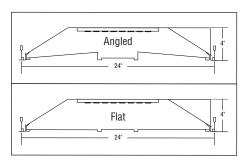




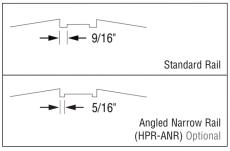
This product is enrolled in the International Living Future Institute (ILFI) Declare 2.0 Program and is third-party verified with options achieving **Red List Approved** and **Declared** status.



Curved Slotted, Double Diffuse and Wave door not available with Center Optic options

Only available on Angled (A), Angled Narrow Rail (ANR), and Flat (F) door options

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

IMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 8 drivers may be connected LMFS-601 w/ Dali driver, only 1 driver can be connected.
 Lutron Vive Ingrated Sensors require a DALI driver

A brain

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

ORDERING GUIDE: Sample Number: HPR LED - A - 2x2 - DCO - H - 832-SMIC - 277V - SC - C1 - 0BO - CP - RLA **HPR LED** Finelite Series HPR LED Door Styles (A - Angled, ANR - Angled Narrow Rail, F - Flat, CS - Curved Slotted¹, DD - Double Diffuse^{1,2}, WAV - Wave¹) Size (2x2) Center Optic (DCO - Diffuse Center, SCO - Slotted Center, RCO - Round Center)3 Light Output (H - High, V - Very High) LED CRI/CCT (832-SMIC - 80 CRI min, 3200K Single Mode Indigo-Clean, 837-SMIC - 80 CRI min, 3200K Single Mode Indigo-Clean, 843-SMIC - 80 CRI min, 3700K Single Mode Indigo-Clean, 832-DMIC - 80 CRI min, 3200K Dual Mode Indigo-Clean, 837-DMIC - 80 CRI min, 3700K Dual Mode Indigo-Clean. 843-DMIC - 80 CRI min, 4300K Dual Mode Indigo-Clean) Voltage (120V, 277V) Circuiting (SC - Single Circuit) Ceiling Type (C1 - 1" T-Bar, C2 - 9/16" T-Bar, C3 - screw slot, DW - Drywall Kit)4 Integrated Sensors⁶ (OBD - Daylight, OBO - Occupancy, W601 - Wattstopper Wireless Sensor⁷, OBB - Both, VOCC - Lutron Vive Wireless Sensor (VDO)8, VRF - Lutron Vive Radio Only8) Special Options (CP - Chicago Plenum RLA - Red List Approved, RLD - Declared Label)

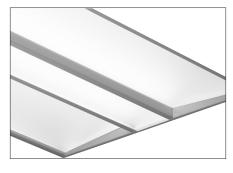
Finelite, Inc. • 30500 Whipple Road • Union City, CA 94587-1530 • (510) 441-1100 • Fax: (510) 441-1510 • www.finelite.com

Surface Mount available
 Indigo-Clean Research Reports
 Not available with Dual-Mode

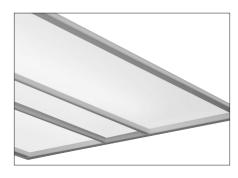
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DOOR STYLES



A - Angled ANR - Angled Narrow Rail

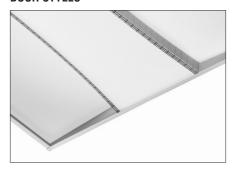


F - Flat

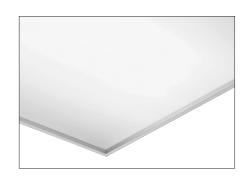


WAV - Wave

DOOR STYLES



CS - Curved Slotted

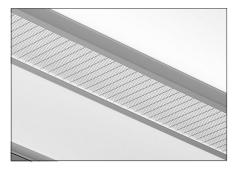


DD - Double Diffuse

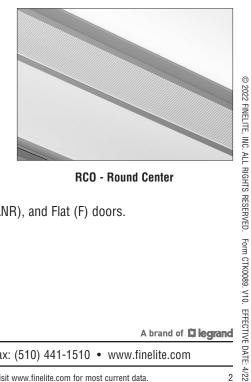
CENTER OPTICS



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.

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PHOTOMETRY

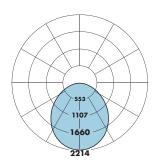
HPR LED-A-2x2-DCO-V Very High Output - A/F Efficacy: 101 lumens per watt Total luminaire output: 5535 Lumens

54.6 Watts

Peak Candela Value: 2214 @ 0°

CCT: 3700K

ITL LM79 Report 85142 (Family Correlated)



Information in charts below are for reference and based on ITL LM79 report 85142 (Family Correlated)

Angled (A) and Flat (F) Total Light Output, 3700K, 80 CRI (Lumens)					
	Н		V		
	4250		5535		
	Single Mode Power (Watts)				
	Н		V		
	40.2		54.6		
Dual Mode Power (Watts)					
Н			V		
Occupied	LDP	Unoccupied	Occupied	LDP	Unoccupied
41.6	32.2	23.9	56.1	43.7	31.3
Efficacy, 3700, 80 CRI (Lumens per Watt)					
Н		V			
106		101			

Angled Narrow Rail (ANR) Total Light Output, 3700K, 80 CRI (Lumens)					
	Н		V		
	4099		5338		
Single Mode Power (Watts)					
	Н		V		
40.2			54.6		
Dual Mode Power (Watts)					
Н			V		
Occupied	LDP	Unoccupied	Occupied	LDP	Unoccupied
41.6	32.2	23.9	56.1	43.7	31.3
Efficacy, 3700, 80 CRI (Lumens per Watt)					
Н			V		
102			98		

Wave (WAV) Total Light Output, 3700K, 80 CRI (Lumens)					
	Н		V		
	4341		5654		
Single Mode Power (Watts)					
	Н		V		
40.2			54.6		
Dual Mode Power (Watts)					
Н			V		
Occupied	LDP	Unoccupied	Occupied	LDP	Unoccupied
41.6	32.2	23.9	56.1	43.7	31.3
Efficacy, 3700, 80 CRI (Lumens per Watt)					
Н			V		
108				104	

Curved Slotted (CS) Total Light Output, 3700K, 80 CRI (Lumens)					
Н			V		
	4050		5274		
Single Mode Power (Watts)					
Н			V		
40.2		54.6			
Dual Mode Power (Watts)					
Н		V			
Occupied	LDP	Unoccupied	Occupied	LDP	Unoccupied
41.6	32.2	23.9	56.1	43.7	31.3
Efficacy, 3700, 80 CRI (Lumens per Watt)					
Н			V		
101			97		

Double Diffuse (DD) Total Light Output, 3700K, 80 CRI (Lumens)					
Н			V		
3403			4432		
Single Mode Power (Watts)					
	Н		V		
40.2		54.6			
Dual Mode Power (Watts)					
Н		V			
Occupied	LDP	Unoccupied	Occupied	LDP	Unoccupied
41.6	32.2	23.9	56.1	43.7	31.3
Efficacy, 3700, 80 CRI (Lumens per Watt)					
Н			V		
85			81		

Lumen Adjustment Factors - 80 CRI			
Indigo-Clean			
3200K	0.98		
3700K	1.00		
4300K	1.03		

SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H) Angled (A) & Flat (F) 3200K, 80 CRI

Lumen Adjustment Factor = 0.98 Total Light Output = 4250 4250 lm x 0.98 = 4165 lm

Efficacy =
$$\frac{4165 \text{ Im}}{40.2 \text{ W}}$$
 = 104 lm/W

H - High Output, V - Very High Output

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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 2x2 Air Return Tech Sheet for more information. Available with angled (**A**) and flat (**F**) luminaire style only.

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 center optical element is held in place by sleek steel rails. The standard center rails are approximately 9/16" wide. Optional narrows rails are approximately 5/16" wide. Optional wave door includes frosted acrylic panel that undulates from side to side. For optimum performance, continuously provide an average 50-60 footcandles on the work plane (24/7). Dimming generally reduces effectiveness and increases the variation in the disinfecting light's visual appearance.

INDIGO-CLEAN TECHNOLOGY: Single-Mode Indigo-Clean Technology utilizes a combination of blended white LEDs, and safe 405nm LEDs to continually disinfect a space and kill bacteria, Influenza-A¹, and SARS-CoV-2 – the virus that causes COVID-19¹. Unlike UV disinfection, Indigo-Clean Technology is designed to safely and continuously disinfect a space while it is fully occupied. When the Indigo-Clean Technology light is on, disinfection is active. For optimum performance, continuously provide an average 50-60 footcandles on the work plane and high touch surfaces (24/7). Dimming generally reduces effectiveness and increases the variation in the disinfecting light's visual appearance.

Single-Mode Indigo-Clean Technology: Continuous environmental disinfection system that uses a blended white LEDs and 405nm Indigo-Clean LEDs. The narrow spectrum light provides a safe visible light that disinfects the space. When the light is on, disinfection is active.

Dual-Mode Indigo-Clean Technology: Utilizes a two circuit board design. When the space is occupied it utilizes a combination of blended white LEDs and 405nm LEDs. When the space is unoccupied, it

utilizes just the 405nm LEDs with increased output to increase disinfection efficacy.

Dual-Mode Indigo-Clean Technology Controller: It is a low voltage internal device that determines the operational mode based on the input received from the external automated controls. An Off manual push will not turn the lights off, but rather turn the lights to Blue Mode. Please refer to Dual-Mode Application Guide for wiring diagram. Dim to Off not available.

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.

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 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, High Output (H), and Very High Output (V). A separate chart summarizes lumen distribution and wattage. Light engines are replaceable.

LUMEN MAINTENANCE: White LEDs: 90% of initial light output (L90) at 100,000+ hours; 70% of initial light output (L70) at 200,000+ hours. 405nm LEDs: 70% of initial output at L70 @ 60,000 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)); **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 2199 lumens. One half of the 2x2 will be illuminated in emergency mode.



INTEGRATED SENSORS: Integrated PIR (Passive Infrared) occupancy and/or daylight sensors available. Refer to Occupancy

Sensor and Daylight Sensor tech sheets for more info. Integrated Sensors not available for Dual-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 and air return versions available; refer to separate tech sheets.

PATENT: Indigo-Clean products and technology covered by U.S. Patent No. US 9,039,966 and US 8,398,264. Product may also be covered by patents found at www.kenall.com/patents.

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 1598 in the U.S.A. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.130 (G), this luminaire contains an internal driver disconnect. UL 924 and UL 2108 PoE options available on request. EPA Est.No. 99530-CA-1. These fixtures are rated for Damp Location. IC-rated and Chicago Plenum options available. 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 2015/863. HPR can be used to comply with 2016 Title 24, Part 6 (JA8); high efficacy LED light source requirements. Consult factory for tailored lighting options. 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.

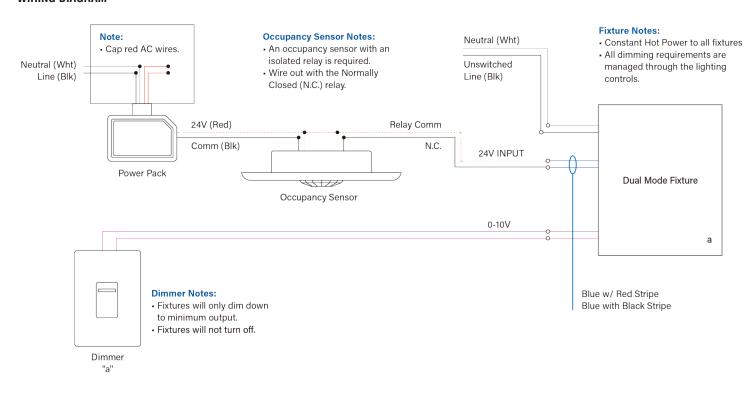
WEIGHT: 16 lbs maximum.

WARRANTY: 5-year performance-based warranty on all standard components. Optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.

¹ Indigo-Clean Research Reports A brand of 🗖 legrand



WIRING DIAGRAM



DUAL FEED DETAIL



Blue / Red Blue / Black



24V Dual Mode Control Pair

Each Indigo-Clean Dual Mode fixture will have a pair of #18awg low voltage wires



OCC 24V +





WIRING LEGEND				
Black	Hot			
White	Neutral			
Green	Ground			
Purple	0-10V +			
Pink	0-10V -			

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