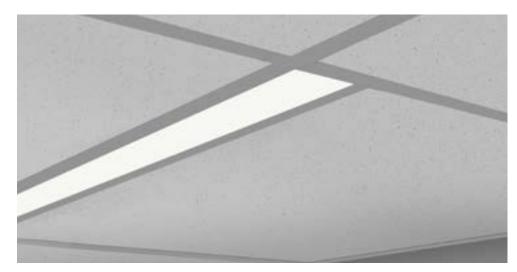
Submitted by:		Date:	FINFLITE
Туре:	Project:		
Ordering Info:		Better Lighting	

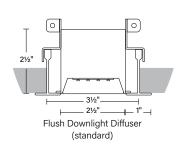


The High Performance 2.5" Aperture (HPX) is a patented LED linear luminaire with a square micro profile and internal driver design. This Line-of-Light luminaire delivers excellent performance and is equipped with a unique LED configuration for superior illumination. HPX can be tailored from 2' to 12' sections in 1' increments and is available in Pendant, Surface Mount, and Recessed.

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.

CROSS SECTIONS

Recessed



ALSO AVAILABLE IN





Surface Mount (SM)

LUMEN OUTPUT PACKAGES









PERFORMANCE

Up to Lumens per Foot

Lumens per Watt













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Туре:	Project:		
Ordering Info:		Better Lighting	

Ordering Guide Example: HP - X - R - D - 36' - S - 835 - F - 120 - SC - FC-10% - C1 - FE - SW - LGD18W - OBD - CP

BODY TYPE

Platform	Series Name	Luminaire Type	Luminaire Distribution	Total Run Length of Configuration
HP - High Performance	X - 2.5" Square	R - Recessed	D - Direct	Minimum 2' section length. Increments of 1'; 12' maximum section length

MECHANICAL/ OUTPUT AND LED TYPE **ELECTRICAL OPTIONS OPTICAL OPTIONS**

Downlight Output	CCT and CRI	Downlight Option	Voltage	Circuiting ¹
S - Standard B - Boosted Standard H - High V - Very High TL - Tailored: Im/ft * * Specify Im/ft of outputs between Standard (S) and Very High (V). Consult factory for tailored lumen output outside of this range.	830 - 80 CRI min, 3000K 835 - 80 CRI min, 3500K 840 - 80 CRI min, 4000K 930 - 90 CRI min, 3000K 935 - 90 CRI min, 3500K 940 - 90 CRI min, 4000K 8TW - 80 CRI min, Tunable White 9TW - 90 CRI min, Tunable White	F - Flush	120 - 120 Voltage 277 - 277 Voltage 347 - 347 Voltage	SC - Single Circuit* One single circuit in a run MC - Multi Circuit* More than one switch leg or zone (not 'DC' indepedent control of up and down separately for an I/D style fixture). Factory shop drawings required *Battery, Night Light, and Emergency to Generator circuits are in addition to the normal luminaire circuit(s)

ELECTRICAL OPTIONS MOUNTING OPTIONS

Driver	Ceiling Hardware Type	
0-10V Driver Options	Lutron Driver Options	C1 - 15/16" T-Bar
FC-10% - 0-10V 10% (standard)	LUT-ES1 - Lutron, Ecosystem 1%	C2 - 9/16" T-Bar
FC-1% - 0-10V 1%	LUT-TW - Lutron T-Series, EcoSystem 0.1% (Tunable White)	C3 - Screw Slot
OTi-10% - EldoLED OTi, 0-10V 10% ²		SF - Spackle Flange
OTi-1% - EldoLED OTi, 0-10V 1% ²		
ELD-10V - EldoLED SOLOdrive, 0-10V 0.1%		
10V-TW-10% - EldoLED OTi, 0-10V 10% (Tunable White) ²		
DALI Driver Options		
FC-DALI-1% - DALI 1%		
DXL-DALI-1% - EldoLED Dexal, 1%		
ELD-DALI-0% - EldoLED SOLOdrive, DALI 0.1%	See Page 3 for additional driver options and details	
ELD-DALI-TW - EldoLED Dual Drive Light Shape, 1% (Tunable White)		

OTHER OPTIONS

Endcap Style	Emergency Style (Optional) See page 4 Backup Battery table		ated Sensor optional) ⁵	Special Options (Optional)
FE - Flat Endcap	LGD18W - Legrand 18W Brand Battery Back-up LGD10W - Legrand 10W Brand Battery Back-up	OBO - Occupancy OBD - Daylight	AOCC-W - Lutron Athena Sensor 9 (Device Color White)	CP - Chicago Plenum RLA - Red List Approved
Finish	EM/GEN - Emergency to Generator	W601 - Wattstopper	AOCC-B - Lutron Athena Sensor 9	RLD - Declare
SW - Signal White FB - Finelite Black SA - Satin Aluminum #### - RAL Color Code 4	NL - Night Light BSL310LP - Bodine Battery Back up Low Profile GTD - Generator Transfer Device ALCR - Automatic Load Control Relay	Sensor ⁶ OBE - Enlighted Sensor ⁷ REE - Remote Enlighted ⁸ CLM-99 - Encelium RF SLM-99 - Encelium Sensor	(Device Color Black) ARF-W - Lutron Athena RF 9 (Device Color White) ARF-B - Lutron Athena RF 9 (Device Color Black) VOCC - Lutron Vive Sensor 10 VRF - Lutron Vive RF 10	

- 1 Contact factory for switching options
 2 Add DTO to gain "Dim to Off" functionality (FC-10% DTO, FC-1% DTO)
 3 20 Business day lead time for color
 4 BSL 310LP work with HPX Direct 8ft without sensor only
 8 Minimum fixture length with a sensor is 4ft.
 9 Minimum fixture length with a sensor is 4ft.
 1 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.
 2 Enlighted components installed by Finelite, Provided by other
 8 Enlighted Control Unit & Sensor Cable installed for Remote mounting sensor
 9 -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
 9 Lutron Vive Ingrated Sensors require a DALI driver.

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

SUPPLEMENTARY DRIVER PAGE

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

DALI Driver Options		
FC-DALI-1%	Factory Choice, DALI 1% Dimming (Logarithmic)	
DXL-DALI-1%	EldoLED Dexal, DALI 1% Dimming (Logarithmic)	
ELD-DALI-0%	EldoLED SOLOdrive, DALI 0.1% Dimming (Logarithmic)	
ELD-DALI-1%	EldoLED ECOdrive, DALI 1% Dimming (Logarithmic)	
ELD-DALI-TW	EldoLED DUALdrive Light Shape, DALI 1% Dimming, Tunable White (Logarithmic Dimming, Linear CCT Control)	

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

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

SPECIFICATIONS

BODY TYPE

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

LENGTHS: Any length, 2' minimum section length. Increments of 1'. 12' maximum section length.

OUTPUT AND LED TYPE

LIGHT OUTPUT: Four lumen packages available, Standard (**S**), Boosted Standard (**B**), High (**H**), and Very High (**V**). A separate chart summarizes lumen distribution and wattage. For Tailored Outputs outside of range from Standard (**S**) to Very High (**V**), consult factory. Light engines are replaceable.

MECHANICAL/OPTICAL OPTIONS

DOWNLIGHT OPTION: 12' maximum diffuser length. Flush (**F**) frost white snap-in diffuser, standard; 73% transmissive, 99% diffusion

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

ELECTRICAL OPTIONS

STATIC WHITE FEED: 18-gauge/5-conductor single-circuit feed wire, standard. 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 fixture current exceeds 5 amps.

STATIC WHITE DRIVER: Replaceable 120V, 277V, and 347V Constant Current Reduction dimming driver standard. Can be wired dimming or non-dimming. 0-10V dimming controls with a range of 10% - 100%. Dimming to 1% available; Consult factory. Driver is fully accessible from below the ceiling.

- Power Factor: ≥ 0.9

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

LUTRON STATIC DRIVER OPTIONS:

- LUTES1 Hi-lume 1% EcoSystem with Soft-On, Fade-to-Black dimming (LDE1 series)
- LUTES5 5-Series 5% EcoSystem (LDE5 Series)

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

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

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

MOUNTING TYPE

HANGING HARDWARE:

- Recessed Spackle Flange: Drywal surfaces (walls or ceilings): 1/4" 20 stud and nut (provided by others). Mounted with three equidistant suspension points.
- 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.

OTHER OPTIONS

ENDCAPS: Flat endcaps (**FE**) at each end of run add 1/16" to each end of luminaire.

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		
HPX-R-D				
Min. Housing Length	8'*	8'*		
EM Lumen Output	2024	1202		
EM Section Illuminated	2'	2' or 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 7.

TUNABLE WHITE ELECTRICAL OPTIONS:

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

Bodine GTD and Legrand ALCR Min. Length			
Configuration Min Length			
Generator	4'		
Generator + OCC	6'		
Daylight	4'		
Generator + Daylight	6'		

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 4ft.

Submitted by:		Date:	FINELITE
Type:	Project:		
Ordering Info:			Better Lighting

SPECIFICATIONS

FINISHES: Finelite Signal White (**SW**) powder coat standard. Finelite Black (RAL 9005) with semi gloss fine texture (**FB**) and satin Aluminum (**SA**) are available. Optional Adders: 179 RAL colors. ¹

LABELS: Luminaire and electrical components are ETL-listed conforming to UL 1598 in the U.S.A. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.130 (G), this luminaire contains an internal driver disconnect. UL 924 and UL 2108 - PoE options available on request, contact factory for more details. These fixtures are rated for Damp Location. 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. High efficacy LED light source requirements. Finelite makes the specification process easy when putting healthier products on your projects. Simply add – **RLA** (Red List Approved) or – **RLD** (Red List Declared) to your part number.

WEIGHT: 2.3 lb/ft.

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

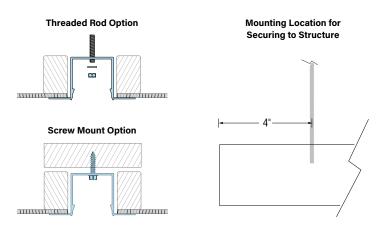
120 Business day lead time for color

INTEGRATED SENSOR



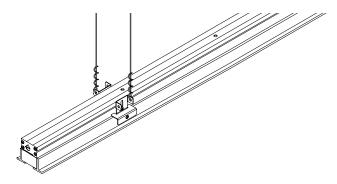
Integrated PIR (Passive Infrared) occupancy or daylight sensors available with Flush and Bottom Glow downlight diffusers. Refer to Occupancy Sensor and Daylight Sensor tech sheets for more info.

HARD CEILING MOUNTING OPTIONS



Two mounting options: threaded rod and screw mounting options. Mounting locations are located on each end of the luminaire. Mounting location is 4" away from each end of luminaire

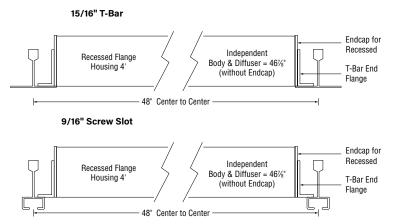
T-BAR INSTALLATION

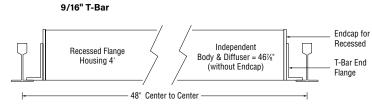


HPX-R for T-Bar installations comes standard with a splice plate at the end of the luminaire. Mounting brackets (supplied) secure the luminaire to T-Bar and provide support to structure location. All even foot length (2, 4, 6...) luminaire runs are reduced in length an appropriate amount to fit within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

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Ordering Info:			Better Lighting

GRID LENGTH DETAIL - 4' EXAMPLE



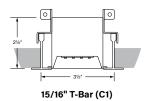


HARD CEILING LENGTH DETAIL - 4' EXAMPLE

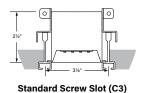
Spackle Flange Recessed Flange Housing 4' Recessed Flang

RECESSED MOUNTING TYPES T-BAR

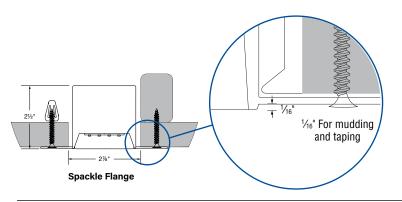
Rough-In Dimensions



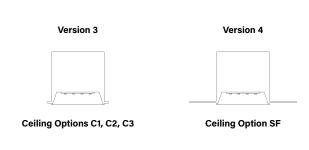
9/16" T-Bar (C2)



RECESSED MOUNTING TYPES CUTOUT DIMENSIONS



HOUSING



Page 6

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



Recessed Photometry

4' Luminaire 3500k

HPX-R-D-V-835-F

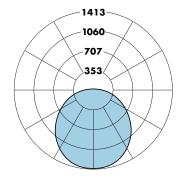
Efficacy: 124 lm/W

Total luminaire output: 4127 lumens (1032 lumens/ft)

33.2 watts (8.3 watts/ft)

Peak Candela Value: 1413 @ 0°

CRI: 80 / CCT: 3500K ITL LM79 Report 93256



CANDLEPOWER SUMMARY						
	0.0	22.5	45.0	67.5	90.0	Flux
0	1413	1413	1413	1413	1413	
5	1409	1407	1408	1408	1407	134
15	1363	1354	1360	1361	1358	383
25	1267	1253	1264	1264	1261	581
35	1127	1116	1126	1123	1119	702
45	951	945	950	946	944	731
55	746	743	747	743	741	665
65	520	521	523	522	522	517
75	292	295	298	299	300	315
85	89	88	91	91	91	100
90	0	0	0	0	0	

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaure			
S¹	B¹	H¹	V ²
1689	2124	3210	4127

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
S¹	B¹	H¹	V ²	
422	531	802	1032	

Power, 3500K, CRI (Watts Per Foot)			
S¹	B¹	H¹	V²
3.2	4.1	6.4	8.3

1	Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
	S¹	B¹	H¹	V ²
	130	129	126	124

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: 3210 lm x 0.789 = 2533 lm

Total Light Output per Foot: 802 lm x 0.789 = 633 lm

watts/foot: 6.4 W/ft.

Efficacy =
$$\frac{633 \frac{lm}{ft.}}{6.4 \frac{W}{ft}} = 99 \text{ lm/W}$$

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

s - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output 1 Based on 4^t luminaire 3500K Very High Output (**V**) test - 120V.

² Based on ITL report: 93256

Submitted by:		Date:	FINFLIT
Туре:	Project:		
Ordering Info:			Better Lighti

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 - 6500KDimming Range: 100% to 10%CRI Options: 80 CRI or 90 CRI

LUMINAIRE FAMILY MODIFICATIONS/RESTRICTIONS

	Section Lengths										
Recessed Direct	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'
Output S,B,H,V Single Circuit	Rows can be comprised of 2'-12' sections.										
Integral Battery Backup (BSL310LP)							√		√		\checkmark

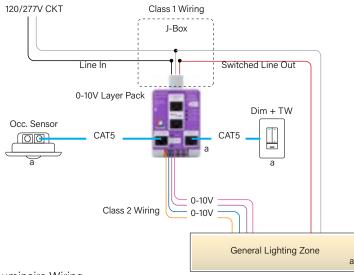
PHOTOMETRY

Apply a power adjustment factor to calculate wattage usage

POWER	CONVERSION FACTOR		
	1.1X		

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

WIRING DIAGRAM - DIMMABLE TO 10%



Luminaire Wiring

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

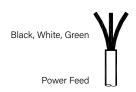
Note:

Load or Dim to Off options available.

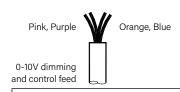


EN/GEN sections available for all body lengths

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			