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

USTRY &		
Tunable Declare. Third Party Verified	Date	
LED WARRANTY		
	Project	
	Туре	
	Comments	
Refer to page 3 for all door styles		
DESCRIPTION		
HPR LED-EP Air Return is a highly effective luminaire delivering excellent outstanding performance. This enhanced performance luminaire features aesthetic. Advanced optical designs make the HPR LED-EP Air Return a	s a very uniform diffuser	
low-ceiling applications and eliminate the shadows common to other LEI) products. HPR LED-EP	
Air Return effectively removes air from the space with little change to the		
This Product is enrolled in the International Living Future Institute (ILFI)	0	
third-party verified with options achieving Red List Approved and Declare	ed status.	

ORDERING GUIDE

FINELITE

Sample Number: HPR-EP - A - 2x4 - DCO - B - 8TW - 277V - SC - C1 - AR - RLA

Finelite Series HPR-EP
Door Styles (A - Angled, F - Flat)
Size / Pre-qualified Controls by Others (2x4)
Center Optic (DCO - Diffuse Center, SCO - Slotted Center, RCO - Round Center)
Light Output (B - Boosted Standard, V - Very High)
LED CRI/CCT (8TW - 80 CRI min, Tunable White;
9TW - 90 CRI min, Tunable White.
See below for Tunable White controls options)
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

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
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A brand of **D legrand**

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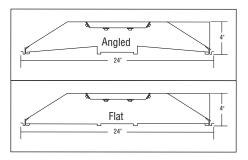
Due to continuing product improvements, Finelite reserves the right to change specifications without notice. Please visit www.finelite.com for most current data.

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LUMINAIRE FEATURES



DIMENSIONS



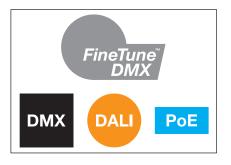
TWICE THE UNIFORMITY

HPR-EP uses new LED arrays and materials to deliver a diffuser that is twice as uniform when compared to standard luminaires.

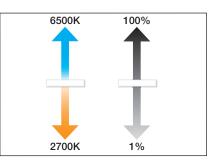
Mid-power LEDs Tj ≤ 60°C	

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



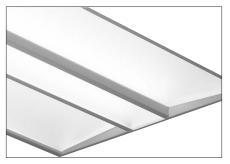
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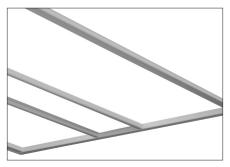
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DOOR STYLES



A - Angled

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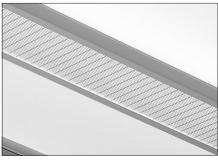


F - Flat

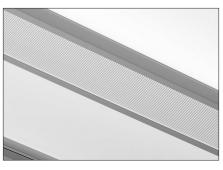
CENTER OPTICS



DCO - Diffuse Center



SCO - Slotted Center



RCO - Round Center

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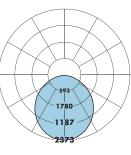
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Tunable White High Performance Recessed (HPR LED-EP) 2x4, Air Return

PHOTOMETRY

HPR LED-EP-A-2x4-DCO-V Very High Output - Flat Rail Total Luminaire Output: 6444 Lumens Peak Candela Value: 2373 @ 0° CCT: 3500K ITL LM79 Report: 85146



Angled (A) and Flat (F) Total Light Output, 3500K, 80 CRI (Lumens)		
В*	V**	
4379	6444	
Power, 3500K, 80 CRI (Watts)		
B*	V**	
38.7	60.6	
Efficacy, 3500K, 80 CRI (Lumens Per Watt)		
В*	V**	
113	106	

B - Boosted Standard Output, V - Very High Output

* Family Correlation based on 3500K 80 CRI Very High Output (V) test - 120V.

** Based on ITL report: 85146

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			
Lumen Adjustmer	it Factors - 90 CRI		
Lumen Adjustmer 2700K	ot Factors - 90 CRI 0.731		
•			
2700K	0.731		
2700K 3000K	0.731 0.746		

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

SAMPLE LUMEN ADJUSTMENT CALCULATION

Boosted Standard Output (B) Angled (A) & Flat (F) 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output = 4379 lm x 0.789 = 3455 lm

 $Efficacy = \frac{3455 \ lm}{38.7 \ W} = 89 \ \text{Im/W}$

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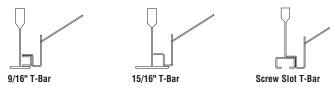
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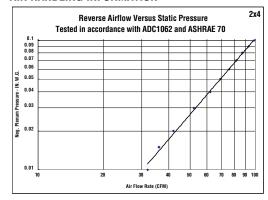
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CEILING SYSTEM INFORMATION





AIR HANDLING INFORMATION



Tunable White High Performance Recessed

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: 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, 1/8" 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 (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: Two lumen packages available. Boosted Standard (B) and Very High (V). A separate chart summarizes lumen distribution and wattage. Light engines are replaceable.

SPECIFICATIONS

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 \geq 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 available. Backup batteries deliver 2305 lumens. One quarter of the 2x4 will be illuminated in emergency mode. Backup battery will operate at 6500K in emergency.

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 and Surface Mount versions available; refer to separate tech sheets.

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 ETLlisted 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. Qualified drivers by others and optional accessories such as emergency battery and packs are covered by their individual manufacturer warranties. INC.

TUNABLE WHITE PRE-QUALIFIED DRIVERS BY OTHERS

	DMX	DALI	POE set up	LUTRON	
	EldoLED	EldoLED, Crestron	Contact Factory	LUTRON	
ſ	NOTE: For a complete list of system option/limitations please click here.				
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