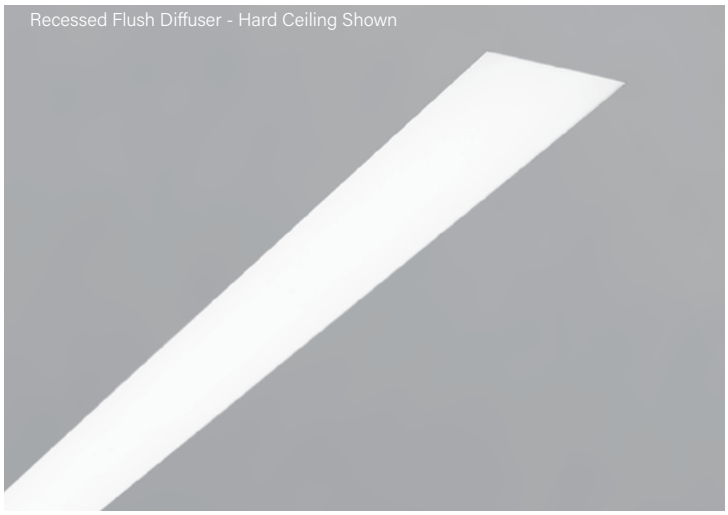
Submitted by:		Date:
Type:	Project:	
Ordering Info:		

FINELITE® Better Lighting

High Performance 4" Aperture (HP-4) Recessed



Note: see page 6 for all aesthetic options

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.

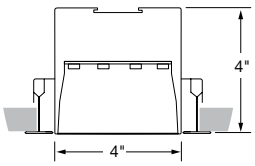
Single-Mode Indigo-Clean Technology utilizes a combination of blended white LEDs and 405nm LEDs on a single circuit board design. When the luminaires are on, the disinfection is active.

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 a 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.

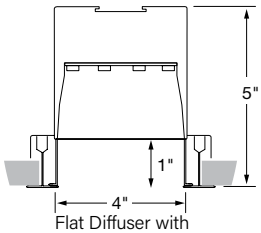
CROSS SECTIONS

Recessed



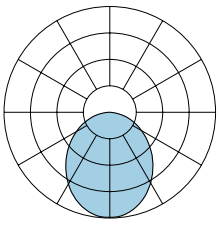
Flush Downlight Diffuser (standard)

Regressed

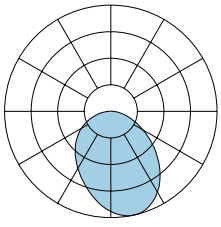


Flat Diffuser with 1" Regressed

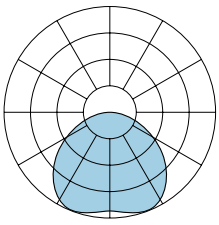
OPTIC OPTIONS



Standard Downlight Optic (**F**)



Downlight Asymmetric Optic (**DAO**)



Downlight Spread Optic (**DSO**)

ALSO AVAILABLE IN

Pendant (**D, ID, I**)

Wall Mount (**WM**)

Surface Mount (**SM**)

BAA BUY AMERICAN ACT COMPLIANCE · Declare. · Third Party Verified

Indigo-Clean A brand of legrand | Indigo-Clean is a registered trademark of Kenall Manufacturing Co., a Legrand Company

[1] *Indigo-Clean Research Reports*

A brand of legrand

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FINELITE® Better Lighting

High Performance 4" Aperture (HP-4) Recessed

Ordering Guide Example: HP - 4 - R - D - 36' - H - 837 - F - 96LG - 120 - SC - FC-10% - C1 - FE - SW - LGD18W - OBO - CP

Clear Form

BODY TYPE

Platform	Series Name	Luminaire Type	Luminaire Distribution	Total Length of Run
◉ **HP** - High Performance	◉ **4**	◯ **R** - Recessed ◯ **R RG** - Recessed Regressed [1]	◯ **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.

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/OPTICAL OPTIONS

Downlight

◯ **F** - Flush (standard)
◯ **DL** - 1" Drop Down Lens
◯ **RG-D** - Flat Diffuser with 1" Regress
◯ **RG-WCB** - White Cross Blade Baffle
◯ **RG-LHE** - Hollowed Ellipse Louver
◯ **RG-LHC** - Hex Louver
◯ **DAO-L** - Downlight Asymmetric Optic Left [1]
◯ **DAO-R** - Downlight Asymmetric Optic Right [1]
◯ **DSO** - Downlight Spread Optic [1]

Reflector System

◯ **96LG** - 96 Low Gloss White

ELECTRICAL OPTIONS

Voltage

◯ **120** - 120 Voltage
◯ **277** - 277 Voltage
◯ **347** - 347 Voltage (OTi only)

Circuiting [2]

◯ **SC** - Single Circuit*

* Battery, Night Light, and Emergency to Generator circuits are in addition to the normal luminaire circuit(s)

Driver Selection

0-10V Driver Options
◯ **FC-10%** - 0-10V 10% (standard)
◯ **FC-1%** - 0-10V 1%
◯ **OTi-10%** - EldoLED OTi, 0-10V 10% [3]
◯ **OTi-1%** - EldoLED OTi, 0-10V 1% [3]
◯ **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%

See Page 3 for additional driver options and details.

MOUNTING OPTIONS

Ceiling Hardware Type

◯ **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" _____ (C1, C2, C2T, C3, C3F)

See page 8 and 9 for flange information

OTHER OPTIONS

Endcap Style

◉ **FE** - Flat Endcap (standard)
◯ **DE** - 1" Drop Endcap

Finish

◯ **SW** - Signal White (standard)
◯ **FB** - Finelite Black
◯ **SA** - Satin Aluminum
◯ **####** - RAL Color Code [4]
_____

Emergency Style (Optional)

See page 5 Backup Battery table

Clear Selection

◯ **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
◯ **BSL10T3** - Bodine Battery Back up Low Profile Compact
◯ **GTD** - Generator Transfer Device
◯ **ALCR** - Automatic Load Control Relay

See Backup Battery table on page 5 for fitment limitations

Integrated Sensor (Optional) [5]

Clear Selection

◯ **OBO** - Occupancy
◯ **OBD** - Daylight
◯ **W601** - Wattstopper Sensor [6]
◯ **OBE** - Enlighted Sensor [7]
◯ **REE** - Remote Enlighted [8]
◯ **CLM** - Encelium RF
◯ **SLM** - Encelium Sensor
◯ **AOCC-W** - Lutron Athena Sensor [9] (Device Color White)
◯ **AOCC-B** - Lutron Athena Sensor [9] (Device Color Black)
◯ **ARF-W** - Lutron Athena RF [9] (Device Color White)
◯ **ARF-B** - Lutron Athena RF [9] (Device Color Black)
◯ **VOCC** - Lutron Vive Sensor [10]
◯ **VRF** - Lutron Vive RF [10]

Special Options (Optional)

Clear Selection

◯ **CP** - Chicago Plenum [11]
◯ **FLX** - Flex Whip
◯ **RLA** - Red List Approved
◯ **RLD** - Red List Declared

[1] Not available with Regressed
[2] Contact factory for switching options
[3] Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO). Not available with Dual-Mode.
[4] 20 business days lead time for color
[5] Integrated Sensor not available for Dual-Mode
[6] 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.
[7] Enlighted components installed by Finelite, provided by others
[8] Enlighted for Wall Wash fixtures. Enlighted Control Unit & Sensor Cable installed for Remote mounting sensor.
[9] 0-10V Drivers - **AOCC** up to 10 drivers may be connected; **ARF** up to 40 driver may be connected. DALI Drivers - **AOCC** & **ARF** up to 4 drivers can be connected
[10] Lutron Vive Ingrated Sensors require a DALI driver
[11] Only available with C1, C2, and C3 mounting hardware with Finelite Gridbox

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Type:	Project:	
Ordering Info:		

FINELITE® Better Lighting

High Performance 4" Aperture (HP-4) Recessed

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)
ODXL-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

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

FINELITE® Better Lighting

High Performance 4" Aperture (HP-4) Recessed

SPECIFICATIONS

BODY TYPE

CONSTRUCTION: Precision-cut 6063-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. Hollowed Ellipse Louver (**LHE**), Hex Louver (**LHC**), and White Cross Blade Baffle (**WCB**) are available in 1' increments.

MITERED CORNERS: Illuminated corners of greater than 60° and less than 180° in a single plane, available with Flush Diffuser, Bottom Glow Diffuser, 1" Drop Down Lens, Regressed Diffuser, White Cross Blade Baffle[1]. Hollowed Ellipse Louver (**LHE**) or Hex Louver (**LHC**). Consult factory for tailored lighting options.

OUTPUT AND LED TYPE

LIGHT OUTPUT: Two lumen packages available, High (**H**), and Very High (**V**). For lengths 3' and greater, the uplight and downlight can be specified with different lumen packages and dual controls. For Tailored Outputs outside of range from Standard (**S**) 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[2], and SARS-CoV-2 – the virus that causes COVID-19[2]. 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 of 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**), 1" Drop Down Lens (**DL**), White Cross Blade Baffle (**WCB**)[3,4], Ellipse Louver (**LHE**)[3], Hex Louver (**LHC**)[3], Downlight Asymmetric Optic (**DAO**)[5], Downlight Spread Optic (**DSO**)[5], and Regressed downlight diffusers (**RG**)[3]. 1" Drop Down Lens made of acrylic. Available with a solid endcap or an endcap with a diffuse filler to continue the luminous aesthetic. Downlight Spread Optic is an extruded lens with a subtle ribbed appearance providing a batwing distribution for improved optical performance. 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 controlling uplight and downlight together (power and dimming). Specify dual feed wires for independent control of uplight and downlight. 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. Separate dimming for uplight and downlight 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 - 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.

[1] White Cross Blade (WCB) baffles not available with custom angles. Available in 90 degrees only
[2] *Indigo-Clean Research Reports*
[3] Recessed-Regressed only
[4] White Cross Blade Baffle (WCB) currently not advisable for drywall
[5] Not available with Regressed

Continued

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FINELITE® Better Lighting

High Performance 4" Aperture (HP-4) Recessed

SPECIFICATIONS

OTHER OPTIONS

ENDCAPS: Flat endcaps (**FE**) at each end of run add 1/16" to each end of luminaire. Drop Down Lens Illuminated Endcap (**DE**) includes diffuse element to continue luminance of drop lens.

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

Backup Battery

	Legrand 18W	Legrand 10W / Bodine BSL310LP
HP4-R-D		
Min. Housing Length	8'	4'
EM Lumen Output	1724	1028
EM Section Illum.	2'	2' or 4'

Based on 3700K and 80 CRI.
* Minimum fixture housing length for battery pack approved without sensor.
The lumens are based on 835. For other CCT/CRI, refer to the Lumen Adjustment Factor table on page 11.

Bodine GTD and Legrand ALCR Min. Length

Configuration	Min Length
Generator	2'
Generator + OCC	2'
Day	2'
Generator + Day	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. The default location for the Connected Lighting Module (**CLM**) will be on the topside of the fixture for all mounting types except for Surface Mount (**SM**). In SM fixtures the CLM will be located on the direct side of fixture housed in a bracket that is flush with the direct lens.

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 Adder: 179 RAL colors[6] are available.

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[7]: R - 2.8 lb/ft; WW-R - 2.9 lb/ft

DLC QUALIFIED: Contact factory

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

[6] 20 business days lead time for color
[7] Excludes Battery Backup and Generator Transfer Device weight

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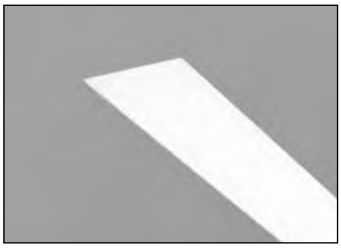
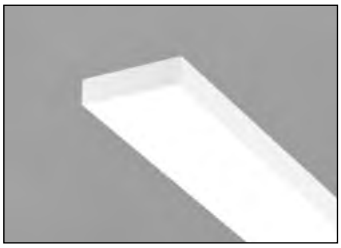
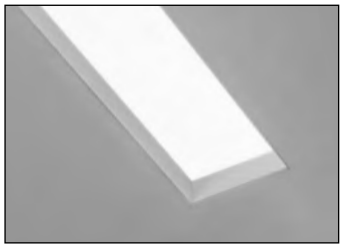
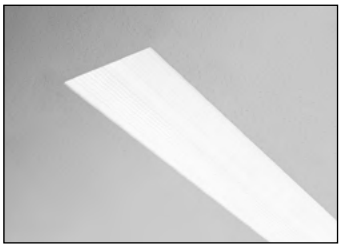
High Performance 4" Aperture (HP-4) Recessed

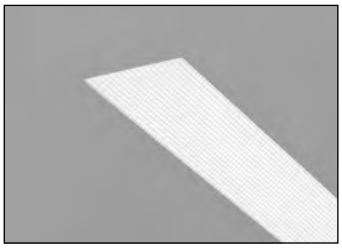
AESTHETIC OPTIONS

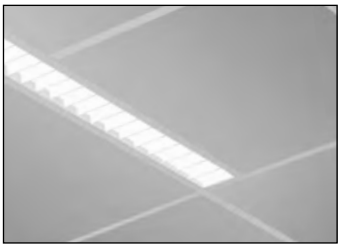

Flush Diffuser (**F**)

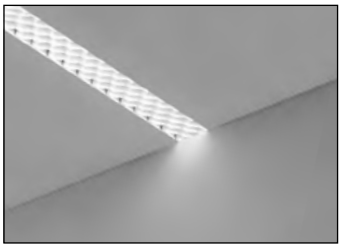

1" Drop Down Lens (**DL**)

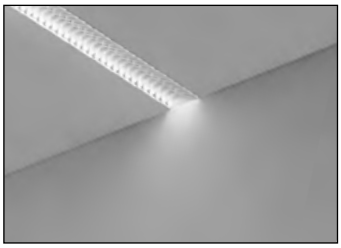

Flat Diffuser with 1" Regressed (**RG-D**)


Downlight Asymmetric Optic (**DAO**)[1]
Externally flush


Downlight Spread Optic (**DSO**)[1]
Externally flush


White Cross Blade Baffle[2] (**RG-WCB**)


Hex Louver[2] (**RG-LHC**)


Hollowed Ellipse Louver[1] (**RG-LHE**)

[1] With a subtle ribbed appearance providing an asymmetric or batwing distribution
[2] Regressed only

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

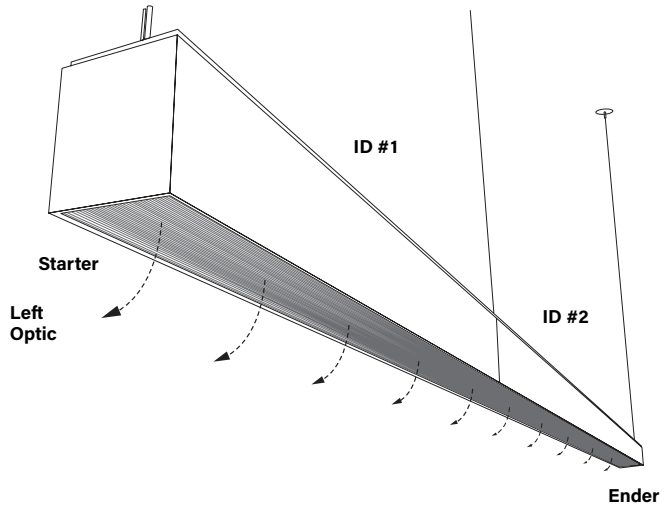
FINELITE® Better Lighting

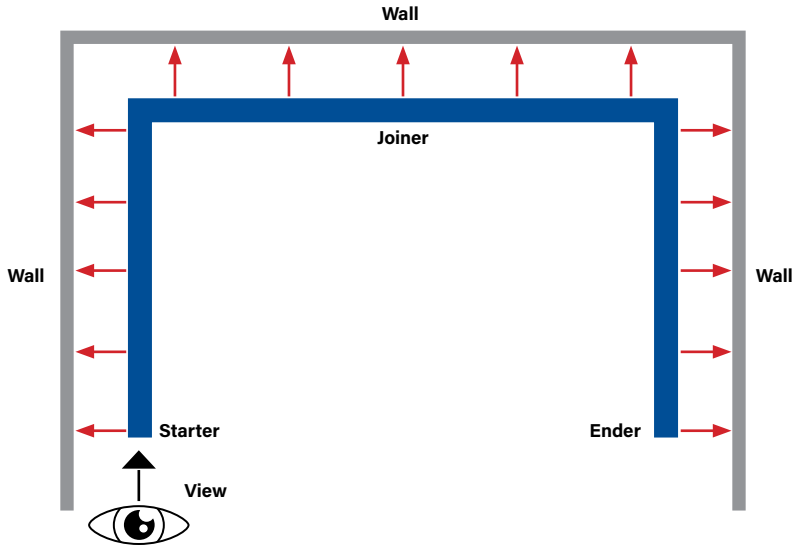
High Performance 4" Aperture (HP-4) Recessed

DOWNLIGHT ASYMMETRIC OPTIONS

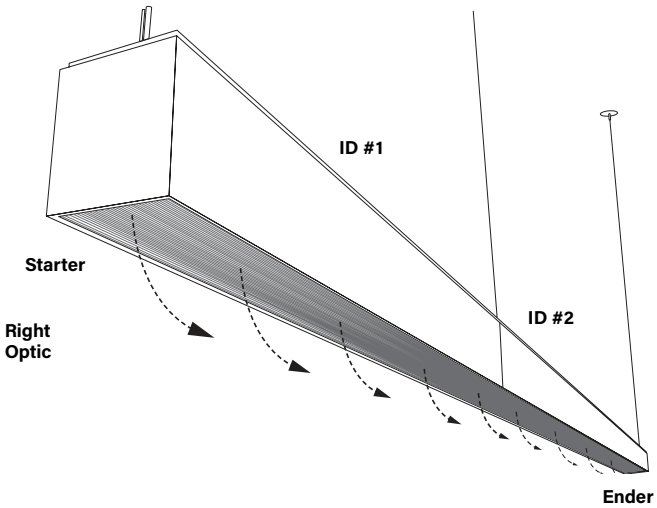
The diagrams below show a linear run from power feed to ender. Specifing DAO-L distributes light to the left or DAO-R distributes light to the right. For proper orientation: view luminaire from starter end when specifying the direction of the Downlight Asymmetric optic.

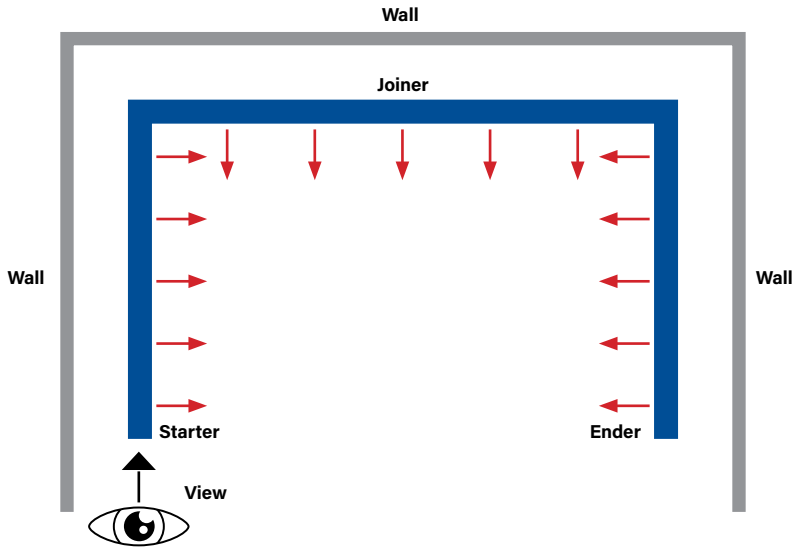
Downlight Asymmetric Optic Left (DAO-L)





Downlight Asymmetric Optic Right (DAO-R)





PREINSTALLED LABEL

For DAO, Preinstalled label on diffuser shows direction of light. Remove after installation.

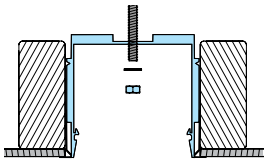
Submitted by:	Date:
Type:	Project:
Ordering Info:	

FINELITE® Better Lighting

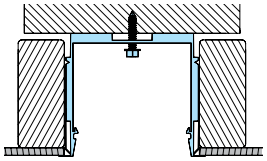
High Performance 4" Aperture (HP-4) Recessed

HARD CEILING MOUNTING OPTIONS

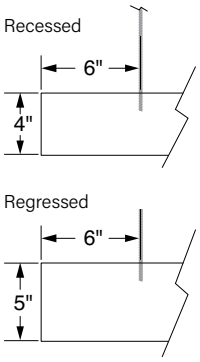
Threaded Rod Option



Screw Mount Option

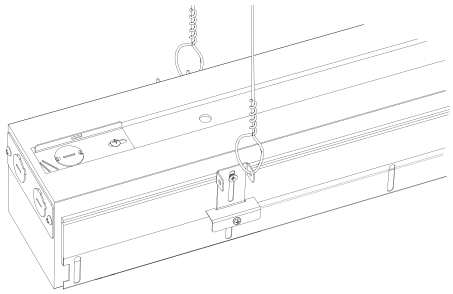


Mounting Location for Securing to Structure



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.

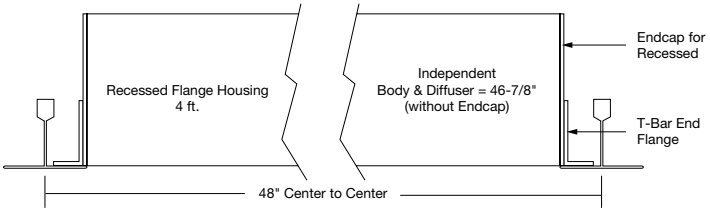
T-BAR INSTALLATION



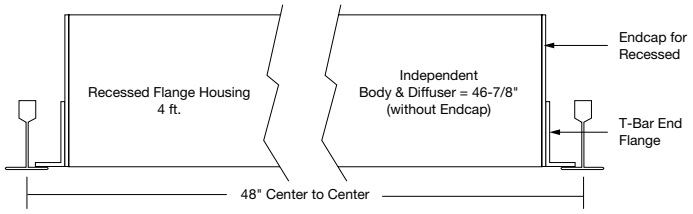
HP-4 R for T-Bar installations comes standard with a splice plate at the end of the luminaire. Mounting brackets (supplied) secure the luminaire to T-Bar and provide support to structure location. All even foot length (2, 4, 6, ...) luminaire runs are reduced in length by an appropriate amount to fit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

GRID LENGTH DETAIL - 4' EXAMPLE

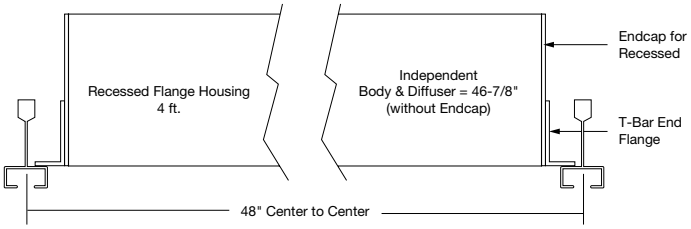
1" T-Bar



9/16" T-Bar

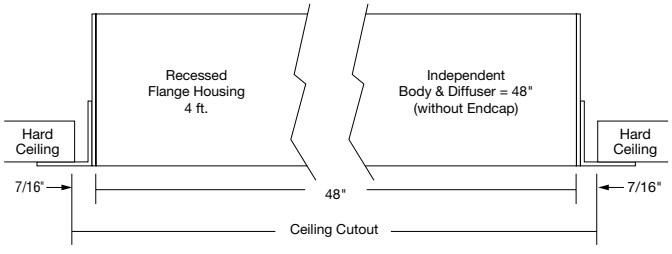


9/16" Screw Slot

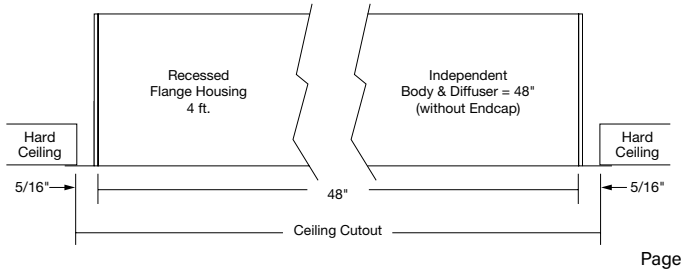


HARD CEILING LENGTH DETAIL - 4' EXAMPLE

Spackle Flange



Visible Flange



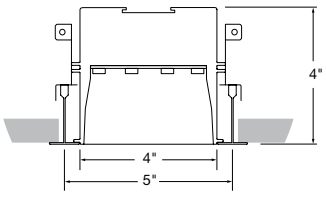
Submitted by:	Date:
Type:	Project:
Ordering Info:	

FINELITE® Better Lighting

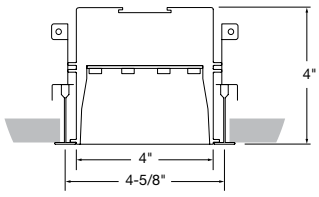
High Performance 4" Aperture (HP-4) Recessed

RECESSED MOUNTING TYPES - T-BAR

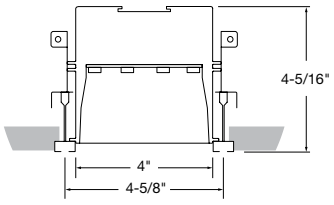
Rough-In Dimensions



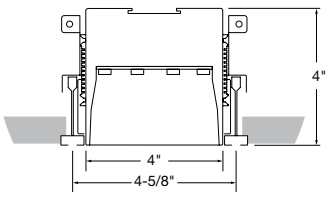
15/16" T-Bar (C1)



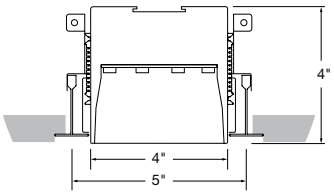
9/16" T-Bar (C2)



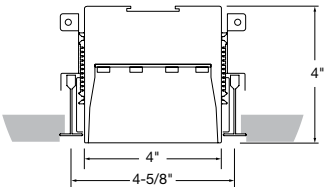
Standard Screw Slot (C3)



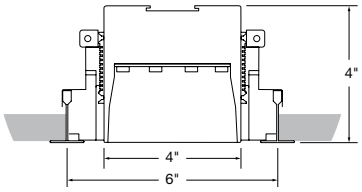
Flush Screw Slot (C3F)



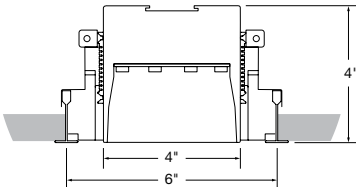
15/16" Tegular (C1T)



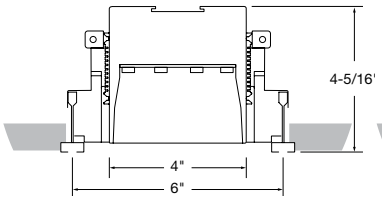
9/16" Tegular (C2T)



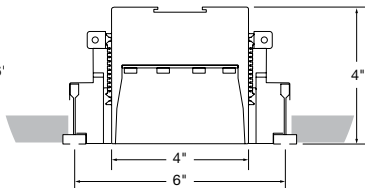
Tech Zone 6" (TZ6)
15/16" T-Bar (C1)



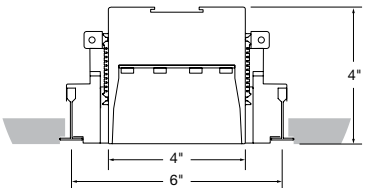
Tech Zone 6" (TZ6)
9/16" T-Bar (C2)



Tech Zone 6" (TZ6)
Standard Screw Slot (C3)

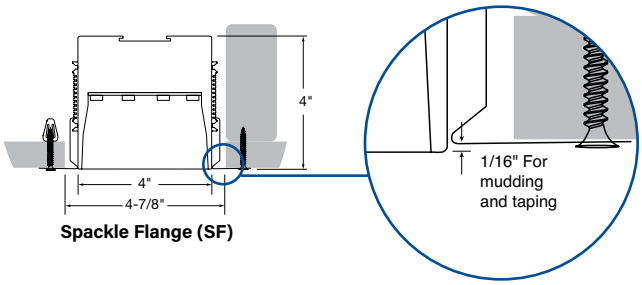


Tech Zone 6" (TZ6)
Flush Screw Slot (C3F)

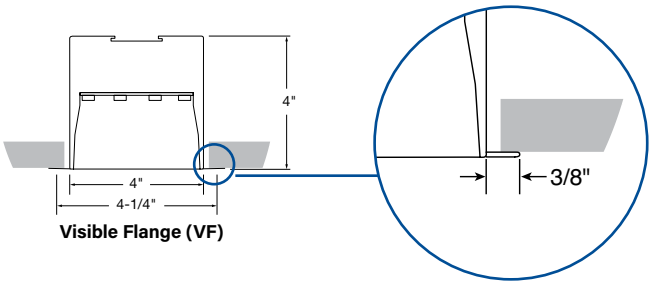


Tech Zone 6" (TZ6)
9/16" Tegular (C2T)

RECESSED MOUNTING TYPES - CUTOUT DIMENSIONS



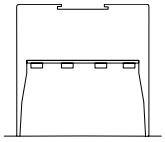
Spackle Flange (SF)



Visible Flange (VF)

HOUSING

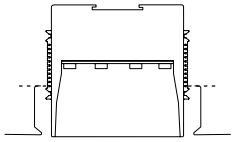
Version 1 (V1)



Ceiling Option VF

No modification on flange

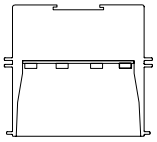
Version 2 (V2)



Ceiling Options
C1T, C2T, C3F, SF, TZ6

Flange can be modify individually on each side of the housing

Version 3 (V3)



Ceiling Options
C1, C2, C3

No modification on flange

Note: +/- 1/16"

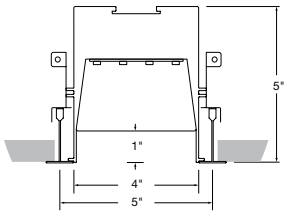
Submitted by:	Date:
Type:	Project:
Ordering Info:	

FINELITE® Better Lighting

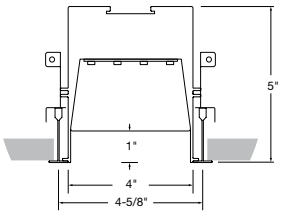
High Performance 4" Aperture (HP-4) Recessed

REGRESSED MOUNTING TYPES - T-BAR

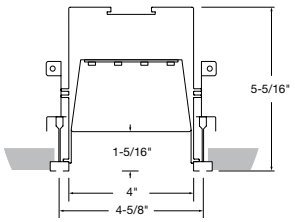
Rough-In Dimensions



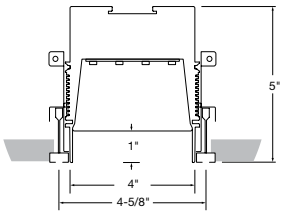
15/16" T-Bar (C1)



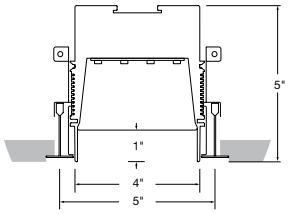
9/16" T-Bar (C2)



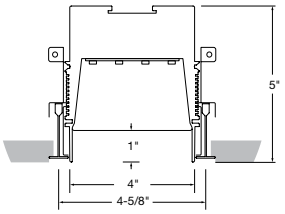
Standard Screw Slot (C3)



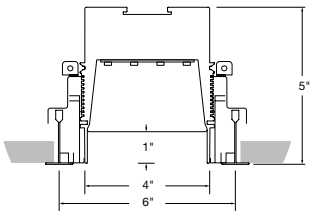
Flush Screw Slot (C3F)



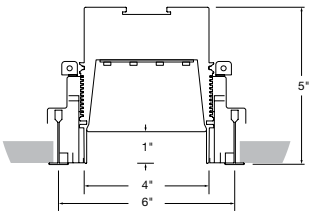
15/16" Tegular (C1T)



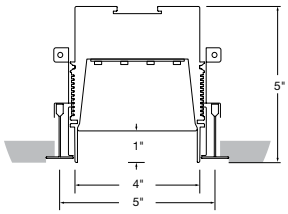
9/16" Tegular (C2T)



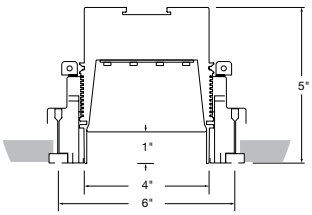
Tech Zone 6" (TZ6)
15/16" T-Bar (C1)



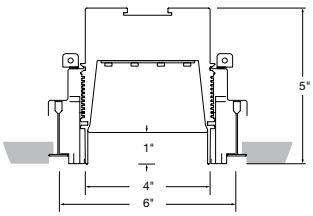
Tech Zone 6" (TZ6)
9/16" T-Bar (C2)



Tech Zone 6" (TZ6)
Standard Screw Slot (C3)

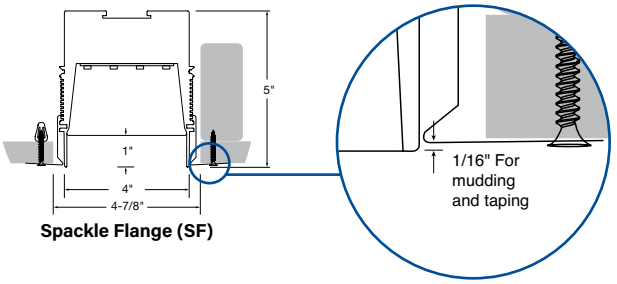


Tech Zone 6" (TZ6)
Flush Screw Slot (C3F)

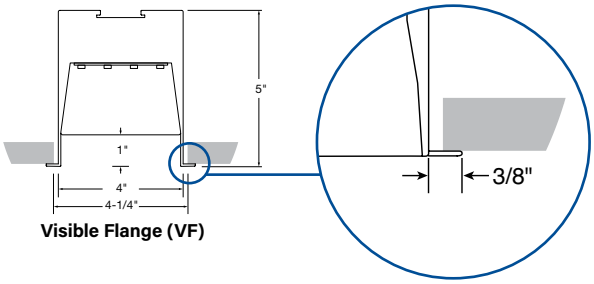


Tech Zone 6" (TZ6)
9/16" Tegular (C2T)

REGRESSED MOUNTING TYPES - CUTOUT DIMENSIONS



Spackle Flange (SF)

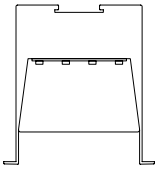


Visible Flange (VF)

Regressed Lens: Regressed lens version is 5" tall with a lens that is regressed 1" from ceiling line.

HOUSING

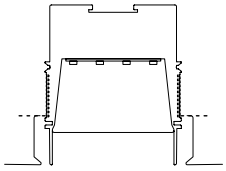
Version 1 (V1)



Ceiling Option VF

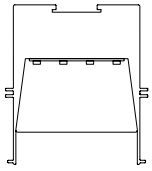
No modification on flange

Version 2 (V2)



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

Version 3 (V3)



Ceiling Options
C1, C2, C3
No modification on flange

Note: +/- 1/16"

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

FINELITE® Better Lighting

High Performance 4" Aperture (HP-4) Recessed

Direct Photometry - 4' Luminaire 3700K

HP4-P-D-4'-V-837-DSO

Downlight: Downlight Spread Optic

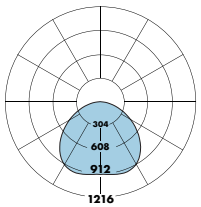
Efficacy: 99 lm/W

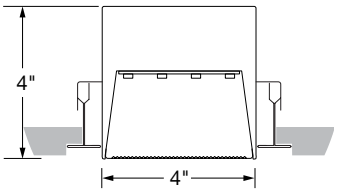
Total luminaire output: 3500 lumens (875 lm/ft)
35.2 watts (8.8 W/ft)

Peak Candela Value: 972 @ 25°

CRI: 80 / CCT: 3700K

ITL LM79 Report 92993 (Family Correlated)





CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	935	935	935	935	935	
5	928	929	934	939	940	111
15	888	901	929	963	971	326
25	788	816	895	955	972	508
35	664	711	820	892	901	622
45	529	583	696	750	759	641
55	395	442	536	572	575	566
65	266	298	361	380	379	420
75	147	162	192	198	197	239
85	43	46	51	49	49	68
90	0	0	0	0	0	

Complete LM79 LED Photometry

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**
2722	3500

Light Output, 3700K, 80 CRI (Lumens Per Foot)	
H [1]	**V**
681	875

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**
101	99

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

Direct Photometry - 4' Luminaire 3700K

HP4-P-D-V-837-F

Downlight: Flush Diffuser

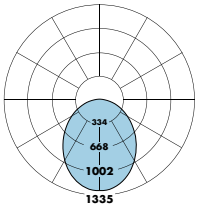
Efficacy: 98 lm/W

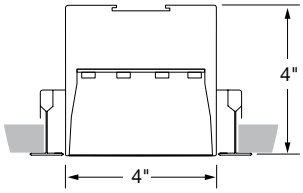
Total luminaire output: 3446 lumens (862 lm/ft)
35.2 watts (8.8 W/ft)

Peak Candela Value: 1242 @ 0°

CRI: 80 / CCT: 3700K

TL LM79 Report 85124 (Family Correlated)





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	

Complete LM79 LED Photometry

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.

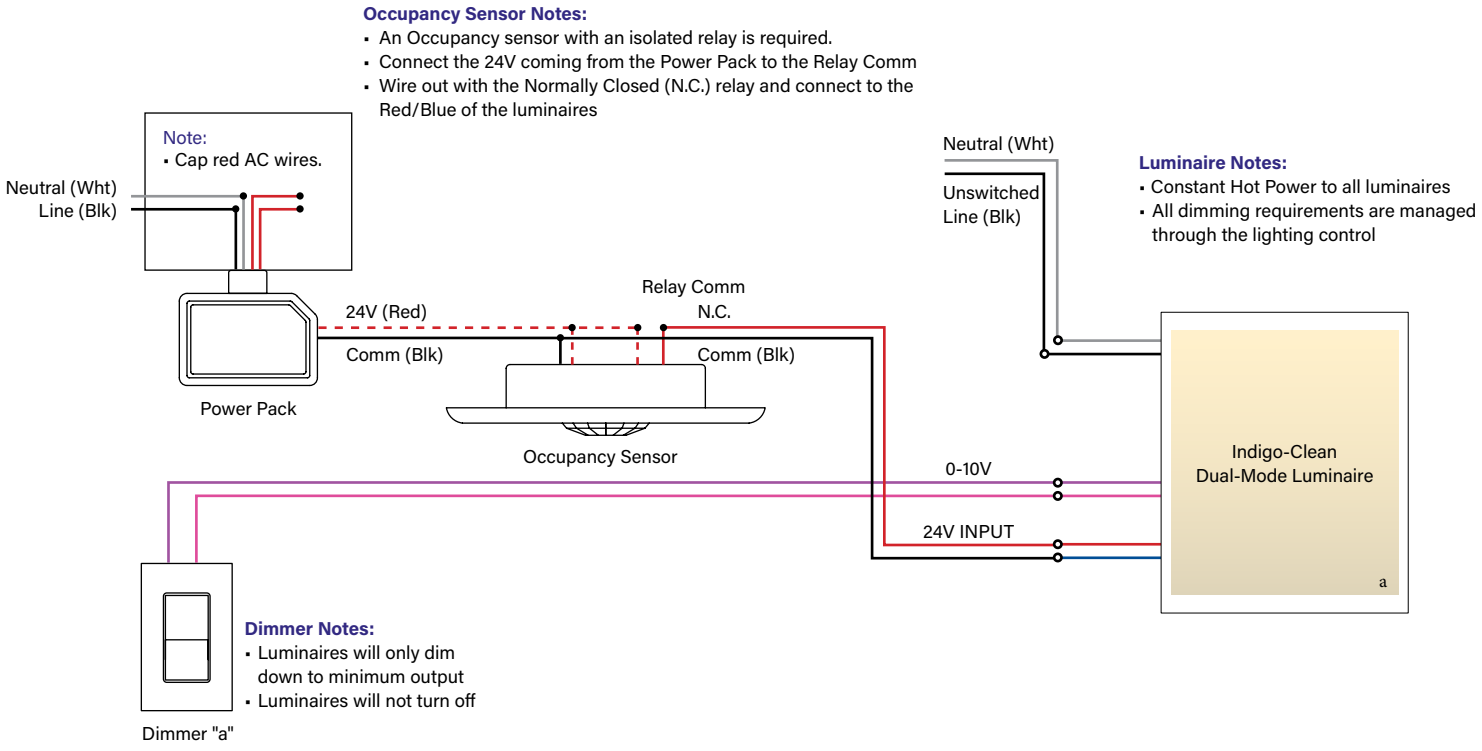
$$\textbf{Efficacy} = \frac{845\ \frac{\text{lm}}{\text{ft.}}}{8.8\ \frac{\text{W}}{\text{ft.}}} = 96\ \text{lm/W}$$

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

FINELITE® Better Lighting

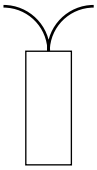
Indigo Clean Dual Mode - Basic Wiring Diagram

WIRING DIAGRAM



DUAL FEED DETAIL

CONTROL FEED
Blue / Red
Blue / Black



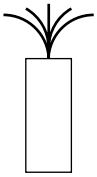
24V Dual Mode Control Pair

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

OCC 24V +

OCC 24V -

POWER FEED
Black, White, Green,
Purple, Pink



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