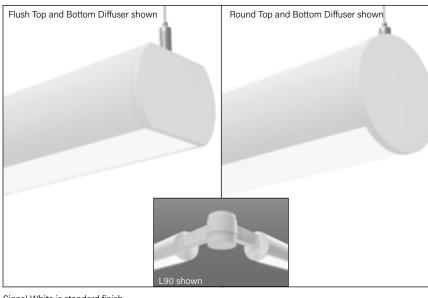
Submitted	bv
Submitteu	IJу

Type: Ordering Info: Project:

Date



# **HPO Product Family**

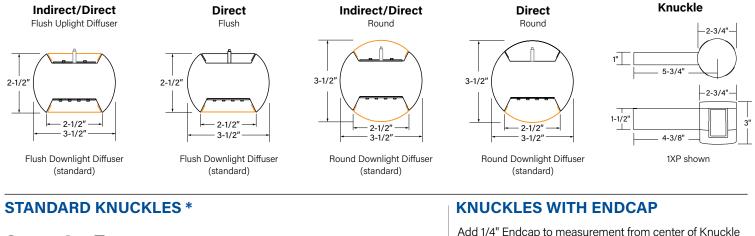


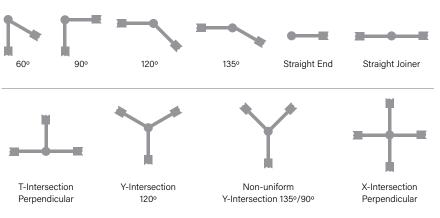
The High Performance 2.5" Aperture (HPO) is a patented LED linear luminaire with a round 3.5" micro profile and internal driver design. This line of light luminaire delivers excellent performance, and is equipped with a unique LED configuration for superior illumination. Output can be enhanced with advanced optical options. Available in Pendant Mount, HPO can be tailored from 2' to 12' sections in 1' increments. HPO Pendants includes Knuckle options to create unique geometric shapes.

This product is 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.

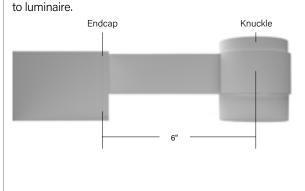
Signal White is standard finish

## **CROSS SECTIONS**





Add 1/4" Endcap to measurement from center of Knuckle



\* Each arm field adjustable 10° in either direction for 20° total range of motion.



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Type:

Project:

Ordering Info:

## **HPO Product Family**

Ordering Guide Example: HP - O - P - ID - 36' - S - S - 835 - F - F - 120 - DC - FC-10% - FA50 - C1 - FE - SW - LGD18W - OBO - CP

#### BODY TYPE

Date

Platform	Series Name	Luminaire Type	Luminaire Distribution	Total Run Length of Configuration
HP - High Performance	O - 3.5" Round 1	P - Pendant	D - Direct ID - Indirect/Direct	Minimum 2' section length. Increments of 1', 12' maximum section length Select Kunckle Leave length section blank and use "Standard Configuration" to specify size and shape. Total length to be calculated by factory.

#### OUTPUT and LED TYPE

#### MECHANICAL/OPTICAL OPTIONS

Uplight Output ID Only	Downlight Output	LED CRI/CCT <sup>2</sup>	Uplight Option ID Only	Downlight Option
<mark>S</mark> - Standard (443 lm/ft)	<mark>S</mark> - Standard (426 lm/ft)	830 - 80 CRI min, 3000K	TG - Top Glow (Standard)	F - Flush (Standard) 4
B - Boosted (557 lm/ft)	B - Boosted (535 lm/ft)	835 - 80 CRI min, 3500K	RT - Round Top (Standard) <sup>3</sup>	RB - Round Bottom
H - High (842 lm/ft)	H - High (809 lm/ft)	840 - 80 CRI min, 4000K	F - Flush Diffuser	(Standard) ⁵
V - Very High (1083 lm/ft)	V - Very High (1040 lm/ft)	930 - 90 CRI min, 3000K	WSO - Widespread Optic 4	
TL - Tailored:	TL - Tailored:	935 - 90 CRI min, 3500K	WSOTG - Widespread Optic with Top Glow 4	
Im/ft *	Im/ft *	940 - 90 CRI min, 4000K	ASYTG-L - Asymmetric Left Optic with Top Glow 4	
Lumen provided above are for Flush lens only, see only, <b>S</b> or <b>B</b> . No dual circuit or separate uplight/do		8TW - 80 CRI min, Tunable White	ASYTG-R - Asymmetric Right Optic with Top Glow <sup>4</sup>	

9TW - 90 CRI min, Tunable

White

with different outputs and dual circuit on luminaires 3ft and longer. \* Specify Tailored Im/ft of outputs between Standard (S) and Very High (V). Consult factory for tailored lumen output outside of this range.

#### ELECTRICAL OPTIONS

SC - Single Circuit\* FA50 - Fully Adjustable 50" 120 - 120 Voltage 0-10V Driver Options Lutron Driver Options (Standard) One single circuit in a run FC-10% - 0-10V 10% (standard) LUT-ES1 - Lutron, Ecosystem 1% 277 - 277 Voltage DC - Dual Circuit\* LUT-TW - Lutron T-Series, EcoSystem 0.1% (Tunable White) FA100 - Fully Adjustable 100" FC-1% - 0-10V 1% 347 - 347 Voltage Independent control of up and down separately in an I/D OTi-10% - Eldol ED OTi, 0-10V 10% 347 Voltage not available for Knuckle options. FA150 - Fully Adjustable 150" OTi-1% - EldoLED OTi, 0-10V 1% 8 FA200 - Fully Adjustable 200" style fixture ELD-10V-0% - EldoLED SOLOdrive, 0-10V 0.1% MC - Multi Circuit\* FA250 - Fully Adjustable 250" 10V-TW-10% - EldoLED OTi, 0-10V 10% (Tunable White) <sup>8</sup> More than one switch leg or zone (not 'DC' indepedent FA300 - Fully Adjustable 300" control of up and down separately for an I/D style fixture). Factory shop drawings FM - Flexible Mounting <sup>9</sup> **DALI Driver Options** FC-DALI-1% - DALI 1% required DXL-DALI-1% - EldoLED Dexal, 1% See Page 3 for additional driver options and details \*Battery, Night Light, and ELD-DALI-0% - EldoLED SOLOdrive, DALI 0.1% Emergency to Generator circuits are in addition to the normal luminaire circuit(s) ELD-DALI-TW - EldoLED Dual Drive Light Shape, 0.1% (Tunable White)

#### MOUNTING OPTIONS

Ceiling Hardware Type	Endcap Style	Emergency Style (Optional) See page 5 Backup Battery table	Integrated Sensor	(Optional) <sup>13</sup>	Special Options (Optional)
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) <sup>19</sup> RE - Round Endcap (Standard) <sup>11</sup> Finish SW - Signal White (Standard) FB - Finelite Black SA - Satin Aluminum	LGD18W - Legrand 18W Brand Battery Back-up <sup>19</sup> 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	OBO - Occupancy OBD - Daylight W601 - Wattstopper Sensor <sup>14</sup> OBE - Enlighted Sensor <sup>15</sup> REE - Remote Enlighted <sup>19</sup> CLM-99 - Encelium RF SLM-99 - Encelium Sensor	AOCC-W - Lutron Athena Sensor <sup>16</sup> (Device Color White) AOCC-B - Lutron Athena Sensor <sup>16</sup> (Device Color Black) ARF-W - Lutron Athena RF <sup>16</sup> (Device Color White) ARF-B - Lutron Athena RF <sup>16</sup> (Device Color Black) VOCC - Lutron Vive Sensor <sup>17</sup>	CP - Chicago Plenum <sup>18</sup> RLA - Red List Approved RLD - Red List Declared
	#### - RAL Color Code 12			VRF - Lutron Vive RF 17	

OTHER OPTIONS

#### OTHER OPTIONS

	Standard Configurations (see page 6 - 7)	
SQ xx 4L90 - Square	CRS x x x x 1XP - Cross <sup>19</sup>	x L120 x "L" Shape with 120°
REC xx 4L90 - Rectangle	YINT xx 1Y120 - 120° Y-Intersection 19	x L135 x "L" Shape with 135°
TRI xx 3L60 - Triangle	YINT x x 1Y135/90 - Non-uniform Y-Intersection 19	E180 - Single Knuckle
HEX xx 6L120 - Hexagon	x L60 x "L" Shape with 60°	CFG - Configuration 20
OCT xx 8L135 - Octagon	x L90 x "L" Shape with 90°	Select CFG when specifying custom configuration. Please
PLS xx 1XP - Plus	E180 x x E180 - Straight	provide plan drawings to clearly communicate.
T x x x TP - T Configuration		
<ul> <li><sup>1</sup> Diameter 3.5°, 2.5° tall with Flush uplight and downlight diffusers dii</li> <li><sup>2</sup> Tunable white is not available with Knuckle</li> <li><sup>3</sup> Only available with Round Bottom diffuser</li> <li><sup>4</sup> Not available with Round Top diffuser</li> <li><sup>6</sup> Only available with Round Top diffuser</li> <li><sup>6</sup> Only available with Round Top diffuser</li> <li><sup>6</sup> Contact factory for switching options</li> <li><sup>7</sup> For Indirect/Direct lengths 3' and greater, separate dimming for upl and downlight available</li> </ul>	<ul> <li>Direct only</li> <li>Not available with Round Top and Bottom diffusers</li> <li>Only available with Round Top and Bottom diffusers</li> <li>20 Business day lead time for color</li> <li>Minimum 8tr required</li> </ul>	*0-10V Drivers - AOCC up to 10 drivers may be connected: ARF up connected. DALI Drivers - AOCC & ARF up to 4 drivers can be con " Lutron Vive Ingrated Sensors require a DALI driver. *0 Ohy available with C1, C2, and C3 mounting hardware with Finelite " Require 2 power feed locations

For Indirect/Direct lengths 3' and greater, separate dimming for uplight and downlight available

- - 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

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#### MOUNTING OPTIONS



Type: Ordering Info:



## **HPO Product Family**

## 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)		
10V-TW-10%	EldoLED OTi, 0-10V 10% Dimming, <b>Tunable White (Linear)</b>		
10V-TW-10%-DTO	EldoLED OTi, 0-10V 10% Dimming, Dim-to-Off, Tunable White (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)		
ELD-DALI-TW	EldoLED DUALdrive Light Shape, DALI 1% Dimming, <b>Tunable White</b> (Logarithmic Dimming, Linear CCT Control)		

Lutron Driver Options		
LUT-ES1	Lutron, Ecosystem 1% Dimming	
LUT-TW	Lutron T-Series, EcoSystem 1% Dimming, Tunable White	



## **HPO Product Family**

### **Specifications**

### **BODY TYPE**

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

LENGTHS: Any length, 2' minimum section length. Increments of 1'. 12' maximum section length. For Indirect/Direct, select a minimum body length of 3' or greater when requiring dual circuiting or when uplight and downlight outputs differ.

### **ARRAY TYPE**

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. For Tailored Outputs outside of range from Standard (S) to Very High (V), consult factory. Light engines are replaceable.

#### **MECHANICAL FEATURES**

UPLIGHT OPTION: Flush (F) or Rounded Top (RT) Frost White Diffuser, standard. 12' maximum diffuser length. Also available with patented Top Glow (TG). Optical distribution pattern options include Widespread Optic (WSO/WSOTG)<sup>1</sup>; WSO enables increased luminaire spacing with improved ceiling uniformity, and Asymmetric (ASYTG-L / ASYTG-R)<sup>1</sup>. Asymmetric optic directs light in a specific direction. ASYTG-L distributes light to the left, ASYTG-R distributes light to the right of the luminaire. Consult factory for more tailored lumen outputs.

DOWNLIGHT OPTION: 12' maximum diffuser length. Flush (F) or Rounded (RB) frost white snap-in diffuser; 73% transmissive, 99% diffusion. Consult factory for more tailored lumen outputs.

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

### **ELECTRICAL FEATURES**

STATIC WHITE FEED: 18-gauge/5-conductor single-circuit feed, standard. 14-gauge feed used when luminaire current exceeds 5 amps (14-gauge plug together connection not available on Knuckle arms).

TUNABLE WHITE FEED: Standard with one 18-gauge/5-conductor single-circuit feed. 14-gauge feed used when fixture current exceeds 5 amps. Tunable White is not available with Knuckle installations.

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%. Dimming to 1% available; Consult factory. Separate dimming for uplight and downlight available. Driver is fully accessible from below the ceiling. - Power Factor:  $\geq 0.9$ 

- Total Harmonic Distortion (THD): <20%
- Expected driver lifetime: 100,000 hours

Indirect/Direct (ID) only <sup>2</sup> Direct (D) only

#### LUTRON STATIC DRIVER OPTIONS:

- LUTES1 (LDE1) - Hi-lume 1% EcoSystem with Soft-On, Fade-to-Black dimming (LDE1 series)

TUNABLE WHITE DRIVER: Replaceable LED driver. Driver is accessible from below the ceiling. 120V/277V.

- Power factor:  $\geq 0.9$
- Total Harmonic Distortion (THD): <20%
- Dimming Range: 100 1%
- Expected driver lifetime: 100,000 hours

LUTRON TUNABLE WHITE DRIVER OPTION: LUT-TW 1% T-Series 2-Channel Digital Tunable White (PSQ Series).

### **MOUNTING TYPE**

HANGING HARDWARE: 50" Fully Adjustable (FA) plated steel aircraft cable with safety stop hardware standard. Contact factory for additional lengths up to 150". The Flexible Mounting Bracket (FM)<sup>2</sup> adjusts the suspension points to accommodate existing architecture. Suspension points adjust up to 2' in from the end of 8' to 12' fixture lengths and up to 1' in on shorter lengths.

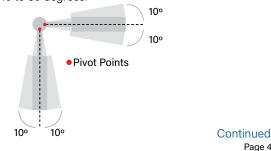
### **OTHER FEATURES**

ENDCAPS: Flat diecast aluminum endcaps add 1/4" to each end of luminaire. Knuckle endcaps include attachments brackets for easy installation.

#### ALL KNUCKLES:

- Mounting: Knuckle with Endcap adds 6" per Knuckle to overall length of suspension-to-suspension spacing. Knuckle is designed for use with Pendant mounted HPO.
- Power Feed: Our Standard Configurations are available with a single 18/5 feed into 1 or 2 arm Knuckle. 3 and 4 arm Knuckles do not accept power feeds. EM feeds will be in the luminaire section adjacent to the Knuckle. Consult factory for available options regarding feeds, multiple circuits, and emergency wiring. Feed locations will be confirmed on the shop drawings.
- **Standard Configurations:**

See pages 1 & 7-9 for various standard angles with 1, 2, 3, and 4 arms. Each arm can be field adjusted +/-10 degrees for a total of 20 degrees. For example, L90, accommodates angles of 70 to 110 degrees; L60, accommodates 40 to 80 degrees.



Ordering Info

# **HPO Product Family**

## SPECIFICATIONS

**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		
HPO-P-D				
Min. Housing Length	8'*	8'*		
EM Lumen Output	2024	1202		
EM Section Illuminated	2'	2' or 4'		
HPO-P-ID				
Min. Housing Length	12'	8'		
EM Lumen Output	2024	1202		
EM Section Illuminated	2'	2' or 4'		

\* Minimum fixture housing length for battery pack approved without sensor

\*\* Exception: 5' not available, 6' + okay The lumens are based on 835. For other CCT/CRI, refer to the Lumen Adjustment Factor table on page 10.

### TUNABLE WHITE ELECTRICAL OPTIONS:

- TW Driver Options 0-10V: EM/GEN, GTD, or Battery Back-up
- DALI: EM/GEN, GTD, or Battery Back-up
- LUTRON: EM/GEN, GTD, or Battery Back-up

**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 with a sensor is 4ft.

**FINISHES:** Finelite Signal White (**SW**) powder coat standard. Finelite Black (RAL 9005) with semi gloss fine texture (**FB**) and Satin Aluminum (**SA**) are available. Optional Adders: 179 RAL colors.<sup>3</sup>

**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, contact factory for more details. 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. HPO can be used to comply with 2016 Title 24, Part 6 (JA8); high efficacy LED light source requirements. 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: 2.8 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.

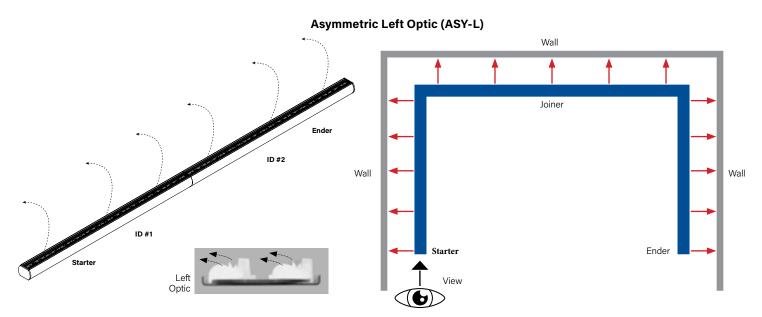
<sup>a</sup> Enlighte components installed by Finelite; provided by other <sup>4</sup> 20 Business day lead time for color



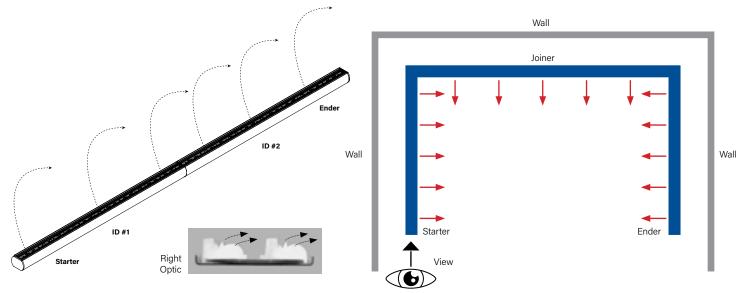
Submitted by:		Date:	
Туре:	Project:		
Ordering Info:		Better Lighting	

### **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)



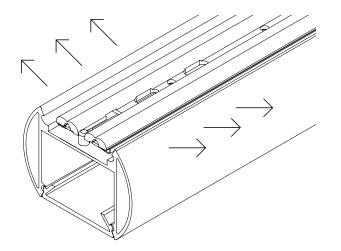
Submitted by:		Date:	<b>FINELITE</b> ®
Туре:	oject:		
Ordering Info:			Better Lighting

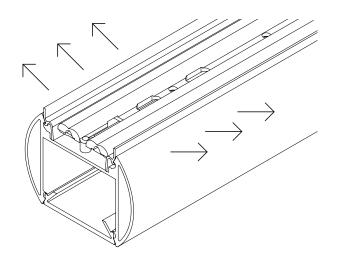
## WIDESPREAD OPTIC OPTIONS

Wide Spread Optic (WSO) delivers a batwing distribution for improved performance.

Widespread Optic (**WSO**)

Widespread Optic Top Glow (WSOTG)





<sup>3</sup> Used for Dual Circuit Designs	
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## **HPO Product Family**

## **STANDARD CONFIGURATION EXAMPLES 1, 2**

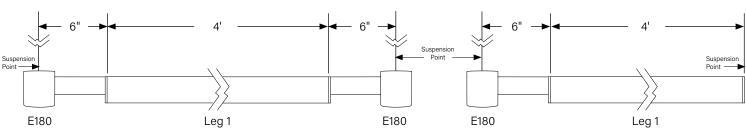
Luminaires can be join by traditional joint or Knuckle joint for longer runs to fit your design needs. EM feeds will drop on the knuckle adjacent to the luminaire section.

### **Support to Support Location Example** E180 x 4' x E180

Submitted by:

Ordering Info:

Type:



Potential location for joining note near " L " configuration example on page 9.

#### \_\_\_\_ x 2E180 STR x

Straight - Provide Leg 1 dimension

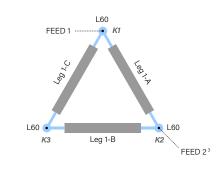
Example - STR x 4' x 2E180





TRI x x 3L60 Triangle - Provide Leg 1 dimension

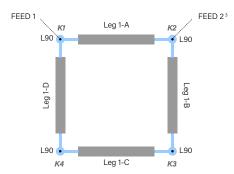
Example - TRI x 4' x 3L60



SQ x \_\_\_\_\_ x 4L90 Square - Provide Leg 1 dimension

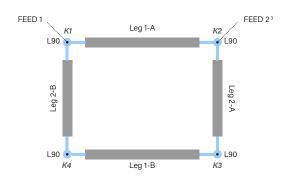
### Example - SQ x 4' x 4L90

• = Suspension Points <sup>1</sup> Drawings are not to scale <sup>2</sup> 2' minimum length for linear sections



\_\_\_\_\_ x \_\_\_\_\_ x 4L90 REC x \_\_\_\_ Rectangle - Provide Leg 1, Leg 2 dimension

### Example - REC x 6' x 4' x 4L90





Submitted by:	
Туре:	

Ordering Info:

Date:

Х



x 1XP

## **HPO Product Family**

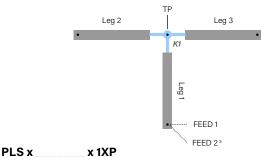
## **STANDARD CONFIGURATION EXAMPLES 1, 2**

Luminaires can be join by traditional joint or Knuckle joint for longer runs to fit your design needs. EM feeds will drop on the knuckle adjacent to the luminaire section.

#### \_\_\_\_X \_\_\_ Тх\_\_\_\_ \_\_ x 1Y120 X

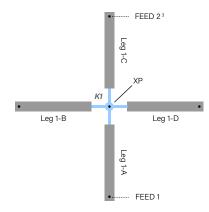
T-Intersection - Provide Leg 1, Leg 2, Leg 3 dimension

#### *Example* - T x 4' x 4' x 4' x 1Y120



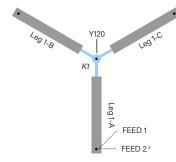
Plus - Provide Leg 1 dimension

Example - PLS x 4' x 1XP



\_\_\_\_\_ x 1Y120 YINT x Y-Intersection - Provide Leg 1 dimension

Example - YINT x 4' x 1Y120



• = Suspension Points

<sup>1</sup> Drawings are not to scale <sup>2</sup> 2' minimum length for linear sections

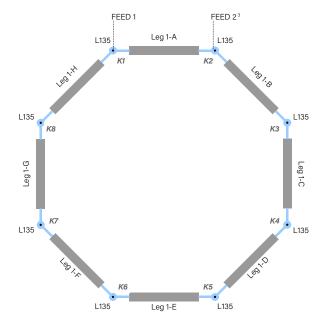
<sup>3</sup> Used for Dual Circuit Designs

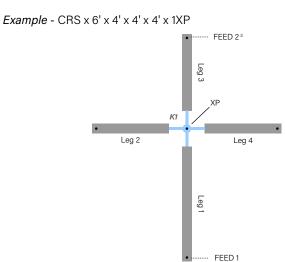
CRS x





Example - OCT x 4' x 8L135





\_\_\_\_X\_\_\_\_X\_

CRS - Provide Leg 1, Leg 2, Leg 3, and Leg 4 dimension

Submitted by:		Date:	FINF
Туре:	Project:		
Ordering Info:			Better 1

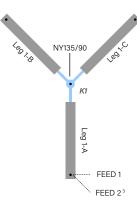
## **STANDARD CONFIGURATION EXAMPLES 1, 2**

Luminaires can be join by traditional joint or Knuckle joint for longer runs to fit your design needs. EM feeds will drop on the knuckle adjacent to the luminaire section.

### YINT x \_\_\_\_\_ x 1NY135/90

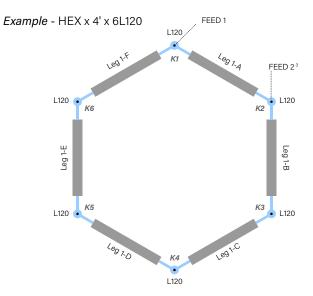
Y-Intersection - Provide Leg 1 dimension

#### Example - YINT x 4' x 1NY135/90



HEX x \_\_\_\_\_ x 6L120

Hexagon - Provide Leg 1 dimension

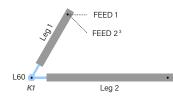


Luminaires can be join by traditional joint or Knuckle joint for longer runs to fit your design needs.

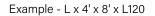
L x \_\_\_\_\_ x \_\_\_\_ x L60

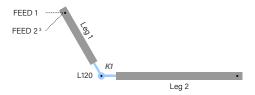
L Shape - Provide Leg 1 and Leg 2 dimension

Example - L x 4' x 8' x L60



L x \_\_\_\_\_ x \_\_\_\_ x L120 L Shape - Provide Leg 1 and Leg 2 dimension





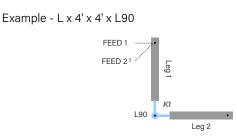
• = Suspension Points

<sup>1</sup> Drawings are not to scale <sup>2</sup> 2' minimum length for linear sections

<sup>3</sup> Used for Dual Circuit Designs

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\_\_\_\_ x L135 \_\_ x \_\_\_\_ Lx\_\_ L Shape - Provide Leg 1 and Leg 2 dimension

Example - L x 4' x 12' x L135

L x \_\_\_\_\_ x \_\_\_\_ x L90

L Shape - Provide Leg 1 and Leg 2 dimension



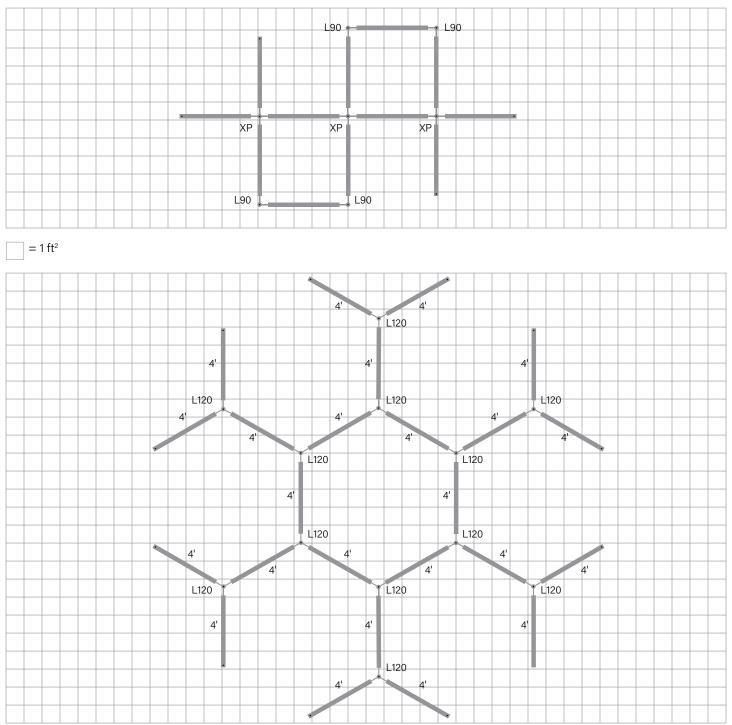
Date:		<b>FINFLITE</b>
Project:		
		Better Lighting
-		Date:

## CUSTOM CONFIGURATION EXAMPLE <sup>1, 2</sup>

### 99CFG

Custom Configuration - Please provide a sketch or drawing showing desired configurations.

#### Examples



#### • = Suspension Points

<sup>1</sup> Drawings are not to scale <sup>2</sup> 2' minimum length for linear sections

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Ordering Info:

# **HPO Product Family**

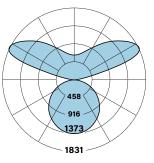
### Indirect/Direct Flush with Widespread **Optic Photometry** 4' Luminaire 3500K

HPO-P-ID-V-V-835-WSO-F

Uplight: Widespread Optic / Downlight: Flush

Distribution: 51% Up (V) / 49% Down (V) Efficacy: 119 lm/W Uplight: 4223 lumens (1055 lumens/ft) Downlight: 4005 lumens (1001 lumens/ft) Total luminaire output: 8228 lumens

69.0 watts Peak Candela Value: 1831 @ 115° CRI: 80 / CCT: 3500K ITL LM79 Report 92549



	Total Light Output, 3500K, 80 CRI (Lumens)- 4' Luminaure					
	↑ <b>S</b> ¹	↑B¹	↑ <b>H</b> ¹	1 <b>V</b> ²		
↓S¹	3368 [†51%   49%↓]	3813 [†57%   43%J]	4924 [†67%   33%↓]	5862 [†72%   28%↓]		
↓B¹	3790 [†46%   54%↓]	4234 [†51%   49%↓]	5346 [↑61%   39%↓]	6284 [167%   33%↓]		
↓H¹	4844 [136% 64%J]	5288 [†41%   59%↓]	6400 [†51%   49%↓]	7338 [†58%   42%↓]		
↓ <b>V</b> ¹	5734 [↑30% 70%↓]	6179 [†35% 65%↓]	7290 [145%   55%]]	8228 [151%   49%]		

Light Output, 3500K, 80 CRI (Lumens Per Foot)					
	↑ <b>S</b> ¹	↑B¹	↑ <b>H</b> ¹	↑ <b>V</b> ²	
↓S¹	842	953	1231	1466	
↓B¹	947	1059	1336	1571	
↓H¹	1211	1322	1600	1835	
↓V¹	1433	1545	1822	2057	

Power, 3500K, 80 CRI (Watts Per Foot)					
	↑S¹	↑ <b>B</b> ¹	↑ <b>H</b> ¹	↑ <b>V</b> ²	
↓S¹	6.8	7.7	10.0	12.0	
↓B¹	7.7	8.6	10.9	12.9	
↓H¹	10.0	10.9	13.2	15.2	
↓V¹	12.0	12.9	15.2	17.3	

Efficacy, 3500K, 80 CRI (Lumens Per Watt)					
	↑ <b>S</b> ¹	↑B¹	↑ <b>H</b> ¹	↑ <b>V</b> ²	
↓S¹	125	124	123	122	
↓B¹	124	123	123	122	
↓H¹	121	121	121	120	
↓V¹	119	120	120	119	

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

<sup>1</sup> Based on 4<sup>1</sup> luminaire 3500K Very High Output (**V**) test - 120V. <sup>2</sup> Based on ITL report: 92549

-Sample Lumen Adjustment Calculation-

Lumen Adjustment Factors 80 CRI		Lumen Adjustme	ent Factors 90 CRI
3000K	0.985	3000K	0.746
3500K	1.000	3500K	0.760
4000K	1.032	4000K	0.789
			÷

Indirect/Direct Round Photometry

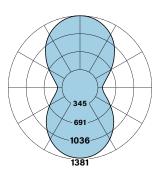
4' Luminaire 3500K

HPO-P-ID-V-V-835-RT-RB Uplight: Round Top / Downlight: Round Bottom

Distribution: 51% Up (V) / 49% Down (V) Efficacy: 123 lm/W Uplight: 4331 lumens (1079 lumens/ft) Downlight: 4159 lumens (1040 lumens/ft) Total luminaire output: 8490 lumens 69.0 watts

Date

Peak Candela Value: 1381 @ 180° CRI: 80 / CCT: 3500K ITL LM79 Report 93792



FINELITE

**Better Lighting** 

Total Light Output, 3500K, 80 CRI (Lumens)- 4' Luminaure					
	↑S¹	↑B¹	↑ <b>H</b> ¹	↑ <b>V</b> ²	
↓S¹	3475 [†51%   49%↓]	3931 [↑57%   43%↓]	5071 [↑66%   34%↓]	6034 [†72%   28%↓]	
↓B¹	3913 [†45%∣55%↓]	4369 [†51%   49%↓]	5509 [†61%   39%↓]	6471 [†67%   33%↓]	
↓H¹	5008 [†35%   65%↓]	5464 [†41%   59%↓]	6603 [†51%   49%↓]	7566 [↑57%   43%↓]	
↓V¹	5932 [130%   70%]]	6388 [†35% 65%↓]	7528 [↑45%   55%↓]	8490 [↑51%   49%↓]	

Light Output, 3500K, 80 CRI (Lumens Per Foot)					
	∱S¹	↑B¹	↑ <b>H</b> ¹	↑ <b>V</b> ²	
↓S¹	869	983	1268	1508	
↓B¹	978	1092	1377	1618	
↓H¹	1252	1366	1651	1891	
↓V¹	1483	1597	1882	2123	

Power, 3500K, 80 CRI (Watts Per Foot)					
	↑S¹	↑B¹	↑ <b>H</b> ¹	↑ <b>V</b> ²	
↓S¹	6.8	7.7	10.0	12.0	
↓B¹	7.7	8.6	10.9	12.9	
↓ <b>H</b> ¹	10.0	10.9	13.2	15.2	
↓ <b>V</b> ¹	12.0	12.9	15.2	17.3	

	Efficacy, 3500K, 80 CRI (Lumens Per Watt)								
$\uparrow S^1$ $\uparrow B^1$ $\uparrow H^1$ $\uparrow V^2$									
↓S¹	129	128	127	126					
↓B¹	128 127		126	125					
↓H¹	125	125	125	124					
↓V <sup>1</sup>	124	124	124	123					

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

High Output (H) / Standard Output (S), 4000K, 90 CRI

Lumen Adjustment Factor: 0.789

Total Light Output: 4924 lm x 0.789 = 3885 lm

Total Light Output per Foot: 1231 lm/ft x 0.789 = 971 lm/ft. watts/foot: 10.0 W/ft. Im

Efficacy = 
$$\frac{971 \frac{1111}{\text{ft.}}}{10.0 \frac{\text{W}}{\text{ft.}}} = 97 \text{ lm/W}$$

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## FINELITE **Better Lighting**

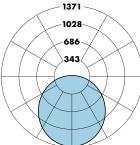
# **HPO Product Family**

## Direct Flush - 4' Luminaire 3500K

HPO-P-D-V-835-F

Efficacy: 120 lm/W Total luminaire output: 4011 lumens (1003 lumens/ft) 33.5 watts (8.4 watts/ft)

Peak Candela Value: 1371 @ 0° CRI: 80 / CCT: 3500K ITL LM79 Report 92552

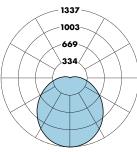


## Direct Flush - 4' Luminaire 3500K

## HPO-P-D-V-835-RB

Efficacy: 120 lm/W

Total luminaire output: 4189 lumens (1047 lumens/ft) 33.4 watts (8.4 watts/ft) Peak Candela Value: 1337 @ 0° CRI: 80 / CCT: 3500K ITL LM79 Report 93795



Total Lig	ht Output, 3500K, 80	) CRI (Lumens) - 4' Lu	minaure
S <sup>1</sup>	<b>B</b> <sup>1</sup>	H <sup>1</sup>	<b>V</b> <sup>2</sup>
1642	2064	3120	4011

Liç	ht Output, 3500K, 80	) CRI (Lumens Per Fo	ot)
S <sup>1</sup>	B1	H1	V <sup>2</sup>
410	516	780	1003

	Power, 3500K, CRI (Watts Per Foot)								
S <sup>1</sup>	S <sup>1</sup> B <sup>1</sup> H <sup>1</sup> V <sup>2</sup>								
3.3	4.2	6.4	8.4						

Efficacy, 3500K,	80 C	RI (Lumens Per Watt)	

S <sup>1</sup>	B1	H <sup>1</sup>	<b>V</b> <sup>2</sup>
125	124	121	120

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output <sup>1</sup> Based on 4' luminaire 3500K Very High Output (V) test - 120V. <sup>2</sup> Based on ITL report: 92552

3000K

3500K

4000K

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaure						
S <sup>1</sup>	B1	H1	<b>V</b> <sup>2</sup>			
1715	2156	3258	4189			

Light Output, 3500K, 80 CRI (Lumens Per Foot)							
S <sup>1</sup>	B1	H1	V <sup>2</sup>				
429	539	815	1047				

Power, 3500K, CRI (Watts Per Foot)						
S <sup>1</sup>	B1	H1	<b>V</b> <sup>2</sup>			
3.3	4.2	6.4	8.4			

Efficacy, 3500K, 80 CRI (Lumens Per Watt)								
S <sup>1</sup>	<b>S</b> <sup>1</sup> <b>B</b> <sup>1</sup> <b>H</b> <sup>1</sup> <b>V</b> <sup>2</sup>							
131	130	127	125					

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output <sup>1</sup>Based on 4' luminaire 3500K Very High Output (V) test - 120V.

<sup>2</sup> Based on ITL report: 93795

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

0.746

0.760

0.789

-Sample Lumen Adjustment Calculation-Lumen Adjustment Factors 80 CRI Lumen Adjustment Factors 90 CRI

3000K

3500K

4000K

High Output (H), 4000K, 90 CRI Lumen Adjustment Factor: 0.789 Total Light Output: 3120 lm x 0.789 = 2462 lm Total Light Output per Foot: 780 lm/ft x 0.789 = 615 lm/ft. watts/foot: 6.4 W/ft.

$$\text{Efficacy} = \frac{615 \frac{\text{Im}}{\text{ft.}}}{6.4 \frac{\text{W}}{\text{ft.}}} = 96 \text{ Im/W}$$

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0.985

1.000

1.032

Submitted by:	
Туре:	
Ordering Info:	

Ordering Info

## **0-10V Tunable White**

Apply a power adjustment factor to calculate wattage usage

(Example: a 50 watt luminaire in static white would draw 55 watts using 0-10V Tunable White)

WIRING DIAGRAM - DIMMABLE TO 10%

**CONVERSION FACTOR** 

1.1X

Finelite's award-winning, contractor friendly Tunable White luminaires are available at low cost, with powerful and simple 0-10V tuning and intensity controls.

## **TUNABLE WHITE FEATURES**

• CCT range: 2700K - 6500K

**PHOTOMETRY** 

POWER

- Dimming Range: 100% to 10%
- CRI Options: 80 CRI or 90 CRI

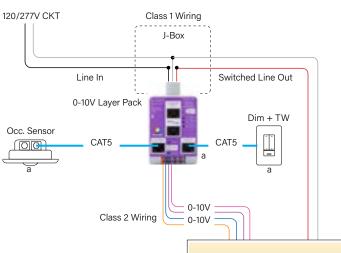
## **TUNABLE WHITE LUMINAIRE FAMILY MODIFICATIONS/RESTRICTIONS**

Date

	Section Lengths										
Direct	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'
Output S,B,H,V Single Circuit		Rows can be comprised of 2'-12' sections.									
Integral Battery Backup (BSL310LP)							$\checkmark$		$\checkmark$		$\checkmark$
Indirect/Direct											
Output S,B Single Circuit	$\checkmark$		$\checkmark$		$\checkmark$		$\checkmark$		$\checkmark$		$\checkmark$
Integral Battery Backup (BSL310LP)							$\checkmark$		$\checkmark$		$\checkmark$
Output H,V Single Circuit			$\checkmark$				$\checkmark$				$\checkmark$
Integral Battery Not Available		R	emote				solut ctory.		/ailab	le.	
Output S,B,H,V Dual Circuit			$\checkmark$				$\checkmark$				$\checkmark$
Integral Battery Not Available		R	emote				solut		/ailab	le.	

ns available for all body lengt

### **DUAL FEED DETAIL**



General Lighting Zone

а

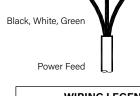
### Luminaire Wiring

- Purple (+) / Pink (-) control wires are for intensity control
- Orange (+) / Blue (-) control wires are for Tunable White control

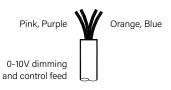
### Note:

Load or Dim to Off options available.





WIRING LEGEND		
Black	Hot	Line Voltage
White	Neutral	Line Voltage
Green	Ground	



WIRING LEGEND		
Pink	Dimming	0-10V DC
Purple	Dimming	0-10V DC
Orange	TW	0-10V DC
Blue	TW	0-10V DC

