







| Date | |
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Project

Type

Declare.



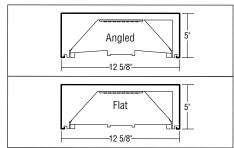


Refer to page 2 for all door styles

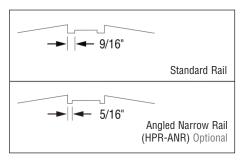
DESCRIPTION

HPR LED Surface Mount is a highly efficient luminaire delivering excellent visual comfort and outstanding 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.

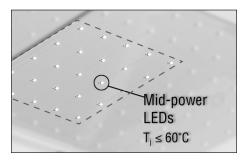


Shown with Surface Mount kit **DIMENSIONS**



ANGLED NARROW RAIL OPTION

Available in angled door style with the same center optic choices. The optional narrow rails are approximately 5/16" wide. The standard center rails are approximately 9/16" wide.

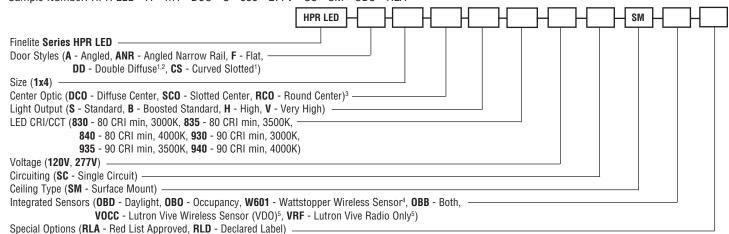


THERMAL MANAGEMENT

Mid-power LEDs allow heat to be fully dissipated without the need for additional heat sinks.

ORDERING GUIDE

Sample Number: HPR LED - A - 1x4 - DCO - S - 835 - 277V - SC - SM - OBO - RLA



- ¹ Not available with Center Optic options
- 2 Not available with sensors

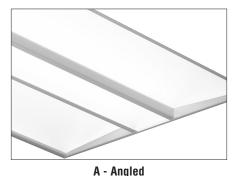
- ⁴ LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected.
- LMFS-601 w/ Dali driver, only 1 driver can be connected. ³ Only available on Angled (A), Angled Narrow Rail (ANR) and Flat (F) door options ⁵ Lutron Vive Ingrated Sensors require a DALI driver

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DOOR STYLES



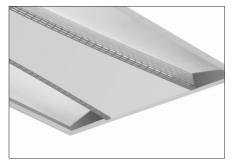
A - Angled ANR - Angled Narrow Rail



F - Flat



DD - Double Diffuse



CS - Curved Slotted

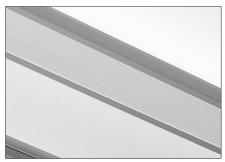
CENTER OPTICS



DCO - Diffuse Center



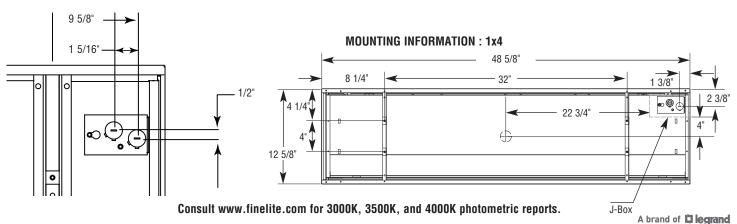
SCO - Slotted Center



RCO - Round Center

DCO, SCO, and RCO are only available on Angled (A), Angled Narrow Rail (ANR), and Flat (F) doors.

WIRING ACCESS DETAIL





PHOTOMETRY

HPR LED-F-1x4-DC0-B

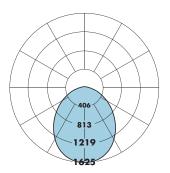
Boosted Standard Output - Angled Rail

Efficacy: 107 lumens per watt Total luminaire output: 3985 Lumens 37.1 Watts

Peak Cadela Value: 1625 @ 0°

CCT: 3500K

ITL LM79 Report 85141



| Angled (A) and Flat (F) Total Light Output, 3500K, 80 CRI (Lumens) | | | | | |
|---|------|------|------|--|--|
| S * | B** | H* | V* | | |
| 3099 | 3985 | 4509 | 5873 | | |
| Power, 3500K, 80 CRI (Watts) | | | | | |
| \$* | B** | H* | V* | | |
| 28.5 | 37.1 | 42.8 | 58.1 | | |
| Efficacy, 3500K, 80 CRI (Lumens Per Watt) | | | | | |
| \$* | B** | H* | V* | | |
| 109 | 107 | 105 | 101 | | |

^{*} Family Correlation based on 3500K Boosted Standard Output (B) test - 120V.

^{**} Based on ITL report: 85141

| Angled Narrow Rail (ANR) Total Light Output, 3500K, 80 CRI (Lumens) | | | | | |
|--|-----------------------------|------|------|--|--|
| S* | $B^{\scriptscriptstyle{Y}}$ | H* | V* | | |
| 2998 | 3855 | 4362 | 5681 | | |
| Power, 3500K, 80 CRI (Watts) | | | | | |
| S* | $B^{\scriptscriptstyle{Y}}$ | H* | ٧* | | |
| 28.5 | 37.1 | 42.8 | 58.1 | | |
| Efficacy, 3500K, 80 CRI (Lumens Per Watt) | | | | | |
| S* | $B^{\scriptscriptstyle{Y}}$ | H* | ٧* | | |
| 105 | 104 | 102 | 98 | | |

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

V - Very High Output

| CANDELA DISTRIBUTION | | | | | | | |
|----------------------|------|------|------|------|------|------|------|
| | 0.0 | | | | 7.5 | 90.0 | Flux |
| 0 | 1625 | 1625 | 1625 | 1625 | 1625 | | |
| 5 | 1616 | 1617 | 1618 | 1618 | 1618 | 154 | |
| 10 | 1590 | 1588 | 1593 | 1594 | 1591 | | |
| 15 | 1543 | 1540 | 1549 | 1549 | 1545 | 435 | |
| 20 | 1478 | 1474 | 1483 | 1480 | 1475 | | |
| 25 | 1400 | 1393 | 1399 | 1393 | 1386 | 642 | |
| 30 | 1304 | 1297 | 1299 | 1288 | 1277 | | |
| 35 | 1194 | 1189 | 1184 | 1168 | 1156 | 737 | |
| 40 | 1077 | 1071 | 1061 | 1039 | 1028 | | |
| 45 | 953 | 946 | 929 | 907 | 896 | 715 | |
| 50 | 828 | 822 | 800 | 775 | 763 | | |
| 55 | 703 | 695 | 670 | 646 | 637 | 600 | |
| 60 | 581 | 572 | 548 | 522 | 511 | | |
| 65 | 461 | 453 | 429 | 401 | 393 | 424 | |
| 70 | 346 | 340 | 315 | 290 | 283 | | |
| 75 | 239 | 234 | 211 | 190 | 184 | 225 | |
| 80 | 147 | 138 | 117 | 100 | 94 | | |
| 85 | 65 | 55 | 38 | 32 | 30 | 53 | |
| 90 | 0 | 0 | 0 | 0 | 0 | 00 | |
| | | | | | | | |

| Double Diffuse (DD) Total Light Output, 3500K, 80 CRI (Lumens) | | | | | | |
|---|------------------------------|------|------|--|--|--|
| S* | B± | H* | V* | | | |
| 2715 | 3491 | 3950 | 5145 | | | |
| | Power, 3500K, 80 CRI (Watts) | | | | | |
| S * | B± | H* | V* | | | |
| 28.3 | 36.9 | 42.6 | 57.8 | | | |
| Efficacy, 3500K, 80 CRI (Lumens Per Watt) | | | | | | |
| S* | B± | H* | V* | | | |
| 96 | 95 | 93 | 89 | | | |

^{*} Family Correlation based on 3500K Boosted Standard Output (B) test - 120V.

[±] Based on ITL report: 85143

| 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) Angled (A) & Flat (F) 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output = 4509 lm x 0.789 = 3558 lm

Efficacy =
$$\frac{3558 \text{ lm}}{42.8 \text{ W}}$$
 = 83 lm/W

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^{*} Family Correlation based on 3500K Boosted Standard Output (B) test - 120V.

[¥] Based on ITL report: 85147



- SPECIFICATIONS -

CONSTRUCTION: Die-formed 20-gauge cold-rolled steel housing. All components are hard-tooled to tolerances of +/- 0.010". UV stabilized weather-strip pile gasket with polypropylene backing. Hinged door frame assembly provides easy access to light arrays and driver compartment for servicing from below. Seismic brackets are integrated into the luminaire assembly.

REFLECTORS: Die-formed 20-gauge cold-rolled steel reflectors are finished in 96LG high reflectance matte white powder coat paint.

OPTICAL SYSTEM: Components include diffuser panels and a central optic element held in place with a frame constructed from die-formed cold-rolled steel. The diffusers are UV-stabilized and impact-resistant frosted virgin acrylic, 0.120" thick. They are either angled toward the central optic or parallel to the ceiling plane. The standard center rails are approximately 9/16" wide. Optional narrow rails are approximately 5/16" wide.

DOUBLE DIFFUSE: Visible diffuser: UV-stabilized and impact-resistant frosted virgin acrylic, 0.120" thick. Inner diffuser: 0.120" thick with 60% round perforations

DOOR STYLE: Curved Slotted (CS) includes perforated rails that slope inward and a diffuse frosted acrylic center optic.

CENTER OPTIC OPTIONS: Only available with Angled (A), Angled Narrow Rail (ANR), and Flat (F) door styles.

Diffuse Center Optic (DCO): UV-stabilized and impact resistant frosted virgin acrylic.

Slotted Center Optic (SCO): Die-formed cold-rolled steel panel with a 1/16" x 1/2" rectangular hole pattern. Virgin acrylic overlay.

Round Center Optic (RCO): Die-formed cold-rolled steel panel with precision-punched 3/32" round hole pattern arranged in staggered formation. Virgin acrylic overlay.

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: 0.9. Total Harmonic Distortion (THD): <20%. Expected driver lifetime: 170,000 hours.

LUTRON DRIVER OPTIONS: LUTES1 (Hi-lume 1% EcoSystem with Soft-On, Fade to Black dimming (LDE1 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. Chicago Plenum option. Factory-choice low-profile backup battery available. Bodine BSL722 battery pack also available. Backup batteries deliver 1992 lumens. One half of the 1x4 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: Luminaire is compatible with recessed junction boxes. Electrical connections can be made directly to wiring access plate shown above. Junction boxes can also be placed between mounting bars. Maximum center of feed location from luminaire center is 22 3/4" along the dimension parallel to the mounting bars, and 4" along dimension perpendicular to the mounting bars.

FINISH: Housing and door assembly painted with 96 LG high reflectance matte white powder coat paint. Optional adder: Anti-microbial paint. Contact factory.

FEED: Optional whips (with flex connectors) supplied in a maximum of 11' lengths. Lead Wires.

LABELS: Luminaire 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, IC Rated. 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. Simply add - RLF (Red List Free) or - RLD (Declared) to your part number.

WEIGHT: 25 lbs maximum.

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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