



Indigo-Clean is a registered trademark of Kenall Manufacturing Co., a Legrand Company

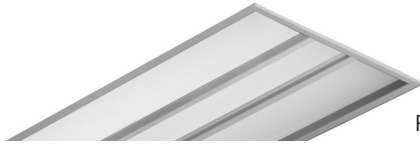


Date

Project

Type

Comments



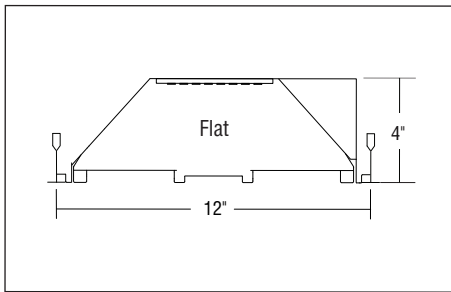
Refer to page 2 for all door styles

DESCRIPTION

Indigo-Clean Technology is a Continuous Environmental Disinfection System that emits a narrow spectrum light that kills bacteria, Influenza-A¹, and SARS-CoV-2 – the virus that causes COVID-19¹ – and is proven effective by recently conducted independent lab testing. Unlike UV disinfection, Indigo-Clean Technology is designed to safely and continuously disinfect a space while it is fully occupied.

Single-Mode Indigo-Clean Technology utilizes a combination of blended white LEDs and 405nm LEDs on a single circuit board design. When the luminaires are on, the disinfection is active.

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.

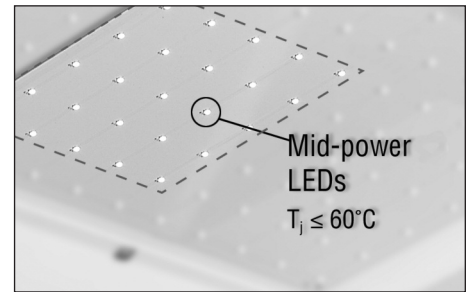


DIMENSIONS



100% SERVICEABLE FROM BELOW

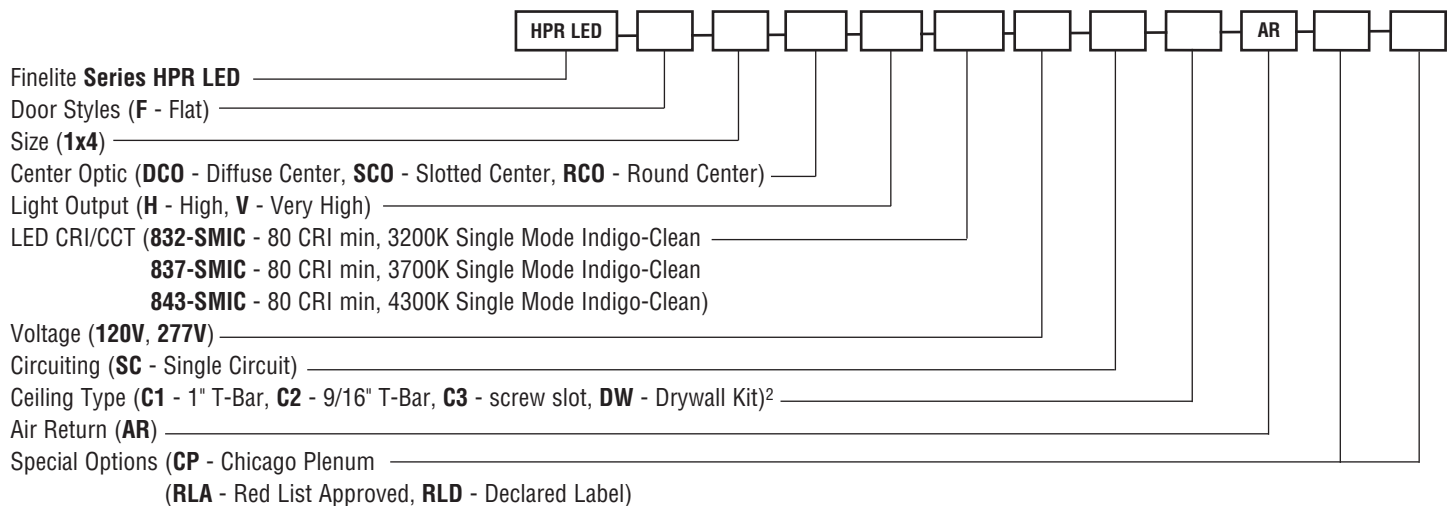
The replaceable light engine and driver are easy to access from below the ceiling.



THERMAL MANAGEMENT

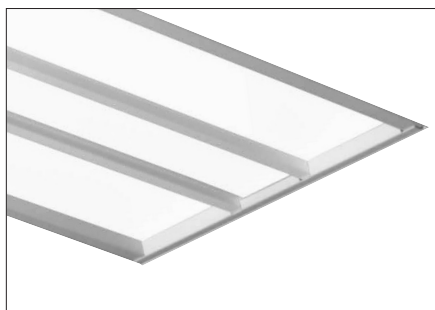
Mid-power LEDs allow heat to be fully dissipated without the need for additional heat sinks.

ORDERING GUIDE: *Sample Number: HPR LED - F - 1x4 - DCO - H - 832-SMIC - 277V - SC - C1 - AR - CP - RLA*



¹ Shed the light on virus[®] article
² Surface Mount available

DOOR STYLES



F - Flat

CENTER OPTICS



DCO - Diffuse Center



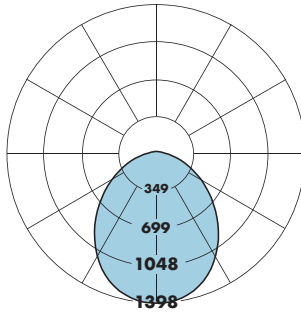
SCO - Slotted Center



RCO - Round Center

PHOTOMETRY

HPR LED-F-1x4
Very High Output
Efficacy: 87 lumens per watt
Total luminaire output: 5050 Lumens
58.1 Watts
Peak Cadela Value: 1398 @ 0°
CCT: 3700K
ITL LM79 Report 85141 (Family Correlated)



CANDELA DISTRIBUTION						
	0.0	22.5	45.0	67.5	90.0	Flux
0	1398	1398	1398	1398	1398	
5	1390	1391	1391	1391	1391	132
10	1367	1366	1370	1371	1368	
15	1327	1324	1332	1332	1329	374
20	1271	1268	1275	1273	1269	
25	1204	1198	1203	1198	1192	552
30	1121	1115	1117	1108	1098	
35	1027	1023	1018	1004	994	633
40	926	921	912	894	884	
45	820	814	799	780	771	615
50	712	707	688	667	656	
55	605	598	576	556	549	516
60	500	492	471	449	439	
65	396	390	369	345	338	365
70	298	292	271	249	243	
75	205	201	181	163	158	194
80	126	119	101	101	86	
85	56	47	33	28	26	46
90	0	0	0	0	0	

Information in charts below are for reference and based on ITL LM79 report 85141

Flat (F) Total Light Output, 3700K, 80 CRI (Lumens)	
H	V
3878	5050
Power (Watts)	
H	V
42.8	58.1
Efficacy, 3700, 80 CRI (Lumens per Watt)	
H	V
91	87

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

**SAMPLE LUMEN
ADJUSTMENT CALCULATION**

$$\frac{\text{High Output (H) Flat (F)}}{3200\text{K, } 80 \text{ CRI}}$$

$$\text{Lumen Adjustment Factor} = 0.98$$

$$\text{Total Light Output} = 3878 \text{ lm} \times 0.98 = 3800 \text{ lm}$$

$$\text{Efficacy} = \frac{3800 \text{ lm}}{42.8 \text{ W}} = 89 \text{ lm/W}$$

H - High Output, V - Very High Output

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.

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.

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. 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 (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. Available: Year-end, 2021.

CENTER OPTIC OPTIONS: *Only available with 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: 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 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: 170,000 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 1992 lumens. One half of the 1x4 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. Available in matte white only. Optional adder: Antimicrobial paint is available. 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: 25 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 "Shed the light on virus" article