

# FINELITE High Performance Recessed (HPR LED-EP) 2x4, Air Return



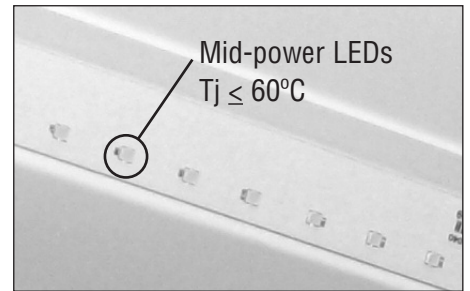
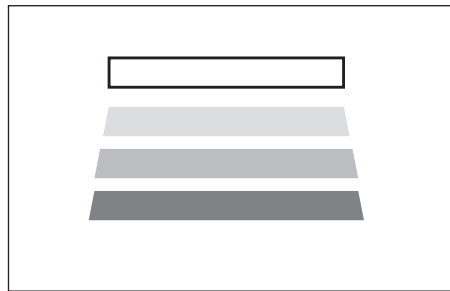
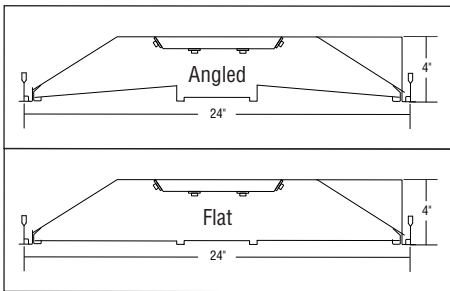
Declare.



Refer to page 2 for all door styles

## DESCRIPTION

HPR LED-EP Air Return is a highly effective luminaire delivering excellent visual comfort and outstanding performance. This enhanced performance luminaire features a very uniform diffuser aesthetic. Advanced optical designs make the HPR LED-EP Air Return a powerful solution for low-ceiling applications and eliminate the shadows common to other LED products. HPR-LED Air Return effectively removes air from the space with little change to the luminaire aesthetic. 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

## DIMMING

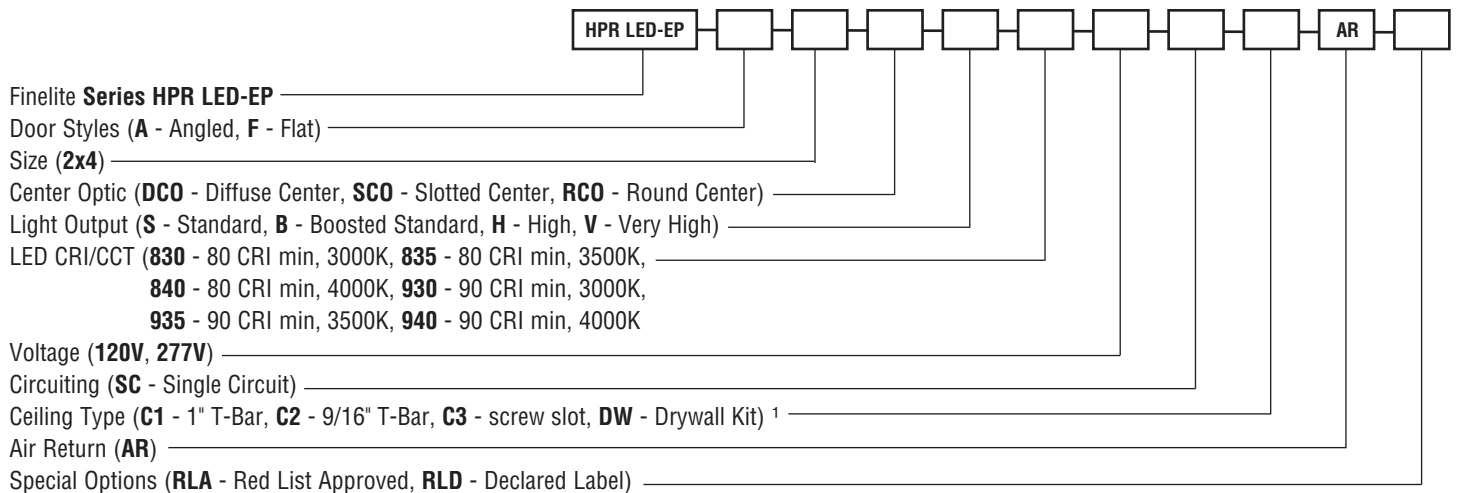
Dimming can increase comfort, efficacy and lumen maintenance, and reduce energy consumption. Downlight dims to 10%. 0-10V dimming standard.

## THERMAL MANAGEMENT

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

## ORDERING GUIDE

Sample Number: HPR LED-EP - A - 2x4 - DCO - S - 835 - 277V - SC - C1 - AR - RLA



<sup>1</sup> Surface Mount available

A brand of **legrand**

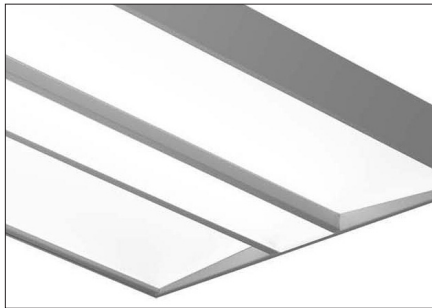
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Due to continuing product improvements, Finelite reserves the right to change specifications without notice. Please visit www.finelite.com for most current data.

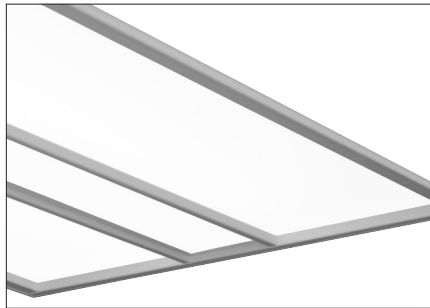
# FINELITE

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### DOOR STYLES



A - Angled



F - Flat

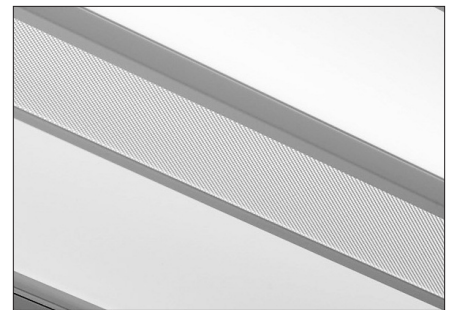
### CENTER OPTICS



DCO - Diffuse Center



SCO - Slotted Center



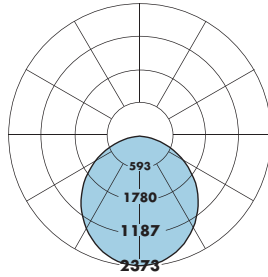
RCO - Round Center

# FINELITE

## High Performance Recessed (HPR LED-EP) 2x4, Air Return

### PHOTOMETRY

HPR LED-EP-A-2x4-DC0-V  
 Very High Output - Flat Rail  
 Efficacy: 117 lumens per watt  
 Total Luminaire Output: 6444 Lumens  
 55.1 Watts  
 Peak Candela Value: 2373 @ 0°  
 CCT: 3500K  
 ITL LM79 Report: 85146



CANDLEPOWER SUMMARY						
	0.0	22.5	45	67.5	ACROSS	Flux
0	2373	2373	2373	2373	2373	
5	2362	2362	2361	2361	2361	224
10	2323	2325	2324	2324	2326	
15	2261	2261	2263	2263	2262	638
20	2177	2178	2178	2178	2178	
25	2073	2073	2073	2074	2073	955
30	1951	1950	1950	1952	1950	
35	1814	1814	1816	1815	1815	1135
40	1666	1667	1666	1666	1669	
45	1507	1506	1504	1504	1506	1160
50	1336	1335	1333	1332	1337	
55	1160	1158	1155	1150	1146	1031
60	975	972	968	962	958	
65	792	788	777	770	771	770
70	600	596	585	577	575	
75	413	408	397	391	390	424
80	239	234	227	223	222	
85	92	90	87	85	84	105
90	0	0	0	0	0	

Angled (A) and Flat (F) Total Light Output, 3500K, 80 CRI (Lumens)			
S*	B*	H*	V**
3483	4379	5001	6444
Power, 3500K, 80 CRI (Watts)			
S*	B*	H*	V**
27.0	35.2	40.6	55.1
Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S*	B*	H*	V**
129	124	123	117

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.

\* Family Correlation based on 3500K Very High Output (V) test - 120V.

\*\* Based on ITL report: 85146

S - Standard Output, B - Boosted Standard Output,  
 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

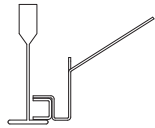
Total Light Output =  
 5001 lm x 0.789 = 3946 lm

$$\text{Efficacy} = \frac{3946 \text{ lm}}{40.6 \text{ W}} = 97 \text{ lm/W}$$

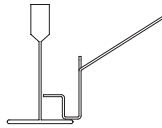
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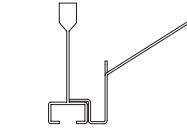
### CEILING SYSTEM INFORMATION



9/16" T-Bar

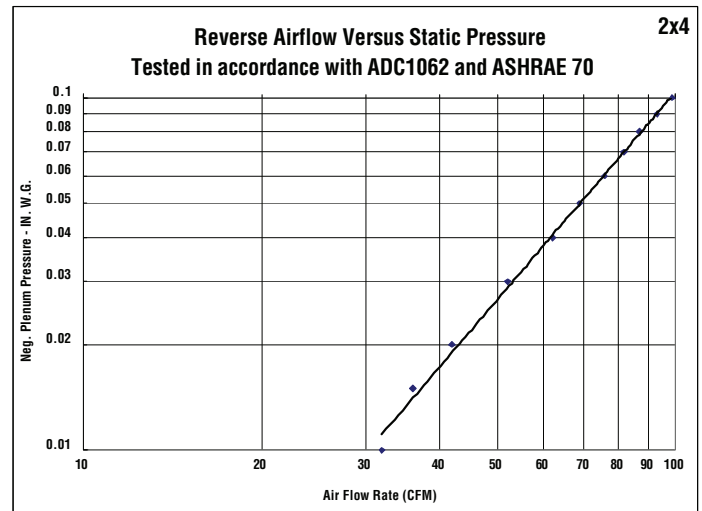


15/16" T-Bar



Screw Slot T-Bar

### AIR HANDLING INFORMATION



### SPECIFICATIONS

**CONSTRUCTION:** Luminaire assembly constructed using die-formed 20-gauge cold-rolled steel housing and ends. All components are hard-tooled to tolerances of 0.010". UV stabilized, weather-strip pile gasket with polypropylene backing. Optical system retained using hinged door frame assembly to provide easy access to driver compartment and for servicing from below without the need of tools. 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:** Luminaire tested in accordance with ADC1062 and ASHRAE 70. Air Return slots positioned on the center optic. Diffuse Center (DCO) is placed above the air return slots. Other center optics are positioned below the air return slots.

**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 center optic or parallel to the ceiling plane.

**CENTER OPTIC OPTIONS:** Only available with Angled (A) 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:  $\geq 0.9$ . 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)); 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, backup battery. Chicago Plenum option. Factory-choice low-profile backup battery available. Bodine BSL722 battery pack also available. Backup batteries deliver 2305 lumens. One quarter of the 2x4 will be illuminated in emergency mode.

**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 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.

**WEIGHT:** 33 lbs maximum.

**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. 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.

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