

FINELITE

Tunable White High Performance Recessed 1x4 (HPR LED) Surface Mount



Refer to page 3 for all door styles

DESCRIPTION

HPR LED Surface Mount is a highly efficient luminaire delivering excellent visual comfort and outstanding performance.

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.

Date

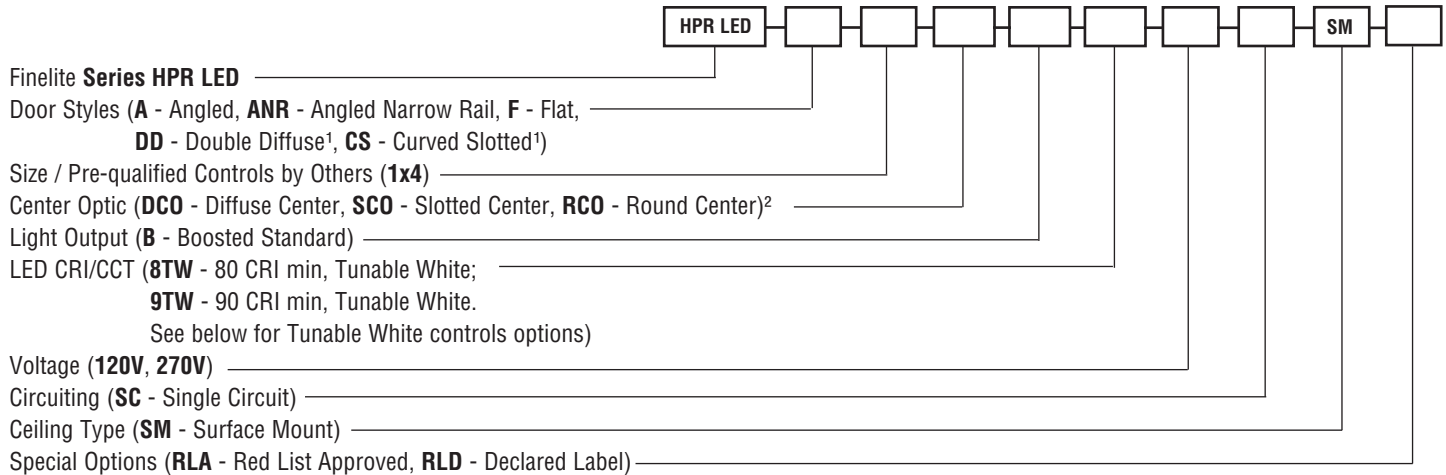
Project

Type

Comments


ORDERING GUIDE

Sample Number: HPR LED - A - 1x4 - DCO - B - 8TW - 277V - SC - SM - RLA



¹ Not available with Center Optic options
² Only available on Angled (A), Angled Narrow Rail (ANR), and Flat (F)

TUNABLE WHITE CONTROLS OPTIONS: SELECT ONE



FineTune controller with FineTune DMX Driver

OR

Controls by others with pre-qualified DMX driver

Controls by others with pre-qualified DALI driver

Controls by others with pre-qualified PoE setup

Controls by Lutron with pre-qualified Lutron driver

A brand of Legrand

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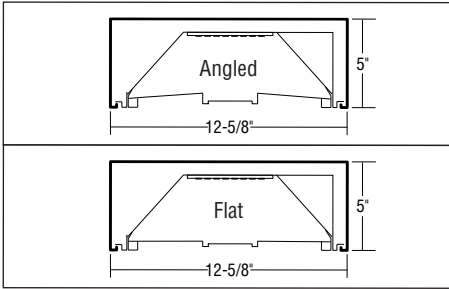
Due to continuing product improvements, Finelite reserves the right to change specifications without notice. Please visit www.finelite.com for most current data.

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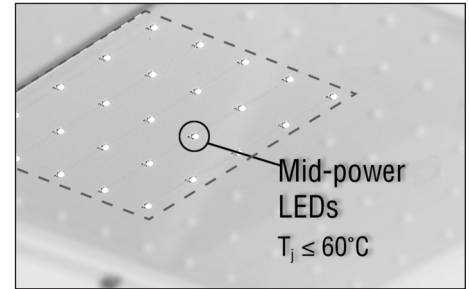
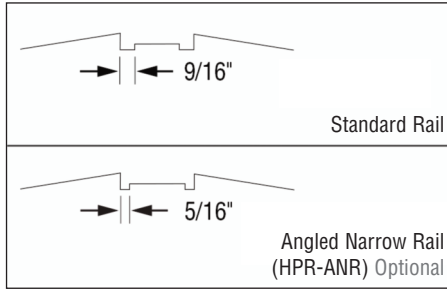
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LUMINAIRE FEATURES



Shown with Surface Mount kit



DIMENSIONS

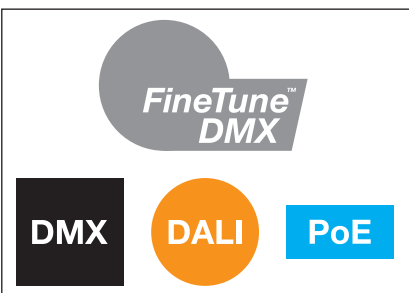
ANGLED NARROW RAIL OPTION

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.

THERMAL MANAGEMENT

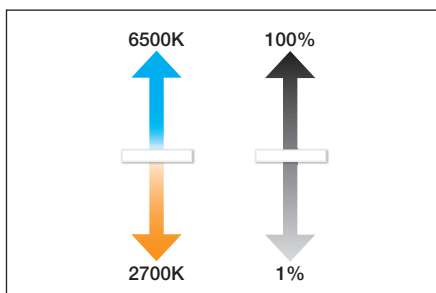
Mid-power LEDs allow heat to be fully dissipated without the need for additional heat sinks.

TUNABLE WHITE FEATURES



MULTIPLE CONTROL ARCHITECTURES

Finelite's FineTune™ DMX, qualified DMX, DALI (open and proprietary), or PoE (Power over Ethernet).



TUNABLE WHITE

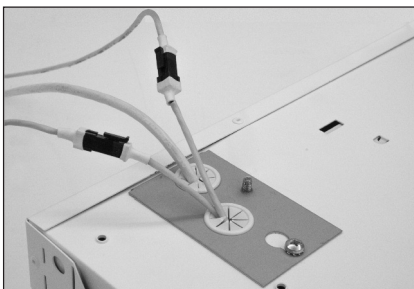
Any CCT between 2700K and 6500K with excellent CRI and R9 values; dimming from 100% to 1%.



FINETUNE SYSTEM

Award-winning control system, which includes intuitive wall mounted controller, power control center, driver, and mobile app to easily tailor lighting to match user preference.

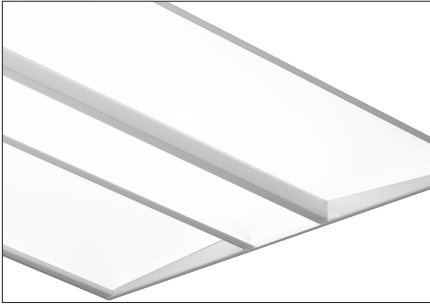
DMX CONNECTION



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DOOR STYLES



A - Angled
ANR - Angled Narrow Rail



F - Flat



DD - Double Diffuse



CS - Curved Slotted

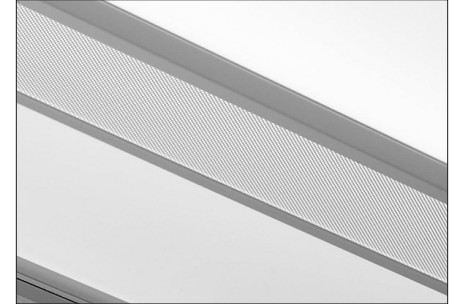
CENTER OPTICS



DCO - Diffuse Center



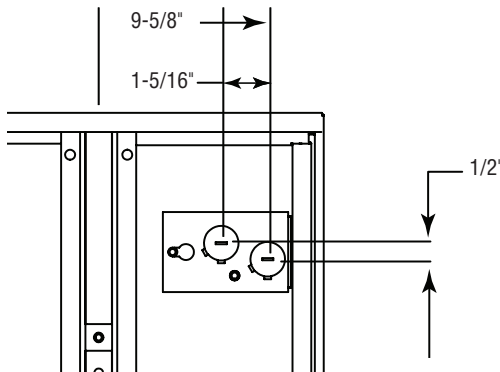
SCO - Slotted Center



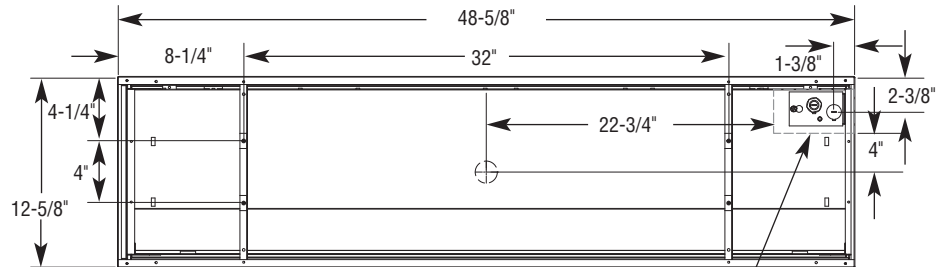
RCO - Round Center

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

WIRING ACCESS DETAIL



MOUNTING INFORMATION : 1x4



Consult www.finelite.com for 3000K, 3500K, and 4000K photometric reports.

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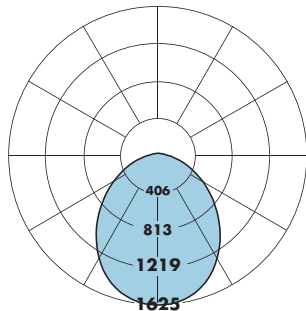
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PHOTOMETRY

HPR LED-F-1x4-DCO-B
 Boosted Standard Output - Flat
 Total luminaire output: 3985 Lumens
 Peak Cadela Value: 1625 @ 0°
 CCT: 3500K
 ITL LM79 Report 85141



CANDELA DISTRIBUTION						
	0.0	22.5	45.0	67.5	90.0	Flux
0	1625	1625	1625	1625	1625	
5	1616	1617	1618	1618	1618	154
10	1590	1588	1593	1594	1591	
15	1543	1540	1549	1549	1545	435
20	1478	1474	1483	1480	1475	
25	1400	1393	1399	1393	1386	642
30	1304	1297	1299	1288	1277	
35	1194	1189	1184	1168	1156	737
40	1077	1071	1061	1039	1028	
45	953	946	929	907	896	715
50	828	822	800	775	763	
55	703	695	670	646	637	600
60	581	572	548	522	511	
65	461	453	429	401	393	424
70	346	340	315	290	283	
75	239	234	211	190	184	225
80	147	138	117	100	94	
85	65	55	38	32	30	53
90	0	0	0	0	0	

Angled (A) and Flat (F) Total Light Output, 3500K, 80 CRI (Lumens)	
B*	
	3985
Power, 3500K, 80 CRI (Watts)	
B*	
	40.8
Efficacy, 3500K, 80 CRI (Lumens Per Watt)	
B*	
	98

Lumen Adjustment Factors - 80 CRI	
2700K	0.968
3000K	0.985
3500K	1.000
4000K	1.032
6500K	1.032

Lumen Adjustment Factors - 90 CRI	
2700K	0.731
3000K	0.746
3500K	0.760
4000K	0.789
6500K	0.789

B - Boosted Standard Output

* Based on ITL report 85141 3500K, 80 CRI Boosted Standard Output (B) test - 120V.

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

SAMPLE LUMEN ADJUSTMENT CALCULATION

$$\frac{\text{Boosted Standard Output (B)}}{\text{Angled (A) \& Flat (F) 4000K, 90 CRI}}$$

$$\text{Lumen Adjustment Factor} = 0.789$$

$$\text{Total Light Output} = 3985 \text{ lm} \times 0.789 = 3144 \text{ lm}$$

$$\text{Efficacy} = \frac{3144 \text{ lm}}{40.8 \text{ W}} = 77 \text{ lm/W}$$

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Angled Narrow Rail (ANR) Total Light Output, 3500K, 80 CRI (Lumens)	
B^y	
	3855
Power, 3500K, 80 CRI (Watts)	
B^y	
	40.8
Efficacy, 3500K, 80 CRI (Lumens Per Watt)	
B^y	
	94

B - Boosted Standard Output

^y Based on ITL report: 85147, 80 CRI 500K Boosted Standard Output (B) test - 120V.

Lumen Adjustment Factors - 80 CRI	
2700K	0.968
3000K	0.985
3500K	1.000
4000K	1.032
6500K	1.032

Lumen Adjustment Factors - 90 CRI	
2700K	0.731
3000K	0.746
3500K	0.760
4000K	0.789
6500K	0.789

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

Double Diffuse (DD) Total Light Output, 3500K, 80 CRI (Lumens)	
B[±]	
	3491
Power, 3500K, 80 CRI (Watts)	
B[±]	
	40.6
Efficacy, 3500K, 80 CRI (Lumens Per Watt)	
B[±]	
	86

B - Boosted Standard Output

[±] Based on ITL report: 85153 3500K, 80 CRI Boosted Standard Output (B) test - 120V.

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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 1x4 Air Return Tech Sheet for more information.

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, 1/8" 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.

DOUBLE DIFFUSE: Visible diffuser: UV-stabilized and impact-resistant frosted virgin acrylic, 0.120" thick. Inner diffuser: 1/8" thick with 60% round perforations white/white.

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: Available in Boosted Standard (B). 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.

TUNABLE WHITE DRIVER: Replaceable LED driver accessible from below the ceiling. 120/277V. Power factor: ≥ 0.90 . Total Harmonic Distortion (THD): $< 20\%$. Dimming Range: 100% - 1%. Expected driver lifetime: 100,000 hours.

LUTRON DRIVER OPTIONS: LutDTW (1% T-Series 2-Channel Digital Tunable White (PSQ Series)).

ELECTRICAL:

Emergency Option DMX: Battery backup only.

Emergency Option DALI: Battery backup, emergency-to-generator/ inverter wiring.

Emergency Option Lutron: Battery backup, emergency-to-generator/ inverter wiring.

Emergency Option PoE: Contact factory.

Battery Backup: Factory-choice low-profile backup battery also available. Backup batteries deliver 1992 lumens. One quarter of the 1x4 will be illuminated in emergency mode. Backup battery will operate at 6500K in emergency.

Chicago Plenum: Available on request.

MOUNTING: Luminaire is compatible with recessed junction boxes. Electrical connections can be made directly to wiring access plate shown above. Junction boxes can also be placed between mounting bars. Maximum center of feed location from luminaire center is 8-3/4" along the dimension parallel to the mounting bars, and 22-3/4" along dimension perpendicular to the mounting bars.

DMX INTERCONNECTION CABLES: Luminaires are prewired with plug-and-play interconnection cables to support easy plug-together joining of luminaire runs. If a non-FineTune DMX system has been specified, a DMX to RJ45 converter is provided.

FINISHES: Housing and door assembly painted with 96LG high reflectance matte white powder coat paint. Optional adder: Anti-microbial paint. Contact factory.

FEED: Standard with one 18-gauge single-circuit feed. 14-gauge feed available on request. DMX and power feed at same location (standard). Optional whips (with flex connectors) supplied in a maximum of 11' lengths. Lead Wires. DMX feeds cannot be cut or spliced. DMX feeds should be ordered based on fixed lengths.

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: 25 lbs maximum.

WARRANTY: 10-year performance-based warranty on all standard components. Qualified drivers by others and optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.

TUNABLE WHITE PRE-QUALIFIED DRIVERS BY OTHERS

DMX	DALI	POE set up	LUTRON
EldoLED	EldoLED, Crestron	Contact Factory	LUTRON

NOTE: For a complete list of system option/limitations [please click here](#).