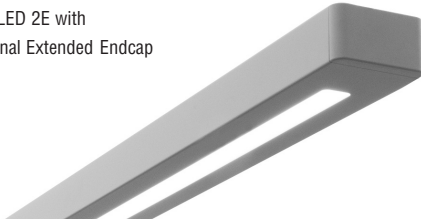


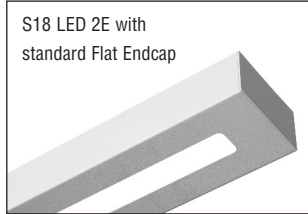


Declare. Third Party Verified

S18 LED 2E with optional Extended Endcap



S18 LED 2E with standard Flat Endcap



Date

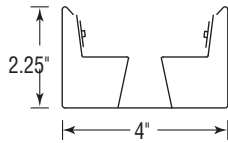
Project

Type

Comments

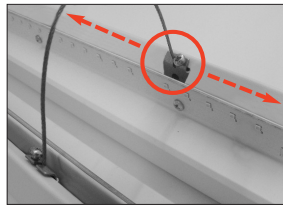
DESCRIPTION

Series 18 LED-2E is a slim-profile rectilinear form scaled to complement any interior architecture. The luminaire uses mid-powered 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 AND LIGHT ENGINE

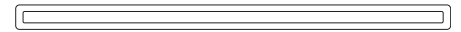
Two replaceable light engines with mid-power LEDs provide excellent distribution for the uplight and downlight.



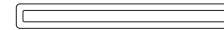
OPTIONAL FLEXIBLE MOUNTING BRACKET

The Flexible Mounting Bracket (FM) adjusts along the length of the luminaire to accommodate existing mounting points.

8' Standard Continuous Shielding (CS)*



4' Shielding



SHIELDING

Continuous shielding is standard with a maximum 8' length. The visible diffuse area is 7'9" centered on a 8' housing.

ORDERING GUIDE: Sample Number: S18 LED ID - CS - 32' - 2E - S - 835 - FTO - 120V - SC - FA - EE - C1 - OBD - RLA



- Finelite **Series 18 LED (ID - Indirect/Direct)**
- Shielding (**CS - Continuous**)¹
- Length (**4', 8', Multiples Standard**)²
- 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**)
- Uplight Optic (**Open - Standard, FTO - Frosted Top Optic, CTO - Clear Top Optic**)
- Voltage (**120V, 277V**)
- Circuiting (**SC - Single Circuit**)³
- Mounting (**FA - Standard, AC - Optional, FM - Optional**)
- Endcap (**FE - Flat, EE - Extended**)
- Ceiling type (**C1 - 15/16" T-bar, C2 - 9/16" T-bar, C3 - Slot Grid, C4 - Hard Ceiling**)
- Integrated Sensors (**OBO - Occupancy, OBD - Daylight, W601 - Wattstopper Wireless Sensor⁴, OBE - Enlighted⁵, CLM-99 - Encelium RF, SLM-99 - 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 (**RLA - Red List Approved, RLD - Red List Declared Label**)

¹Continuous shielding is standard with a maximum 8' length. Visible diffuse area is 7'9" centered on a 8' housing. Available with LED only.
²Contact factory for 6' lengths.
³Contact factory for switching options.
⁴LMFS-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.
⁵Enlighted components installed by Finelite, provided by others
⁶0-10V 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.

PHOTOMETRY - 4' Luminaire

S18-LED-1D-DCO-Open

Very High Output (Open)

Efficacy (lumens per watt): 119

Total luminaire output: 4416 lumens (1104 lumens/foot)

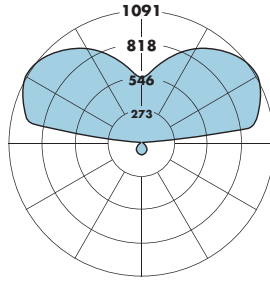
38.1 watts (9.3 watts/foot)

Peak Candela Value: 1091 @ 125°

CRI: 80

CCT: 3500K

ITL LM79 Report: 85168



CANDLEPOWER SUMMARY						
	0	22.5	45.0	67.5	90.0	Flux
0	97	97	97	97	97	
5	96	96	96	96	96	9
15	93	93	94	94	94	26
25	86	86	87	88	88	40
35	76	76	78	78	78	48
45	64	64	65	66	65	50
55	50	50	51	51	50	45
65	34	34	35	34	34	34
75	18	19	19	18	18	20
85	4	5	5	4	4	5
90	0	0	0	0	0	
95	46	331	637	679	576	404
105	139	461	743	926	992	710
115	235	515	836	1007	1059	743
125	323	544	850	1038	1091	702
135	398	557	815	981	1041	595
145	459	555	759	892	935	456
155	502	547	676	773	809	308
165	530	539	592	637	656	169
175	543	543	544	548	549	23
180	544	544	544	544	544	

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire			
S*	B*	H*	V**
1808	2273	3435	4416

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S*	B*	H*	V**
452	568	859	1104

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**
124	123	120	119

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

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

** Based on ITL report: 85168

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

Standard Output (S), 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

$$\text{Total Light Output} = 1808 \text{ lm} \times 0.789 = 1427 \text{ lm}$$

$$\text{Total Light Output per Foot} = 452 \text{ lm/ft} \times 0.789 = 357 \text{ lm/ft}$$

$$\text{watts/foot} = 3.6 \text{ W/ft}$$

$$\text{Efficacy} = \frac{357 \frac{\text{lm}}{\text{ft}}}{3.6 \frac{\text{W}}{\text{ft}}} = 99 \text{ lm/W}$$

PHOTOMETRY - 4' Luminaire

S18-LED-ID-DCO-FTO

Very High Output - 120V

Efficacy (lumens per watt): 103

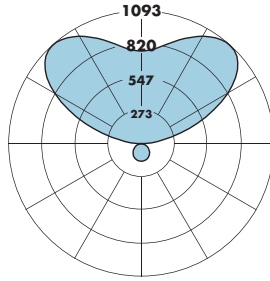
Total luminaire output: 3831 lumens (958 lumens/foot)

38.1 watts (9.3 watts/foot)

Peak Candela Value: 1087 @ 135°

CCT: 3500K

ITL LM79 Report: 85169



CANDLEPOWER SUMMARY						
	0	22.5	45.0	67.5	90.0	Flux
0	145	145	145	145	145	
5	144	144	144	144	144	14
15	139	139	140	140	140	39
25	129	128	130	130	130	60
35	114	113	115	115	115	72
45	96	95	96	96	96	74
55	74	74	74	74	74	66
65	51	51	50	50	50	50
75	27	27	27	26	26	28
85	6	7	6	6	6	7
90	0	0	0	0	0	
95	39	50	64	78	85	72
105	157	204	270	317	335	276
115	305	399	542	638	665	509
125	449	571	776	911	953	658
135	568	681	892	1037	1087	661
145	656	731	900	1025	1066	551
155	714	753	857	940	969	393
165	748	761	803	838	853	228
175	763	765	770	774	775	74
180	765	765	765	765	765	

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire			
S*	B*	H*	V**
1568	1972	2980	3831

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

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S*	B*	H*	V**
392	493	745	958

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

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

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

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S*	B*	H*	V**
108	107	104	103

SAMPLE LUMEN ADJUSTMENT CALCULATION

Standard Output (S), 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

$$\text{Total Light Output} = 1568 \text{ lm} \times 0.789 = 1237 \text{ lm}$$

$$\text{Total Light Output per Foot} = 392 \text{ lm/ft} \times 0.789 = 309 \text{ lm/ft}$$

$$\text{watts/foot} = 3.6 \text{ W/ft}$$

$$\text{Efficacy} = \frac{309 \frac{\text{lm}}{\text{ft}}}{3.6 \frac{\text{W}}{\text{ft}}} = 86 \text{ lm/W}$$

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

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

** Based on ITL report: 85169

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 and adds 9/16" at each end.

REFLECTORS: Die-formed 24-gauge cold-rolled steel reflectors finished in 96LG High Reflectance white powder coat paint.

UPLIGHT OPTICS: The 2E optical system is open, standard. Optional Frosted Top Optic (**FTO**) and Clear Top Optic (**CTO**), available.

SHIELDING: Diffusers are 73% transmissive with 99% diffusion. Luminaires are available with two distinct shielding options:

- CS Continuous Shielding (**CS**) is standard with a maximum 8' length. The visible diffuse area is 7'9" centered on an 8' housing.

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: ≥ 0.90 . 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.

ELECTRICAL: Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery. Optional Chicago Plenum available. A factory-choice low-profile backup battery is available (8' minimum fixture length). Backup batteries deliver 2208 lumens. A 4' section will be illuminated in emergency mode.



INTEGRATED SENSORS: Daylight sensors and Integrated PIR (Passive Infrared) occupancy sensors available. Refer to Occupancy Sensor and Daylight Sensor tech sheets for more info.

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**) ($\pm 0.5"$) in lengths of 12", 15", 18", 21", 24", 27", 30", 36".

FLEXIBLE MOUNTING BRACKET: The optional Flexible Mounting Bracket (**FM**) with curved balancer, can be adjusted along the length of the luminaire to accommodate existing mounting points.

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' and 8' section lengths can be combined to make longer runs.

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.

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

¹20 Business day lead time for color