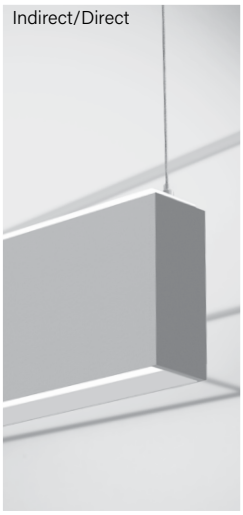
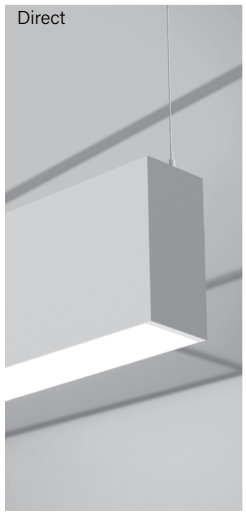
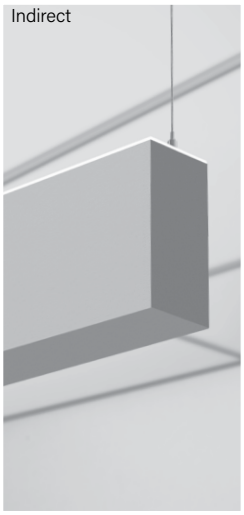
Submitted by:		Date:
Type:	Project:	
Ordering Info:		

FINELITE®
Better Lighting

High Performance 2" Aperture (HP-2) Pendant







Signal White is standard finish

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.

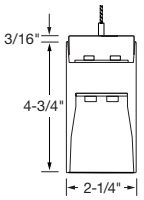
Single-Mode Indigo-Clean Technology utilizes a combination of blended white LEDs and 405nm LEDs on a single circuit board design. When the luminaires are on, the disinfection is active.

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.

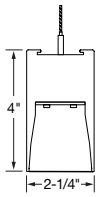
CROSS SECTIONS

Indirect/Direct
Top Glow Diffuser (standard)



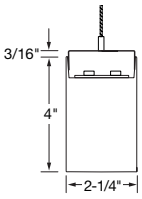
Flush Downlight Diffuser (standard)

Direct

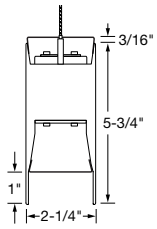


Flush Downlight Diffuser (standard)

Indirect
Top Glow Diffuser (standard)

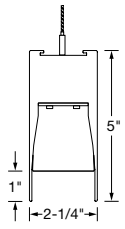


Regressed Indirect/Direct
Top Glow Diffuser (standard)



Flat Diffuser with 1" Regressed (standard)

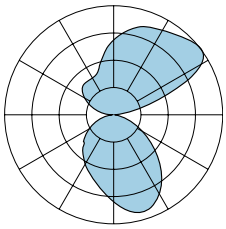
Regressed Direct



Flat Diffuser with 1" Regressed (standard)

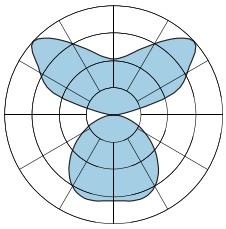
OPTIC OPTIONS

Asymmetric & Asymmetric Top Glow (**ASY / ASY-TG**)



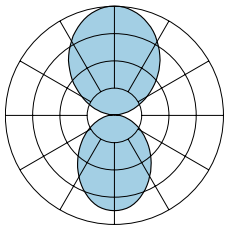
Downlight Asymmetric Optic (**DAO**)

Widespread & Widespread Top Glow (**WSO / WSO-TG**)



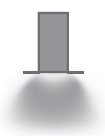
Downlight Spread Optic (**DSO**)

Standard Uplight Flush Optic (**F**)



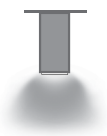
Standard Downlight Flush Optic (**F**)

ALSO AVAILABLE IN



Recessed (**R**)

Wall Mount (**WM**)



Surface Mount (**SM**)

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*

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

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

FINELITE® Better Lighting

High Performance 2" Aperture (HP-2) Pendant

Clear Form

BODY TYPE

Platform	Series Name	Luminaire Type	Luminaire Distribution	Total Length of Run
◉ **HP** - High Performance	◉ **2**	◯ **P** - Pendant ◯ **P RG** - Pendant Regressed[1] (Wall Wash not available)	◯ **D** - Direct ◯ **ID** - Indirect/Direct ◯ **I** - Indirect	_____ Minimum 2' section length. Increments accurate to 1/16" (±1/32"), standard. 12' maximum section length.

OUTPUT and LED TYPE

Uplight Output ID & I Only (Flush)	Downlight Output ID & D Only
◯ **H** - High (725 lm/ft) ◯ **V** - Very High (935 lm/ft) ◯ **TL** - Tailored:_____lm/ft*	◯ **H** - High (593 lm/ft) ◯ **V** - Very High (763 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/OPTICAL OPTIONS

Uplight

◯ **TG** - Top Glow (standard)
◯ **F** - Flush
◯ **WSO** - Widespread Optic
◯ **WSOTG** - Widespread Optic with Top Glow
◯ **ASY-L** - Asymmetric Left Optic
◯ **ASY-R** - Asymmetric Right Optic
◯ **ASYTG-L** - Asymmetric Left Optic with Top Glow
◯ **ASYTG-R** - Asymmetric Right Optic with Top Glow

Downlight

◯ **F** - Flush (standard)
◯ **BG** - Bottom Glow
◯ **DL** - 1" Drop Down Lens
◯ **RG-D** - Flat Diffuser with 1" Regress[2]
◯ **RG WCB** - White Cross Blade Baffle[2]
◯ **RG-LHE** - Hollowed Ellipse Louver[2]
◯ **RG-LHC** - Hex Louver[2]
◯ **DAO-L** - Downlight Asymmetric Optic Left[3]
◯ **DAO-R** - Downlight Asymmetric Optic Right[3]
◯ **DSO** - Downlight Spread Optic[3]

Reflector System

◉ **96LG** - 96 Low Gloss White

ELECTRICAL OPTIONS

Voltage

◯ **120** - 120 Voltage
◯ **277** - 277 Voltage
◯ **347** - 347 Voltage

Circuiting[4]

◯ **SC** - Single Circuit*
One single circuit in a run
◯ **DC** - Dual Circuit*[5]
Independent control of up and down separately in an I/D style fixture
◯ **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)

Driver Selection

0-10V Driver Options
◯ **FC-10%** - 0-10V 10% (standard)
◯ **FC-1%** - 0-10V 1%
◯ **OTi-10%** - EldoLED OTi, 0-10V 10%[6]
◯ **OTi-1%** - EldoLED OTi, 0-10V 1%[6]
◯ **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

Mounting Method

◯ **FA50** - Fully Adjustable 50" (standard)
◯ **FA100** - Fully Adjustable 100"
◯ **FA150** - Fully Adjustable 150"
◯ **FA200** - Fully Adjustable 200"
◯ **FA250** - Fully Adjustable 250"
◯ **FA300** - Fully Adjustable 300"
◯ **FM** - Flexible Mounting[7]

Ceiling Hardware Type

◯ **C1** - 15/16" T-Bar
◯ **C2** - 9/16" T-Bar
◯ **C3** - Screw Slot
◯ **C4** - Hard Ceiling
◯ **C1T** - 15/16" Tegular
◯ **C2T** - 9/16" Tegular

OTHER OPTIONS

Endcap Style

◯ **FE** - Flat Endcap (standard)
◯ **DE** - 1" Drop Endcap[8]
◯ **OE** - Open Endcap[9]

Finish

◯ **SW** - Signal White (standard)
◯ **FB** - Finelite Black
◯ **SA** - Satin Aluminum
◯ **####** - RAL Color Code[10] _____

OTHER OPTIONS

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
◯ **BSL310LP** - Bodine Battery Back up Low Profile
◯ **GTD** - Generator Transfer Device
◯ **ALCR** - Automatic Load Control Relay

Integrated Sensor (Optional)[11]

Clear Selection

◯ **OBO** - Occupancy
◯ **OBD** - Daylight
◯ **W601** - Wattstopper Wireless[12] Sensor
◯ **OBE** - Enlighted[13]
◯ **REE** - Remote Enlighted[14]
◯ **CLM** - Encelium Sensor
◯ **RE7** - nLight Air Sensor

Integrated Sensor not available for Dual-Mode

◯ **AOCC-W** - Lutron Athena Sensor (Device Color White)[15]
◯ **AOCC-B** - Lutron Athena Sensor (Device Color Black)[15]
◯ **ARF-W** - Lutron Athena RF (Device Color White)[15]
◯ **ARF-B** - Lutron Athena RF (Device Color Black)[15]
◯ **VOCC** - Lutron Vive Sensor[16]
◯ **VRF** - Lutron Vive RF[16]

Special Options (Optional)

Clear Selection

◯ **CP** - Chicago Plenum[17]
◯ **RLA** - Red List Approved
◯ **RLD** - Red List Declared

[1] Not available with Indirect
[2] Pendant Regressed only
[3] Not available with Regressed
[4] Contact factory for switching options
[5] Indirect/Direct only
[6] Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO). Not available with Dual-Mode.
[7] Direct only
[8] 1" Drop Down Lens downlight only
[9] Available with Hollowed Ellipse Louver (LHE) only
[10] 20 business days lead time for color
[11] Minimum fixture length: Direct and Indiret with a sensor is 3ft. Indirect/Direct with a sensor is 4ft.
[12] 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.
[13] Enlighted components installed by Finelite, provided by others
[14] Enlighted Control Unit & Sensor Cable installed for Remote mounting sensor
[15] 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.
[16] Lutron Vive Ingrated Sensors require a DALI driver. Contact factory for Indirect distribution
[17] Only available with C1, C2, and C3 mounting hardware with Finelite Gridbox

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FINELITE® Better Lighting

High Performance 2" Aperture (HP-2) Pendant

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

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FINELITE®
Better Lighting

High Performance 2" Aperture (HP-2) Pendant

SPECIFICATIONS

BODY TYPE

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

LENGTHS: Any length, 2' minimum, in increments down to 1/16th" (±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 [1], Regressed Diffuser, or White Cross Blade Baffle [2]. Corners not available with Hollowed Ellipse Louver (**LHE**) or Hex Louver (**LHC**). Contact factory for Double miters using the White Cross Blade Baffle. 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 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 [3], and SARS-CoV-2 – the virus that causes COVID-19 [3]. 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

UPLIGHT OPTION [4]: Patented Top Glow frost white diffuser standard. 12' maximum diffuser length. 73% transmissive, 99% diffusion. Internal secondary diffusers at corners ensure visually seamless, uniform, continuous illumination options include: Flush frost white snap-in diffuser, 73% transmissive, 99% diffusion; Widespread Optic (**WSO**) and Widespread Optic with Top Glow (**WSOTG**); WSO enables increased luminaire spacing with improved ceiling uniformity. Asymmetric optic directs light in a specific direction. **ASY-L** distributes light to the left, **ASY-R** distributed light to the right of the luminaire. Consult factory for more tailored lumen outputs.

DOWNLIGHT OPTION [5]: 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**), Bottom Glow (**BG**), 1" Drop Down Lens (**DL**), White Cross Blade Baffle (**WCB**) [7], Hollowed Ellipse Louver (**LHE**) [7], Hex Louver (**LHC**) [7], Downlight Asymmetric Optic (**DAO**) [6], Downlight Spread Optic (**DSO**) [6], and Regressed downlight diffusers (**RG**) [7]. 1" Drop Down Lens made of highly efficient acrylic. Available with a solid endcap or an endcap with a diffuse filler to continue the luminous aesthetic. Downlight Spread & Downlight Asymmetric Optics are extruded lenses with a subtle ribbed appearance providing a batwing or asymmetric distribution for improved optical performance. Consult factory for more tailored lumen outputs. 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 controlling uplight and downlight together (power and dimming). Specify dual feeds for independent control of uplight and downlight. 14-gauge feed 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 100%-10% 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

[1] Indirect/Direct and Direct only
[2] White Cross Blade (WCB) baffles not available with custom angles. Available in 90 degrees only
[3] *Indigo-Clean Research Reports*
[4] Pendant Indirect/Direct, Pendant Regressed Indirect/Direct, and Pendant Indirect only
[5] Pendant Indirect/Direct, Pendant Regressed Indirect/Direct, Pendant Direct, and Pendant Regressed Direct only
[6] Not available with Regressed
[7] Pendant Regressed Indirect/Direct & Pendant Regressed Direct only

Continued
Page 4

Submitted by:		Date:
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FINELITE®
Better Lighting

High Performance 2" Aperture (HP-2) Pendant

SPECIFICATIONS

LUTRON STATIC DRIVER OPTIONS:

- **LUT-ES1 (LDE1)** - (Hi-lume 1% EcoSystem with Soft-On, Fade-to-Black dimming (LDE1 series))

MOUNTING OPTIONS

HANGING HARDWARE: 50" Fully Adjustable (**FA**) steel-plated aircraft cable with safety stop hardware standard. The Flexible Mounting Bracket (**FM**) adjusts the suspension points to accommodate existing architecture. Suspension points adjust up to 2' in from the end of 8' or 12' fixture lengths and up to 1' in on shorter lengths. Consult factory for tailored lighting options.

OTHER OPTIONS

ENDCAPS: Flat diecast aluminum endcaps (**FE**) add 1/4" to each end of luminaire. 1" Drop Down Lens Endcap (**DE**)[7] includes diffuse element to continue luminance of drop lens. Open Endcap (**OE**) is for use with the Hollowed Ellipse Louver (**LHE**); following the curve of the louver.

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**
HP2-P-D		
Min. Housing Length	8'*	4' *, **
EM Lumen Output	1560	929
EM Section Illuminated	2'	2' or 4'
HP2-P-ID		
Min. Housing Length	12'	8'
EM Lumen Output	1560	929
EM Section Illuminated	2'	2' or 4'
HP2-P-I		
Min. Housing Length	8'*	4'*
EM Lumen Output	1680	956
EM Section Illuminated	2'	2' or 4'

Based on 3700K and 80-CRI
* Minimum fixture housing length for battery pack approved without sensor
** Exception: 5' not available, 6'+ okay.

Bodine GTD and Legrand ALCR Min. Length	
Configuration	**Min Length**
Generator	D-4'; I-4'; ID-6'
Generator + OCC	D-6'; I-6'; ID-8'
Day	D-4'; I-4'; ID-6'
Generator + Day	D-6'; I-6'; ID-8'

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. Minimum fixture length: Direct and Indiret with a sensor is 3ft. Indirect/Direct with a sensor is 4ft.

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[9] 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-1, -2, -3. 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[10]**:** ID - 2.9 lb/ft; D - 2.3 lb/ft; I - 2.3 lb/ft; WW - 2.9 lb/ft

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

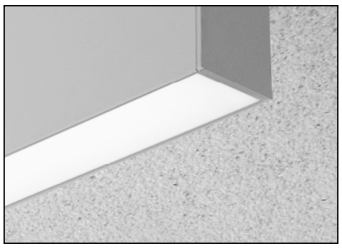
[7] Available in Indirect/Direct Regressed & Direct Regressed only
[8] Consult Finelite for Generator Transfer Device and Battery Back up fit
[9] 20 business days lead time for color
[10] Excludes Battery Back up and Generator Transfer Device weight

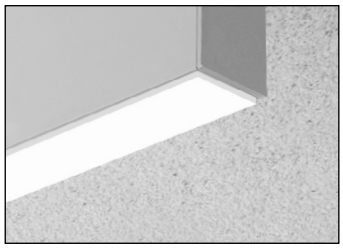
Submitted by:		Date:
Type:	Project:	
Ordering Info:		

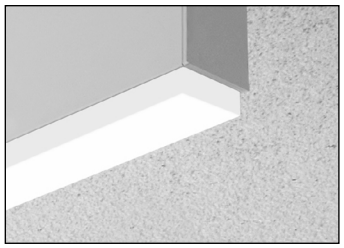
FINELITE®
Better Lighting

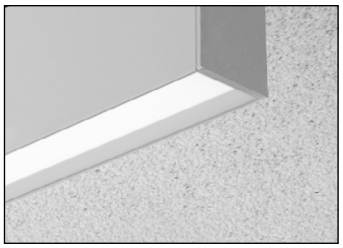
High Performance 2" Aperture (HP-2) Pendant

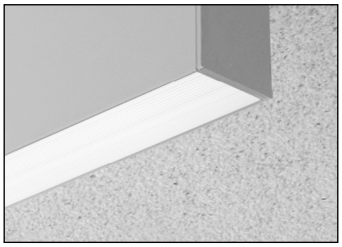
AESTHETIC OPTIONS

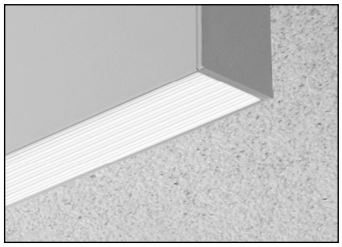

Flush Diffuser (**F**)

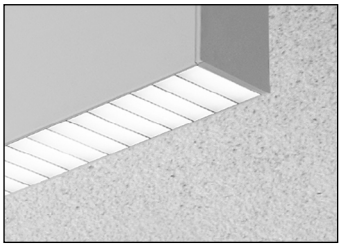

Bottom Glow Diffuser (**BG**)

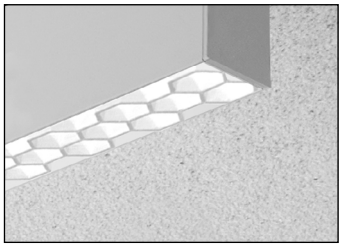

1" Drop Down Lens (**DL**)

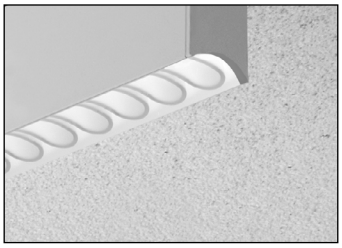

Flat Diffuser with 1" Regressed (**RG-D**)


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 [2] (**RG-LHE**)

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

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

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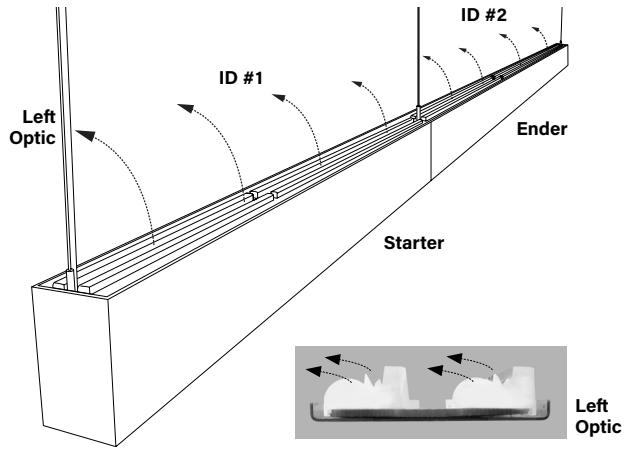
High Performance 2" Aperture (HP-2) Pendant

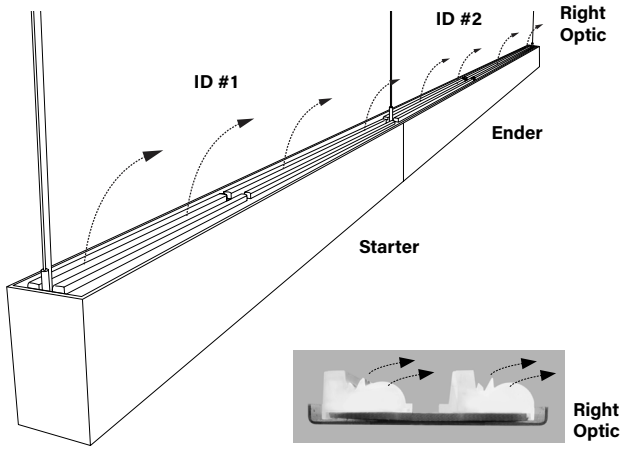
ASYMMETRIC OPTIONS

Use this tool to understand how to specify Asymmetric for your project. The diagrams below show a linear run from power feed to ender. Specify ASY-L distributes light to the left or ASY-R distributes light to the right.

Asymmetric Left Optic (ASY-L)



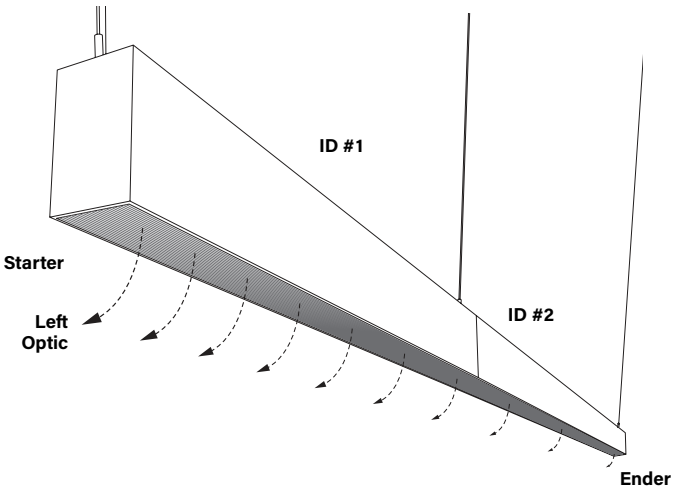
Asymmetric Right Optic (ASY-R)



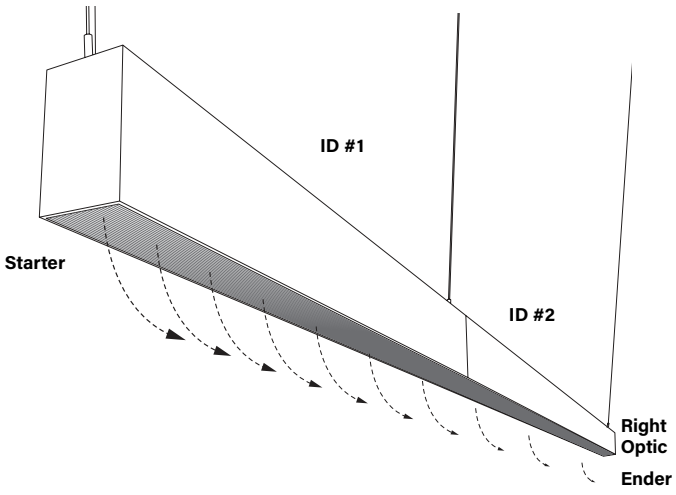
DOWNLIGHT ASYMMETRIC OPTIONS

Use this tool to understand how to specify Downlight Asymmetric for your project. The diagrams below show a linear run from power feed to ender. Specify DAO-L distributes light to the left or DAO-R distributes light to the right.

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.

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Submitted by:		Date:
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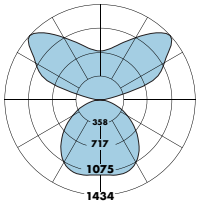
Ordering Info:		

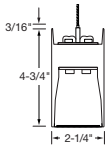
FINELITE® Better Lighting

High Performance 2" Aperture (HP-2) Pendant

Indirect/Direct Photometry - 4' Luminaire 3500K

HP-2-P-ID-4'-V-V-837-SMIC-WSO-DSO
Uplight: Widespread Optic
Downlight: Downlight Spread Optic
Distribution: 55% Up (**V**) / 45% Down (**V**)
Efficacy: 98 lm/W
Uplight: 3897 lumens (974 lumens/foot)
Downlight: 3175 lumens (794 lumens/foot)
Total luminaire output: 7072 lumens (1768 lm/ft)
70 watts (17.5 W/ft)
Peak Candela Value: 1434 @ 135°
CRI: 80 / CCT: 3700K
ITL LM79 Report 89456 and 94139 (Family Correlated)





CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1131	1131	1131	1131	1131	
5	1123	1124	1129	1134	1136	108
15	1060	1170	1116	1151	1161	314
25	942	972	1063	1121	1135	483
35	790	840	954	1005	1011	577
45	625	682	790	817	811	579
55	461	509	590	598	590	497
65	305	338	386	385	375	359
75	166	179	202	197	191	201
85	49	50	51	49	47	57
90	0	0	0	0	0	
95	46	81	81	67	66	89
105	178	250	516	539	444	421
115	314	397	698	963	1017	673
125	446	526	860	1219	1260	769
135	541	615	880	1260	1413	719
145	614	672	858	1093	1199	555
155	673	706	818	934	982	381
165	714	727	769	812	827	219
175	733	735	740	745	747	71
180	736	736	736	736	736	

Complete LM79 LED Photometry

Information in chart below is for reference and based on ITL LM79 report 89456 and 94139 (Family Correlated)

Total Light Output, 3700K, 80 CRI (Lumens) - 4' Luminaire

	↑H [1]	↑V
↓H [1]	5500 [↑55% I 45%↓]	6366 [↑61% I 39%↓]
↓V	6206 [↑49% I 51%↓]	7072 [↑55% I 45%↓]

Light Output, 3700K, 80 CRI (Lumens Per Foot)

	↑H [1]	↑V
↓H [1]	1375	1592
↓V	1552	1768

Single Mode Power, 3700K (Watts Per Foot)

	↑H [1]	↑V
↓H [1]	13.4	15.5
↓V	15.5	17.5

Dual Mode Power, 3700K (Watts Per Foot)

	↑H [1]			↑V		
Status	Occupied	LPD	Unoccupied	Occupied	LPD	Unoccupied
↓H [1]	13.8	10.7	8.2	15.9	12.4	9.4
↓V	15.9	12.4	9.4	18.0	14.0	10.5

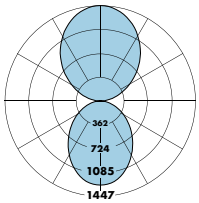
Efficacy, 3700K, 80 CRI (Lumens Per Watt)

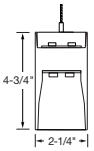
	↑H [1]	↑V
↓H [1]	102	103
↓V	100	101

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

Indirect/Direct Photometry - 4' Luminaire 3500K

HP-2-P-ID-4'-V-V-837-SMIC-F-F
Uplight: Flush Diffuser
Downlight: Flush Diffuser
Distribution: 55% Up (**V**) / 45% Down (**V**)
Efficacy: 97 lm/W
Uplight: 3699 lumens (925 lumens/foot)
Downlight: 3080 lumens (770 lumens/foot)
Total luminaire output: 6779 lumens (1695 lm/ft)
70 watts (17.5 W/ft)
Peak Candela Value: 1447 @ 180°
CRI: 80 / CCT: 3700K
ITL LM79 Report 85132 (Family Correlated)





CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1275	1275	1275	1275	1275	
5	1267	1268	1266	1265	1265	120
15	1204	1196	1194	1188	1183	336
25	1081	1065	1056	1044	1032	486
35	914	897	883	860	851	551
45	727	712	696	672	663	535
55	536	526	510	491	484	456
65	357	349	339	327	322	336
75	197	192	186	181	178	198
85	58	57	56	55	53	62
90	0	0	0	0	0	
95	69	66	66	67	68	75
105	237	234	229	228	227	245
115	429	426	424	414	412	418
125	641	630	633	624	619	563
135	858	845	849	840	840	652
145	1066	1052	1055	1052	1045	658
155	1245	1230	1237	1231	1225	567
165	1373	1363	1366	1364	1361	385
175	1438	1438	1438	1438	1437	136
180	1447	1447	1447	1447	1447	

Complete LM79 LED Photometry

Information in chart below is for reference and based on ITL LM79 report 85132

Total Light Output, 3700K, 80 CRI (Lumens) - 4' Luminaire

	↑H [1]	↑V
↓H [1]	5273 (↑55% I 45%↓)	6095 (↑61% I 39%↓)
↓V	5957 (↑48% I 52%↓)	6779 (↑55% I 45%↓)

Light Output, 3700K, 80 CRI (Lumens Per Foot)

	↑H [1]	↑V
↓H [1]	1318	1524
↓V	1489	1695

Single Mode Power, 3700K (Watts Per Foot)

	↑H [1]	↑V
↓H [1]	13.4	15.5
↓V	15.5	17.5

Dual Mode Power, 3700K (Watts Per Foot)

	↑H [1]			↑V		
Status	Occupied	LPD	Unoccupied	Occupied	LPD	Unoccupied
↓H [1]	13.8	10.7	8.2	15.9	12.4	9.4
↓V	15.9	12.4	9.4	18.0	14.0	10.5

Efficacy, 3700K, 80 CRI (Lumens Per Watt)

	↑H [1]	↑V
↓H [1]	98	99
↓V	96	97

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 - High Output (**H**) / Very High Output (**V**), 3200K, 80 CRI
Lumen Adjustment Factor: 0.98
Total Light Output: 5957 lm x 0.98 = 5838 lm
Total Light Output per Foot: 1489 lm/ft x 0.98 = 1459 lm/ft.
watts/foot: 15.5 W/ft.

$$\textbf{Efficacy} = \frac{1459\ \frac{\text{lm}}{\text{ft.}}}{15.5\ \frac{\text{W}}{\text{ft.}}} = 94\ \text{lm/W}$$

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

FINELITE® Better Lighting

High Performance 2" Aperture (HP-2) Pendant

Indirect/Direct Photometry - 4' Luminaire 3500K

HP2-P-D-4'-V-837-SMIC-DSO

Downlight: Downlight Spread Optic

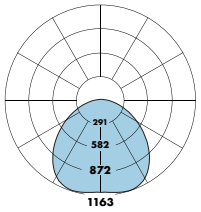
Efficacy: 91 lm/W

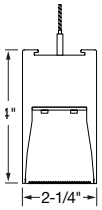
Total luminaire output: 3175 lumens (794 lm/ft)
35 watts (8.8 W/ft)

Peak Candela Value: 1161 @ 15°

CRI: 80 / CCT: 3700K

ITL LM79 Report 94139 (Family Correlated)





CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1131	1131	1131	1131	1131	
5	1123	1124	1129	1134	1136	108
15	1060	1070	1116	1151	1161	314
25	942	972	1063	1121	1135	483
35	790	840	955	1005	1011	578
45	625	682	790	817	811	579
55	461	509	590	598	590	497
65	305	338	386	385	375	359
75	166	179	202	197	191	201
85	49	50	51	49	47	57
90	0	0	0	0	0	

Indirect/Direct Photometry - 4' Luminaire 3500K

HP2-P-D-V-837-SMIC-F

Downlight: Flush Diffuser

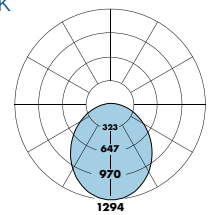
Efficacy: 89 lm/W

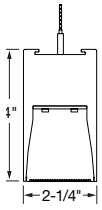
Total luminaire output: 3119 lumens (780 lm/ft)
35 watts (8.8 W/ft)

Peak Candela Value: 1294 @ 0°

CRI: 80 / CCT: 3700K

TL LM79 Report 85136 (Family Correlated)





CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1294	1294	1294	1294	1294	
5	1287	1286	1286	1285	1284	122
15	1225	1214	1213	1207	1199	341
25	1099	1084	1076	1055	1043	493
35	929	914	895	869	860	559
45	739	725	703	676	665	542
55	546	534	516	494	485	460
65	363	354	340	327	321	339
75	200	195	189	182	179	200
85	60	59	57	55	55	64
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**
2469	3175

Light Output, 3700K, 80 CRI (Lumens Per Foot)	
H [1]	**V**
617	794

Power, 3700K (Watts Per Foot)	
H [1]	**V**
6.7	8.8

Dual Mode Power, 3700K (Watts Per Foot)					
H [1]			**V**		
Occupied	**LPD**	**Unoccupied**	**Occupied**	**LPD**	**Unoccupied**
6.9	5.5	4.1	9.0	7.1	5.2

Efficacy, 3700K, 80 CRI (Lumens Per Watt)	
H [1]	**V**
92	91

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

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**
2426	3119

Light Output, 3700K, 80 CRI (Lumens Per Foot)	
H [1]	**V**
606	780

Power, 3700K (Watts Per Foot)	
H [1]	**V**
6.7	8.8

Dual Mode Power, 3700K (Watts Per Foot)					
H [1]			**V**		
Occupied	**LPD**	**Unoccupied**	**Occupied**	**LPD**	**Unoccupied**
6.9	5.5	4.1	9.0	7.1	5.2

Efficacy, 3700K, 80 CRI (Lumens Per Watt)	
H [1]	**V**
90	89

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: 3119 lm x 0.98 = 3057 lm
Total Light Output per Foot: 780 lm/ft x 0.98 = 764 lm/ft.
watts/foot: 8.8 W/ft.

$$\textbf{Efficacy} = \frac{764\ \frac{\text{lm}}{\text{ft.}}}{8.8\ \frac{\text{W}}{\text{ft.}}} = 87\ \text{lm/W}$$

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

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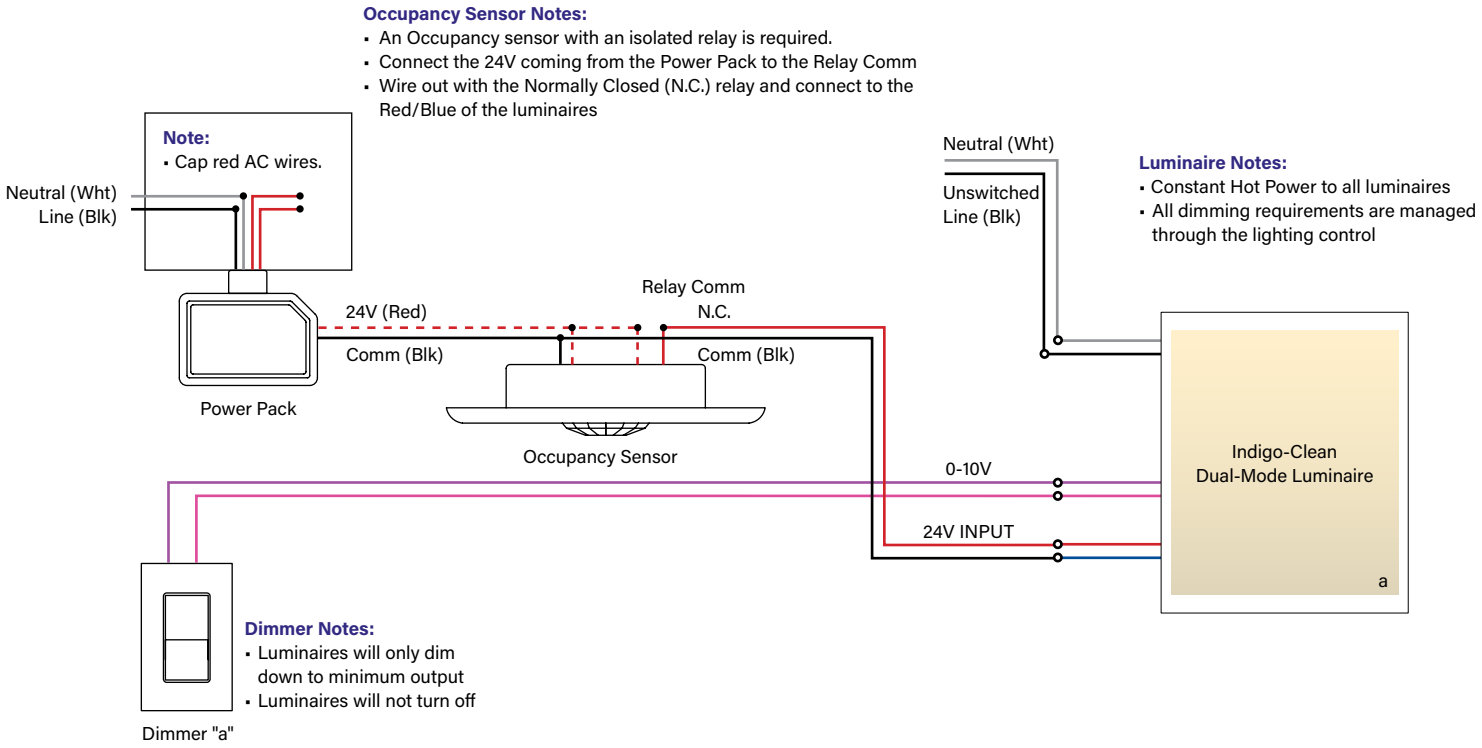
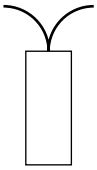
Indigo Clean Dual Mode - Basic Wiring Diagram

WIRING DIAGRAM



DUAL FEED DETAIL

CONTROL FEED
Blue / Red
Blue / Black



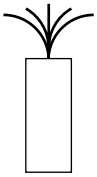
24V Dual Mode Control Pair

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 -

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