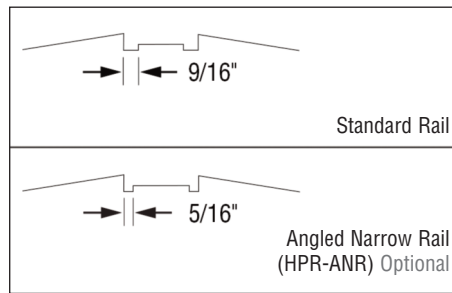
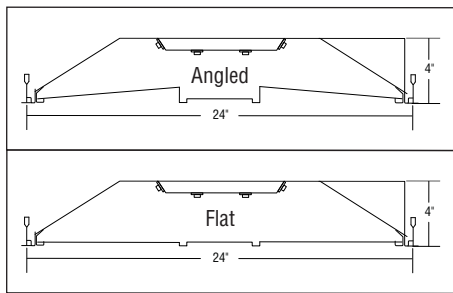


Refer to page 2 for all door styles

### DESCRIPTION

HPR LED-EP is an efficient recessed luminaire delivering excellent visual comfort and outstanding performance. This luminaire features very uniform illumination of the diffusers. Advanced optical design makes HPR LED-EP a good solution for low-ceiling applications. 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

### NARROW RAIL OPTION

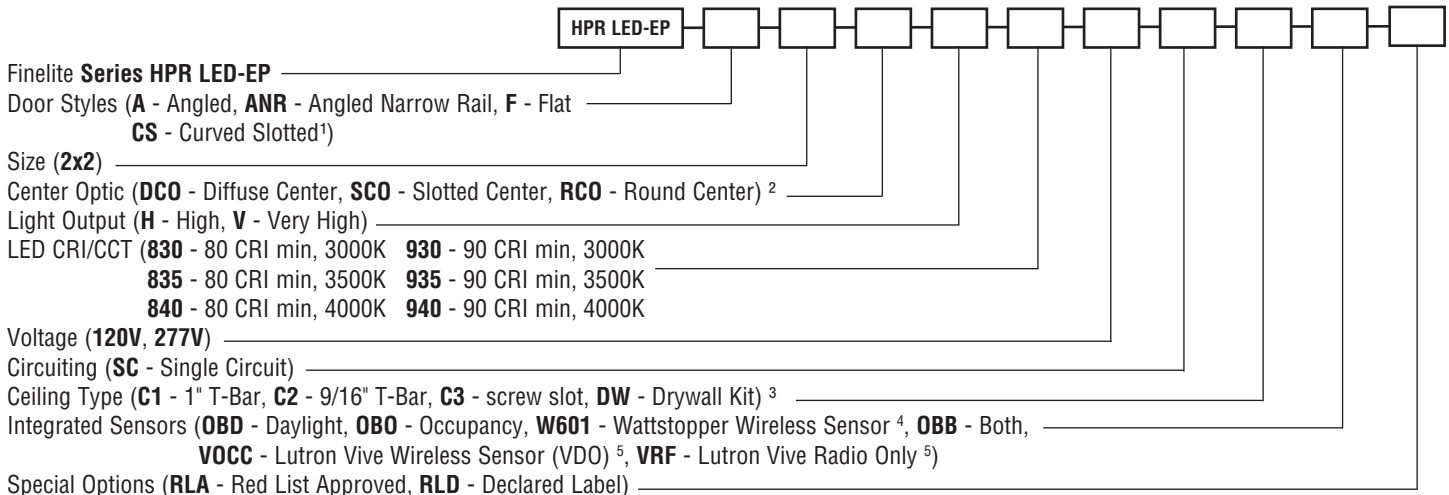
The available angled door style with the same center optic choices. The optional narrow rails are approximately 5/16" wide. The standard center rails are approximately 9/16" wide.

### 100 % SERVICEABLE FROM BELOW

The replaceable light engine and driver are easy to access from below the ceiling.

### ORDERING GUIDE

Sample Number: HPR LED-EP - A - 2x2 - DCO - H - 835 - 277V - SC - C1 - OBO - RLA



<sup>1</sup> Curved Slotted door not available with Center Optic options

<sup>2</sup> Only available on Angled (A), Angled Narrow Rail (ANR) and Flat (F) door options

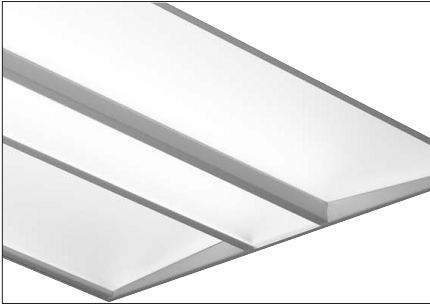
<sup>3</sup> Surface Mount available

<sup>4</sup> LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected.

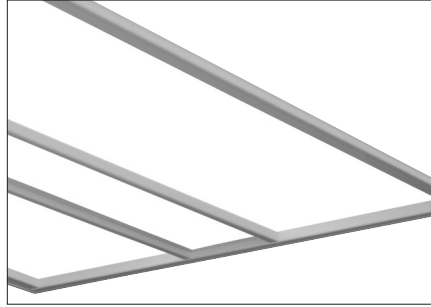
LMFS-601 w/ DALI driver, only 1 driver can be connected.

<sup>5</sup> Lutron Vive Integrated Sensors require a DALI driver

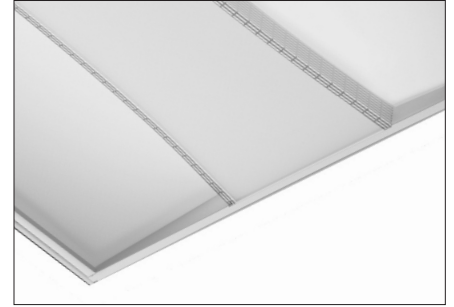
**DOOR STYLES**



**A - Angled**  
**ANR - Angled Narrow Rail**



**F - Flat**

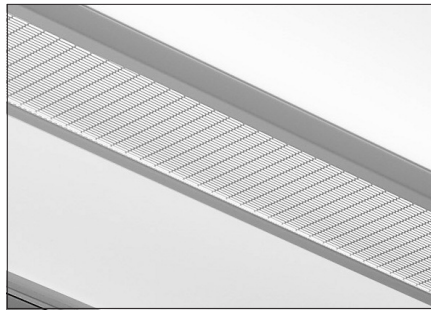


**CS - Curved Slotted**

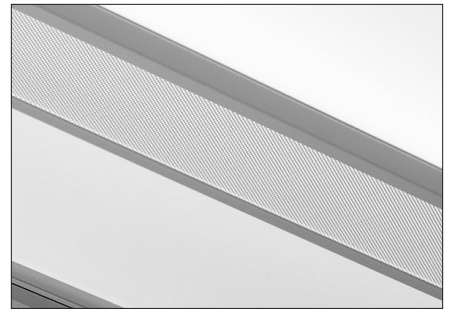
**CENTER OPTICS**



**DCO - Diffuse Center**



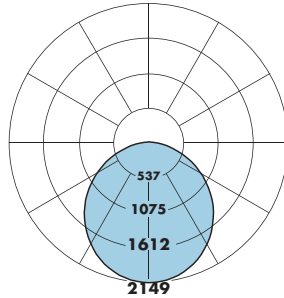
**SCO - Slotted Center**



**RCO - Round Center**

### PHOTOMETRY

HPR LED-EP-F-2x2-DCO-V  
 Very High Output - Flat Rail  
 Efficacy: 92 lumens per watt  
 Total Luminaire Output: 5871 Lumens  
 58.3 Watts  
 Peak Candela Value: 2149 @ 0°  
 CCT: 3500K  
 ITL LM79 Report: 85144



| CANDLEPOWER SUMMARY |      |      |      |      |        |      |
|---------------------|------|------|------|------|--------|------|
|                     | 0.0  | 22.5 | 45   | 67.5 | ACROSS | Flux |
| 0                   | 2149 | 2149 | 2149 | 2149 | 2149   |      |
| 5                   | 2139 | 2139 | 2139 | 2139 | 2139   | 203  |
| 10                  | 2109 | 2109 | 2107 | 2106 | 2106   |      |
| 15                  | 2051 | 2052 | 2052 | 2054 | 2054   | 579  |
| 20                  | 1975 | 1975 | 1978 | 1981 | 1983   |      |
| 25                  | 1879 | 1880 | 1883 | 1890 | 1894   | 868  |
| 30                  | 1769 | 1769 | 1773 | 1783 | 1786   |      |
| 35                  | 1645 | 1643 | 1649 | 1662 | 1665   | 1033 |
| 40                  | 1508 | 1507 | 1515 | 1527 | 1531   |      |
| 45                  | 1362 | 1361 | 1368 | 1380 | 1386   | 1057 |
| 50                  | 1209 | 1207 | 1214 | 1226 | 1230   |      |
| 55                  | 1048 | 1046 | 1052 | 1060 | 1063   | 941  |
| 60                  | 882  | 879  | 883  | 889  | 891    |      |
| 65                  | 712  | 708  | 708  | 713  | 718    | 703  |
| 70                  | 539  | 538  | 534  | 536  | 540    |      |
| 75                  | 370  | 367  | 363  | 365  | 368    | 388  |
| 80                  | 214  | 211  | 206  | 208  | 208    |      |
| 85                  | 84   | 82   | 78   | 79   | 80     | 97   |
| 90                  | 0    | 0    | 0    | 0    | 0      |      |

| Angled (A) and Flat (F)<br>Total Light Output, 3500K, 80 CRI (Lumens) |            |
|---|------------|
| <b>H*</b>   | <b>V**</b> |
| 4508  | 5871       |
| Power, 3500K, 80 CRI (Watts)  |            |
| <b>H*</b>   | <b>V**</b> |
| 42.9  | 58.3       |
| Efficacy, 3500K, 80 CRI (Lumens Per Watt)                             |            |
| <b>H*</b>   | <b>V**</b> |
| 105   | 101        |

| Lumen Adjustment Factors - 80 CRI |       |
|-----------------------------------|-------|
| <b>3000K</b>                      | 0.985 |
| <b>3500K</b>                      | 1.000 |
| <b>4000K</b>                      | 1.032 |

| Lumen Adjustment Factors - 90 CRI |       |
|-----------------------------------|-------|
| <b>3000K</b>                      | 0.746 |
| <b>3500K</b>                      | 0.760 |
| <b>4000K</b>                      | 0.789 |

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

\* Family Correlation based on 3500K Very High Output (V) test - 120V.  
 \*\* Based on ITL report: 85144

| Angled Narrow Rail (ANR)<br>Total Light Output, 3500K, 80 CRI (Lumens) |           |
|--|-----------|
| <b>H*</b>  | <b>V†</b> |
| 4451   | 5796      |
| Power, 3500K, 80 CRI (Watts)   |           |
| <b>H*</b>  | <b>V†</b> |
| 43.0   | 58.4      |
| Efficacy, 3500K, 80 CRI (Lumens Per Watt)                              |           |
| <b>H*</b>  | <b>V†</b> |
| 103  | 99        |

\* Family Correlation based on 3500K Very High Output (V) test - 120V.  
 † Based on ITL report: 85150

**H - High Output, V - Very High Output**

### SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H) Angled (A) & Flat (F)  
 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output =  
 4508 lm x 0.789 = 3557 lm

$$\text{Efficacy} = \frac{3557 \text{ lm}}{43.0 \text{ W}} = 83 \text{ lm/W}$$

A brand of **legrand**

**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. Additional wire entrances are positioned on the ends of the housing to allow easy wiring access for the installer.

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

**AIR RETURN:** Refer to 2x2 Air Return Tech Sheet for more information. Available with angled (A) and flat (F) luminaire style only.

**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.

**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:** Two lumen packages available. 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%.

**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, backup battery. Chicago Plenum option. Factory-choice low-profile backup battery available. Bodine BSL722 battery pack also available. Backup batteries deliver 2199 lumens. One half of the 2x2 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:** Standard flange design works with most lay-in ceiling types. Integral pry-out tabs secure the luminaire to the ceiling grid from above. Tie-in locations for tie-wire on all corners. Consult local code for appropriate tie-wire recommendations. Drywall Kit available. Surface mount and air return versions available; refer to separate tech sheets.

**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 ETL-listed conforming to UL 916, 1598, 8750, 924 in the U.S.A. and CAN/CSA C22.2 No. 205, 250, and 141 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:** 16 lbs maximum.

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

**5-YEAR WARRANTY:** 5-year performance-based warranty on **Very High Output** with all standard components. Optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.

