FINELITE®
Better Lighting

High Performance 6" Aperture (HP-6) Recessed

Recessed Flush Diffuser - Hard Ceiling Shown

Indigo-Clean®
A brand of **legrand**

Indigo-Clean Technology is a Continuous Environmental Disinfection System that emits a narrow spectrum light that kills bacteria, Influenza-A[1], and SARS-CoV-2 – the virus that causes COVID-19[1] – 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.

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

These products are enrolled in the International Living Future Institute (ILFI). Declare 2.0 Program and is third-party verified with options achieving. **Red List Approved** and **Red List Declared** status.
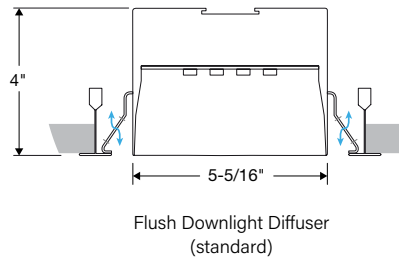
Note: see page 6 for all aesthetic options

CROSS SECTIONS

Recessed Direct

4"

5-5/16"

Flush Downlight Diffuser
(standard)
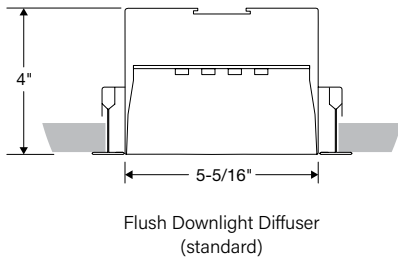
**Recessed Direct
with Air Return**

4"

5-5/16"

Flush Downlight Diffuser
(standard)

GET MORE WITH TAILORED LIGHTING

- Tailored Length
- Tailored Angle
- Tailored Color
- Tailored Output
- Tailored Control

ALSO AVAILABLE IN

Pendant
(**D**)

Wall Mount
(**WM**)

Surface Mount
(**SM**)

Declare.

Third Party Verified

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

[1] *Indigo-Clean Research Reports*

Protected by one or more US Patents: 8915613; D702,391; D702,390; D700,732   Page 1

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

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BODY TYPE

Platform	Series Name	Luminaire Type	Luminaire Distribution	Total Length of Run
HP - High Performance	**6**	**R** - Recessed	**D** - Direct	Minimum 2' section length. Increments accurate to 1/16" (±1/32"), standard. 12' maximum section length.

OUTPUT AND LED TYPE

Downlight Output (Flush)

H - High (670 lm/ft)
V - Very High (862 lm/ft)
TL - Tailored:_____lm/ft*

* Specify lm/ft of outputs between High (H) and Very High (V). Consult factory for tailored lumen output outside of this range.

OUTPUT AND LED TYPE

LED CRI/CCT

832-SMIC - 80 CRI, 3200K Single Mode Indigo-Clean
837-SMIC - 80 CRI, 3700K Single Mode Indigo-Clean
843-SMIC - 80 CRI, 4300K Single Mode Indigo-Clean
832-DMIC - 80 CRI, 3200K Dual Mode Indigo-Clean
837-DMIC - 80 CRI, 3700K Dual Mode Indigo-Clean
843-DMIC - 80 CRI, 4300K Dual Mode Indigo-Clean

MECHANICAL OPTIONS

Downlight	Reflector System
F - Flush (standard)	**96LG** - 96 Low Gloss White

ELECTRICAL OPTIONS

Voltage	Circuiting [1]
120 - 120 Voltage **277** - 277 Voltage **347** - 347 Voltage	**SC** - Single Circuit* One single circuit in a run **MC** - Multi-Circuit* More than one switch leg or zone. Factory shop drawings required * Battery, Night Light, and Emergency to Generator circuits are in addition to the normal luminaire circuit(s)

ELECTRICAL OPTIONS

Driver Selection

0-10V Driver Options
FC-10% - 0-10V 10% (standard)
FC-1% - 0-10V 1%
OTi-10% - EldoLED OTi, 0-10V 10% [2]
OTi-1% - EldoLED OTi, 0-10V 1% [2]
ELD-10V-0% - EldoLED SOLOdrive, 0-10V 0.1%

DALI Driver Options
FC-DALI-1% - DALI 1%
DXL-DALI-1% - EldoLED Dexal, 1%
ELD-DALI-0% - EldoLED SOLOdrive, 0.1%

DMX Driver Options
ELD-DMX - EldoLED POWERdrive, 0.1%

Lutron Driver Options
LUT-ES1 - Lutron, Ecosystem 1%
LUT-2W - Lutron, 2-wire (120V only) 1%

See Page 3 for additional driver options and details

MOUNTING OPTIONS

Ceiling Hardware Type	Endcap Style
C1 - 15/16" T-Bar **C1T** - 15/16" Tegular **C2** - 9/16" T-Bar **C2T** - 9/16" Tegular **C3** - Screw Slot **C3F** - Flush Screw Slot **SF** - Spackle Flange **VF** - Visible Flange **TZ6** - Tech Zone 6" _____ (C2, C2T, C3, C3F)	**FE** - Flat Endcap (standard)

OTHER OPTIONS

Finish

SW - Signal White (standard)
FB - Finelite Black
SA - Satin Aluminum
- RAL Color Code [3]
_____

OTHER OPTIONS

Emergency Style (Optional) See page 5 Backup Battery table	Integrated Sensor (Optional)	Special Options (Optional)	Air Return (Optional)
LGD18W - Legrand 18W Brand Battery Back-up **LGD10W** - Legrand 10W Brand Battery Back-up **EM/GEN** - Emergency to Generator **NL** - Night Light **BSL722** - Bodine Battery Back up **BSL310LP** - Bodine Battery Back up Low Profile **GTD** - Generator Transfer Device **ALCR** - Automatic Load Control Relay	**OBO** - Occupancy **OBD** - Daylight **W601** - Wattstopper Wireless Sensor [4] **OBE** - Enlighted [5] **CLM** - Encelium Sensor **RE7** - nLight Air Sensor **AOCC-W** - Lutron Athena Sensor (Device Color White) [6] **AOCC-B** - Lutron Athena Sensor (Device Color Black) [6] **ARF-W** - Lutron Athena RF (Device Color White) [6] **ARF-B** - Lutron Athena RF (Device Color Black) [6] **VOCC** - Lutron Vive Sensor [7] **VRF** - Lutron Vive RF [7] Integrated Sensor not available for Dual-Mode	**CP** - Chicago Plenum **FLX** - Flex Whip **RLA** - Red List Approved **RLD** - Red List Declared	**AR** - Air Return

[1] Contact factory for switching options
[2] Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO). Not available with Dual-Mode.
[3] 20 business days lead time for color
[4] LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected.
 LMFS-601 w/ Dali driver, only 1 driver can be connected.
[5] Enlighted components installed by Finelite, provided by others
[6] 0-10V Drivers - **AOCC** up to 10 drivers may be connected; **ARF** up to 40 drivers may be connected
 DALI Drivers - **AOCC** & **ARF** up to 4 drivers can be connected.
[7] Lutron Vive Ingrated Sensors require a DALI driver

Submitted by:		Date:
Type:	Project:	
Ordering Info:		

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SUPPLEMENTARY DRIVER PAGE

0-10V Driver Options	
FC-10%	Factory Choice, 0-10V 10% Dimming (Linear)
FC-10%-DTO	Factory Choice, 0-10V 10% Dimming, Dim-to-Off (Linear)
FC-1%	Factory Choice, 0-10V 1% Dimming (Linear)
FC-1%-DTO	Factory Choice, 0-10V 1% Dimming, Dim-to-Off (Linear)
ELD-10V-0%	EldoLED SOLOdrive, 0-10V 0.1% Dimming (Linear)
ELD-10V-1%	EldoLED ECOdrive, 0-10V 1% Dimming (Linear)
OTi-10%	EldoLED OTi, 0-10V 10% Dimming (Linear)
OTi-10%-DTO	EldoLED OTi, 0-10V 10% Dimming, Dim-to-Off (Linear)
OTi-1%	EldoLED OTi, 0-10V 1% Dimming (Linear)
OTi-1%-DTO	EldoLED OTi, 0-10V 1% Dimming, Dim-to-Off (Linear)

DALI Driver Options	
FC-DALI-1%	Factory Choice, DALI 1% Dimming (Logarithmic)
DXL-DALI-1%	EldoLED Dexal, DALI 1% Dimming (Logarithmic)
ELD-DALI-0%	EldoLED SOLOdrive, DALI 0.1% Dimming (Logarithmic)
ELD-DALI-1%	EldoLED ECOdrive, DALI 1% Dimming (Logarithmic)

DMX Driver Options	
ELD-DMX	EldoLED POWERdrive, DMX 0.1% Dimming (8 Bit, 1CH) (Linear)
ELD-DMX-16	EldoLED POWERdrive, DMX 0.1% Dimming (16 Bit, 2CH) (Linear)

Lutron Driver Options	
LUT-ES1	Lutron, Ecosystem 1% Dimming
LUT-2W	Lutron, 2-wire (120V only) 1% Dimming

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SPECIFICATIONS

BODY TYPE

CONSTRUCTION: Precision-cut 6061-T6 extruded aluminum body. Internal joiner system, plug-together wiring, standard.

LENGTHS: Any length, 2' minimum, in increments down to 1/16" (±1/32"). 12' maximum section length.

MITERED CORNERS: Fully illuminated 90° corners have double-diffusers to ensure against light leaks. Custom angles are available (90° minimum on inside corners.) Consult factory for tailored lighting options.

OUTPUT AND LED TYPE

LIGHT OUTPUT: Lumen packages available for **HP-6 D**: High (**H**), and Very High (**V**). For Tailored Outputs outside of range from High (**H**) to Very High (**V**), consult factory. Light engines are replaceable.

INDIGO-CLEAN TECHNOLOGY: Indigo-Clean Technology utilizes a combination of blended white LEDs, and safe 405nm LEDs to continually disinfect a space and kill bacteria, Influenza-A[1], and SARS-CoV-2 – the virus that causes COVID-19[1]. 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.

MECHANICAL/OPTICAL OPTIONS

DOWNLIGHT OPTION: 12' maximum diffuser length. Flush frost white snap-in diffuser standard, 73% transmissive, 99% diffusion. Internal secondary diffusers at corners ensure visually seamless, uniform, continuous illumination. Available with Flush (**F**) downlight diffuser. Consult factory for more tailored lumen outputs.

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.

REFLECTORS: Die-formed 20-gauge cold-rolled steel reflectors finished in 96LG High Reflectance white powder coat paint.

ELECTRICAL OPTIONS

STATIC WHITE FEED: Standard with one 18-gauge/5-conductor single-circuit feed wire. 14-gauge feed wire used when luminaire current exceeds 5 amps.

STATIC WHITE DRIVER: Replaceable 120V, 277V, and 347V constant current reduction dimming driver standard. Can be wired dimming or non-dimming. 0-10V dimming controls with a range of 10%- 100% standard. Dimming to 1% available. 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 (LDE1)** - (Hi-lume 1% EcoSystem with Soft-On, Fade-to-Black dimming (LDE1 series))

MOUNTING OPTIONS

HANGING HARDWARE:
- **Recessed T-Bar:** Standard bracket design works with most lay-in ceiling types. Brackets secure luminaire to the ceiling grid from above. Tie-in T-Bar brackets connect the luminaire to the T-Bar for securing to structure. Consult local codes for tie-wire recommendations.
- **Recessed Spackle Flange:** Drywall surfaces (walls or ceilings): 1/4" - 20 stud and nut (provided by others). Mounted with three equidistant suspension points.

OTHER OPTIONS

ENDCAPS: Flat endcaps (**FE**) at each end of run add 1/16" to each end of luminaire.

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SPECIFICATIONS

EMERGENCY STYLE: Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery.

Backup Battery

HP6-R-D	Legrand 18W	Legrand 10W / Bodine BSL310LP
Min. Housing Length	6'	4'
EM Lumen Output	1724	1026
EM Section Illum.	2'	2' or 4'

Based on 3700K and 80-CRI.

Bodine GTD and Legrand ALCR Min. Length

Configuration	Min Length
Generator	2'
Generator + OCC	2'
Daylight	2'
Generator + Daylight	2'

INTEGRATED SENSORS: Integrated PIR (Passive Infrared) Occupancy (**OBO**) or Daylight Sensors (**OBD**) available with Flush and Bottom Glow downlight diffusers. PIR sensors not recommended for stairwell applications. Refer to Occupancy Sensor & Daylight Sensor tech sheet and the Embedded Intelligence landing page for more information and additional sensor options.

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.

FINISHES: Finelite Signal White (**SW**) powder coat, Finelite Black (RAL 9005) with semi gloss fine texture (**FB**) and Satin Aluminum (**SA**) are standard. Optional Adders: 179 RAL colors[2].

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-2. These fixtures are rated for Damp Location. Chicago Plenum options available for C1, C2, or C3 suspension using our GridBox. 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. 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** (Red List Declared) to your part number.

WEIGHT[3]**:** R - 3.7 lb/ft

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

AIR HANDLING INFORMATION

Return Air Volume (SCFM) Versus Negative Static Pressure (In H$_2$O)

X-axis: Return Air Volume (SCFM); Y-axis: Negative Static Pressure (Inches H$_2$O)
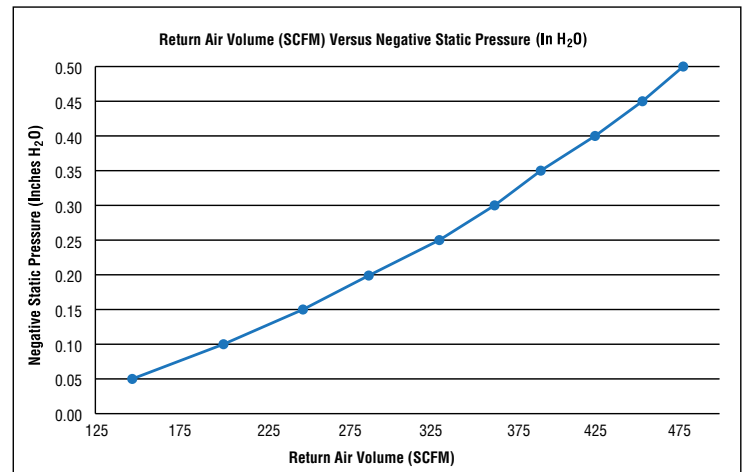
AIR RETURN: Luminaire tested in accordance with ADC1062 and ASHRAE 70. Air Return slots positioned along outside edge of luminaire. Consult factory for tailored lighting options.

[2] 20 business days lead time for color
[3] Excludes Battery Backup and Generator Transfer Device weight

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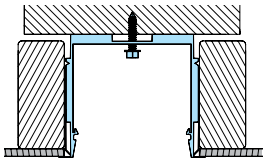
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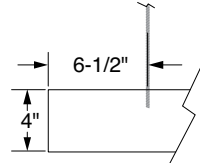## HARD CEILING MOUNTING OPTIONS
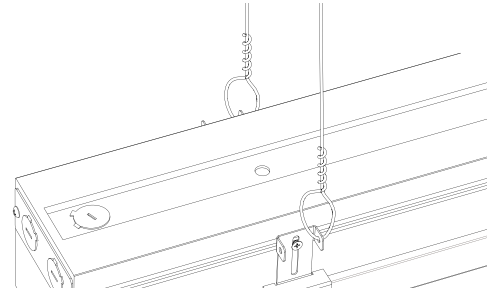
Threaded Rod Option
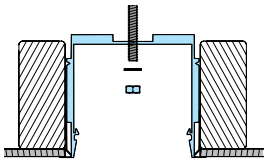
Screw Mount Option

Mounting Location for Securing to Structure

6-1/2"

4"

Two mounting options: threaded rod and screw mounting options. Mounting locations are located on each end of the luminaire. Mounting location is 6" away from each end of luminaire.
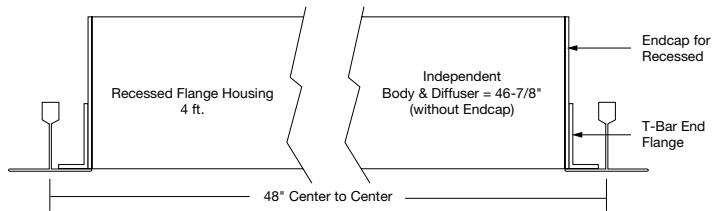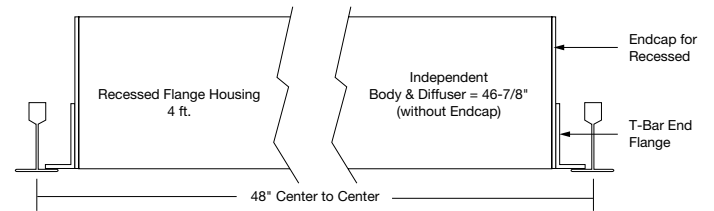
T-BAR INSTALLATION

HP-6 R and HP-6 EO R for T-Bar installations comes standard with a splice plate at the end of the luminaire. Mounting brackets (supplied) secure the luminaire to T-Bar and provide support to structure location. All even foot length (2, 4, 6, ...) luminaire runs are reduced in length by an appropriate amount to fit within typical 2x2 and 2x4 T-Bar grid systems. For uncommon T-Bar systems please consult factory.

GRID LENGTH DETAIL - 4' EXAMPLE

15/16" T-Bar

Recessed Flange Housing 4 ft.

Independent Body & Diffuser = 46-7/8" (without Endcap)

Endcap for Recessed

T-Bar End Flange

48" Center to Center

9/16" T-Bar

Recessed Flange Housing 4 ft.

Independent Body & Diffuser = 46-7/8" (without Endcap)

Endcap for Recessed

T-Bar End Flange

48" Center to Center

9/16" Screw Slot

Recessed Flange Housing 4 ft.

Independent Body & Diffuser = 46-7/8" (without Endcap)

Endcap for Recessed

T-Bar End Flange

48" Center to Center

HARD CEILING LENGTH DETAIL - 4' EXAMPLE

Spackle Flange
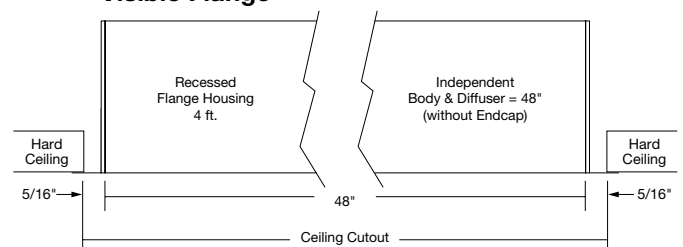
Recessed Flange Housing 4 ft.

Independent Body & Diffuser = 48" (without Endcap)

Hard Ceiling

Hard Ceiling

7/16"

7/16"

48"

Ceiling Cutout

Visible Flange

Recessed Flange Housing 4 ft.

Independent Body & Diffuser = 48" (without Endcap)

Hard Ceiling

Hard Ceiling

5/16"

5/16"

48"

Ceiling Cutout

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RECESSED MOUNTING TYPES - T-BAR
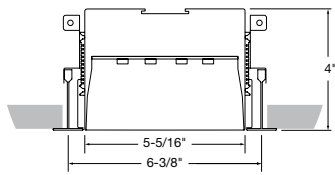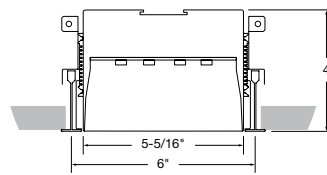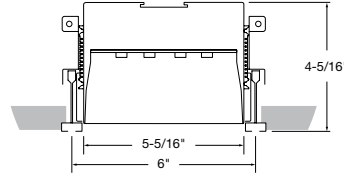
Rough-In Dimensions

15/16" T-Bar (C1)
5-5/16"
6-3/8"
4"
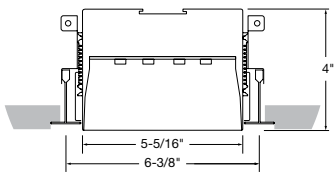
9/16" T-Bar (C2)
5-5/16"
6"
4'

Standard Screw Slot (C3)
5-5/16"
6"
4-5/16"

Flush Screw Slot (C3F)
5-5/16"
6"
4"
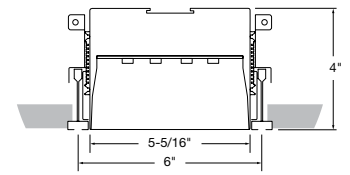
15/16" Tegular (C1T)
5-5/16"
6-3/8"
4"
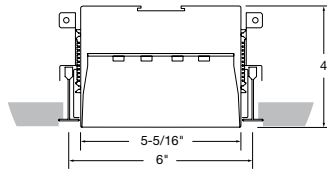
9/16" Tegular (C2T)
5-5/16"
6"
4"
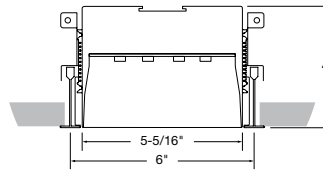
**Tech Zone 6" (TZ6)
9/16" T-Bar (C2)**
5-5/16"
6"
4"
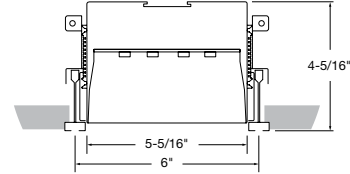
**Tech Zone 6" (TZ6)
Standard Srew Slot (C3)**
5-5/16"
6"
4-5/16"
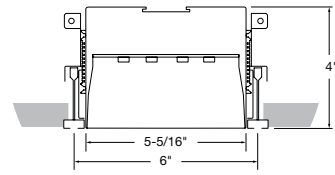
**Tech Zone 6" (TZ6)
Flush Screw Slot (C3F)**
5-5/16"
6"
4"

**Tech Zone 6" (TZ6)
9/16" Tegular (C2T)**
5-5/16"
6"
4"

RECESSED MOUNTING TYPES - CUTOUT DIMENSIONS

Spackle Flange (SF)
5-5/16"
6-1/8"
4"
1/16" For mudding and taping
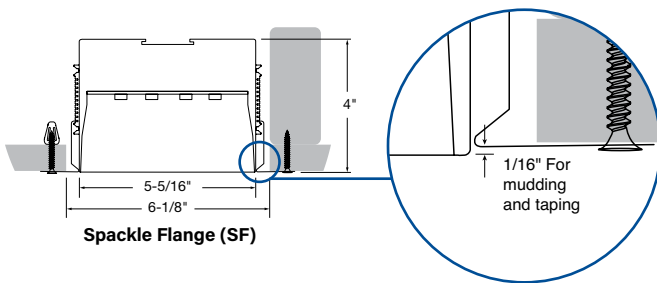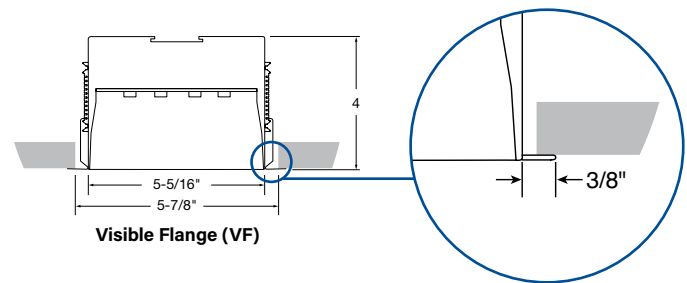
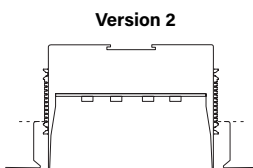**Visible Flange (VF)**
5-5/16"
5-7/8"
4
3/8"
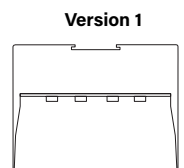
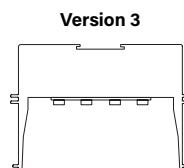## HOUSING

Version 1
Ceiling Option VF
No modification on flange

Version 2
Ceiling Options
C1T, C2T, C3F, SF, TZ6
Flange can be modify individually on each side of the housing

Version 3
Ceiling Options
C1, C2, C3
No modification on flange
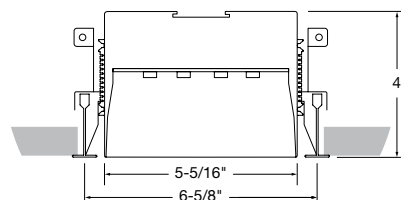
Note: +/- 1/16"

High Performance 6" Aperture (HP-6) Recessed

AIR RETURN MOUNTING TYPES - T-BAR
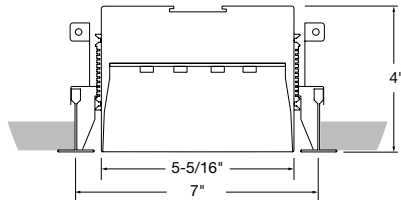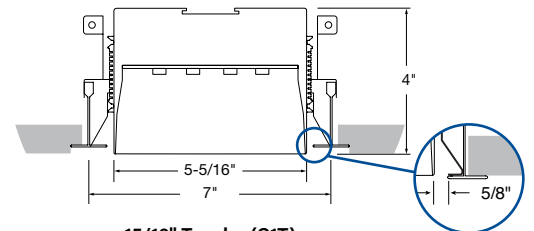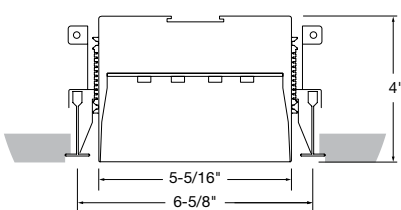
Rough-In Dimensions

15/16" T-Bar (C1)

4"
5-5/16"
7"

9/16" T-Bar (C2)

4"
5-5/16"
6-5/8"

15/16" Tegular (C1T)

4"
5-5/16"
7"
5/8"

9/16" Tegular (C2T)

4"
5-5/16"
6-5/8"

Standard Screw Slot (C3)

4-5/16"
5-5/16"
6-5/8"

Flush Screw Slot (C3F)

4"
5-5/16"
6-5/8"

AIR RETURN

Note: +/- 1/16"

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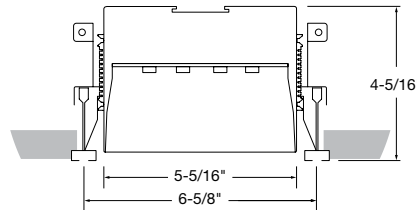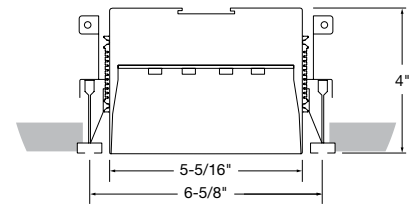
High Performance 6" Aperture (HP-6) Recessed

Direct Photometry - 4' Luminaire 3700K

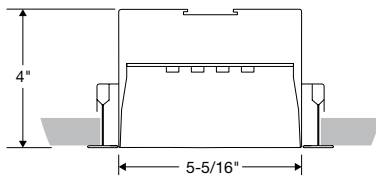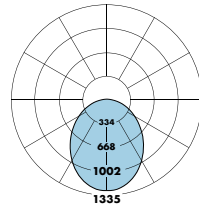**HP6-R-D-4'-V-837-F**

Downlight: Flush Diffuser

Efficacy: 98 lm/W
Total luminaire output: 3446 lumens (862 lm/ft)
35 watts (8.8 W/ft)

Peak Candela Value: 1242 @ 0°
CRI: 80 / CCT: 3700K
TL LM79 Report 85124 (Family Correlated)

4"

5-5/16"

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1242	1242	1242	1242	1242	
5	1235	1235	1234	1234	1234	126
15	1179	1170	1175	1174	1168	355
25	1069	1056	1060	1054	1048	523
35	917	906	906	897	891	607
45	743	734	733	723	719	606
55	560	553	551	543	539	529
65	375	374	373	368	367	395
75	204	204	205	203	204	233
85	58	59	60	61	60	71
90	0	0	0	0	0	

Information in chart below is for reference and based on ITL LM79 report 94139 (Family Correlated)

Total Light Output, 3700K, 80 CRI (Lumens) - 4' Luminaire	
H [1]	V
2680	3446

Light Output, 3700K, 80 CRI (Lumens Per Foot)	
H [1]	V
670	862

Single Mode Power, 3700K (Watts Per Foot)	
H [1]	V
6.8	8.8

Dual Mode Power, 3700K (Watts Per Foot)					
H [1]			V		
Occupied	LPD	Unoccupied	Occupied	LPD	Unoccupied
6.9	5.4	4.1	9.0	7.0	5.2

Efficacy, 3700K, 80 CRI (Lumens Per Watt)	
H [1]	V
99	98

1 Family Correlation based on 4' luminaire 3700K Very High Output (V) test - 120V.
H - High Output, V - Very High Output

Wattage is Real Power. If you would like additional details to calculate Apparent Power, please contact your local Finelite representative.

- Use **Occupied Power** for total electrical load calculations. Use this value to estimate branch circuit lighting loads.

- Use **LPD Power** for lighting power density calculations. Only the power attributed to white light is required per NEMA LSD EB 84-202X. Power used toward germicidal disinfection has been removed for this calculation.

- Use **Unoccupied** and **Occupied Power** for energy calculations to determine the power consumed over time based on the use of the space.

Sample Lumen Adjustment Calculation

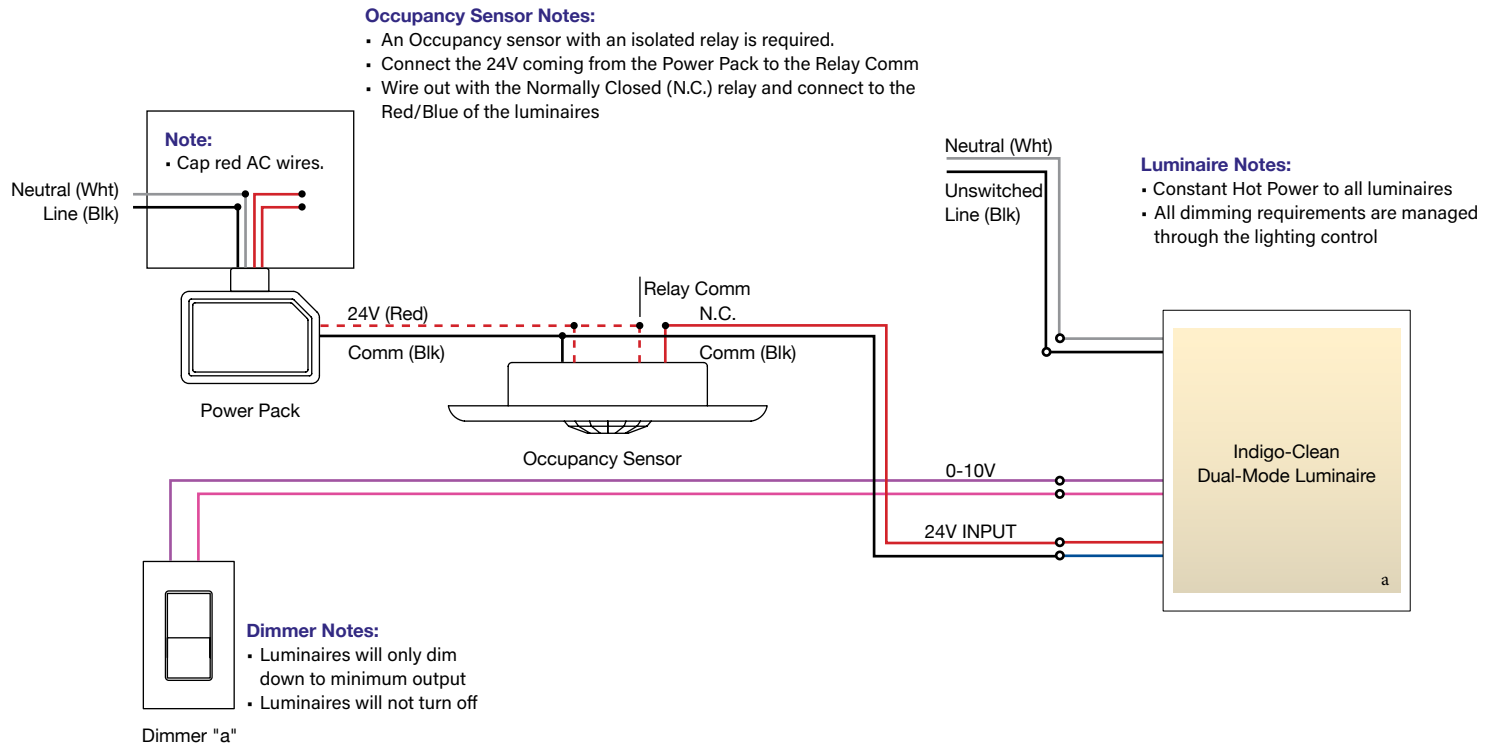| Lumen Adjustment Factors 80 CRI	
Indigo-Clean	
3200K	0.98
3700K	1.00
4300K	1.03

FLUSH: Very High Output (**V**), 3200K, 80 CRI
Lumen Adjustment Factor: 0.98
Total Light Output: 3446 lm x 0.98 = 3377 lm
Total Light Output per Foot: 862 lm/ft x 0.98 = 845 lm/ft.
watts/foot: 8.8 W/ft.

$$\text{Efficacy} = \frac{845 \ \frac{lm}{ft.}}{8.8 \ \frac{W}{ft.}} = 96 \ lm/W$$

Protected by one or more US Patents: 8915613; D702,391; D702,390; D700,732

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Indigo Clean Dual Mode - Basic Wiring Diagram

WIRING DIAGRAM

Occupancy Sensor Notes:
- An Occupancy sensor with an isolated relay is required.
- Connect the 24V coming from the Power Pack to the Relay Comm
- Wire out with the Normally Closed (N.C.) relay and connect to the Red/Blue of the luminaires

Note:
- Cap red AC wires.

Neutral (Wht)
Line (Blk)

24V (Red)
Comm (Blk)

Relay Comm
N.C.
Comm (Blk)

Power Pack

Occupancy Sensor

Neutral (Wht)
Unswitched
Line (Blk)

Luminaire Notes:
- Constant Hot Power to all luminaires
- All dimming requirements are managed through the lighting control

0-10V

24V INPUT

Indigo-Clean
Dual-Mode Luminaire

a

Dimmer Notes:
- Luminaires will only dim down to minimum output
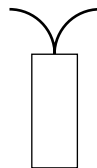- Luminaires will not turn off
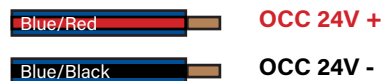
Dimmer "a"

DUAL FEED DETAIL

CONTROL FEED
Blue / Red
Blue / Black

24V Dual Mode Control Pair
Each Indigo-Clean Dual Mode fixture will have a pair of #18awg low voltage wires

| Blue/Red | **OCC 24V +** |
| Blue/Black | **OCC 24V -** |

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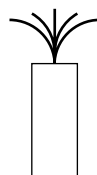
WIRING LEGEND	
Black	Hot
White	Neutral
Green	Ground
Purple	0-10V +
Pink	0-10V -

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