

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

# High Performance 2" Aperture (HP-2) Recessed



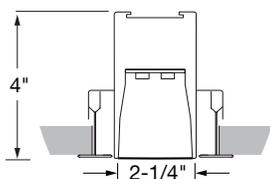
High Performance 2" Aperture is a patented, linear LED luminaire family. HP-2 delivers excellent performance using an advanced optical design and mid-power LEDs. Achieving 90% of initial light output at 100,000+ hours and backed by a 10-year performance-based warranty on all standard components.

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

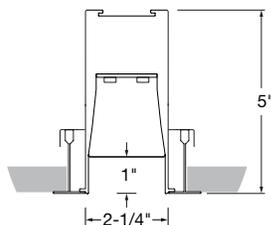
## CROSS SECTIONS

### Recessed



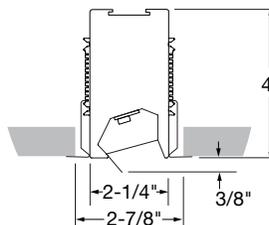
Flush Downlight Diffuser (standard)

### Regressed



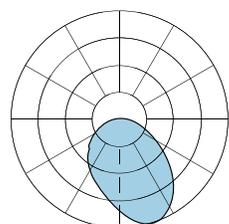
Flat Diffuser with 1" Regressed

### Wall Wash Recessed

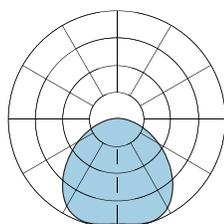


Kicker (standard)

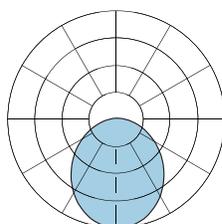
## OPTIC OPTIONS



Downlight Asymmetric Optic (DAO)



Downlight Spread Optic (DSO)



Standard Downlight Flush Optic (F)

## ALSO AVAILABLE IN



Pendant (D, ID, I)



Wall Mount (WM)



Surface Mount (SM)



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Ordering Guide Example: HP - 2 - R - D - 36' - S - 835 - F - 96LG - 120 - SC - FC-10% - FA50 - C1 - FE - SW - LGD18W - OBO - CP

BODY TYPE				OUTPUT AND LED TYPE		
Platform	Series Name	Luminaire Type	Luminaire Distribution	Total Length of Run	Downlight Output (Flush)	LED CRI/CCT
HP - High Performance	2	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 (336 lm/ft) B - Boosted (423 lm/ft) H - High (639 lm/ft) V - Very High (822 lm/ft) TL - Tailored: _____lm/ft*  Lumen provided above are for Flush lens only, see pg. 12 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.	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

MECHANICAL/OPTICAL OPTIONS		ELECTRICAL OPTIONS			
Downlight	Reflector System	Voltage	Circuiting <sup>2</sup>		
F - Flush (standard) <sup>8,9</sup> DL - 1" Drop Down Lens <sup>8</sup> RG-D - Flat Diffuser with 1" Regress <sup>1,8</sup> RG-WCB - White Cross Blade Baffle <sup>1,8</sup> RG-LHE - Hollowed Ellipse Louver <sup>1,8</sup> RG-LHC - Hex Louver <sup>1,8</sup>	DAO-L - Downlight Asymmetric Left <sup>4,8</sup> DAO-R - Downlight Asymmetric Right <sup>4,8</sup> DSO - Downlight Spread Optic <sup>4,8</sup> K - Kicker for Wall Wash only (standard) <sup>5</sup> FO - Fully Open for Wall Wash only	96LG - 96 Low Gloss White SW - Signal White for Wall Wash only	120 - 120 Voltage 277 - 277 Voltage 347 - 347 Voltage (OTI only)	SC - Single Circuit* One single circuit in a run  MC - Multi-Circuit* More than one switch leg or zone. Factory shop drawings required  * Battery, Night Light, and Emergency to Generator circuits are in addition to the normal luminaire circuit(s)	

ELECTRICAL OPTIONS			
Driver Selection			
<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>3</sup> OTi-1% - EldoLED OTi, 0-10V 1% <sup>3</sup> ELD-10V-0% - EldoLED SOLOdrive, 0-10V 0.1% 10V-TW-10% - EldoLED OTi, 0-10V 10% (Tunable White) <sup>3</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)	<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 Dalı-2 1% (Tunable White)

See Page 3 for additional driver options and details

MOUNTING OPTIONS		OTHER OPTIONS	
Ceiling Hardware Type	Endcap Style	Finish	
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 TZ4 - Tech Zone 4" _____ (C1, C2, C2T, C3, C3F)	FE - Flat Endcap (standard)	SW - Signal White (standard) FB - Finelite Black SA - Satin Aluminum #### - RAL Color Code <sup>7</sup> _____

OTHER OPTIONS		
Emergency Style (Optional)	Integrated Sensor (Optional) <sup>8</sup>	Special Options (Optional)
LGD18W - Legrand 18W Brand Battery Back-up LGD10W - Legrand 10W Brand Battery Back-up EM/GEN - Emergency to Generator NL - Night Light BSL310LP - Bodine Battery Back up Low Profile GTD - Generator Transfer Device ALCR - Automatic Load Control Relay	OBO - Occupancy <sup>9</sup> OBD - Daylight <sup>9</sup> W601 - Wattstopper Wireless Sensor <sup>10</sup> OBE - Enlighted <sup>11</sup> REE - Remote Enlighted <sup>12</sup> CLM - Encelium RF SLM - Encelium Sensor	AOCC-W - Lutron Athena Sensor (Device Color White) <sup>13</sup> AOCC-B - Lutron Athena Sensor (Device Color Black) <sup>13</sup> ARF-W - Lutron Athena RF (Device Color White) <sup>13</sup> ARF-B - Lutron Athena RF (Device Color Black) <sup>13</sup> VOCC - Lutron Vive Wireless Sensor (VDO) <sup>14</sup> VRF - Lutron Vive Radio Only <sup>14</sup>

<sup>1</sup> Recessed Regressed straight run only  
<sup>2</sup> Contact factory for switching options  
<sup>3</sup> Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO)  
<sup>4</sup> Not available with Regressed or Curves  
<sup>5</sup> Kicker standard in Signal White. Customer Custom color kickers have a surcharge  
<sup>6</sup> B & V outputs only  
<sup>7</sup> 20 business days lead time for color  
<sup>8</sup> Minimum fixture length with a sensor is 3ft.  
<sup>9</sup> Not available with Wall Wash  
<sup>10</sup> LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected.  
<sup>11</sup> LMFS-601 w/ Dalı driver, only 1 driver can be connected.  
<sup>12</sup> Enlighted components installed by Finelite, provided by others  
<sup>13</sup> Enlighted for Wall Wash fixtures. Enlighted Control Unit & Sensor Cable installed for Remote mounting sensor.  
<sup>14</sup> 0-10V Drivers - AOCC up to 10 drivers may be connected; ARF up to 40 drivers may be connected DALı Drivers - AOCC & ARF up to 4 drivers can be connected.  
<sup>15</sup> Lutron Vive Integrated Sensors require a DALı driver  
<sup>16</sup> Only available with C1, C2, and C3 mounting hardware with Finelite Gridbox

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## 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>DXL-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

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## SPECIFICATIONS

### BODY TYPE

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

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

**MITERED CORNERS**<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, or White Cross Blade Baffle<sup>2</sup>. Corners not available with Wall Wash (**WW-D**), Hollowed Ellipse Louver (**LHE**), Hex Louver (**LHC**) or 1" Drop Down Lens. Contact factory for Double miters using the White Cross Blade Baffle. 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.

### 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**), Bottom Glow (**BG**), 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 Asymmetric Optic (**DAO**)<sup>5</sup>, Downlight Spread Optic (**DSO**)<sup>5</sup>, and Regressed downlight diffusers (**RG**)<sup>3</sup>. 1" Drop Down Lens made of highly efficient acrylic. Available with a solid endcap or an endcap with a diffuse filler to continue the luminous aesthetic. Downlight Spread & Downlight Asymmetric Optics are extruded lenses with a subtle ribbed appearance providing a batwing or asymmetric distribution for improved optical performance. Consult factory for more tailored lumen outputs.

**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 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:**  $\geq 0.9$

– **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:**  $\geq 0.90$

– **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.

<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 straight run only

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

<sup>5</sup> Not available with Regressed or Curves

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## 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' (standard), 12', and 30'.

**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.

Backup Battery		
	Legrand 18W	Legrand 10W / Bodine BSL310LP
<b>HP2-R-D</b>		
Min. Housing Length	8*	4**
EM Lumen Output	1608	956
EM Section Illuminated	2'	2' or 4'
<b>HP2-R-WW-D</b>		
Min. Housing Length	8*	4**
EM Lumen Output	1500	891
EM Section Illuminated	4'	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 11.

Bodine GTD and Legrand ALCR Min. Length	
Configuration	Min Length
Generator	6'
Generator + OCC	8'
Daylight	6'
Generator + Daylight	8'

### TUNABLE WHITE ELECTRICAL OPTIONS<sup>6</sup>:

#### TW Driver Options

- **0-10V:** EM/GEN, GTD or Battery BackUp
- **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.

**FINISHES:** Finelite Signal White (**SW**) powder coat, Finelite Black (RAL 9005) with semi gloss fine texture (**FB**), and Satin Aluminum (**SA**) are standard. Optional Adder: 179 RAL colors<sup>7</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. HP-2 can be used to comply with 2016 Title 24, Part 6 (JA8); high efficacy LED light source requirements. 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>8</sup>:** R - 2.3 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.

<sup>6</sup> Consult Finelite for Generator Transfer Device and Battery Backup fit

<sup>7</sup> 20 business days lead time for color

<sup>8</sup> Excludes Battery Backup and Generator Transfer Device weight

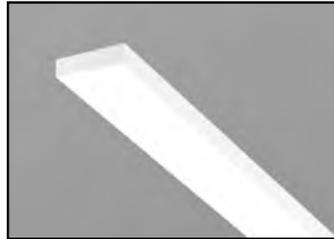
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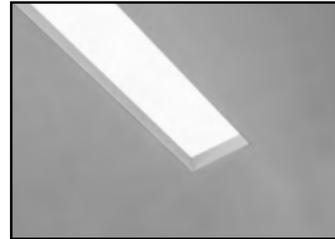
## AESTHETIC OPTIONS



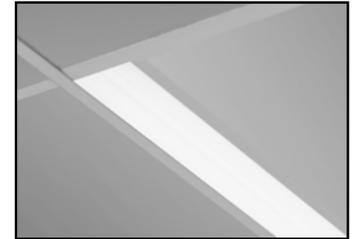
Flush Diffuser (**F**)



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



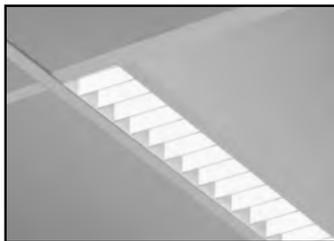
Flat Diffuser with 1" Regressed (**RG-D**)



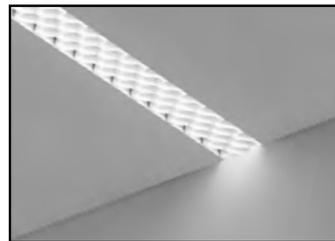
Downlight Asymmetric Optic (**DAO**)<sup>1</sup>  
Externally flush



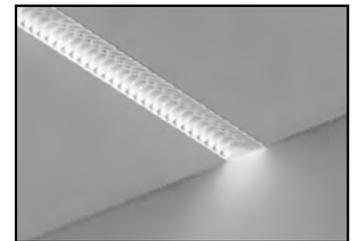
Downlight Spread Optic (**DSO**)<sup>1</sup>  
Externally flush



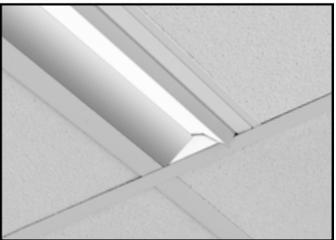
White Cross Blade Baffle<sup>2</sup> (**RG-WCB**)



Hex Louver<sup>2</sup> (**RG-LHC**)



Hollowed Ellipse Louver<sup>2</sup> (**RG-LHE**)



Kicker (**K**) - Wall Wash only

<sup>1</sup> With a subtle ribbed appearance providing specialized distribution

<sup>2</sup> Regressed only. Not available with Wall Wash

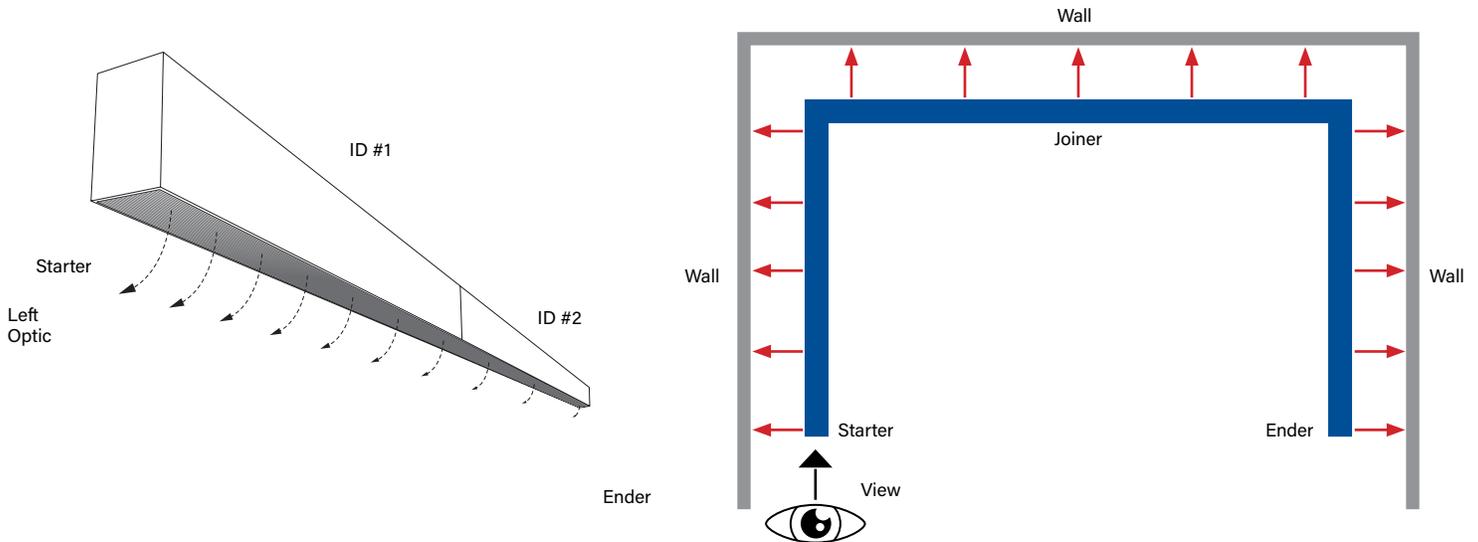
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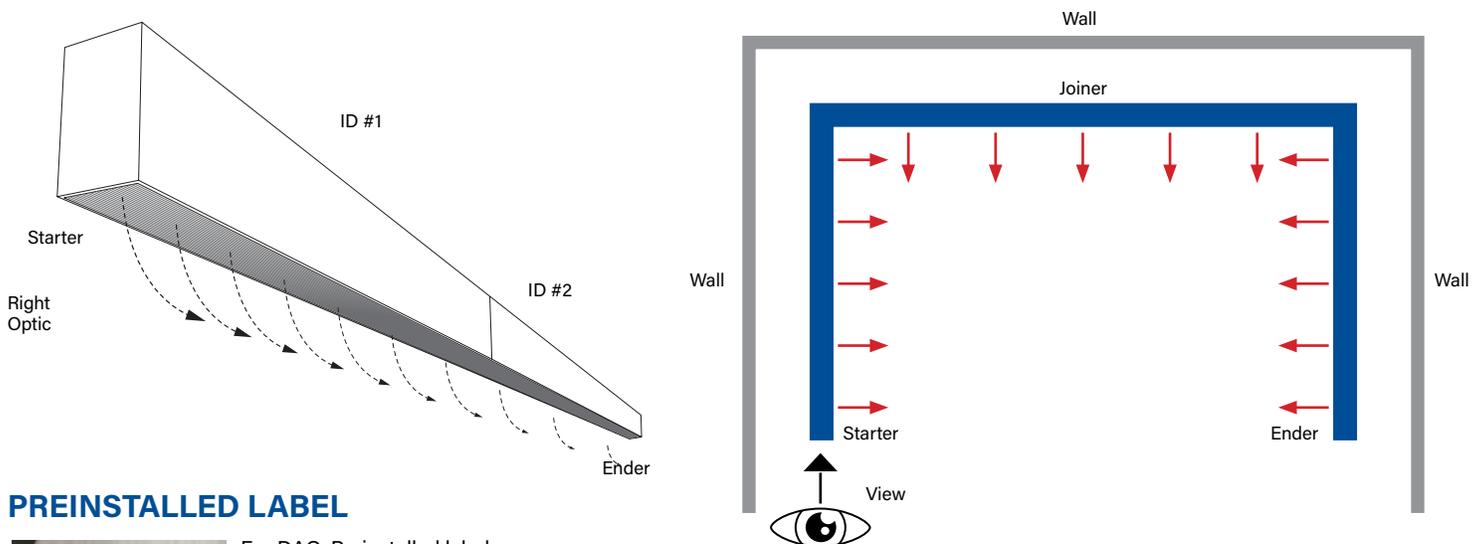
## DOWNLIGHT ASYMMETRIC OPTIONS

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

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



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



## PREINSTALLED LABEL



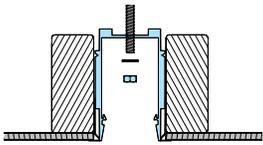
For DAO, Preinstalled label on diffuser shows direction of light. Remove after installation.

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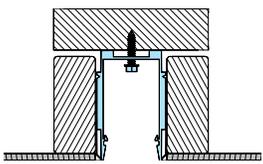
# High Performance 2" Aperture (HP-2) Recessed

## HARD CEILING MOUNTING OPTIONS

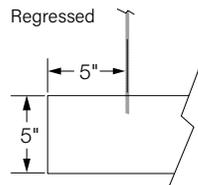
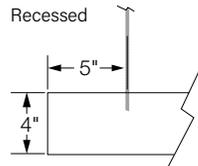
### Threaded Rod Option



### Screw Mount Option

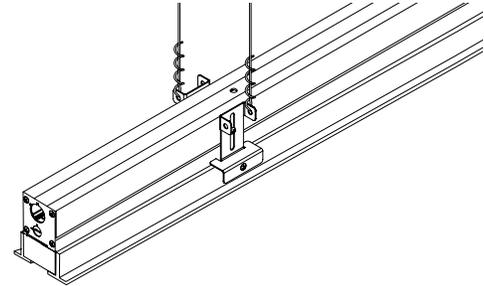


### Mounting Location for Securing to Structure



Two mounting options: threaded rod and screw mounting options. Mounting locations are located on each end of the luminaire. Mounting location is 5" away from each end of luminaire.

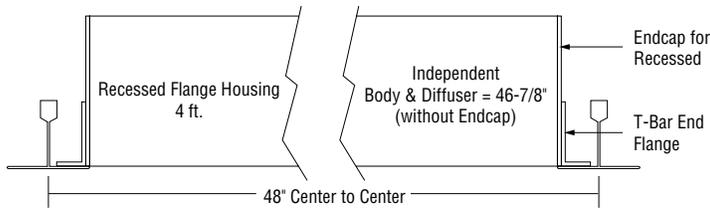
## T-BAR INSTALLATION



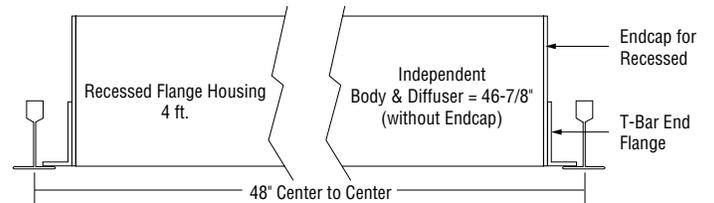
HP-2 R for T-Bar installations comes standard with a splice plate at the end of the luminaire. Mounting brackets (supplied) secure the luminaire to T-Bar and provide support to structure location. All even foot length (2, 4, 6, ...) luminaire runs are reduced in length by an appropriate amount to fit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

## GRID LENGTH DETAIL - 4' EXAMPLE

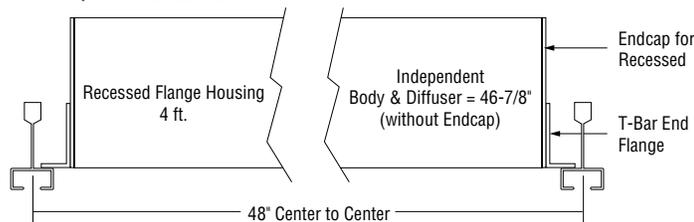
### 15/16" T-Bar



### 9/16" T-Bar

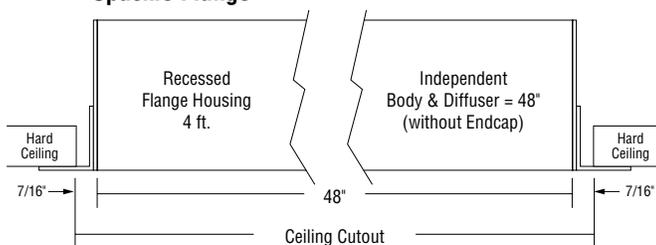


### 9/16" Screw Slot

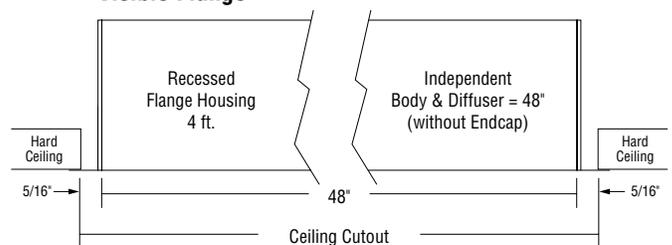


## HARD CEILING LENGTH DETAIL - 4' EXAMPLE

### Spackle Flange



### Visible Flange

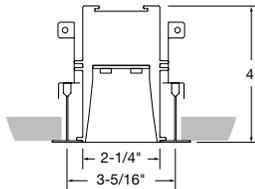


Submitted by:		Date:
Type:	Project:	
Ordering Info:		

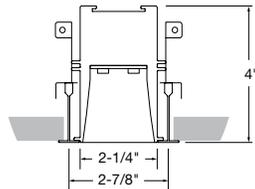
# High Performance 2" Aperture (HP-2) Recessed

## RECESSED MOUNTING TYPES - T-BAR

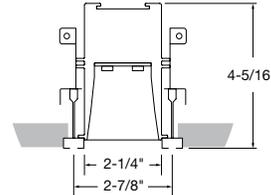
Rough-In Dimensions



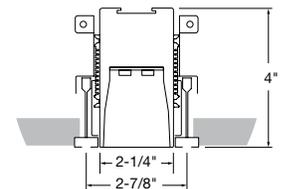
15/16" T-Bar (C1)



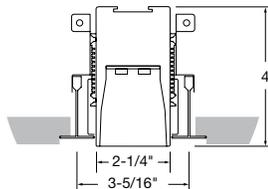
9/16" T-Bar (C2)



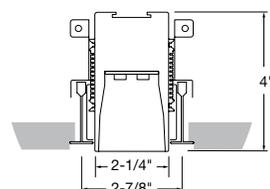
Standard Screw Slot (C3)



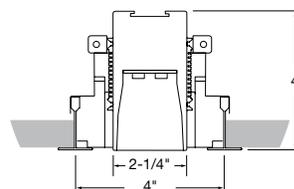
Flush Screw Slot (C3F)



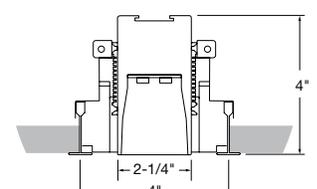
15/16" Tegular (C1T)



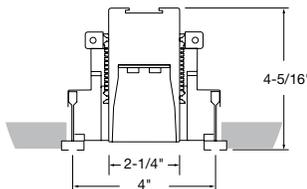
9/16" Tegular (C2T)



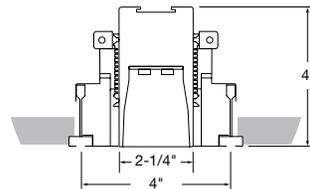
Tech Zone 4" (TZ4)  
15/16" T-Bar (C1)



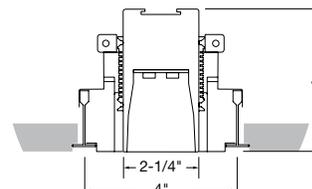
Tech Zone 4" (TZ4)  
9/16" T-Bar (C2)



Tech Zone 4" (TZ4)  
Standard Screw Slot (C3)

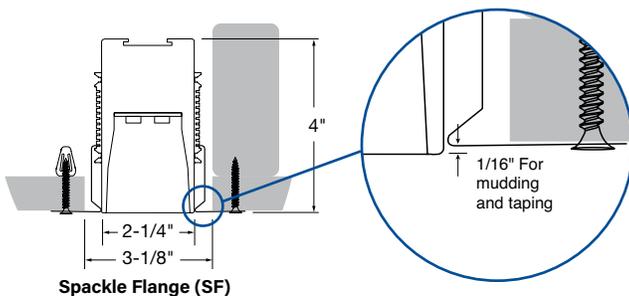


Tech Zone 4" (TZ4)  
Flush Screw Slot (C3F)

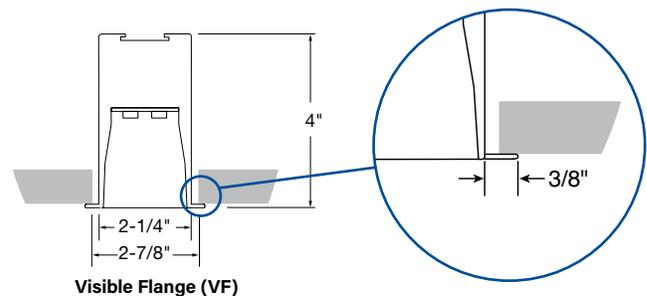


Tech Zone 4" (TZ4)  
9/16" Tegular (C2T)

## RECESSED MOUNTING TYPES - CUTOUT DIMENSIONS



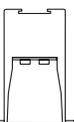
Spackle Flange (SF)



Visible Flange (VF)

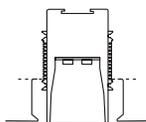
## HOUSING

Version 1



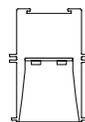
Ceiling Option VF

Version 2



Ceiling Options  
C1T, C2T, C3F, SF, TZ4

Version 3



Ceiling Options  
C1, C2, C3

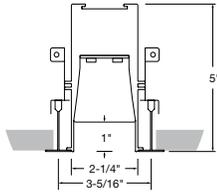
Note: +/- 1/16"

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

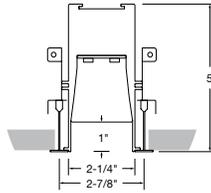
# High Performance 2" Aperture (HP-2) Recessed

## REGRESSED MOUNTING TYPES - T-BAR

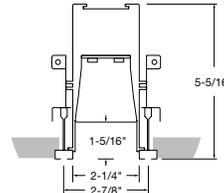
Rough-In Dimensions



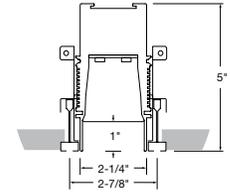
15/16" T-Bar (C1)



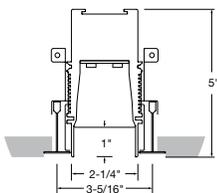
9/16" T-Bar (C2)



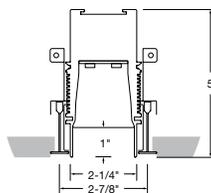
Standard Screw Slot (C3)



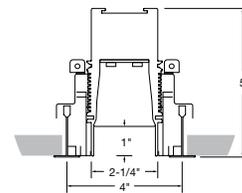
Flush Screw Slot (C3F)



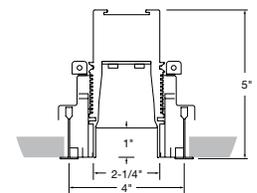
15/16" Tegular (C1T)



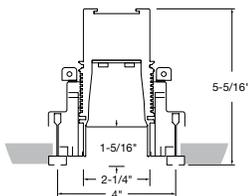
9/16" Tegular (C2T)



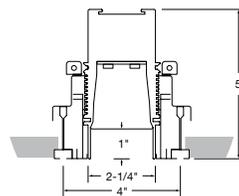
Tech Zone 4" (TZ4)  
15/16" T-Bar (C1)



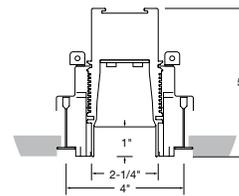
Tech Zone 4" (TZ4)  
9/16" T-Bar (C2)



Tech Zone 4" (TZ4)  
Standard Screw Slot (C3)

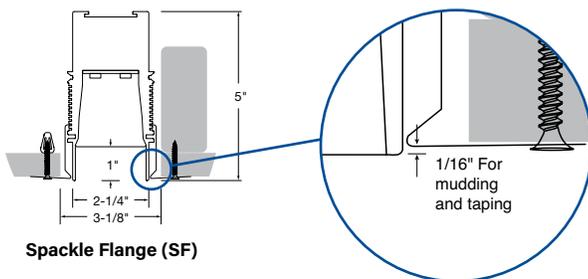


Tech Zone 4" (TZ4)  
Flush Screw Slot (C3F)

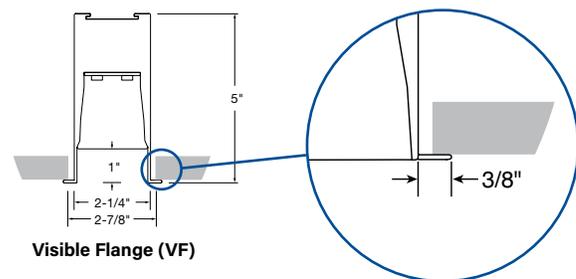


Tech Zone 4" (TZ4)  
9/16" Tegular (C2T)

## REGRESSED MOUNTING TYPES - CUTOUT DIMENSIONS



Spackle Flange (SF)

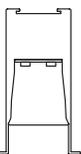


Visible Flange (VF)

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

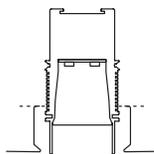
## HOUSING

Version 1



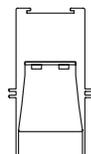
Ceiling Option VF

Version 2



Ceiling Options  
C1T, C2T, C3F, SF, TZ4

Version 3



Ceiling Options  
C1, C2, C3

Note: +/- 1/16"

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

# High Performance 2" Aperture (HP-2) Recessed

## Recessed Photometry - 4' Luminaire 3500K

### HP2-R-D-4'-V-835-DAO

**Downlight:** Downlight Asymmetric Optic - Right

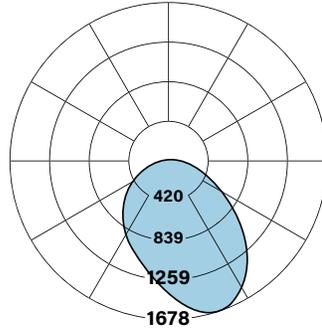
**Efficacy:** 105 lm/W

**Total luminaire output:** 3741 lumens (935 lm/ft)  
35.5 watts (8.9 W/ft)

**Peak Candela Value:** 1670 @ 0°

CRI: 80 / CCT: 3500K

ITL LM79 Report REP-051921-01



### HP2-R-D-4'-V-835-DSO

**Downlight:** Downlight Spread Optic

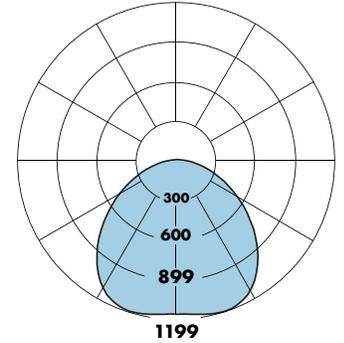
**Efficacy:** 92 lm/W

**Total luminaire output:** 3273 lumens (818 lm/ft)  
35.7 watts (8.9 W/ft)

**Peak Candela Value:** 1197 @ 0°

CRI: 80 / CCT: 3500K

ITL LM79 Report 94139



#### 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>
1531	1925	2910	3741

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
383	481	727	935

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
3.5	4.4	6.8	8.9

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
110	109	107	105

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

<sup>1</sup> Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

<sup>2</sup> Based on ITL report: REP-051921-01

#### 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>
1340	1684	2546	3273

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
335	421	636	818

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
3.5	4.4	6.8	8.9

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
96	95	93	92

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

<sup>1</sup> Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

<sup>2</sup> Based on ITL report: 94139

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:** 2910 lm x 0.789 = 2296 lm  
**Total Light Output per Foot:** 707 lm/ft x 0.789 = 574 lm/ft.  
**watts/foot:** 6.8 W/ft.

$$\text{Efficacy} = \frac{574 \frac{\text{lm}}{\text{ft.}}}{6.8 \frac{\text{W}}{\text{ft.}}} = 84 \text{ lm/W}$$

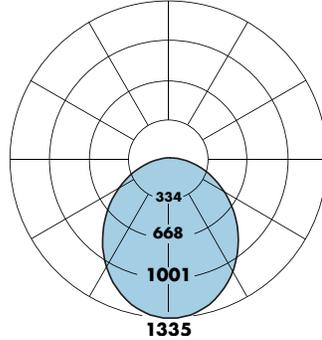
Submitted by:		Date:
Type:	Project:	
Ordering Info:		

# High Performance 2" Aperture (HP-2) Recessed

## Recessed Photometry - 4' Luminaire 3500K

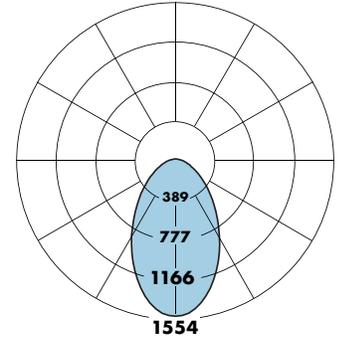
**HP2-R-D-4'-V-835**  
Downlight: Flush Diffuser

**Efficacy:** 89 lm/W  
**Total luminaire output:** 3287 lumens (822 lm/ft)  
36.9 watts (9.2 W/ft)  
**Peak Candela Value:** 1335 @ 0°  
CRI: 80 / CCT: 3500K  
ITL LM79 Report 85135



**HP2-R RG-D-4'-V-835**  
Downlight: Regressed Diffuser

**Efficacy:** 79 lm/W  
**Total luminaire output:** 2907 lumens (727 lm/ft)  
37 watts (9.3 W/ft)  
**Peak Candela Value:** 1554 @ 0°  
CRI: 80 / CCT: 3500K  
ITL LM79 Report 90351



### 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>
1346	1692	2557	3287

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
336	423	639	822

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
3.6	4.6	7.1	9.2

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
93	92	90	89

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

<sup>1</sup> Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

<sup>2</sup> Based on ITL report: 85135

### 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>
1190	1496	2261	2907

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
298	374	565	727

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
3.6	4.6	7.1	9.3

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
82	81	80	79

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

<sup>1</sup> Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

<sup>2</sup> Based on ITL report: 90351

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:** 2557 lm x 0.789 = 2017 lm  
**Total Light Output per Foot:** 639 lm/ft x 0.789 = 504 lm/ft.  
**watts/foot:** 71 W/ft.

$$\text{Efficacy} = \frac{504 \frac{\text{lm}}{\text{ft.}}}{7.1 \frac{\text{W}}{\text{ft.}}} = 71 \text{ lm/W}$$

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

# High Performance 2" Aperture (HP-2) Recessed

## Wall Wash Recessed - 4' Luminaire 3500K

**HP2-R-WW-D-K-4'-V-835**

**Downlight:** With Kicker

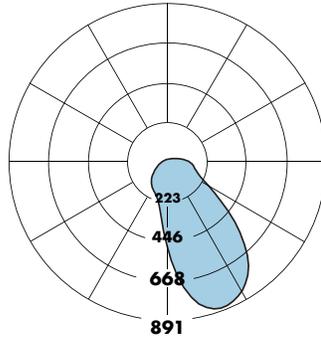
**Efficacy:** 76 lm/W

**Total luminaire output:** 1500 lumens (375 lm/ft)  
19.6 watts (4.9 W/ft)

**Peak Candela Value:** 882 @ 25°

CRI: 80 / CCT: 3500K

ITL LM79 Report 85137



### 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>
614	772	1167	1500

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
154	193	292	375

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
2.0	2.5	3.8	4.9

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

S <sup>1</sup>	B <sup>1</sup>	H <sup>1</sup>	V <sup>2</sup>
76	77	77	77

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

<sup>1</sup> Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

<sup>2</sup> Based on ITL report: 85137

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:** 1167 lm x 0.789 = 921 lm  
**Total Light Output per Foot:** 292 lm/ft x 0.789 = 230 lm/ft.  
**watts/foot:** 3.8 W/ft.

$$\text{Efficacy} = \frac{292 \frac{\text{lm}}{\text{ft.}}}{3.8 \frac{\text{W}}{\text{ft.}}} = 61 \text{ lm/W}$$

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

# High Performance 2" Aperture (HP-2) Recessed

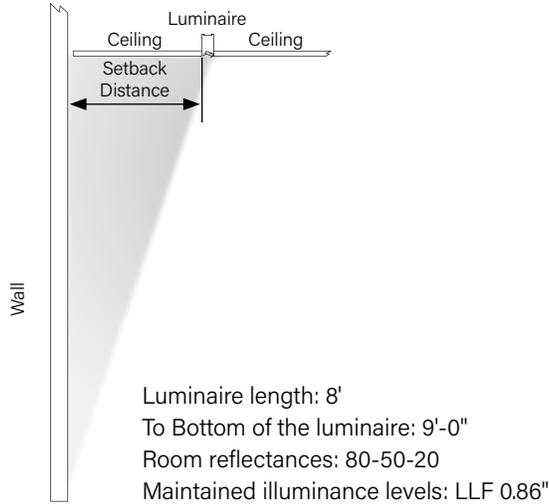
## WALL WASH RECESSED - SETBACK INFO AND APPLICATION DATA

**HP2-R-WW-D-K-4'-V-835**

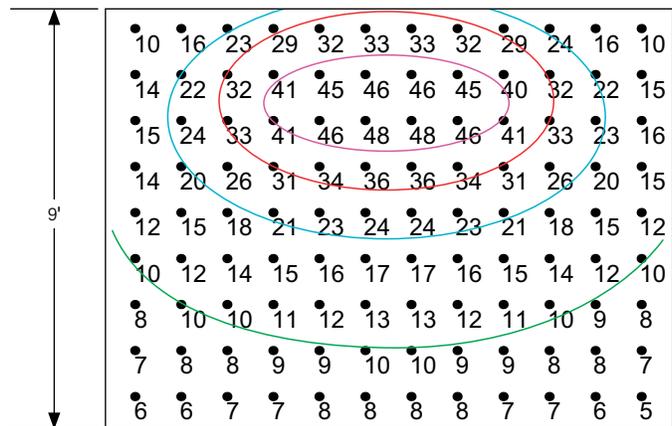
**Downlight:** With Kicker

**Total luminaire output:** 1500 lumens (375 lm/ft)  
19.6 watts (4.9 W/ft)

CRI: 80 / CCT: 3500K



Setback Distance - 2'



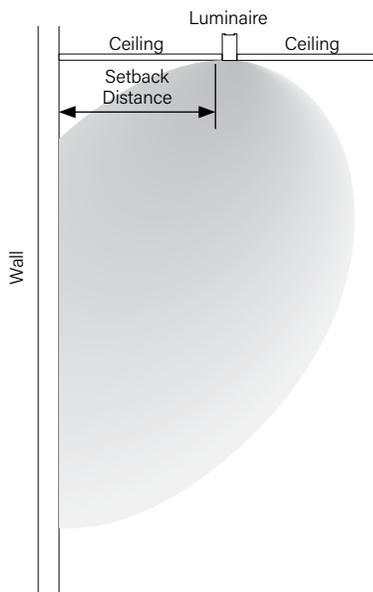
## DOWNLIGHT ASYMMETRIC OPTIC - SETBACK INFO AND APPLICATION DATA

**HP2-R-D-4ft-V-835-DAO**

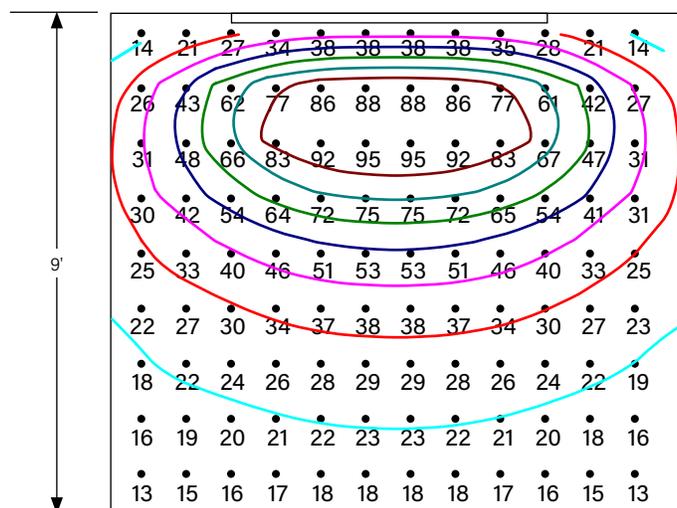
**Downlight:** DAO

**Total luminaire output:** 3742 lumens (936 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 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:**

Dim to Off options available.

## LUMINAIRE FAMILY MODIFICATIONS/RESTRICTIONS

Recessed 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)							✓		✓		✓	

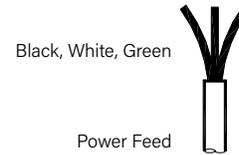
## PHOTOMETRY

Apply a power adjustment factor to calculate wattage usage

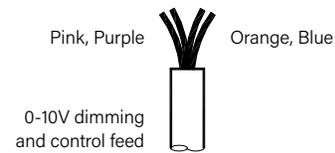
POWER	CONVERSION FACTOR
	<b>1.1X</b>

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

## DUAL FEED DETAIL



WIRING LEGEND		
<b>Black</b>	Hot	Line Voltage
<b>White</b>	Neutral	Line Voltage
<b>Green</b>	Ground	



WIRING LEGEND		
<b>Pink</b>	Dimming	0-10V DC
<b>Purple</b>	Dimming	0-10V DC
<b>Orange</b>	TW	0-10V DC
<b>Blue</b>	TW	0-10V DC

