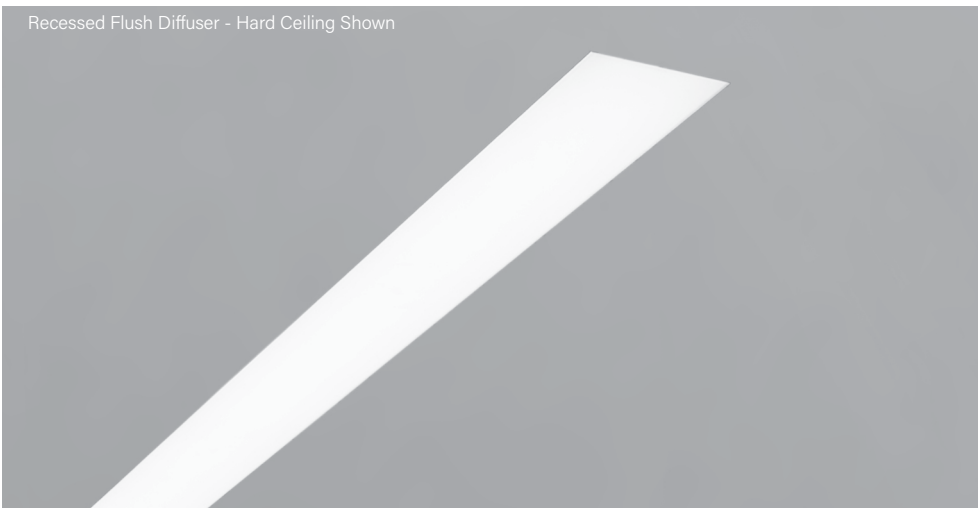


Submitted by:		Date:
Type:	Project:	
Ordering Info:		

# High Performance 4" Aperture (HP-4) Recessed

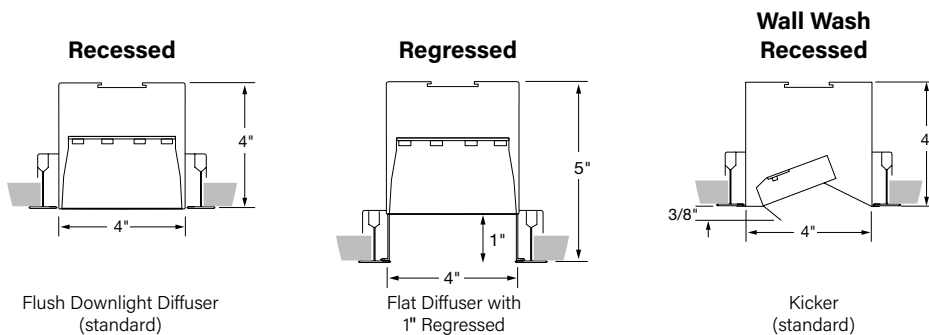


High Performance 4" Aperture is a patented, linear LED luminaire family. HP-4 delivers excellent performance using an advanced optical design and mid-power LEDs deliver uniform illumination with a clean aesthetic, while adaptable for a wide range of applications and spaces. 10-year performance-based warranty on all standard components.

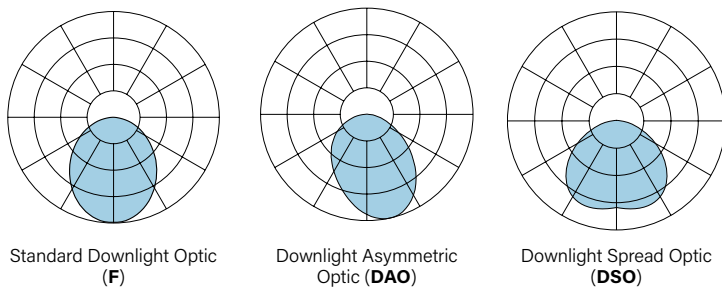
This product is enrolled in the International Living Future Institute (ILFI) Declare 2.0 Program and is third-party verified with options achieving **Red List Approved** and **Red List Declared** status.

**Note:** see page 6 for all aesthetic options

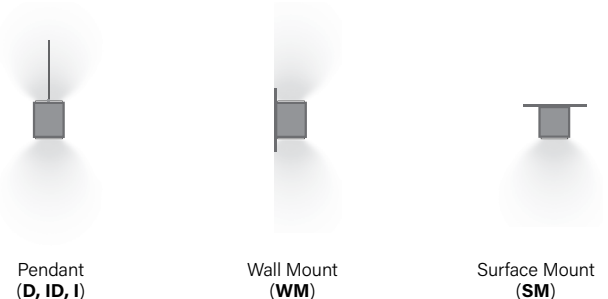
## CROSS SECTIONS



## OPTIC OPTIONS



## ALSO AVAILABLE IN



**Declare.**



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

# High Performance 4" Aperture (HP-4) Recessed

Ordering Guide Example: HP - 4 - R - D - 36' - S - 835 - F - 96LG - 120 - SC - FC-10% - C1 - FE - SW - LGD18W - OBO1 - CP - SQ2

## BODY TYPE

## OUTPUT and LED TYPE

Platform	Series Name	Luminaire Type	Luminaire Distribution	Total Length of Run	Downlight Output (Flush)	LED CRI/CCT
HP - High Performance	4	R - Recessed R RG - Recessed Regressed (Wall Wash not available)	D - Direct WW-D - Wall Wash Direct	Minimum 2' section length. Increments accurate to 1/16" (±1/32"), standard. 12' maximum section length.	S - Standard (381 lm/ft) B - Boosted (479 lm/ft) H - High (725 lm/ft) V - Very High (932 lm/ft) TL - Tailored: _____ lm/ft*	830 - 80 CRI, 3000K 835 - 80 CRI, 3500K 840 - 80 CRI, 4000K 930 - 90 CRI, 3000K 935 - 90 CRI, 3500K 940 - 90 CRI, 4000K 8TW - 80 CRI, Tunable White 9TW - 90 CRI, Tunable White

Lumen provided above are for Flush lens only, see pg. 11 for WW lumens. \* Specify Tailored lm/ft of outputs between Standard (S) and Very High (V). Consult factory for tailored lumen output outside of this range.

## MECHANICAL/OPTICAL OPTIONS

## ELECTRICAL OPTIONS

Downlight	Reflector System	Voltage	Circuiting <sup>4</sup>	Driver Selection
F - Flush (standard) DL - 1" Drop Down Lens DAO - Downlight Spread Optic <sup>2,8</sup> DAO-L - Downlight Asymmetric Optic Left <sup>2,8</sup> DAO-R - Downlight Asymmetric Optic Right <sup>2,8</sup> FO - Fully Open for Wall Wash only K - Kicker for Wall Wash only <sup>3</sup> RG-D - Flat Diffuser with 1" Regress <sup>1</sup> RG-WCB - White Cross Blade Baffle <sup>1</sup> RG-LHE - Hollowed Ellipse Louver <sup>1</sup> RG-LHC - Hex Louver <sup>1</sup>	96LG - 96 Low Gloss White SSA - Semi-Specular Aluminum for Wall Wash only	120 - 120 Voltage 277 - 277 Voltage 347 - 347 Voltage (OTi only)	SC - Single Circuit*	<b>0-10V Driver Options</b> FC-10% - 0-10V 10% (standard) FC-1% - 0-10V 1% OTI-10% - EldoLED OTi, 0-10V 10% <sup>5</sup> OTI-1% - EldoLED OTi, 0-10V 1% <sup>5</sup> ELD-10V-0% - EldoLED SOLOdrive, 0-10V 0.1% 10V-TW-10% - EldoLED OTi, 0-10V 10% (Tunable White) <sup>5</sup> <b>DALI Driver Options</b> FC-DALI-1% - DALI 1% DXL-DALI-1% - EldoLED Dexal, 1% ELD-DALI-0% - EldoLED SOLOdrive, 0.1% ELD-DALI-TW - EldoLED DUALdrive LightShape, 0.1% (Tunable White)

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

## ELECTRICAL OPTIONS

## MOUNTING OPTIONS

## OTHER OPTIONS

Driver Selection	Ceiling Hardware Type	Endcap Style	Emergency Style (Optional) See page 5 Backup Battery table
<b>DMX Driver Options</b> ELD-DMX - EldoLED POWERdrive, 0.1% ELD-DMX-TW - EldoLED POWERdrive, 0.1% (Tunable White)  <b>Lutron Driver Options</b> LUT-ES1 - Lutron, Ecosystem 1% LUT-TW - Lutron LD2 Dali-2 1% (Tunable White)	C1 - 15/16" T-Bar C1T - 15/16" Tegular C2 - 9/16" T-Bar C2T - 9/16" Tegular C3 - Screw Slot C3F - Flush Screw Slot SF - Spackle Flange VF - Visible Flange TZ6 - Tech Zone 6" (C1, C2, C2T, C3, C3F) See page 10 for flange information	FE - Flat Endcap (standard) DE - 1" Drop Endcap  Finish  SW - Signal White (standard) FB - Finelite Black <sup>6</sup> SA - Satin Aluminum <sup>6</sup> #### - RAL Color Code <sup>7</sup>	LGD18W - Legrand 18W Brand Battery Back-up LGD10W - Legrand 10W Brand Battery Back-up EM/GEN - Emergency to Generator NL - Night Light BSL722 - Bodine Battery Back up BSL310LP - Bodine Battery Back up Low Profile GTD - Generator Transfer Device <sup>16</sup> ALCR - Automatic Load Control Relay <sup>16</sup> RRU - Shunt Relay for 0-10V See Backup Battery table on page 5 for fitment limitations

See Page 3 for additional driver options and details

## OTHER OPTIONS

Integrated Sensor (Optional)	Special Options (Optional)	Configuration <sup>13</sup>
OBO1 - WS FS-305 w/ FS-L6 lens on/off (max mounting height 8") <sup>9</sup> OCC Sensor OBO2 - WS FS-305 w/ FS-L3W lens on/off (max mounting height 20") <sup>9</sup> OCC Sensor OBO3 - WS FS-305D w/ FS-L6 lens Dim to 50% (max mounting height 8") <sup>9</sup> OCC Sensor OBO4 - WS FS-305D w/ FS-L3W lens Dim to 50% (max mounting height 20") <sup>9</sup> OCC Sensor OBO5 - WS FS-505 Low Voltage Stair Mount Sensor OBD - Daylight <sup>8</sup> W601 - Wattstopper Sensor <sup>9</sup> CLM - Wattstopper Plus RF (see page 6 for details) SLM - Wattstopper Plus Sensor RE7 - nLight Occupancy & Daylight <sup>10</sup>	NE7 - nLight Occupancy <sup>10</sup> AOCC-W - Lutron Athena Sensor (Device Color White) <sup>11,15</sup> AOCC-B - Lutron Athena Sensor (Device Color Black) <sup>11,15</sup> ARF-W - Lutron Athena RF (Device Color White) <sup>11,15</sup> ARF-B - Lutron Athena RF (Device Color Black) <sup>11,15</sup> VOCC - Lutron Vive Sensor <sup>12,15</sup> VRF - Lutron Vive RF <sup>12,15</sup> WCLA-D - WaveLinX WCL-OEM-WAA-D <sup>17</sup> WCLA - WaveLinX WCL-OEM-WAA <sup>17</sup> WCLB-D - WaveLinX WCL-OEM-WAB-D <sup>17</sup> WCLB - WaveLinX WCL-OEM-WAB <sup>17</sup> WCLR - WaveLinX Remote <sup>17</sup>	CP - Chicago Plenum FLX - Flex Whip RLA - Red List Approved RLD - Red List Declared  SQ _____ - Square (side 1) REC _____ x _____ - Rectangle (side 1 x side 2) L _____ x _____ - " L " Shape (side 1 x side 2) WCL _____ x _____ - " L " Shape (Ceiling x Wall) U _____ x _____ x _____ - " U " Shape (side 1 x side 2 x side 3) WCU _____ x _____ x _____ - " U " Shape (Wall 1 x Ceiling x Wall 2) 99CFG - Custom Configuration <sup>14</sup>

1 Recessed Regressed only  
2 Not available with Regressed or Curves  
3 Kicker standard in Signal White. Customer Custom color kickers have a surcharge  
4 Contact factory for switching options  
5 Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO)  
6 15 business days lead time  
7 20 business days lead time for color

8 Not available with Wall Wash  
9 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  
10 Contact Factory  
11 0-10V Drivers - AOCC up to 10 drivers may be connected; ARF up to 40 driver may be connected. DALI Drivers - AOCC & ARF up to 4 drivers can be connected  
12 Lutron Vive Integrated Sensors require a DALI driver  
13 See page 8 for more details and examples  
14 Please provide drawing with dimensions

15 When LUT-ELI is specified for emergency lighting, do not include an integral UL924 relay (e.g., ALCR or GTD). For more details, see Lutron EM App Note 106 or Lutron Vire EM App Note 628  
16 Do not use in applications where Lutron integrated controls and LUT-ELI are both specified.  
17 See sensor under Specification Section (page 6) for more information.

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

# High Performance 4" Aperture (HP-4) Recessed

## SUPPLEMENTARY DRIVER PAGE

### 0-10V Driver Options

<b>FC-10%</b>	Factory Choice, 0-10V 10% Dimming (Linear)
<b>FC-10%-DTO</b>	Factory Choice, 0-10V 10% Dimming, Dim-to-Off (Linear)
<b>FC-1%</b>	Factory Choice, 0-10V 1% Dimming (Linear)
<b>FC-1%-DTO</b>	Factory Choice, 0-10V 1% Dimming, Dim-to-Off (Linear)
<b>ELD-10V-0%</b>	EldoLED SOLOdrive, 0-10V 0.1% Dimming (Linear)
<b>ELD-10V-1%</b>	EldoLED ECOdrive, 0-10V 1% Dimming (Linear)
<b>10V-TW-10%</b>	EldoLED OTi, 0-10V 10% Dimming, Tunable White (Linear)
<b>10V-TW-10%-DTO</b>	EldoLED OTi, 0-10V 10% Dimming, Dim-to-Off, Tunable White (Linear)
<b>OTi-10%</b>	EldoLED OTi, 0-10V 10% Dimming (Linear)
<b>OTi-10%-DTO</b>	EldoLED OTi, 0-10V 10% Dimming, Dim-to-Off (Linear)
<b>OTi-1%</b>	EldoLED OTi, 0-10V 1% Dimming (Linear)
<b>OTi-1%-DTO</b>	EldoLED OTi, 0-10V 1% Dimming, Dim-to-Off (Linear)

### DALI Driver Options

<b>FC-DALI-1%</b>	Factory Choice, DALI 1% Dimming (Logarithmic)
<b>ODXL-DALI-1%</b>	EldoLED Dexal, DALI 1% Dimming (Logarithmic)
<b>ELD-DALI-0%</b>	EldoLED SOLOdrive, DALI 0.1% Dimming (Logarithmic)
<b>ELD-DALI-1%</b>	EldoLED ECOdrive, DALI 1% Dimming (Logarithmic)
<b>ELD-DALI-TW</b>	EldoLED DUALdrive Light Shape, DALI 0.1% Dimming, Tunable White (Logarithmic Dimming, Linear CCT Control)

### DMX Driver Options

<b>ELD-DMX</b>	EldoLED POWERdrive, DMX 0.1% Dimming (8 Bit, 1CH) (Linear)
<b>ELD-DMX-16</b>	EldoLED POWERdrive, DMX 0.1% Dimming (16 Bit, 2CH) (Linear)
<b>ELD-DMX-TW</b>	EldoLED POWERdrive, DMX 0.1% Dimming, Tunable White (8 Bit, 2CH - CH1 Warm / CH2 Cool) (Linear)
<b>ELD-DMX-TW16</b>	EldoLED POWERdrive, DMX 0.1% Dimming, Tunable White (16 Bit, 4CH - CH1, 2 Warm / CH3, 4 Cool) (Linear)

### Lutron Driver Options

<b>LUT-ES1</b>	Lutron, Ecosystem 1% Dimming
<b>LUT-TW</b>	Lutron LD2 Dali-2 1%, Tunable White

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

# High Performance 4" Aperture (HP-4) Recessed

## SPECIFICATIONS

### BODY TYPE

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

**LENGTHS:** Any length, 2' minimum, in increments down to 1/16" (±1/32"). 12' maximum section length. Hollowed Ellipse Louver (LHE), Hex Louver (LHC), and White Cross Blade Baffle (WCB) are available in 1' increments.

**MITERED CORNERS<sup>1</sup>:** Illuminated corners of greater than 60° and less than 180° in a single plane, available with Flush Diffuser, Bottom Glow Diffuser, Regressed Diffuser, White Cross Blade Baffle<sup>2</sup> or Wall Wash. Corners not available with Wall Wash (**WW-D**), Hollowed Ellipse Louver (**LHE**), Hex Louver (**LHC**) or 1" Drop Down Lens (**DL**). Consult factory for tailored lighting options.

### OUTPUT AND LED TYPE

**LIGHT OUTPUT:** Four lumen packages available, Standard (**S**), Boosted Standard (**B**), High (**H**), and Very High (**V**). For lengths 3' and greater, the uplight and downlight can be specified with different lumen packages and dual controls. For Tailored Outputs outside of range from Standard (**S**) to Very High (**V**), consult factory. Light engines are replaceable.

**WELL Building, feature L04 Electric Light Glare control:** *HP-4 D F:* 80 CRI - **S/B**, 90CRI - **S/B/H**; *HP-4 D LHE:* 80 CRI - **S/B**, 90CRI - **S/B/H**; *HP-4 D DSO:* 80 CRI - **S**, 90CRI - **S/B**; *HP-4 D RG:* 80 CRI - **S/B**, 90CRI - **S/B**; *HP-4 D DL:* 80 CRI - **S/B**, 90CRI - **S/B/H**; *HP-4 D LHC:* 80 CRI - **S/B**, 90CRI - **S/B/H**; *HP-4 D WCB:* 80 CRI - **S/B**, 90CRI - **S/B**;



**LEED v5, interior Lighting Indoor Environmental Quality (qualify for LEED v4.1):** *HP-4 D F:* 80 CRI - **S/B**, 90CRI - **S/B/H**; *HP-4 LHE:* 80 CRI - **S/B/H**, 90CRI - **S/B/H/V**; *HP-4 D DSO:* 80 CRI - **S/B**, 90CRI - **S/B/H**; *HP-4 RG:* 80 CRI - **S/B**, 90CRI - **S/B/H**; *HP-4 D DL:* 80 CRI - **S/B/H**, 90CRI - **S/B/H/V**; *HP-4 D LHC:* 80 CRI - **S/B**, 90CRI - **S/B/H/V**; *HP-4 D WCB:* 80 CRI - **S/B**, 90CRI - **S/B/H**



### MECHANICAL/OPTICAL OPTIONS

**DOWNLIGHT OPTION:** 12' maximum diffuser length. Flush frost white snap-in diffuser standard, 73% transmissive, 99% diffusion. Internal secondary diffusers at corners ensure visually seamless, uniform, continuous illumination. Available with Flush (**F**), 1" Drop Down Lens (**DL**), White Cross Blade Baffle (**WCB**)<sup>3,4</sup>, Ellipse Louver (**LHE**)<sup>3</sup>, Hex Louver (**LHC**)<sup>3</sup>, Downlight Spread Optic (**DSO**), Downlight Asymmetric Optic Left and Right (**DAO-L**, **DAO-R**), and Regressed downlight diffusers (**RG**)<sup>3</sup>. 1" Drop Down Lens (**DL**) made of acrylic. Available with a solid endcap or an endcap with a diffuse filler to continue the luminous aesthetic. Downlight Spread Optic (**DSO**) & Downlight Asymmetric Optic (**DAO**) are an extruded lenses with a subtle ribbed appearance providing desired improved optical performance. Consult factory for more tailored lumen outputs.

<sup>1</sup> Not available with Wall Wash

<sup>2</sup> White Cross Blade (WCB) baffles not available with custom angles. Available in 90 degrees only

<sup>3</sup> Recessed-Regressed only

<sup>4</sup> White Cross Blade Baffle (WCB) currently not advisable for drywall

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

**REFLECTORS:** Die-formed 20-gauge cold-rolled steel reflectors finished in 96LG High Reflectance white powder coat paint. The standard Semi-Specular Aluminum (**SSA**) Kicker (**K**) reflector delivers light high on the vertical surface. The Kicker reflector can be easily removed for open distribution (**FO**).

### ELECTRICAL OPTIONS

**STATIC WHITE FEED:** Standard with one 18-gauge/5-conductor single-circuit feed wire controlling uplight and downlight together (power and dimming). Specify dual feed wires for independent control of uplight and downlight. 14-gauge feed wire used when luminaire current exceeds 5 amps.

**TUNABLE WHITE FEED:** Standard with one 18-gauge/5-conductor single-circuit feed. 14-gauge feed used when luminaire current exceeds 5 amps. DMX and power feed at same location (standard). DMX feeds cannot be cut or spliced. DMX feeds should be ordered based on fixed lengths.

#### 0-10V:

- One 18-gauge / 3-conductor power
- One 18-gauge / 4-conductor for dimming and controls

#### Dali:

- One 18-gauge / 5-conductor power and controls

#### DMX:

- One 18-gauge / 3-conductor power
- One DMX feed

**STATIC WHITE DRIVER:** Replaceable 120V, 277V, and 347V constant current reduction dimming driver standard. Can be wired dimming or non-dimming. 0-10V dimming controls with a range of 10%- 100% standard. Dimming to 1% available. Separate dimming for uplight and downlight available. Driver is fully accessible from below the ceiling.

- **Power Factor:** ≥ 0.9
- **Total Harmonic Distortion (THD):** <20%
- **Expected driver lifetime:** 100,000 hours

### LUTRON DRIVER OPTIONS:

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

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

- **Power factor:** ≥0.90
- **Total Harmonic Distortion (THD):** <20%
- **Dimming Range:** 100%-10%
- **Expected driver lifetime:** 100,000 hours

### LUTRON TUNABLE WHITE DRIVER OPTION:

**LUT-TW** - Lutron LD2 Dali-2 1% Tunable White.

Continued

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

# High Performance 4" Aperture (HP-4) Recessed

## SPECIFICATIONS

### MOUNTING OPTIONS

#### HANGING HARDWARE:

- **Recessed T-Bar:** Standard bracket design works with most lay-in ceiling types. Brackets secure luminaire to the ceiling grid from above. Tie-in T-Bar brackets connect the luminaire to the T-Bar for securing to structure. Consult local codes for tie-wire recommendations.
- **Recessed Spackle Flange:** Drywall surfaces (walls or ceilings): 1/4" - 20 stud and nut (provided by others). Mounted with three equidistant suspension points.

**TUNABLE WHITE DMX HANGING HARDWARE:** For grid ceiling applications the dual GridBox™ mounting is supplied (standard). For hard ceiling applications the ceiling mounting box is supplied (standard). DMX feeds cannot be cut or spliced. DMX feeds should be ordered based on fixed lengths. Available DMX pendant feed lengths are 5', 12', and 30' (5' standard).

**TUNABLE WHITE DMX INTERCONNECTION CABLES:** Luminaires are prewired with plug-and-play interconnected cables to support easy plug-together joining of fixture runs. DMX to RJ45 adapters and an RJ45 terminator for every 32 DMX drivers are included.

### OTHER OPTIONS

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

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

### TUNABLE WHITE ELECTRICAL OPTIONS<sup>1</sup>:

- TW Driver Options
- **0-10V:** EM/GEN, GTD or Battery Back Up
- **DMX:** 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 with a sensor is 3ft. 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. Wavelinx Sensors<sup>2</sup>: Wavelinx PRO (**WCLA-D**) requires DTO 0-10V Aux driver to power sensor; Wavelinx PRO (**WCLA**) requires standard 0-10V driver, control module, and 54" cable; Wavelinx LITE (**WCLB-D**) requires DTO 0-10V Aux driver to power sensor; Wavelinx LITE (**WCLB**) requires standard 0-10V driver, control module, and 54" cable. Wavelinx Remote (**WCLR**) option can be used with **LITE** or **PRO**. Finelite provides Wavelinx control module and 54" sensor cable **ONLY** (sensor provided and installed remotely by others). Sensor cables will exit existing fixture feed holes nearest the specified locations within the fixture or run.

**FINISHES:** Finelite Signal White (**SW**) powder coat is standard, Finelite Black (**RAL 9005**) with semi gloss fine texture (**FB**)<sup>3</sup>, and Satin Aluminum (**SA**)<sup>3</sup> are available. Optional Adder: 179 RAL colors<sup>4</sup> 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. These fixtures are rated for Damp Location. IC Rated. 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<sup>5</sup>:** R - 2.8 lb/ft; WW-R - 2.9 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.

Backup Battery		
	Legrand 18W	Legrand 10W/ Bodine BSL310LP
<b>HP4-R-D</b>		
Min. Housing Length	8'	4'
EM Lumen Output	1854	1102
EM Section Illum.	2'	2' or 4'
<b>HP4-R-WW-D</b>		
Min. Housing Length	8*	4*
EM Lumen Output	2000	1189
EM Section Illum.	4'	4'

\* 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 14.

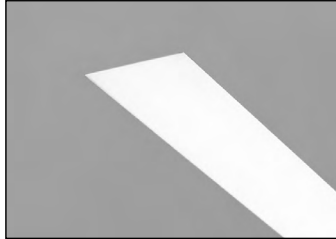
Bodine GTD and Legrand ALCR Min. Length	
Configuration	Min Length
Generator	D-2'
Generator + OCC	D-2'
Daylight	D-2'
Generator + Daylight	D-2'

<sup>1</sup> Consult Finelite for Generator Transfer Device and Battery Backup fit  
<sup>2</sup> Contact Factory for more information  
<sup>3</sup> 15 business days lead time  
<sup>4</sup> 20 business days lead time for color  
<sup>5</sup> Excludes Battery Backup and Generator Transfer Device weight

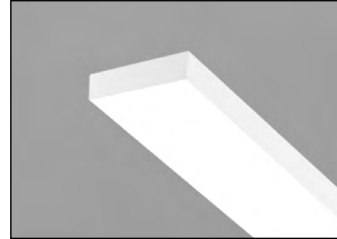
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Type:	Project:	
Ordering Info:		

# High Performance 4" Aperture (HP-4) Recessed

## AESTHETIC OPTIONS



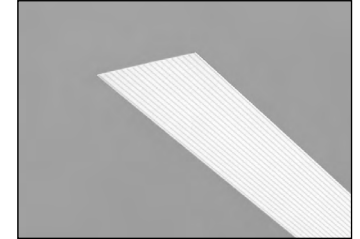
Flush Diffuser (F)



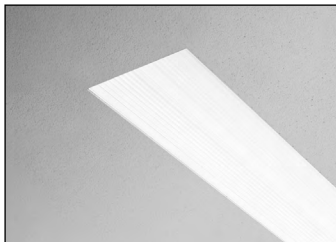
1" Drop Down Lens (DL)



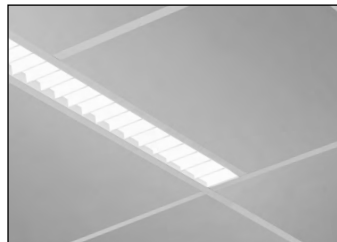
Flat Diffuser with 1" Regressed (RG-D)



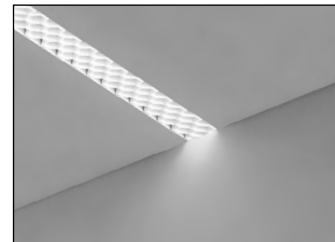
Downlight Spread Optic (DSO)  
Externally flush



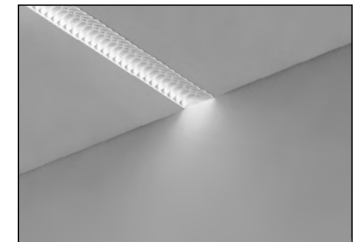
Downlight Asymmetric Optic (DAO)  
Externally flush



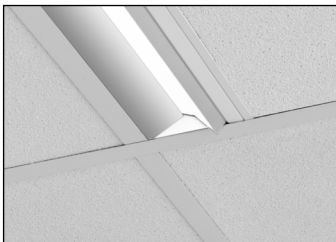
White Cross Blade Baffle<sup>1</sup> (RG-WCB)



Hex Louver<sup>1</sup> (RG-LHC)



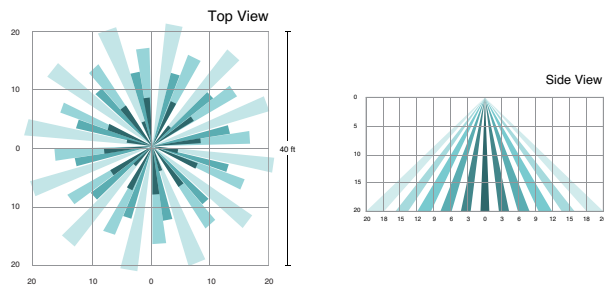
Hollowed Ellipse Louver<sup>1</sup> (RG-LHE)



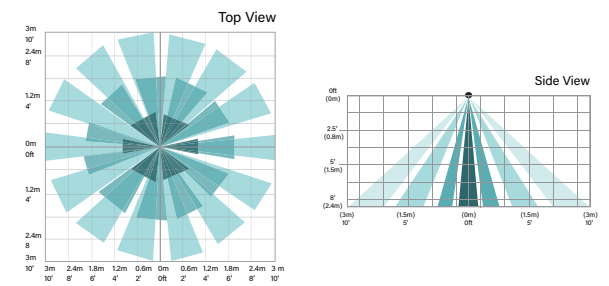
Kicker (K) - Wall Wash only

## OCCUPANCY SENSOR OPTIONS

FS-L3W top and side coverage patterns

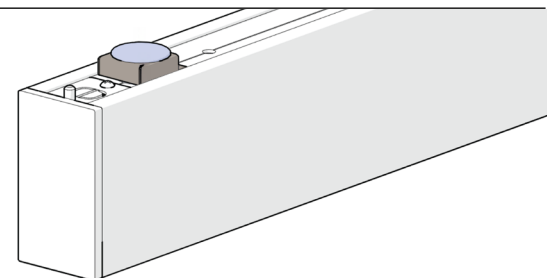


FS-L6 top and side coverage patterns



## CONNECTED LIGHTING MODULE (CLM) LOCATION

The default location for the Connected Lighting Module (CLM) will be on the topside of the fixture. Consult factory for direct side mounting. For indirect, Lenses can go over the sensor, no special lens reduction needed.



<sup>1</sup> Regressed only

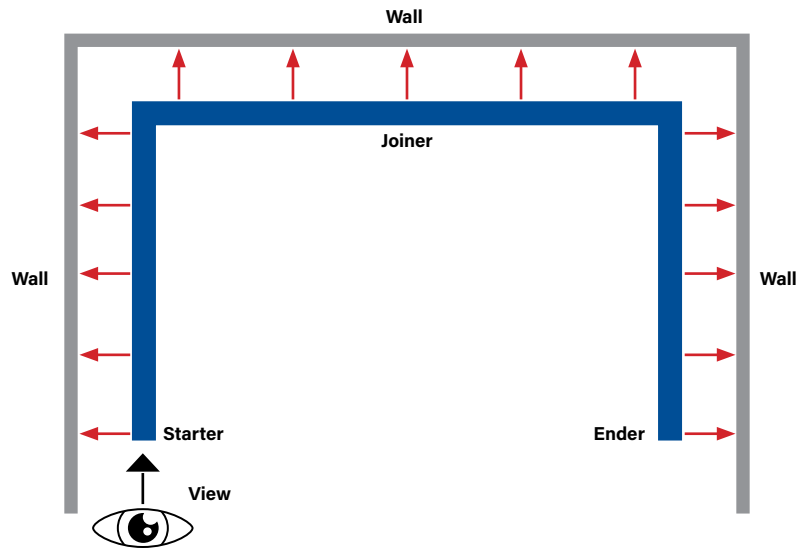
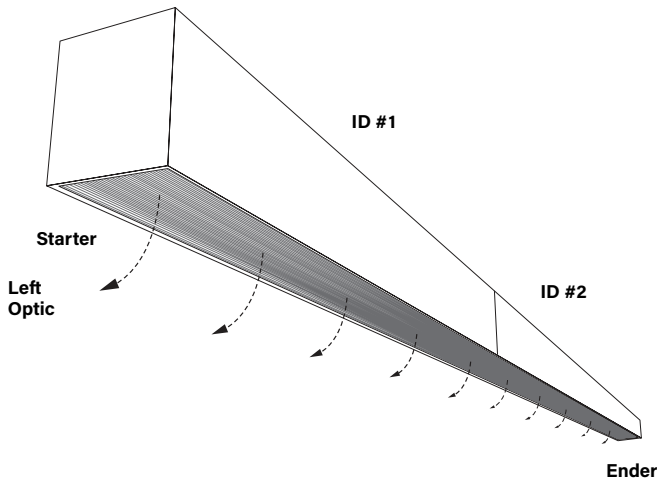
Submitted by:		Date:
Type:	Project:	
Ordering Info:		

# High Performance 4" Aperture (HP-4) Recessed

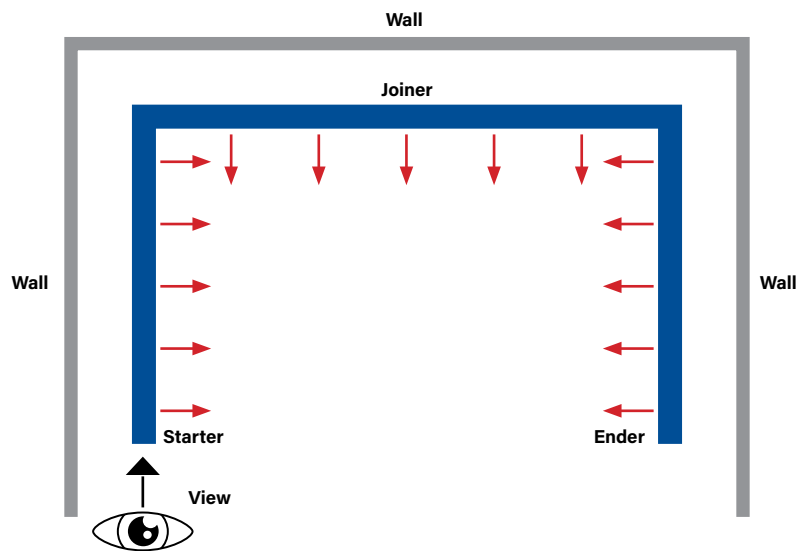
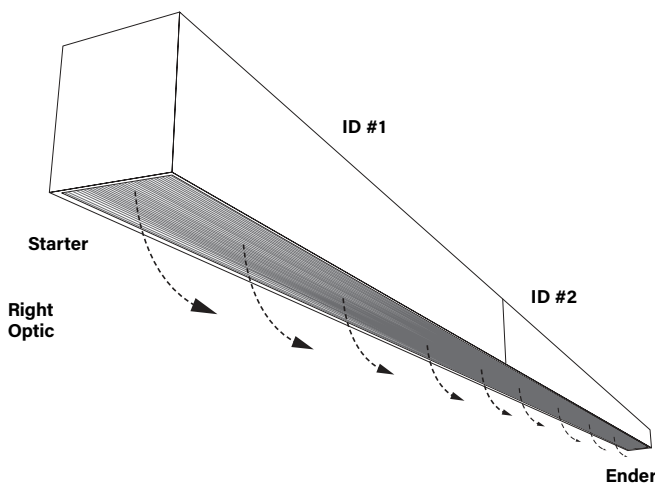
## DOWNLIGHT ASYMMETRIC OPTIONS

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

### Downlight Asymmetric Optic Left (DAO-L)



### Downlight Asymmetric Optic Right (DAO-R)



## PREINSTALLED LABEL



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

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

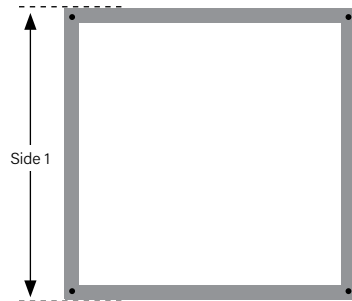
# High Performance 4" Aperture (HP-4) Recessed

## STANDARD CONFIGURATION EXAMPLES <sup>1,2</sup> - SINGLE PLANE

### TOP VIEW

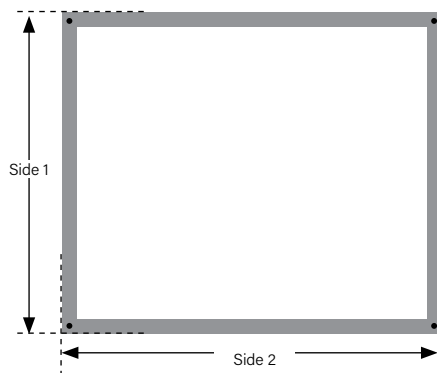
**SQ** \_\_\_\_\_  
Square - Provide Side 1 dimension

*Example* - SQ6'



**REC** \_\_\_\_\_ x \_\_\_\_\_  
Rectangle - Provide Side 1 x Side 2 dimension

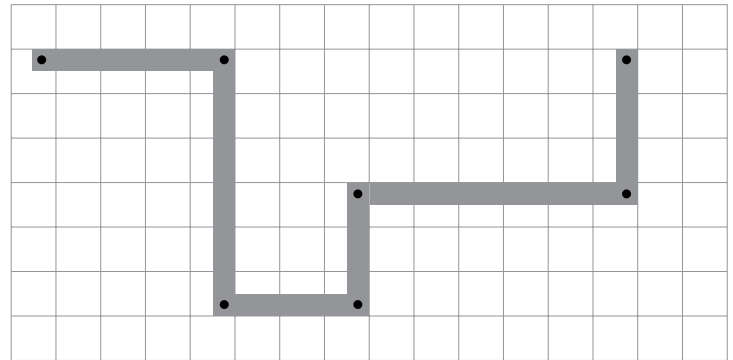
*Example* - REC5'x7'



### 99CFG<sup>3</sup>

Custom Configuration - Please provide a sketch or drawing showing desired linear length dimensions and curved sections. Template available on page 10.

*Example* -



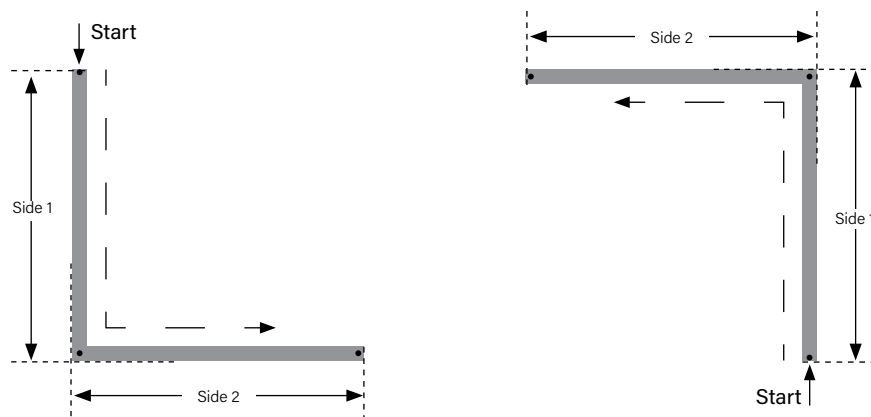
□ = 1 ft<sup>2</sup>

### TOP VIEW

**L** \_\_\_\_\_ x \_\_\_\_\_  
L - Provide Side 1 x Side 2 dimensions

*Example* - L6'x6'

Specify counterclockwise from Start of the run

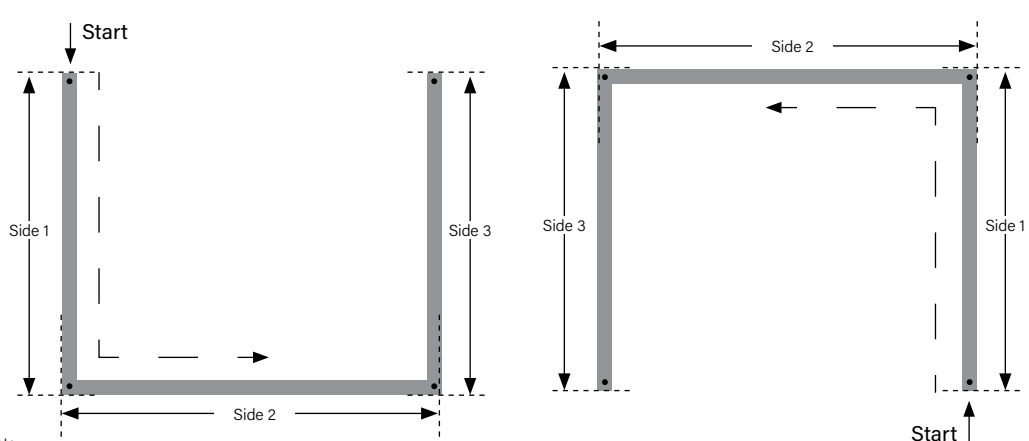


### TOP VIEW

**U** \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_  
U Shape - Provide Side 1 x Side 2 x Side 3 dimension

*Example* - U5'x7'x5'

Specify counterclockwise from Start of the run



● = Suspension Points

<sup>1</sup> Drawings are not to scale

<sup>2</sup> 2' minimum length for linear sections

<sup>3</sup> 99CFG between 60 - 179 degree with seamless joints

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

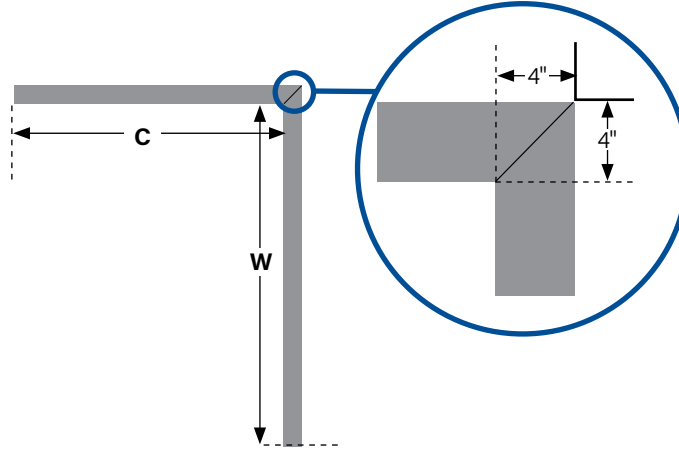
# High Performance 4" Aperture (HP-4) Recessed

## STANDARD CONFIGURATION EXAMPLES <sup>1,2</sup> - MULTI-PLANE WALL-TO-CEILING PATTERNS ELEVATION VIEW

**WCL**      x       
(C) (W)

WCL-Provide  
Ceiling (C) and Wall (W)  
dimensions

*Example* - WCL 8'x4'

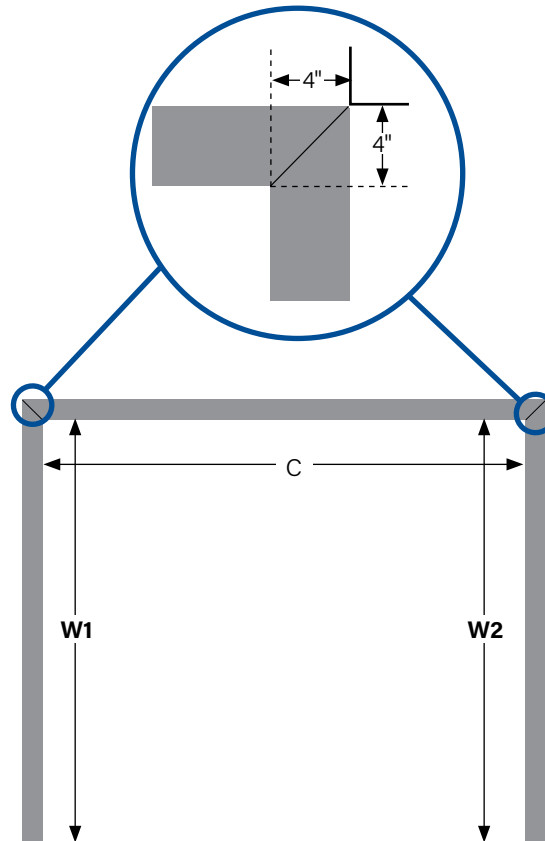


Wall-to-ceiling mitered corners include a 4" miter for recessed (5" miter for regressed) that is recessed into the wall/ceiling upon installation. This additional length does not need to be specified in the pattern nomenclature and is accounted for in the total overall run length.

**WCU**      x      x       
(W1) (C) (W2)

WCU-Provide  
Wall 1 (W1), Ceiling (C), and Wall 2 (W2)  
dimensions

*Example* - WCU 4'x8'x4'




Wall-to-ceiling mitered corners include a 4" miter for recessed (5" miter for regressed) that is recessed into the wall/ceiling upon installation. This additional length does not need to be specified in the pattern nomenclature and is accounted for in the total overall run length.

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

# High Performance 4" Aperture (HP-4) Recessed

## CUSTOM CONFIGURATION TEMPLATE

 = 1 ft<sup>2</sup>

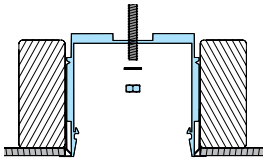


Submitted by:		Date:
Type:	Project:	
Ordering Info:		

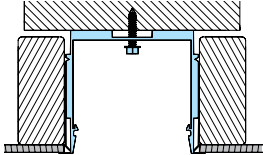
# High Performance 4" Aperture (HP-4) Recessed

## HARD CEILING MOUNTING OPTIONS

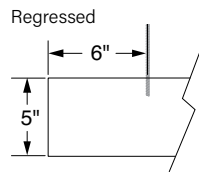
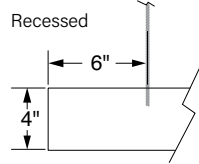
**Threaded Rod Option**



**Screw Mount Option**

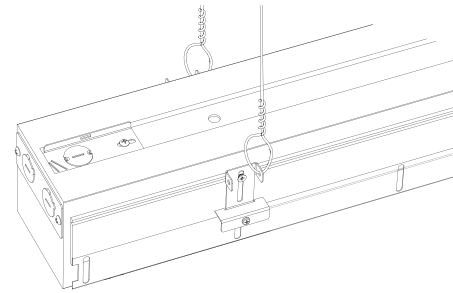


**Mounting Location for Securing to Structure**



Two mounting options: threaded rod and screw mounting options. Mounting locations are located on each end of the luminaire. Mounting location is 6" away from each end of luminaire.

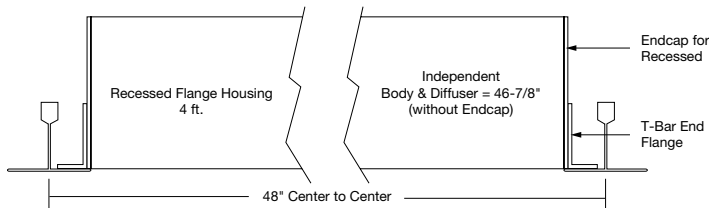
## T-BAR INSTALLATION



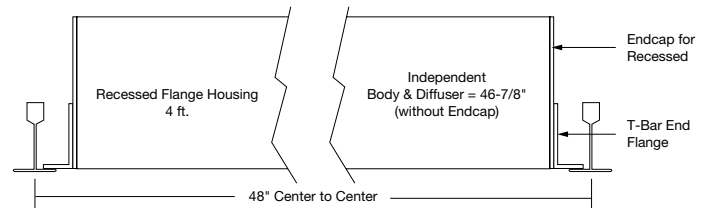
HP-4 R for T-Bar installations comes standard with a splice plate at the end of the luminaire. Mounting brackets (supplied) secure the luminaire to T-Bar and provide support to structure location. All even foot length (2, 4, 6, ...) luminaire runs are reduced in length by an appropriate amount to fit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

## GRID LENGTH DETAIL - 4' EXAMPLE

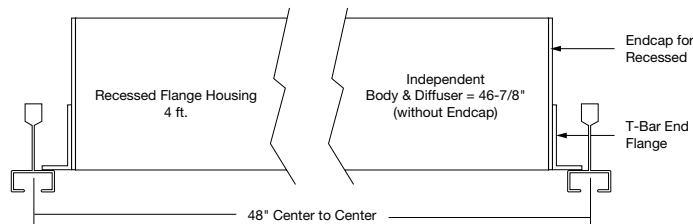
**15/16" T-Bar**



**9/16" T-Bar**

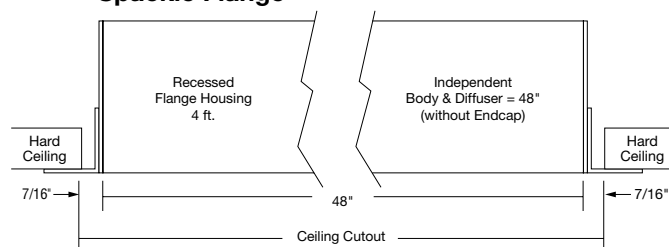


**9/16" Screw Slot**

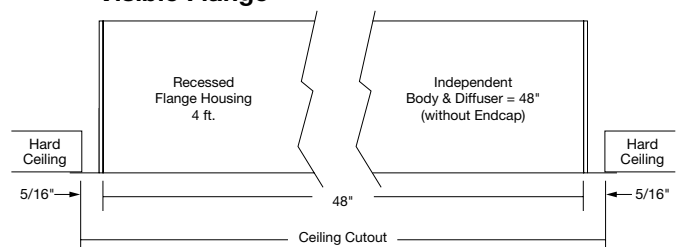


## HARD CEILING LENGTH DETAIL - 4' EXAMPLE

**Spackle Flange**



**Visible Flange**

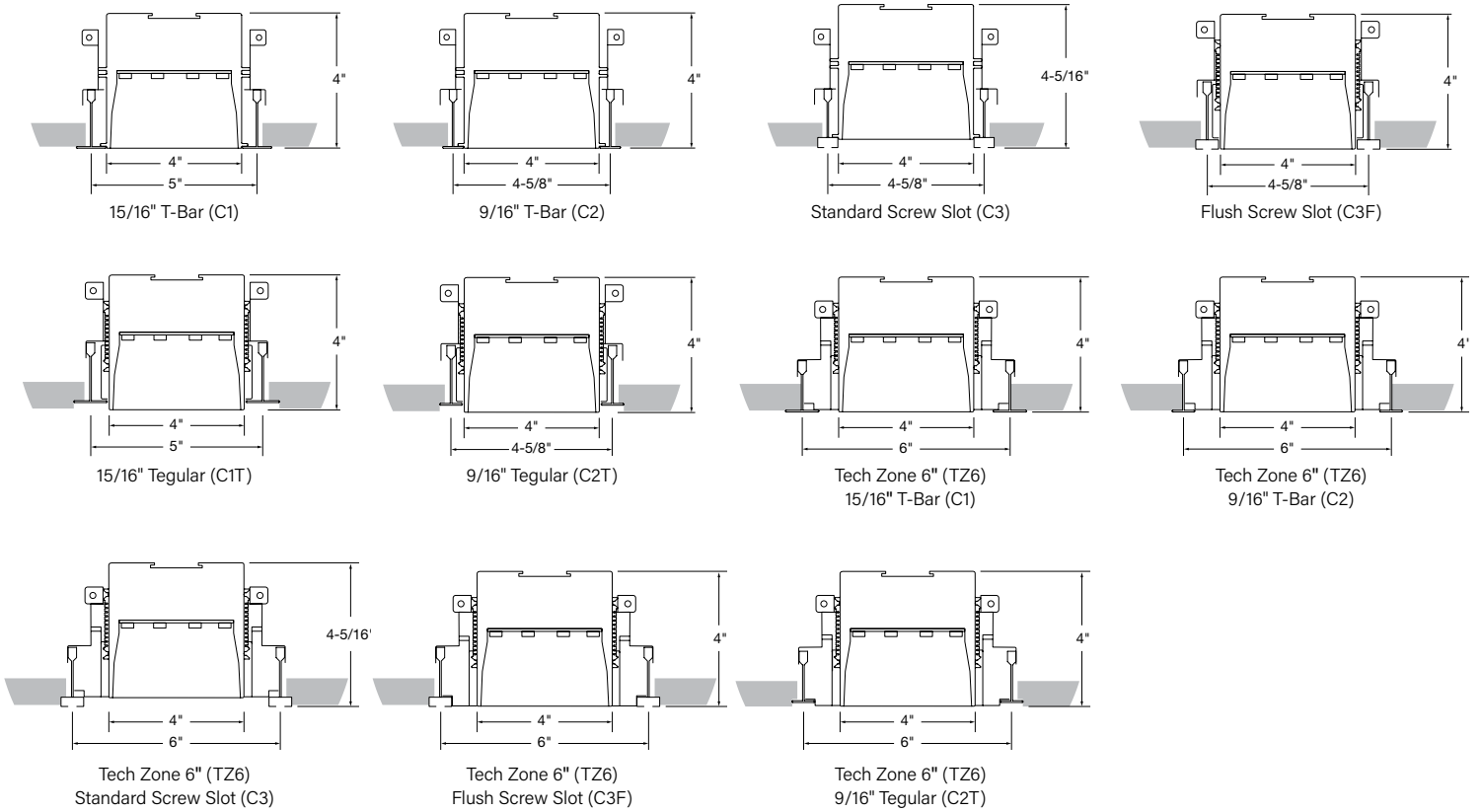


Submitted by:		Date:
Type:	Project:	
Ordering Info:		

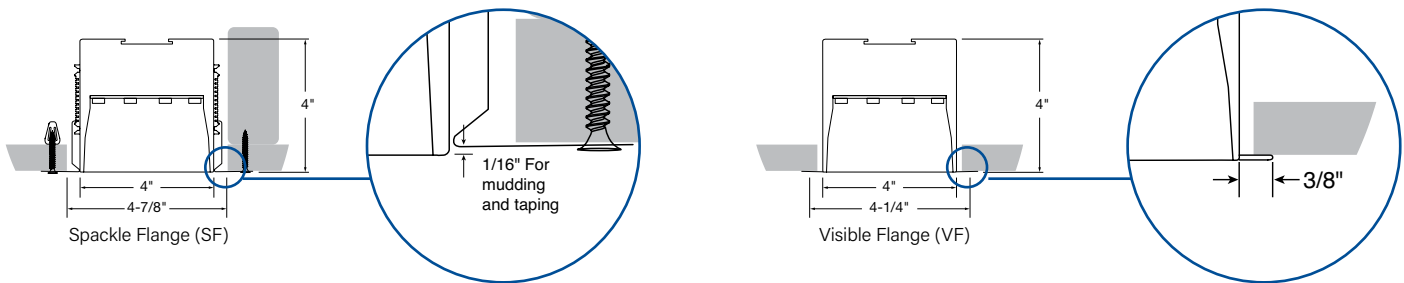
# High Performance 4" Aperture (HP-4) Recessed

## RECESSED MOUNTING TYPES - T-BAR

Rough-In Dimensions

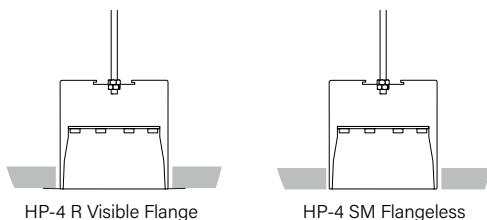


## RECESSED MOUNTING TYPES - CUTOUT DIMENSIONS

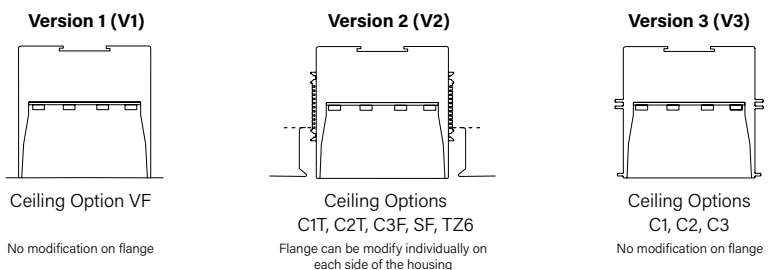


## WOOD CEILING OPTIONS

Recessed 1/4 - 20 Threaded Rod (by others)



## HOUSING



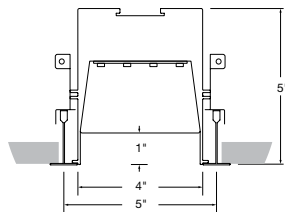
Note: +/- 1/16"

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

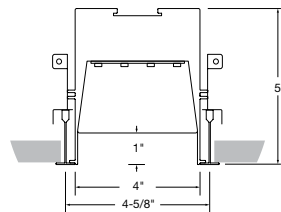
# High Performance 4" Aperture (HP-4) Recessed

## REGRESSED MOUNTING TYPES - T-BAR

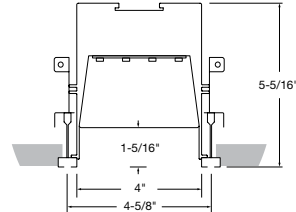
Rough-In Dimensions



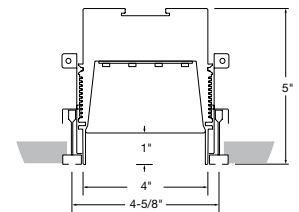
15/16" T-Bar (C1)



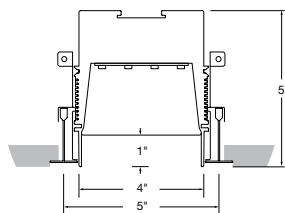
9/16" T-Bar (C2)



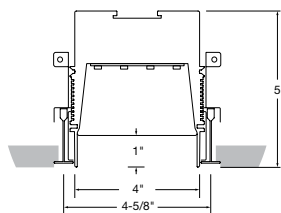
Standard Screw Slot (C3)



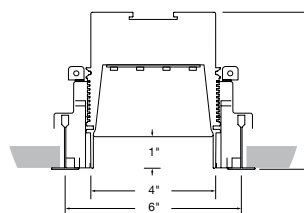
Flush Screw Slot (C3F)



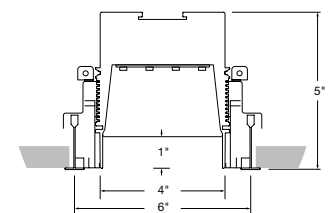
15/16" Tegular (C1T)



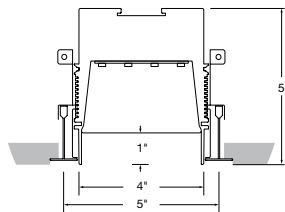
9/16" Tegular (C2T)



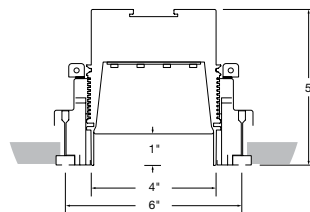
Tech Zone 6" (TZ6)  
15/16" T-Bar (C1)



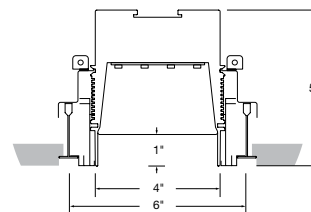
Tech Zone 6" (TZ6)  
9/16" T-Bar (C2)



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

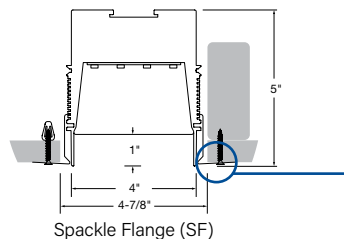


Tech Zone 6" (TZ6)  
Flush Screw Slot (C3F)

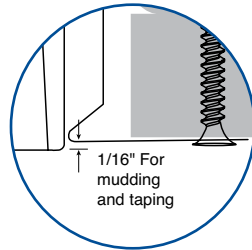


Tech Zone 6" (TZ6)  
9/16" Tegular (C2T)

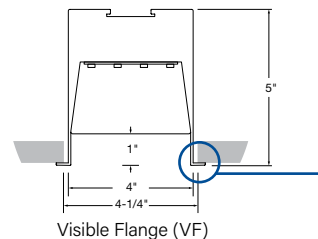
## REGRESSED MOUNTING TYPES - CUTOUT DIMENSIONS



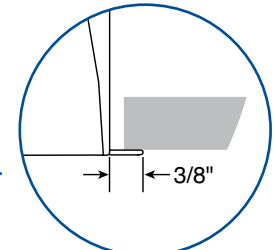
Spackle Flange (SF)



1/16" For mudding and taping



Visible Flange (VF)

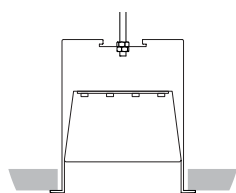


3/8"

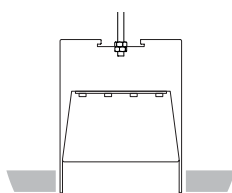
**Regressed Lens:** Regressed lens version is 5" tall with a lens that is regressed 1" from ceiling line.

## WOOD CEILING OPTIONS

Recessed 1/4 - 20 Threaded Rod (by others)



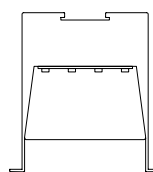
HP-4 R Visible Flange



HP-4 SM Flangeless

## HOUSING

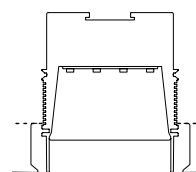
Version 1 (V1)



Ceiling Option VF

No modification on flange

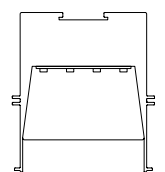
Version 2 (V2)



Ceiling Options

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

Version 3 (V3)



Ceiling Options

C1, C2, C3  
No modification on flange

Note: +/- 1/16"

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

# High Performance 4" Aperture (HP-4) Recessed

## Recessed Photometry - 4' Luminaire 3500K

### HP4-R-D-4'-V-835-F

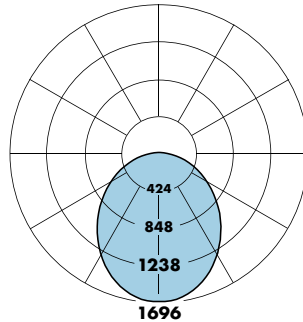
**Downlight:** Flush Diffuser

**Efficacy:** 120 lm/W

**Total luminaire output:** 4281 lumens (1070 lm/ft)  
36 watts (9.0 W/ft)

**Peak Candela Value:** 1696 @ 0°

CRI: 80 / CCT: 3500K



### HP4-R-D-4'-V-835-DAO

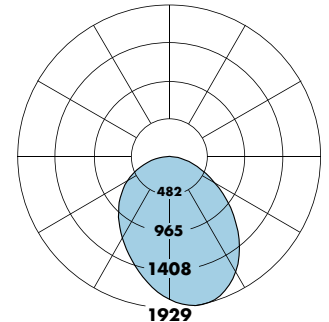
**Downlight:** Downlight Asymmetric Optic

**Efficacy:** 124 lm/W

**Total luminaire output:** 4435 lumens (1109 lm/ft)  
36 watts (9.0 W/ft)

**Peak Candela Value:** 1929 @ 12.5°

CRI: 80 / CCT: 3500K



Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire			
↓S <sup>1</sup>	↓B <sup>1</sup>	↓H <sup>1</sup>	↓V <sup>2</sup>
1720	2211	3365	4281

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire			
↓S <sup>1</sup>	↓B <sup>1</sup>	↓H <sup>1</sup>	↓V <sup>2</sup>
1782	2290	3486	4435

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
↓S <sup>1</sup>	↓B <sup>1</sup>	↓H <sup>1</sup>	↓V <sup>2</sup>
430	553	841	1070

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
↓S <sup>1</sup>	↓B <sup>1</sup>	↓H <sup>1</sup>	↓V <sup>2</sup>
445	573	871	1109

Power, 3500K (Watts Per Foot)							
↓S <sup>1</sup>		↓B <sup>1</sup>		↓H <sup>1</sup>		↓V <sup>2</sup>	
120V	270V	120V	270V	120V	270V	120V	270V
3.5	3.8	4.5	4.7	6.9	6.9	9.0	9.0

Power, 3500K (Watts Per Foot)							
↓S <sup>1</sup>		↓B <sup>1</sup>		↓H <sup>1</sup>		↓V <sup>2</sup>	
120V	270V	120V	270V	120V	270V	120V	270V
3.5	3.8	4.5	4.7	6.9	6.9	9.0	9.0

Efficacy, 3500K, 80 CRI (Lumens Per Watt)							
↓S <sup>1</sup>		↓B <sup>1</sup>		↓H <sup>1</sup>		↓V <sup>2</sup>	
120V	270V	120V	270V	120V	270V	120V	270V
123	115	123	118	123	122	120	119

Efficacy, 3500K, 80 CRI (Lumens Per Watt)							
↓S <sup>1</sup>		↓B <sup>1</sup>		↓H <sup>1</sup>		↓V <sup>2</sup>	
120V	270V	120V	270V	120V	270V	120V	270V
127	119	127	122	127	126	124	124

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

S - Standard Output, B - Boosted Standard Output, 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.

### Sample Lumen Adjustment Calculation

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

High Output (H), 4000K, 90 CRI  
**Lumen Adjustment Factor:** 0.789  
**Total Light Output:** 3365 lm x 0.789 = 2655 lm  
**Total Light Output per Foot:** 841 lm/ft x 0.789 = 664 lm/ft.  
**watts/foot:** 6.9 W/ft.

$$\text{Efficacy} = \frac{664 \frac{\text{lm}}{\text{ft.}}}{6.9 \frac{\text{W}}{\text{ft.}}} = 9 \text{ lm/W}$$

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

# High Performance 4" Aperture (HP-4) Recessed

## Recessed Photometry - 4' Luminaire 3500K

**HP4-R-WW-D-K-4'-V-835**

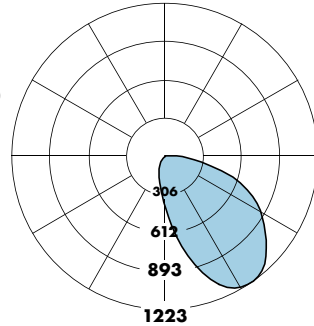
**Downlight:** With Kicker

**Efficacy:** 103 lm/W

**Total luminaire output:** 1975 lumens (494 lm/ft)  
19.2 watts (4.8 W/ft)

**Peak Candela Value:** 1223 @ 35°

CRI: 80 / CCT: 3500K



### Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire

↓S <sup>1</sup>	↓B <sup>1</sup>	↓H <sup>1</sup>	↓V <sup>2</sup>
778	1007	1542	1975

### Light Output, 3500K, 80 CRI (Lumens Per Foot)

↓S <sup>1</sup>	↓B <sup>1</sup>	↓H <sup>1</sup>	↓V <sup>2</sup>
195	252	386	494

### Power, 3500K (Watts Per Foot)

↓S <sup>1</sup>		↓B <sup>1</sup>		↓H <sup>1</sup>		↓V <sup>2</sup>	
120V	270V	120V	270V	120V	270V	120V	270V
2.0	2.3	2.5	2.8	3.7	3.7	4.8	4.8

### Efficacy, 3500K, 80 CRI (Lumens Per Watt)

↓S <sup>1</sup>		↓B <sup>1</sup>		↓H <sup>1</sup>		↓V <sup>2</sup>	
120V	270V	120V	270V	120V	270V	120V	270V
99	83	102	90	105	104	103	103

S - Standard Output, B - Boosted Standard Output, 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.

### Sample Lumen Adjustment Calculation

Lumen Adjustment Factors 80 CRI	
<b>3000K</b>	0.985
<b>3500K</b>	1.000
<b>4000K</b>	1.032

Lumen Adjustment Factors 90 CRI	
<b>3000K</b>	0.746
<b>3500K</b>	0.760
<b>4000K</b>	0.789

High Output (H), 4000K, 90 CRI  
**Lumen Adjustment Factor:** 0.789  
**Total Light Output:** 1542 lm x 0.789 = 1217 lm  
**Total Light Output per Foot:** 386 lm/ft x 0.789 = 305 lm/ft.  
**watts/foot:** 3.7 W/ft.

$$\text{Efficacy} = \frac{305 \frac{\text{lm}}{\text{ft.}}}{3.7 \frac{\text{W}}{\text{ft.}}} = 82 \text{ lm/W}$$

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

# High Performance 4" Aperture (HP-4) Recessed

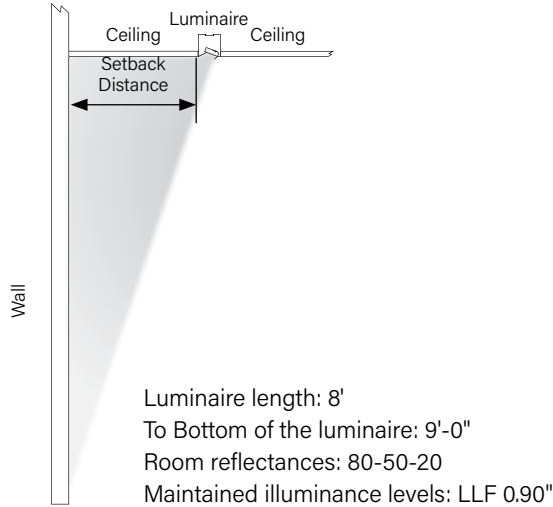
## WALL WASH RECESSED - SETBACK INFO AND APPLICATION DATA

**HP4-R-WW-D-K-4'-V-835**

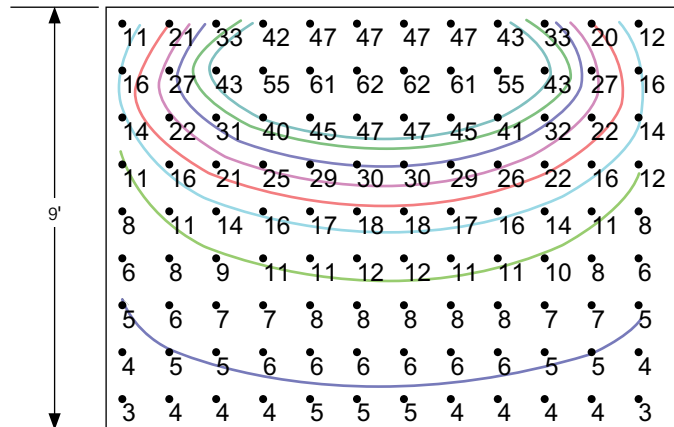
**Downlight:** With Kicker

**Total luminaire output:** 1450 lumens (363 lm/ft)  
19.1 watts (4.8 W/ft)

CRI: 80 / CCT: 3500K



**Setback Distance - 2'**



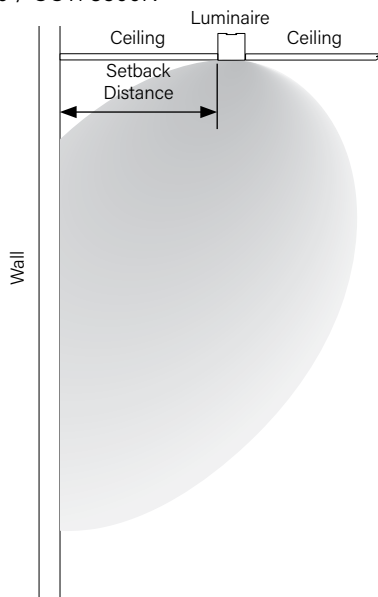
## DOWNLIGHT ASYMMETRIC OPTIC - SETBACK INFO AND APPLICATION DATA

**HP4-R-D-4ft-V-835-DAO**

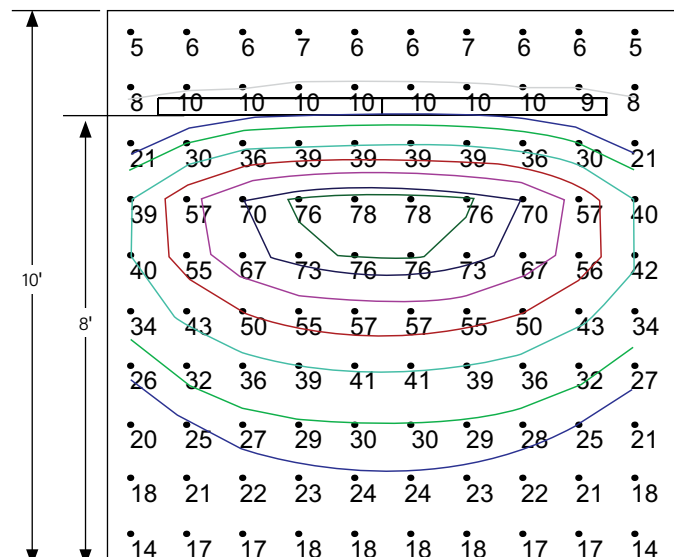
**Downlight:** DAO

**Total luminaire output:** 3884 lumens (971 lm/ft)  
35.6 watts (8.9 W/ft)

CRI: 80 / CCT: 3500K



**Setback Distance - 2'**



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

# 0-10V Tunable White

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

**Note:**

Load or Dim to Off options available.

## LUMINAIRE FAMILY MODIFICATIONS/RESTRICTIONS

Direct	Section Lengths										
	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. Tailored lengths available.										
Integral Battery Backup (BSL310LP)							✓		✓		✓
<b>Indirect/Direct</b>											
Output S,B Single Circuit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Integral Battery Backup (BSL310LP)							✓		✓		✓
Output H,V Single Circuit			✓				✓				✓
Integral Battery Not Available	Remote Battery backup solution available. Consult factory for tailored lighting options.										
Output S,B,H,V Dual Circuit			✓				✓				✓
Integral Battery Not Available	Remote Battery backup solution available. Consult factory for tailored lighting options.										

EN/GEN sections available for all body lengths

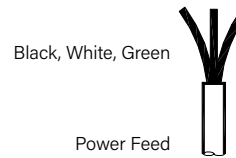
## PHOTOMETRY

Apply a power adjustment factor to calculate wattage usage

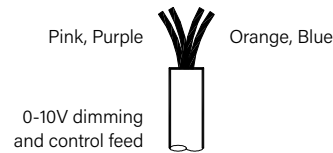
POWER	CONVERSION FACTOR
	<b>1.1X</b>

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

## DUAL FEED DETAIL



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