

FINELITE

High Performance 2" Aperture (HP-2) - Indirect

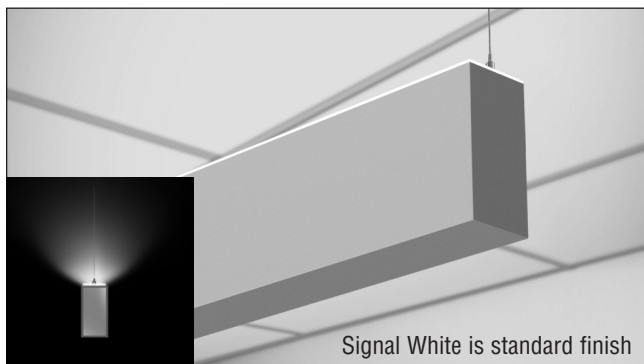


Date

Project

Type

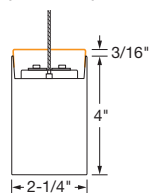
Comments



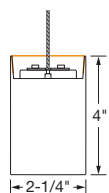
DESCRIPTION

High Performance 2" Aperture Indirect (HP-2 I) is a patented, linear LED luminaire with Flush and Top Glow™ options for the uplight. The micro shape delivers excellent performance using an advanced optical design and mid-power LEDs to achieve 90% of initial light output at 100,000 hours.

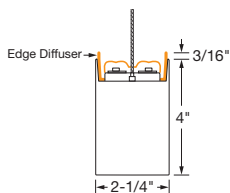
Top Glow Diffuser (Standard)



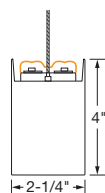
Flush Uplight Diffuser



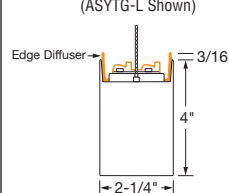
Widespread Optic with Top Glow



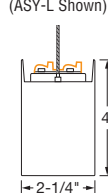
Widespread Optic



Asymmetric Optic with Top Glow (ASYTG-L Shown)

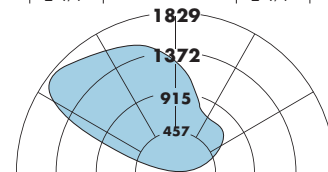
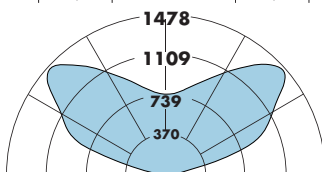


Asymmetric Optic (ASY-L Shown)



DIMENSIONS & DIFFUSER

The patented Top Glow diffuser is standard and provides an added architectural element.



ORDERING GUIDE: Sample Number: HP-2 I - 32' - S - 835 - TG - 96LG - 120V - SC - FA - FE - C1 - OBO

HP-2 I																			
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Finelite **HP-2 I** _____

Length (Minimum 2', increments accurate to 1/16th" (± 1/32"), Standard) _____

Uplight Output (**S** - Standard, **B** - Boosted Standard, **H** - High, **V** - Very High) _____

LED CRI/CCT (**830** - 80 CRI min, 3000K **930** - 90 CRI min, 3000K _____
835 - 80 CRI min, 3500K **935** - 90 CRI min, 3500K _____
840 - 80 CRI min, 4000K **940** - 90 CRI min, 4000K _____)

Uplight Option (**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)

Reflector System (**96LG** - Low Gloss) _____

Voltage (**120V**, **277V**, **347V**) _____

Circuiting ¹ (**SC** - Single Circuit) _____

Mounting (**FA** - Fully Adjustable) _____

Endcap (**FE** - Flat Endcap) _____

Ceiling Type (**C1** - 1" T-Bar, **C2** - 9/16" T-Bar, **C3** - screw slot, **C4** - hard ceiling) _____

Integrated Sensor ² (**OBO** - Occupancy Sensor, **OBD** - Daylight) _____

¹ Contact factory for switching options.
² Available with Flush (F)

Protected by one or more US Patents: 8915613; D702,391; D702,390; D700,732; D727,554 S; D727,550 S, D727,551 S A brand of Legrand

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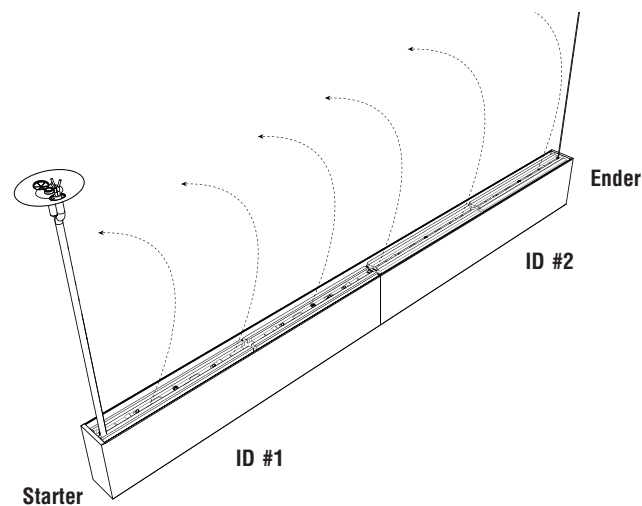
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High Performance 2" Aperture (HP-2) - Indirect

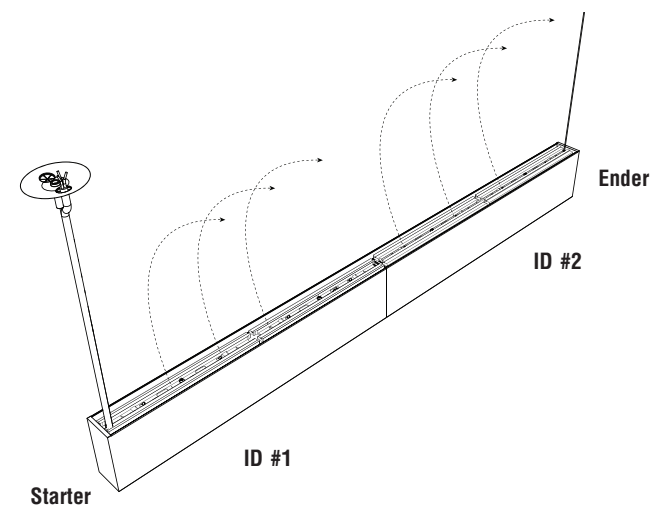
ASYMMETRIC

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 distributed light to the right.

Asymmetric Left Optic (ASY-L)



Asymmetric Right Optic (ASY-R)



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High Performance 2" Aperture (HP-2) - Indirect

PHOTOMETRY

HP-2-I-835-V-F

Very High Output - 4' Luminaire

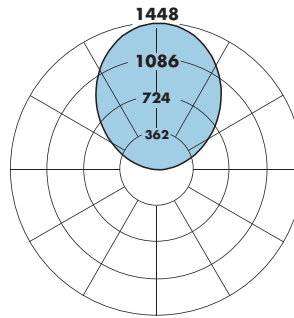
Efficacy: 102 lumens per watt

Total luminaire output: 3749 lumens (937 lumens/foot)
36.7 watts (9.2 watts/foot)

CRI: 80

CCT: 3500K

ITL LM79 Report 85134



CANDELA DISTRIBUTION						
	0.0	22.5	45	67.5	90	Flux
90	0	0	0	0	0	
95	72	73	73	72	72	80
105	245	243	240	236	237	254
115	439	436	433	424	422	427
125	651	644	642	633	632	573
135	868	856	859	849	846	660
145	1074	1061	1062	1056	1051	663
155	1249	1235	1241	1235	1229	570
165	1374	1366	1370	1367	1365	386
175	1439	1439	1439	1439	1439	136
180	1448	1448	1448	1448	1448	

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire			
S*	B*	H*	V**
1535	1929	2916	3749

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S*	B*	H*	V**
384	482	729	937

Power, 3500K, 80 CRI (Watts Per Foot)			
S*	B*	H*	V**
3.6	4.6	7.0	9.2

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S*	B*	H*	V**
107	106	104	102

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

* Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

** Based on ITL report: 85134

Lumen Adjustment Factors - 80 CRI	
3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors - 90 CRI	
3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H), 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

$$\text{Total Light Output} = 2916 \text{ lm} \times 0.789 = 2301 \text{ lm}$$

$$\text{Total Light Output per Foot} = 729 \text{ lm/ft} \times 0.789 = 575 \text{ lm/ft}$$

$$\text{watts/foot} = 7.0 \text{ W/ft}$$

$$\text{Efficacy} = \frac{575 \frac{\text{lm}}{\text{ft}}}{7.0 \frac{\text{W}}{\text{ft}}} = 82 \text{ lm/W}$$

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High Performance 2" Aperture (HP-2) - Indirect

PHOTOMETRY - WIDESPREAD OPTIC (WSO)

HP-2-I-V-835-WSO

Very High Output - 4' Luminaire

Efficacy: 111 lumens per watt

Total luminaire output: 4018 lumens (1005 lumens/foot)
36.3 watts (9.1 watts/foot)

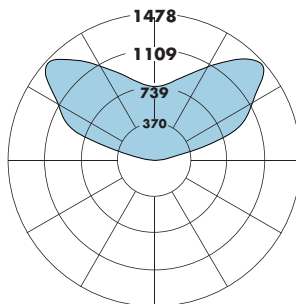
Peak Candela Value (uplight): 1457 @ 135°

CRI: 80

CCT: 3500K

ITL LM79 Report 89456.019

(Family correlated file)



CANDELA DISTRIBUTION						
	0.0	22.5	45	67.5	90	Flux
90	0	0	0	0	0	
95	47	83	83	69	68	92
105	183	258	532	556	458	434
115	324	409	720	993	1048	694
125	460	542	887	1257	1299	793
135	558	634	907	1299	1457	741
145	633	693	885	1127	1236	572
155	694	728	843	963	1012	393
165	736	749	793	837	853	226
175	756	758	763	768	770	73
180	759	759	759	759	759	

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire			
S*	B*	H*	V**
1645	2068	3125	4018

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S*	B*	H*	V**
411	517	781	1005

Power, 3500K, 80 CRI (Watts Per Foot)			
S*	B*	H*	V**
3.5	4.5	7.0	9.1

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S*	B*	H*	V**
116	115	112	111

S - Standard Output, **B** - Boosted Standard Output, **H** - High Output, **V** - Very High Output

* Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

** Based on ITL report: 89456

Lumen Adjustment Factors - 80 CRI	
3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors - 90 CRI	
3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H), 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

$$\begin{aligned} \text{Total Light Output} &= \\ 3125 \text{ lm} \times 0.789 &= 2466 \text{ lm} \end{aligned}$$

$$\begin{aligned} \text{Total Light Output per Foot} &= \\ 781 \text{ lm/ft} \times 0.789 &= 616 \text{ lm/ft} \end{aligned}$$

$$\text{watts/foot} = 7.0 \text{ W/ft}$$

$$\text{Efficacy} = \frac{616 \frac{\text{lm}}{\text{ft}}}{7.0 \frac{\text{W}}{\text{ft}}} = 88 \text{ lm/W}$$

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High Performance 2" Aperture (HP-2) - Indirect

PHOTOMETRY - ASYMMETRIC OPTIC (ASY)

HP-2-I-V-835-ASY-R

Very High Output - 4' Luminaire

Efficacy: 117 lumens per watt

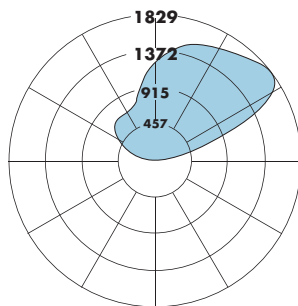
Total Luminaire Output: 4301 lumens (1075 lumens/foot)
36.8 watts (9.2 watts/foot)

CRI: 80

CCT: 3500K

ITL LM79 Report 89599.600

(Family correlated file)



CANDELA DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
Flux					
90	0	23	0	20	27
95	156	143	59	82	79
105	513	615	209	253	262
115	1389	1126	367	406	439
125	1821	1266	532	519	597
135	1760	1310	699	591	689
145	1654	1364	868	650	691
155	1583	1408	1027	735	702
165	1493	1379	1149	925	836
175	1318	1285	1214	1143	1108
180	1222	1222	1222	1222	1222

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire			
S*	B*	H*	V**
1761	2213	3345	4301

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S*	B*	H*	V**
440	553	836	1075

Power, 3500K, 80 CRI (Watts Per Foot)			
S*	B*	H*	V**
3.6	4.6	7.0	9.2

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S*	B*	H*	V**
122	121	119	117

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

* Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

** Based on ITL report: 89599

Lumen Adjustment Factors - 80 CRI	
3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors - 90 CRI	
3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H), 4000K, 90CRI

Lumen Adjustment Factor = 0.789

Total Light Output =
3345 lm x 0.789 = 2639 lm

Total Light Output per Foot =
836 lm/ft x 0.789 = 660 lm/ft

watts/foot = 7.0 W/ft

$$\text{Efficacy} = \frac{660 \frac{\text{lm}}{\text{ft}}}{7.0 \frac{\text{W}}{\text{ft}}} = 94 \text{ lm/W}$$



FINELITE

High Performance 2" Aperture (HP-2) - Indirect

SPECIFICATIONS

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

ENDCAPS: Flat diecast aluminum endcaps add 1/4" to each end of luminaire.

MITERED CORNERS: Illuminated 90° corners in a single plane, with Top Glow™ and Flush uplight diffuser options. Custom angles are available (90° minimum on inside corners), contact factory.

REFLECTORS: Die-formed 20-gauge cold-rolled steel reflectors are finished in 96 LG high reflectance matte white powder coat paint.

UPLIGHT OPTION: Patented Top Glow frost white diffuser standard. 12 ft. maximum diffuser length. 73% transmissive, 99% diffusion. Internal secondary diffusers at corners ensure visually seamless, uniform, continuous illumination. Optional: 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. See page 2.

LIGHT OUTPUT: Four lumen packages available, Standard (**S**), Boosted Standard (**B**), High (**H**), and Very High (**V**). A separate chart summarizes lumen distribution and wattage. Light engines are replaceable.

LUMEN MAINTENANCE: 90% of initial light output (L90) at 100,000+ hours; 70% of initial light output (L70) at 200,000+ hours.

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%. Dimming to 1% available; consult factory. Driver is fully accessible from below the ceiling. Power Factor: ≥0.9. Total Harmonic Distortion (THD) <20%. Expected driver lifetime: 100,000 hours. Dali driver also available; Contact factory.

LUMEN DRIVER OPTIONS: **LUTES1** (Hi-lume 1% EcoSystem with Soft-On, Fade to Black dimming (LDE1 series)); **LUTES5** (5-Series 5% EcoSystem (LDE5 Series)), **LUT2W** (Hi-lume 1% 2-wire, 120V forward phase dimming (LTEA series)); Contact factory for availability of discontinued Lutron drivers, L3DA-3-wire and L3DA EcoSystem..

ELECTRICAL: Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery. Factory-choice low-profile backup battery available. 8' minimum luminaire length for low profile battery pack. Backup batteries deliver 1874 lumens. Half of a 4' section will be illuminated in emergency mode.

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

MOUNTING: 50" Fully Adjustable (**FA**) plated steel aircraft cable with safety stop hardware standard. Contact factory for additional lengths up to 150".

FINISHES: Finelite Signal White powder coat standard. Optional Adders: 185 RAL colors.

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

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

LABELS: Fixture 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. Damp Location. 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 2011/65/EU.

WEIGHT: 2.3 lb/ft.

WARRANTY: 10-year performance-based warranty on all standard components. Optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.