Type:

Project:

Date:

FINELITE Better Lighting

High Performance 2" Aperture (HP-2) Pendant



Indigo-Clean

Indigo-Clean Technology is a Continuous Environmental Disinfection System that emits a narrow spectrum light that kills bacteria, Influenza-A¹, and SARS-CoV-2 – the virus that causes COVID-19¹ – and is proven effective by recently conducted in

the virus that causes COVID-19¹ – and is proven effective by recently conducted independent lab testing. Unlike UV disinfection, Indigo-Clean Technology is designed to safely and continuously disinfect a space while it is fully occupied.

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

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.



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Submitted	by:
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Type:

Ordering Info:

Project:

Better Lighting High Performance 2" Aperture (HP-2) Pendant

Ordering Guide Example: HP - 2 - P - ID - 36' - H - H - 837 - F - BG - 96LG - 120 - DC - FC-10% - FA50 - C1 - FE - SW - LGD18W - OBO - CP

BODY TYPE			OUTPUT and	LED TYPE		
Platform	Series Name	Luminaire Type	Luminaire Distribution	Total Length of Run	Uplight Output ID & I Only (Flush)	Downlight Output ID & D Only
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.	H - High (725 lm/ft) V - Very High (935 lm/ft) TL - Tailored:lm/ft* * Specify lm/ft of outputs betweer Consult factory for tailored lumer	H - High (593 lm/ft) V - Very High (763 lm/ft) TL - Tailored:lm/ft* a High (H) and Very High (V). a output outside of this range.

Date:

MECHANICAL/OPTICAL OPTIONS

DSO - Downlight Spread Optic ³

OTHER OPTIONS

OUTPUT and LED TYPE

LED CRI/CCT Uplight Downlight Reflector System 832-SMIC - 80 CRI, 3200K Single Mode Indigo-Clean TG - Top Glow (standard) F - Flush (standard) 96LG - 96 Low Gloss 837-SMIC - 80 CRI, 3700K Single Mode Indigo-Clean F - Flush BG - Bottom Glow White 843-SMIC - 80 CRI, 4300K Single Mode Indigo-Clean WSO - Widespread Optic DL - 1" Drop Down Lens RG-D - Flat Diffuser with 1" Regress² 832-DMIC - 80 CRI, 3200K Dual Mode Indigo-Clean WSOTG - Widespread Optic with Top Glow 837-DMIC - 80 CRI, 3700K Dual Mode Indigo-Clean ASY-L - Asymmetric Left Optic RG WCB - White Cross Blade Baffle² 843-DMIC - 80 CRI, 4300K Dual Mode Indigo-Clean ASY-R - Asymmetric Right Optic RG-LHE - Hollowed Ellipse Louver ² ASYTG-L - Asymmetric Left Optic with Top Glow RG-LHC - Hex Louver ² ASYTG-R - Asymmetric Right Optic with Top Glow DAO-L - Downlight Asymmetric Optic Left ³ DAO-R - Downlight Asymmetric Optic Right ³

ELECTRICAL OPTIONS

Voltage	Circuiting ⁴	Driver Se	lection
120 - 120 Voltage 277 - 277 Voltage 347 - 347 Voltage	SC - Single Circuit * One single circuit in a run DC - Dual Circuit ^{e s}	0-10V Driver Options FC-10% - 0-10V 10% (standard) FC-1% - 0-10V 1%	DMX Driver Options ELD-DMX - EldoLED POWERdrive, 0.1%
(OTi only)	Independent control of up and down separately in an I/D style fixture MC - Multi-Circuit* More than one switch leg or zone.	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%	Lutron Driver Options LUT-ES1 - Lutron, Ecosystem 1%
	Factory shop drawings required * Battery, Night Light, and Emergency to Generator cir- cuits are in addition to the normal luminaire circuit(s)	DALI Driver Options FC-DALI-1% - DALI 1% DXL-DALI-1% - EldoLED Dexal, 1% ELD-DALI-0% - EldoLED SOLOdrive, 0.1%	See Page 3 for additional driver options and details

MOUNTING OPTIONS

Mounting Method	Ceiling Hardware Type	Endcap Style	Finish
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"	C1 - 15/16" T-Bar C2 - 9/16" T-Bar C3 - Screw Slot C4 - Hard Ceiling C1T - 15/16" Tegular C2T - 9/16" Tegular	FE - Flat Endcap (standard) DE - 1" Drop Endcap [®] OE - Open Endcap [®]	SW - Signal White (standard) FB - Finelite Black SA - Satin Aluminum #### - RAL Color Code ¹⁰
FM - Elexible Mounting 7	0		

OTHER OPTIONS

Emergency Style (Optional) See page 5 Backup Battery table	Integrated Sensor (Optional) ¹¹			Special Options (Optional)
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 BSL10T3 - Bodine Battery Back up Low Profile Compact GTD - Generator Transfer Device ALCR - Automatic Load Control Relay	OBO - Occupancy OBD - Daylight W601 - Wattstopper Wireless ¹² Sensor OBE - Enlighted ¹³ REE - Remote Enlighted ¹⁴ CLM - Encelium RF SLM - Encelium Sensor In	AOCC-W - Lutron At AOCC-B - Lutron Ath ARF-W - Lutron Ath ARF-B - Lutron Athe VOCC - Lutron Vive RI VRF - Lutron Vive RI	tthena Sensor (Device Color White) ¹⁵ thena Sensor (Device Color Black) ¹⁵ ena RF (Device Color White) ¹⁵ sensor ¹⁶ F ¹⁶ for Dual-Mode	CP - Chicago Plenum ⁷⁷ RLA - Red List Approved RLD - Red List Declared
Not available with Indirect Pendant Regressed only Not available with Regressed Contact factory for switching options Indirect/Direct only Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO). Not available with Dual-Mode. Direct only 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 drive to 40 drivers may be connected DALI Drivers - AOCC & ARF up to 4 ¹⁶ Lutron Vive Ingrated Sensors require for Indirect distribution ¹⁷ Only available with C1, C2, and C3 mo Finelite Gridbox 	rs may be connected; ARF up drivers can be connected. a DALI driver. Contact factory punting hardware with Page 2

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Type:



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			

FINELITE[®] Better Lighting

High Performance 2" Aperture (HP-2) Pendant

SPECIFICATIONS

BODY TYPE

CONSTRUCTION: Precision-cut 6063-T6 extruded aluminum body. Internal joiner system and plug-together wiring are standard.

LENGTHS: Any length, 2' minimum, in increments down to 1/16th" (\pm 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-A³, and SARS-CoV-2 – the virus that causes COVID-19³. 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 OPTION⁴: 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 OPTION⁵: 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	Ind	dir	ect/D	irect	anc	I Di	rect	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

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FINELITE **Better Lighting**

High Performance 2" Aperture (HP-2) Pendant

SPECIFICATIONS

LUTRON STATIC DRIVER OPTIONS:

LUT-ES1 - 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	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. The lumens are based on 835. For other CCT/CRI, refer to the Lumen Adjustment Factor table on page 9

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. 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 colors⁹ 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.

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

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⁷ Available in Indirect/Direct Regressed & Direct Regressed only

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AESTHETIC OPTIONS



Flush Diffuser (F)



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



Hollowed Ellipse Louver²(RG-LHE)



Bottom Glow Diffuser (BG)



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



1" Drop Down Lens (DL)



Flat Diffuser with 1" Regressed (RG-D)



White Cross Blade Baffle² (RG-WCB)



Hex Louver²(RG-LHC)

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ASYMMETRIC OPTIONS

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



Asymmetric Right Optic (ASY-R)



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High Performance 2" Aperture (HP-2) Pendant

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 Right (DAO-R)



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determine the power consumed over time based on the use of the space.	57	U
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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

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

Total Light Output, 3700K, 80 Chi (Lumens) - 4 Luminare				
	↑H ¹	↑ V		
↓H ¹	5500 [↑55% I 45%↓]	6366 [↑61% I 39%↓]		
↓V	6206 [149% 51%J]	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	
↓H¹	13.4	15.5	
↓V	15.5	17.5	

Dual Mode Power, 3700K (Watts Per Foot)						
↑H¹			t v			
Status	Occupied	LPD	Unoccupied	Occupied	LPD	Unoccupied
↓H¹	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 (L	umens 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

Nattage is Real Power. If you would like additional details to calculate Apparent Power, please contact your local Finelite represe	ntative. –	-
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· 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

Downlight: Flush Diffuser
Distribution: 55% Up (V) / 45% Down (V)
Efficacy: 97 lm/W
Jplight: 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 @ 180º

CRI: 80 / CCT: 3700K

ITL LM79 Report 85132 (Family Correlated)





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

Total Light Output, 3700K, 80 CRI (Lumens) - 4' Luminaire			
	↑H '	↑ V	
↓H ¹	5273 (†55% I 45%↓)	6095 (†61% I 39%↓)	
↓V	5957 (†48% l 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	tV	
↓ 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
↓H¹	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)			
	1 H 1	t v	
↓H¹	98	99	
↓V	96	97	

Total Light Output: 5957 lm x 0.98 = 5838 lm

Total Light Output per Foot: 1489 lm/ft x 0.98 = 1459 lm/ft.

 $= 94 \, \text{lm/W}$

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

Efficacy =

watts/foot: 15.5 W/ft.

1459 <u>lm</u>

ft.

W 15.5

FLUSH - High Output (H) / Very High Output (V), 3200K, 80 CRI Sample Lumen Adjustment Calculation Lumen Adjustment Factor: 0.98

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



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Indirect/Direct Photometry - 4' Luminaire 3500K

HP-2-P-ID-4'-V-V-837-SMIC-F-F Uplight: Flush Diffuser

Date

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Submitted	by:
Type:	

Project:

Ordering Info:

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 @ 15º

CRI: 80 / CCT: 3700K

ITL LM79 Report 94139 (Family Correlated)

-2-1/4



CANDELA DISTRIBUTION

45.0

1129 1116

1063 955 1121 1005

1131 1131

67.5

1131 1134 1151

49 0

0.0 22.5

90.0 FLUX

108 314

483 578

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 @ 0º

CBI: 80 / CCT: 3700K

TL LM79 Report 85136 (Family Correlated)

Date



H¹

2426



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CANDELA DISTRIBUTION 45.0 67.5 90.0 FLUX 0.0 22.5 1294 1287 1225 1294 1286 1213 1294 1294 1285 1207 1055 869 676 494 327 182 1294 0 5 15 25 35 45 55 65 75 85 90 1294 1286 1214 1084 914 1284 1199 1043 860 665 485 321 179 55 122 341 1099 929 1076 895 493 559 914 725 534 354 195 59 0 739 546 363 200 542 460 339 200 703 516 340 189 57 0 60 0 55 0 64

v

3119

Information in chart below is for reference and based on ITL LM79 report 94139 (Family Correlated) 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'	V	
2469	3175	

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

Power, 3700K (Watts Per Foot)			
Н'	V		
6.7	8.8		

Dual Mode Power, 3700K (Watts Per Foot)					
H1			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)			
H1	V		
92	91		

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



- 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.

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

Total Light Output per Foot: 780 lm/ft x 0.98 = 764 lm/ft.				
watts/foot: 8.8 W/ft.				
Efficacy =	764 $\frac{\text{Im}}{\text{ft.}}$ = 87 Im/W			
	8.8 <u>W</u>			

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89

Light Output, 3700K, 80 CRI (Lumens Per Foot) H^1 ν 606 780

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

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

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

H¹

90

FLUSH - Very High Output (V), 3200K, 80 CRI Sample Lumen Adjustment Calculation Lumen Adjustment Factor: 0.98 Total Light Output: 3119 lm x 0.98 = 3057 lm



Submitted by:	
Туре:	Project:

Date



Indigo Clean Dual Mode - Basic Wiring Diagram

WIRING DIAGRAM

Ordering Info:

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



DUAL FEED DETAIL



Pink

0-10V -