

Series 18 LED Indirect/Direct - 2E

# FINELITE

	Refer to spec page for details	Declare. Third Party Verified
S18 LED 2E with		

S18 LED 2E with optional Extended Endcap

S18 LED 2E with standard Flat Endcap Project

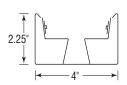
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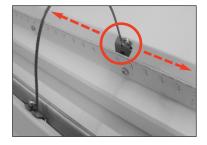
Comments

### 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 midpower 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.

		<b>NO</b> \+
8. Standard Con	tinuous Shielding (C	(8)^
		,
8' Optional Segr	nented Shielding (S	G)
		)
4' Shielding		
[		

### SHIELDING

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

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

S18 LED ID S18 LED ID   Finelite Series 18 LED (ID - Indirect/Direct)   Shielding (CS - Continuous <sup>1</sup> , SG - Segmented)   Length (4', 8', Multiples Standard) <sup>2</sup> 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 ( <b>Open</b> - Standard, <b>FTO</b> - Frosted Top Optic, <b>CTO</b> - Clear Top Optic)	
Voltage (120V, 277V)	
Circuiting (SC - Single Circuit) <sup>3</sup>	
Mounting (FA - Standard, AC - Optional, FM - Optional)	
Endcap (FE - Flat, EE - Extended)	
Ceiling type (C1 - 1" T-bar, C2 - 9/16" T-bar, C3 - Slot Grid, C4 - Hard Ceiling)	
Integrated Sensors ( <b>OBD</b> - Daylight, <b>OBO</b> - Occupancy)	
Special Options (RLA - Red List Approved, RLD - Declared Label) 'Continuous shielding is standard with a maximum 8' length. Visible diffuse area is 7'9' centered on a 8' housing. Available with LED only. 'Contact factory for 6' lengths.	
<sup>a</sup> Contact factory for switching options. A brand of 🛱 leg	and
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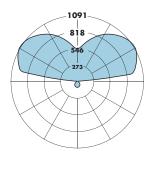


# FINELITE

### Series 18 LED Indirect/Direct - 2E

### **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



	CA	NDLEPO	WER S	UMMAF	RY	
0	0 97	22.5 97	45.0 97	67.5 97	90.0 97	Flux
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*	В*	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*	В*	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

 $^{\ast}$  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

*Total Light Output* = 1808 lm x 0.789 = 1427 lm

Total Light Output per Foot = 452 lm/ft x 0.789 = 357 lm/ft

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

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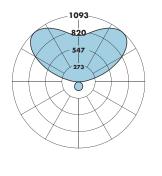


# **FINELITE**

### Series 18 LED Indirect/Direct - 2E

#### **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



	CA	NDLEPO	WER S	UMMAF	۲Y	
	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	
L						

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

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

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

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

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

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

*Total Light Output* = 1568 Im x 0.789 = 1237 Im

*Total Light Output per Foot* = 392 lm/ft x 0.789 = 309 lm/ft

watts/foot = 3.6 W/ft

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

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## <u>FINELITE</u>



### Series 18 LED Indirect/Direct - 2E

### 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 (**FT0**) and Clear Top Optic (**CT0**), 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.
- SG Segmented Shielding (SG) option available.

**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:  $\geq$  0.90. 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)); **LUTES5** (5-Series 5% EcoSystem (LDE5 Series)), **LUT2W** (Hi-lume 1% 2-wire, 120V forward phase dimming (LTEA 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. 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.

Paylight Sensor Sensors and Integrated PIR (Passive Sensor 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 powder coat standard. Optional Adders: 185 Tiger Drylac's non-metallic RAL colors.

**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 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 410.73 (G), this luminaire contains an internal driver disconnect. 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 2011/65/EU. Finelite makes the specification processs easy when putting healthier products on your projects. Simply add – **RLA** (Red List Approved) or – **RLD** (Declared Label) to your part number.

WEIGHT: 2.5 lb/ft.

**DLC QUALIFIED:** Configurations of this product are listed on the DLC Qualified Prodcuts List (QPL). www.designlights.org/search

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

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