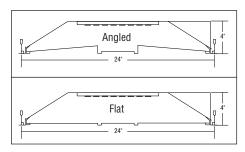


Declare. Indigo-Clean	Date	
A brand of legrand Indigo-Clean is a registered trademark of Kenall Manufacturing Co., a Legrand Company	Project	
	Туре	
Defeate ages 0 for all describes	Comments	
Refer to page 2 for all door styles		
DESCRIPTION		
Indigo-Clean Technology is a Continuous Environmental Disinfection System that bacteria, Influenza- A^1 , and SARS-CoV-2 – the virus that causes COVID-19 1 – and is independent lab testing. Unlike UV disinfection, Indigo-Clean Technology is design space while it is fully occupied.	s proven effective by recently conducted	
Single-Mode Indigo-Clean Technology utilizes a combination of blended white LE	Ds and 405nm LEDs on a single circuit	

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.

Dual-Mode Indigo-Clean Technology utilizes a mid-power of blended white LEDs and 405nm LEDs on a two circuit board design and full 405nm indigo light using automated controls to disinfect the space. When the space is unoccupied, it utilizes



board design. When the luminaires are on, the disinfection is active.

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

9/16 Standard Rail 5/16" Angled Narrow Rail (HPR-ANR) Optional

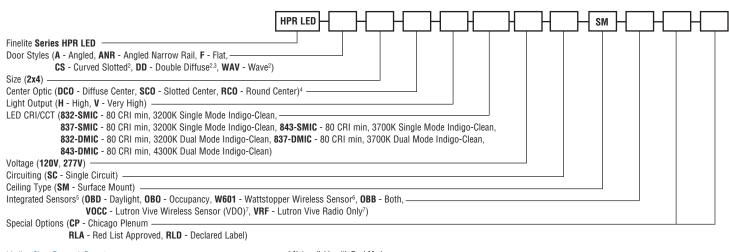
DIMENSIONS

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 rails are approximately 9/16" wide.

100% SERVICEABLE FROM BELOW The replaceable light engine and driver are easy to access from below the ceiling.

ORDERING GUIDE: Sample Number: HPR LED - A - 2x4 - DCO - H - 832-SMIC - 277V - SC - SM - OBO - CP - RLA



- 1 Indigo-Clean Research Reports
- ² Curved Slotted, Double Diffuse and Wave door not available with Center Optic options
- ⁴ Only available with Angled (A), Angled Narrow Rail (ANR) and Flat (F) door options
- 5 Not available with Dual-Mode
- 6 LMFS-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.

⁷ Lutron Vive Ingrated Sensors require a DALI driver

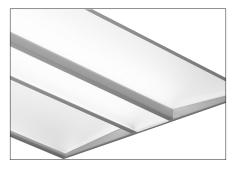
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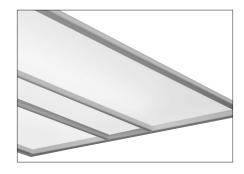




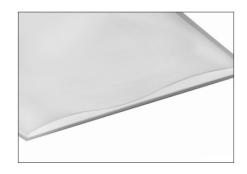
DOOR STYLES



A - Angled ANR - Angled Narrow Rail



F - Flat



WAV - Wave

DOOR STYLES



CS - Curved Slotted



DD - Double Diffuse

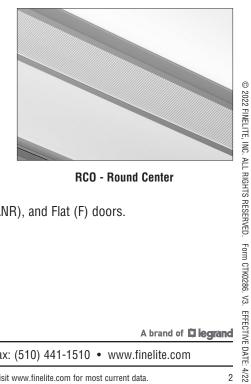
CENTER OPTICS



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.



10

PHOTOMETRY

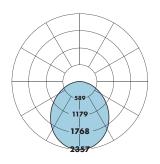
HPR LED-A-2x4-DCO-V Very High Output - A/F Efficacy: 116 lumens per watt Total luminaire output: 6002 Lumens

51.7 Watts

Peak Candela Value: 2357 @ 0°

CCT: 3700K

ITL LM79 Report 85145 (Family Correlated)



Information in charts below are for reference and based on ITL LM79 report 85145 (Family Correlated)

Angled (A) and Flat (F) Total Light Output, 3700K, 80 CRI (Lumens)					
	Н		V		
	4658			6002	
Single Mode Power (Watts)					
Н			V		
38.1		51.7			
Dual Mode Power (Watts)					
Н			V		
Occupied	LDP	Unoccupied	Occupied	LDP	Unoccupied
41.8	30.5	25.8	51.5	41.4	28.7
Efficacy, 3700, 80 CRI (Lumens per Watt)					
Н		V			
122		116			

Angled Narrow Rail (ANR) Total Light Output, 3700K, 80 CRI (Lumens)					
	Н		V		
	4544		5855		
	Single Mode Power (Watts)				
Н			V		
38.1			51.7		
Dual Mode Power (Watts)					
Н			V		
Occupied	LDP	Unoccupied	Occupied	LDP	Unoccupied
41.8	30.5	25.8	51.5	41.4	28.7
Efficacy, 3700, 80 CRI (Lumens per Watt)					
Н		V			
119		113			

Wave (WAV) Total Light Output, 3700K, 80 CRI (Lumens)					
	Н		V		
	4718			6079	
	Sin	gle Mode l	Power (Wa	ıtts)	
Н			V		
38.1		51.7			
Dual Mode Power (Watts)					
Н		V			
Occupied	LDP	Unoccupied	Occupied	LDP	Unoccupied
41.8	30.5	25.8	51.5	41.4	28.7
Efficacy, 3700, 80 CRI (Lumens per Watt)					
	Н			V	
124		118			

TCANDLEPOWER SUMMARY

2307 2307

197

67.5

ACROSS Flux

197

22.5

2309 2308

0

Curved Slotted (CS) Total Light Output, 3700K, 80 CRI (Lumens)					
	Н		V		
	4406			5678	
Single Mode Power (Watts)					
Н			V		
38.1		51.7			
Dual Mode Power (Watts)					
Н			V		
Occupied	LDP	Unoccupied	Occupied	LDP	Unoccupied
41.7	30.5	25.8	51.5	41.4	28.7
Efficacy, 3700, 80 CRI (Lumens per Watt)					
Н		V			
116			110		

Double Diffuse (DD) Total Light Output, 3700K, 80 CRI (Lumens)					
	Н		V		
	3798			4894	
	Sin	gle Mode l	Power (Wa	itts)	
H V					
	38.1		51.7		
Dual Mode Power (Watts)					
Н			V		
Occupied	LDP	Unoccupied	Occupied	LDP	Unoccupied
41.7	30.5	25.8	51.5	41.4	28.7
Efficacy, 3700, 80 CRI (Lumens per Watt)					
H V					
100		95			

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

SAMPLE LUMEN ADJUSTMENT CALCULATION

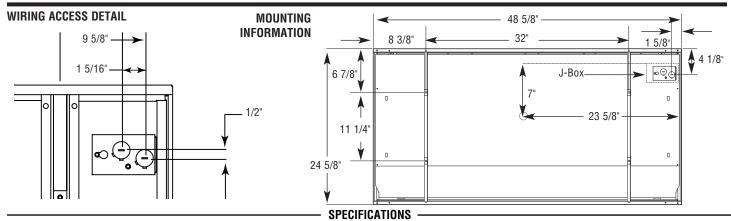
High Output (H) Angled (A) & Flat (F) 3200K, 80 CRI

Lumen Adjustment Factor = 0.98 Total Light Output = 4658 $4658 \text{ Im } \times 0.98 = 4565 \text{ Im}$

$$Efficacy = \frac{4565 \text{ Im}}{38.1 \text{ W}} = 120 \text{ Im/W}$$

H - High Output, V - Very High Output

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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.

REFLECTORS: Die-formed 20-gauge cold-rolled steel reflectors are finished in 96LG high reflectance matte white powder coat paint.

AIR RETURN: Refer to 2x4 Air Return Tech Sheet for more

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 standard center rails are approximately 9/16" wide. Optional narrow rails are approximately 5/16" wide. Optional wave door includes frosted acrylic panel that undulates from side to side. For ontimum 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.

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-19'. 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 (24/7).

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 DualMode Application Guide for wiring diagram. Dim to Off not

DOUBLE DIFFUSE: Visible diffuser: UV-stabilized and impactresistant 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 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 over-

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 (H), and Very High (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 170 @ 60 000 hours

DRIVER: Replaceable 120V/277V Constant Current Reduction dimming driver standard. Can be wired dimming or nondimming. 0-10V dimming controls with a range of 10%-100%. 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: LUT-ES1 (Hi-lume 1% EcoSystem with Soft-On, Fade to Black dimming (LDE1 series)); LUT-2W (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, stepdimming 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.





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 Senors not available with Dual-Mode.

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.

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. Available in matte white only.

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. ICrated 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: 33 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

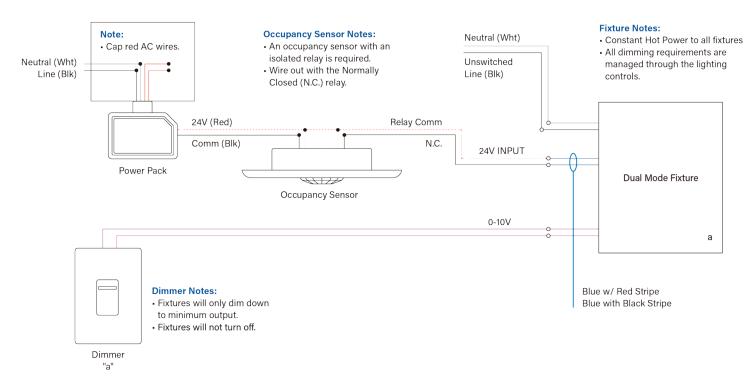
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WIRING DIAGRAM



DUAL FEED DETAIL





24V Dual Mode Control Pair

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







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

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