



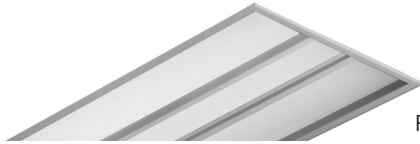
Indigo-Clean is a registered trademark of Kenall Manufacturing Co., a Legrand Company

Date

Project

Type

Comments



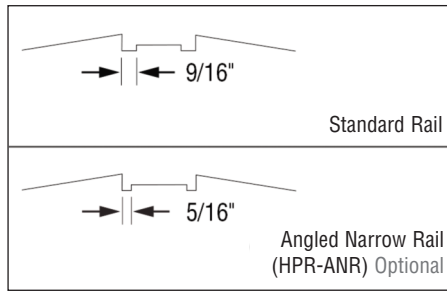
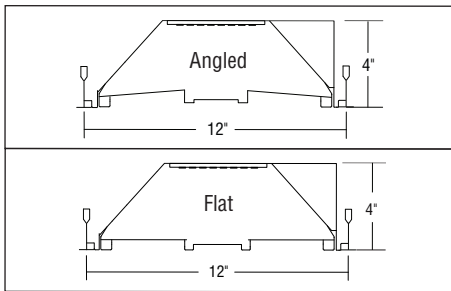
Refer to page 2 for all door styles

**DESCRIPTION**

Indigo-Clean Technology is a Continuous Environmental Disinfection System that emits a narrow spectrum light that kills bacteria, Influenza-A<sup>4</sup>, and SARS-CoV-2 – the virus that causes COVID-19<sup>4</sup> – 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**

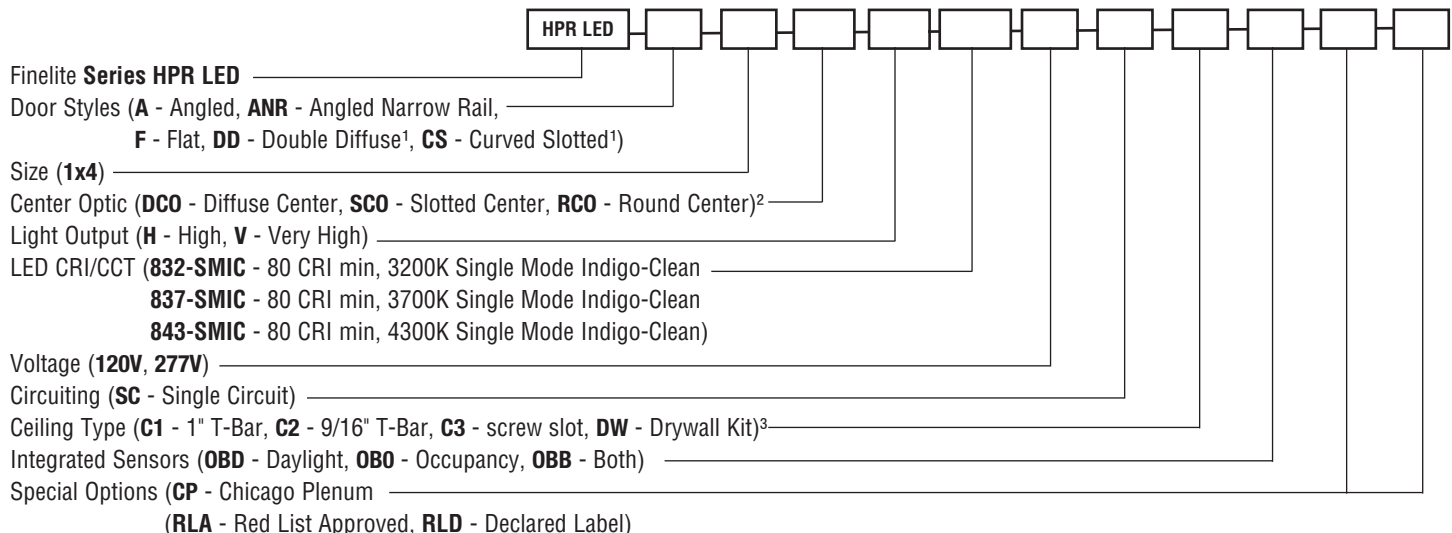
**ANGLED NARROW RAIL OPTION**

Available in angled door style with the same center optic choices. The optional narrow rails are approximately 5/16" wide. The standard rails are approximately 9/16" wide.

**100% SERVICEABLE FROM BELOW**

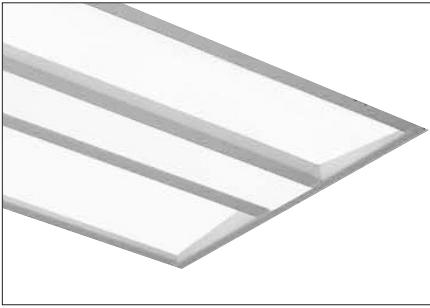
The replaceable light engine and driver are easy to access from below the ceiling.

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

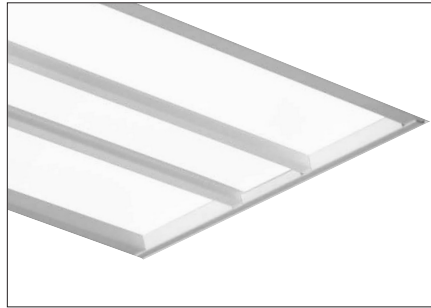


<sup>1</sup> Not available with Center Optic options  
<sup>2</sup> Only available with Angled (A), Angled Narrow Rail (ANR) and Flat (F) door options  
<sup>3</sup> Surface Mount available  
<sup>4</sup> Shed the light on virus" article

**DOOR STYLES**



**A - Angled**  
**ANR - Angled Narrow Rail**



**F - Flat**



**DD - Double Diffuse**



**CS - Curved Slotted**

**CENTER OPTICS**



**DCO - Diffuse Center**



**SCO - Slotted Center**

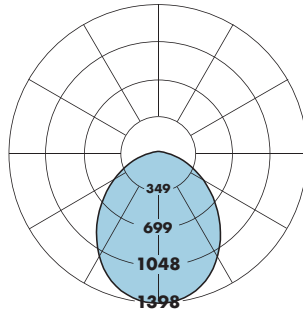


**RCO - Round Center**

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

**PHOTOMETRY**

HPR LED-A/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

Angled (A) and 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

Angled Narrow Rail (ANR) Total Light Output, 3700K, 80 CRI (Lumens)	
H	V
3751	4885
Power (Watts)	
H	V
42.8	58.1
Efficacy, 3700, 80 CRI (Lumens per Watt)	
H	V
88	84

Double Diffuse (DD) Total Light Output, 3700K, 80 CRI (Lumens)	
H	V
3397	4424
Power (Watts)	
H	V
42.8	58.1
Efficacy, 3700, 80 CRI (Lumens per Watt)	
H	V
79	76

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 =  
3878 lm x 0.98 = 3800 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**

## 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. 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. For optimum performance, continuously provide an average 50-60 foot-candles 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-A<sup>1</sup>, and SARS-CoV-2 – the virus that causes COVID-19<sup>1</sup>. 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.

**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 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 life-time: 170,000 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, 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.

**INTEGRATED SENSORS:** Integrated PIR (Passive Infrared) occupancy and/or daylight sensors available. Refer to Occupancy Sensor and Daylight Sensor tech sheets for more info.

**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.

**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:** 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.



**INTEGRATED SENSORS:** Integrated PIR (Passive Infrared) occupancy and/or daylight sensors available. Refer to Occupancy Sensor and Daylight Sensor tech sheets for more info.

<sup>1</sup> Shed the light on virus" article