LM79 Report 87821

Series 16-LED-ID-DCO-**2E**-V-835-**TDO** Efficacy: 88 lumens per watt

Total Luminaire Output: 3261 lumens (815 lm/ft) 37.2 watts (9.3 W/ft)

ITL LM79 Report 87823

↓ Direct

3261 [10% | 100%]

↑ Indirect

Series 16-LED-ID-DCO-2E-V-835-20U80D

Efficacy: 85 lumens per watt

Total Luminaire Output: 3291 lumens (823 lm/ft) 37.2 watts (9.3 W/ft)

1335 [10% | 100% 1]

ITL LM79 Report 87820

T_D0

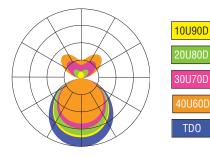
Series 16-LED-ID-DCO-2E-V-835-40U60D

Efficacy: 99 lumens per watt

Total Luminaire Output: 3675 lumens (919 lm/ft) 37.2 watts (9.3 W/ft)

2536 [10% | 100% 1]

ITL LM79 Report 87822



Refer to LM-79 reports for candlepower summaries

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.

2E DISTRIBUTION RATIOS

			'			
Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire						
S* B* H* V**						
10U90D	1285 [†10% 90%1]	1615 [†10% 90%1]	2441 [†10% 90%]	3138	[↑10% 90%↓]	
20U80D	1347 [†17% 83%1]	1694 [†17% 83%↓]	2560 [†17% 83% 1]	3291	[↑17% 83%↓]	
30U70D	1435 [†30% 70%1]	1804 [†30% 70%1]	2727 [†30% 70%1]	3506	[↑30% 70%↓]	
40U60D	1504 [†40% 60% ↓]	1891 [†40% 60%]	2858 [†40% 60% 1]	3675	[↑40% 60%↓]	

1678 [†0% | 100% J]

Light Output, 3500K, 80 CRI (Lumens Per Foot)								
	S* B* H* V**							
10U90D	321	404	610	785				
20U80D	337	423	640	823				
30U70D	359	451	682	877				
40U60D	40U60D 376 473 715 919							
TD0	334	420	634	815				

Power (Watts Per Foot)								
	S* B* H* V**							
10U90D	3.5	4.6	6.9	9.1				
20U80D	3.5	4.6	6.9	9.1				
30U70D	3.5	4.6	6.9	9.1				
40U60D	3.5	4.6	6.9	9.1				
TD0	3.5	4.6	6.9	9.1				

Efficacy, 3500K, 80 CRI (Lumens Per Watt)							
	S* B* H* V**						
10U90D	92	88	88	86			
20U80D	96	92	93	90			
30U70D	103	98	99	96			
40U60D	107	103	104	101			
TD0	95	91	92	90			

SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H), 20U80D, 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output = 2560 lm x 0.789 = 2020 lm

Total Light Output per Foot = 640 lm/ft x 0.789 = 505 lm/ft

watts/foot = 6.9 W/ft

$$Efficacy = \frac{505 \frac{lm}{ft}}{6.9 \frac{W}{ft}} = 73 \text{ Im/W}$$

* Family Correlation based on 3E 4 ft. luminaire 3500K Very High Output (V) test - 120V.

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

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 diecast endcap with a 1/8" reveal adding 2-1/2" at each end.

OPTICS & DISTRIBUTION RATIOS:

Open	Standard (2E)
FT0	Frosted Top Optic (2E)
CT0	Clear Top Optic (2E)
TD0	Total Direct Optic (2E)
10U90D	10% up / 90% down (2E)
20U80D	20% up / 80% down (2E)
30U70D	30% up / 70% down (2E)
40U60D	40% up / 60% down (2E)

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: 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. 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 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: 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**) (\pm 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 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: 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