

Date

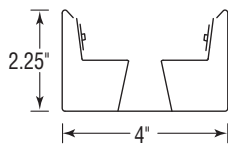
Project

Type

Comments

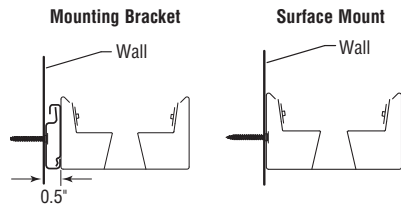
DESCRIPTION

Series 18 LED Wall Mount is a slim-profile rectilinear form scaled to complement 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 AND LIGHT ENGINE

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



MOUNTING OPTIONS

Available with two mounting options: mounting bracket (MB) or surface mount (SUR).

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 WM ID - CS - 32' - 2E - S - 835 - FTO - 120V - SC - SUR - EE - OBD - RLA



Finelite **Series 18 LED WM** (ID - Indirect/Direct)

Shielding (**CS** - Continuous¹)

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 (**SUR** - Surface Mount, **MB** - Mounting Bracket)

Endcap (**FE** - Flat, **EE** - Extended)

Integrated Sensors (**OBO** - Occupancy, **OBD** - Daylight, **W601** - Wattstopper Wireless Sensor⁴, **OBE** - Enlighted⁵,

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

¹ Continuous shielding is standard with a maximum 8' length. Visible diffuse area is 7'9" centered on a 8' housing. Available with LED only.

² Contact factory for 6' lengths.

³ Contact factory for switching options.

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

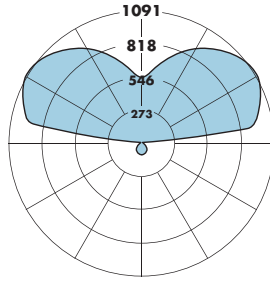
⁶ 0-10V Drivers - AOCC up to 10 drivers may be connected; ARF up to 40 drivers may be connected / DALI Drivers - AOCC & ARF up to 4 drivers can be connected.

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Finelite, Inc. • 30500 Whipple Road • Union City, CA 94587-1530 • (510) 441-1100 • www.finelite.com

PHOTOMETRY - 4' Luminaire

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) | | | |
|--|------|------|------|
| S* | B* | H* | V** |
| 1808 | 2273 | 3435 | 4416 |

| 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** |
| 452 | 568 | 859 | 1104 |

| 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** |
| 124 | 123 | 120 | 119 |

SAMPLE LUMEN ADJUSTMENT CALCULATION

Standard Output (S), 4000K, 90 CRI
Lumen Adjustment Factor = 0.789

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

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

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

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

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

PHOTOMETRY - 4' Luminaire

S18-LED-ID-DCO (FTO)

Very High Output - 120V

Efficacy (lumens per watt): 103

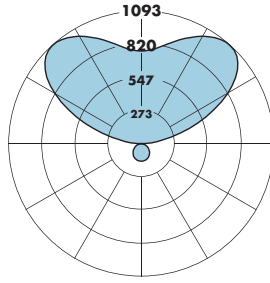
Total luminaire output: 3831 lumens (958 lumens/foot)

38.1 watts (9.3 watts/foot)

Peak Candela Value: 1087 @ 135°

CCT: 3500K

ITL LM79 Source Report: 85169 (Family Correlation)



| 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) | | | |
|--|------|------|------|
| 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** |
| 107 | 107 | 105 | 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 0.10" at each end. The optional Extended Endcap (EE) is an aluminum die-cast endcap and adds 0.55" 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: LUTES1: 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. 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: Surface Mount (SUR) is standard with the luminaire bolting directly into existing wall studs. Optional Mounting Brackets (MB) in 4' and 8' lengths attach to the wall and the luminaire hangs on the bracket 0.5" off the wall. The mounting bracket is concealed behind the 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' 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.

WEIGHT: 2.5 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.

¹20 Business day lead time for color