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









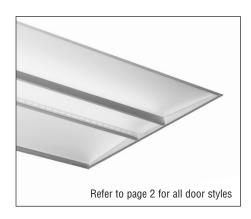


Date

Project

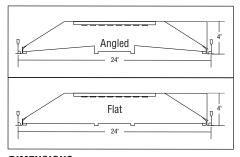
Type

Comments



DESCRIPTION

HPR LED Air Return is a highly efficient recessed luminaire delivering excellent visual comfort and outstanding performance. Advanced optical design makes HPR LED Air Return a powerful solution for low-ceiling applications. HPR LED Air Return effectively removes air from the space with minimal 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.

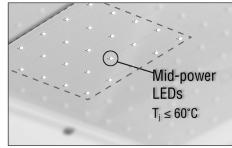


DIMENSIONS



100% SERVICEABLE FROM BELOW

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



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 - 2x4 - DCO - S - 835 - 277V - SC - C1 - AR - RLA

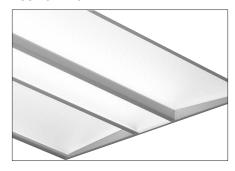
HPR LED - AR - AR -
Finelite Series HPR LED
Door Styles (A - Angled, F - Flat)
Size (2x4) —
Center Optic (DCO - Diffuse Center, SCO - Slotted Center, RCO - Round Center)
Light Output (S - Standard, B - Boosted Standard, H - High, V - Very High)————————————————————————————————————
LED CRI/CCT (830 - 80 CRI min, 3000K, 835 - 80 CRI min, 3500K, ———————————————————————————————————
840 - 80 CRI min, 4000K, 930 - 90 CRI min, 3000K,
935 - 90 CRI min, 3500K, 940 - 90 CRI min, 4000K
Voltage (120V, 277V) —
Circuiting (SC - Single Circuit)
Ceiling Type (C1 - 1" T-Bar, C2 - 9/16" T-Bar, C3 - screw slot, DW - Drywall Kit) ¹ ————————————————————————————————————
Air Return (AR)
Special Options (RLA - Red List Approved, RLD - Declared Label)

¹ Surface Mount available A brand of Liegrand

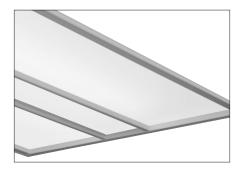
Finelite, Inc. • 30500 Whipple Road • Union City, CA 94587-1530 • (510) 441-1100 • Fax: (510) 441-1510 • www.finelite.com

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DOOR STYLES







F - Flat

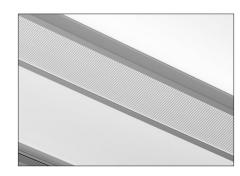
CENTER OPTICS



DCO - Diffuse Center



SCO - Slotted Center



RCO - Round Center

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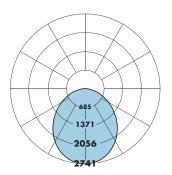
PHOTOMETRY

HPR LED-A-2x4-DCO-V Very High Output - Angled Rail Efficacy: 127 lumens per watt Total luminaire output: 6979 Lumens 55.1 Watts

Peak Candela Value: 2741 @ 0°

CCT: 3500K

ITL LM79 Report 85145



CANDLEPOWER SUMMARY						
	0.0	22.5	45	67.5	ACROSS	Flux
0	2741	2741	2741	2741	2741	
5	2730	2728	2728	2727	2727	259
10	2685	2684	2683	2682	2678	
15	2613	2607	2609	2605	2602	<i>7</i> 35
20	2511	2506	2502	2498	2498	
25	2380	2374	2371	2366	2367	1091
30	2223	2216	2213	2209	2211	
35	2043	2036	2033	2030	2033	1271
40	1845	1838	1836	1834	1837	
45	1635	1628	1627	1626	1630	1256
50	1417	1412	1412	1410	1413	
55	1200	1195	1196	1195	1187	1069
60	986	984	984	978	974	
65	780	778	774	766	761	766
70	582	583	576	569	565	
75	401	400	393	388	389	420
80	239	236	232	229	229	
85	103	100	97	91	89	111
90	0	0	0	0	0	

Angled (A) and Flat (F) Total Light Output, 3500K, 80 CRI (Lumens)						
S*	B*	H*	V**			
3772	4742	5416	6979			
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*	В*	Н*	V**			
140	135	133	127			

^{*} Family Correlation based on source 3500K Very High Output (V) test - 120V.

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 = $5416 \text{ Im } \times 0.789 = 4273 \text{ Im}$

$$Efficacy = \frac{4273 \ lm}{40.6 \ W} = 105 \ lm/W$$

^{**} Based on ITL report: 85145

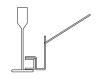
S - Standard Output, B - Boosted Standard Output,

H - High Output, V - Very High Output

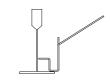
FINELITE

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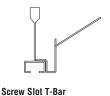
CEILING SYSTEM INFORMATION



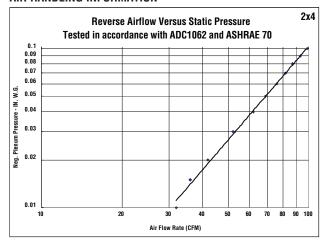
9/16" T-Bai



15/16" T-Bar



AIR HANDLING INFORMATION



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 luminare 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.

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

Diffuse Center Optic (**DCO**): UV-stabilized and impactresistant frosted virgin acrylic.

Slotted Center Optic (**\$C0**): Die-formed cold-rolled steel panel with a 1/16" x 1/2" rectangular hole pattern. Virgin acrylic overlay.

Round Center Optic (**RC0**): Die-formed cold-rolled steelpanel 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, 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.

AIR RETURN: Luminaire tested in accordance with ADC1062 and ASHRAE 70. Air Return slots positioned on the center optic. Diffuse Center Optic (DCO) is placed above the air return slots. Other center optics are positioned below the air return slots.

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. 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: 33 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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