



HPR-LED Collection  
2011 IES Progress  
Report Selection



Date

Project

Type

Comments



**Declare.**

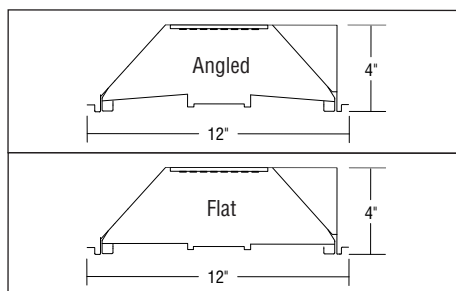


Refer to page 2 for all door styles

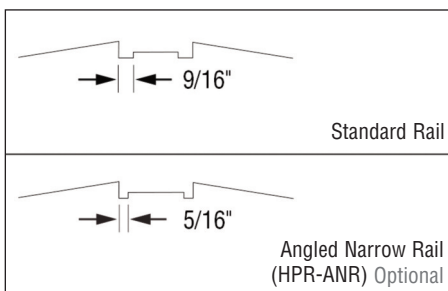
## DESCRIPTION

HPR-LED is a highly efficient, recessed luminaire delivering excellent visual comfort and outstanding performance. Advanced optical design makes HPR-LED a powerful solution for low-ceiling applications and eliminates the shadows common to other LED recessed products.

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



## 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.



## 100% SERVICEABLE FROM BELOW

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

## ORDERING GUIDE

Sample Number: HPR LED - A - 1x2 - DCO - S - 835 - 277V - SC - C1 - OBO - RLA

FINELITE SERIES HPR LED	DOOR STYLES	SIZE	CENTER OPTIC	LIGHT OUTPUT	LED CRI/CCT	VOLTAGE	CIRCUITING	CEILING TYPE	INTEGRATED SENSORS	SPECIAL OPTIONS
<b>HPR LED</b>	<b>A</b> - Angled, <b>ANR</b> - Angled Narrow Rail, <b>F</b> - Flat, <b>DD</b> - Double Diffuse <sup>1,2</sup>	<b>1x2</b>	<b>DCO</b> - Diffuse Center, <b>SCO</b> - Slotted Center, <b>RCO</b> - Round Center <sup>3</sup>	<b>S</b> - Standard, <b>B</b> - Boosted Standard, <b>H</b> - High, <b>V</b> - Very High	<b>830</b> - 80 CRI min, 3000K, <b>835</b> - 80 CRI min, 3500K, <b>840</b> - 80 CRI min, 4000K, <b>930</b> - 90 CRI min, 3000K, <b>935</b> - 90 CRI min, 3500K, <b>940</b> - 90 CRI min, 4000K	<b>120V, 277V</b>	<b>SC</b> - Single Circuit	<b>C1</b> - 1" T-Bar, <b>C2</b> - 9/16" T-Bar, <b>C3</b> - screw slot, <b>DW</b> - Drywall Kit <sup>4</sup>	<b>OBD</b> - Daylight, <b>OBO</b> - Occupancy, <b>W601</b> - Wattstopper Wireless Sensor <sup>5</sup> , <b>OBB</b> - Both, <b>VOCC</b> - Lutron Vive Wireless Sensor (VDO) <sup>6</sup> , <b>VRF</b> - Lutron Vive Radio Only <sup>6</sup>	<b>RLA</b> - Red List Approved, <b>RLD</b> - Declared Label

<sup>1</sup> Not available with Center Optic options

<sup>2</sup> Not available with sensors

<sup>3</sup> Only available on Angled (A), Angled Narrow Rail (ANR) and Flat (F) door options

<sup>4</sup> Surface Mount available

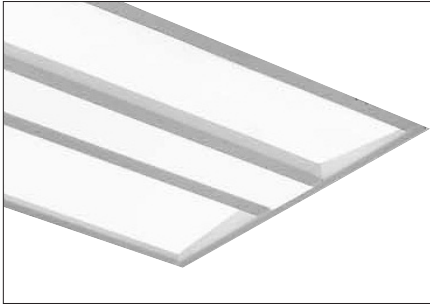
<sup>5</sup> LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected. LMFS-601 w/ DALI driver, only 1 driver can be connected.

<sup>6</sup> Lutron Vive Integrated Sensors require a DALI driver

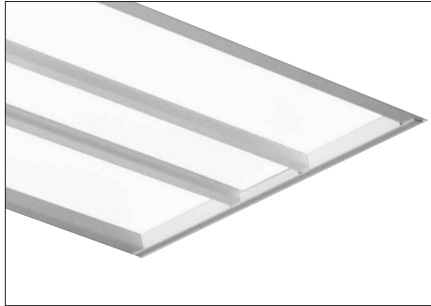
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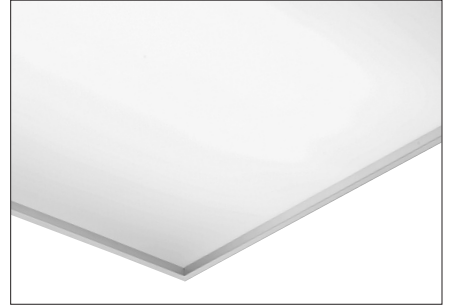
## DOOR STYLES



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

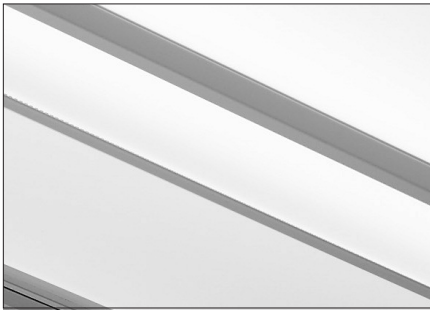


**F - Flat**

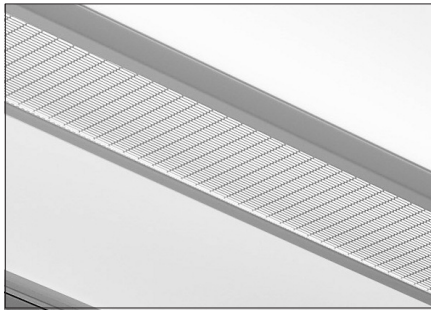


**DD - Double Diffuse**

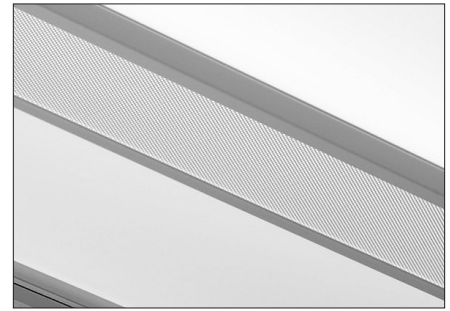
## CENTER OPTICS



**DCO - Diffuse Center**



**SCO - Slotted Center**

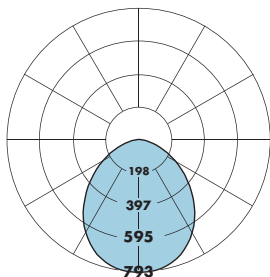


**RCO - Round Center**

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

## PHOTOMETRY

HPR-LED-F-1x2-DCO-B  
Boosted Output - Angled Rail  
Efficacy: 99 lumens per watt  
Total luminaire output: 1943 Lumens  
19.7 Watts  
Peak Candela Value: 793 @ 0°  
CCT: 3500K  
ITL LM79 Report 85140



## CANDLEPOWER SUMMARY

	0.0	22.5	45.0	67.5	ACROSS	Flux
0	793	793	793	793	793	
5	789	789	789	789	790	75
10	776	777	777	778	780	
15	755	755	757	758	760	213
20	723	725	726	729	730	
25	684	685	687	688	688	316
30	636	637	638	638	637	
35	582	583	583	580	580	363
40	524	524	521	516	513	
45	463	462	456	449	445	351
50	399	397	391	382	377	
55	337	335	327	316	310	291
60	278	274	264	252	246	
65	220	215	205	193	188	203
70	163	160	149	139	135	
75	113	109	99	90	86	106
80	67	64	55	47	45	
85	29	25	18	17	17	25
90	0	0	0	0	0	

Angled (A) and Flat (F) Total Light Output, 3500K, 80 CRI (Lumens)			
S*	B**	H*	V*
1511	1943	2199	2863
Power, 3500K, 80 CRI (Watts)			
S*	B**	H*	V*
15.3	19.7	22.7	30.4
Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S*	B**	H*	V*
99	99	97	94

\* Family Correlation based on 3500K Boosted Standard Output (B) test - 120V.  
\*\* Based on source ITL report 85140

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

## 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 =  
2199 lm x 0.789 = 1735 lm

Efficacy =  $\frac{1735 \text{ lm}}{22.7 \text{ W}}$  = 76 lm/W

## 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.

**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 narrows 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 white/white.

**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: 100,000 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.

**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 version available; refer to separate tech sheet.

**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:** 12 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.

