

# FINELITE

## High Performance Recessed (HPR-LED) 1x2



**HPR-LED Collection**  
2011 IES Progress  
Report Selection



Date

Project

Type

Comments

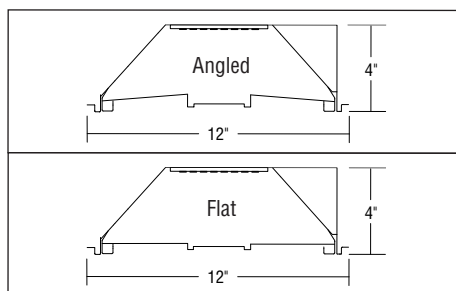


Refer to page 2 for all door styles

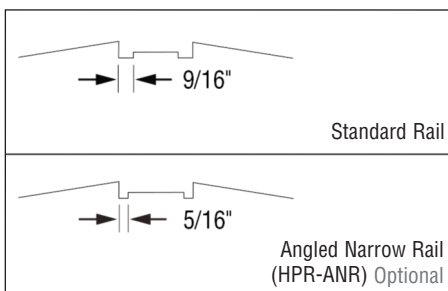
### DESCRIPTION

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.

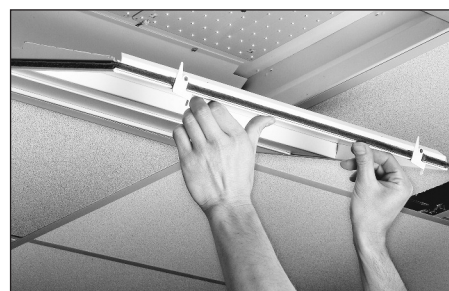


### DIMENSIONS



### 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.

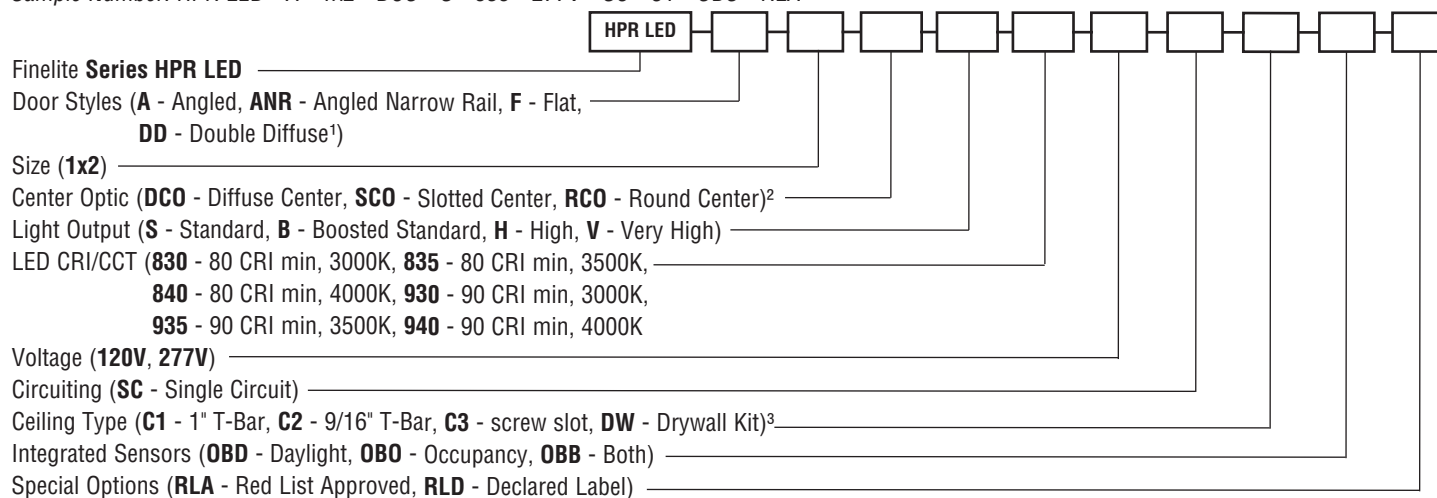


### 100% SERVICEABLE FROM BELOW

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



<sup>1</sup> Double diffuse 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

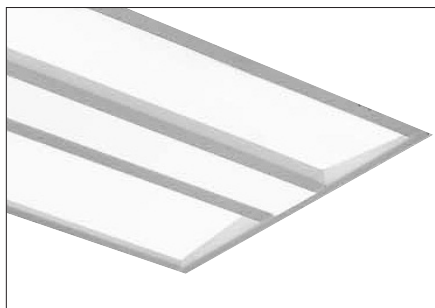
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## High Performance Recessed (HPR-LED) 1x2

### 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.

# FINELITE

## High Performance Recessed (HPR-LED) 1x2

### PHOTOMETRY

HPR-LED-F-1x2-DC0-B

Boosted Output - Angled Rail

Efficacy: 99 lumens per watt

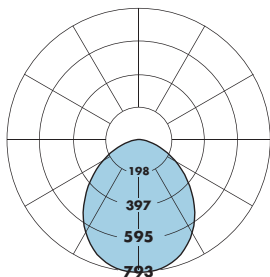
Total luminaire output: 1943 Lumens

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)<br>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

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Due to continuing product improvements, Finelite reserves the right to change specifications without notice. Please visit www.finelite.com for most current data.



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## High Performance Recessed (HPR-LED) 1x2

### 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)); 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. Chicago Plenum option.



**INTEGRATED SENSORS:** Integrated PIR (Passive Infrared) occupancy and/or daylight sensors available. Refer to Occupancy Sensor and Daylight Sensor tech sheets for more info.

**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. Finelite makes the specification process easy when putting healthier products on your projects. Simply add – RLA (Red List Approved) or – RLD (Declared Label) 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.