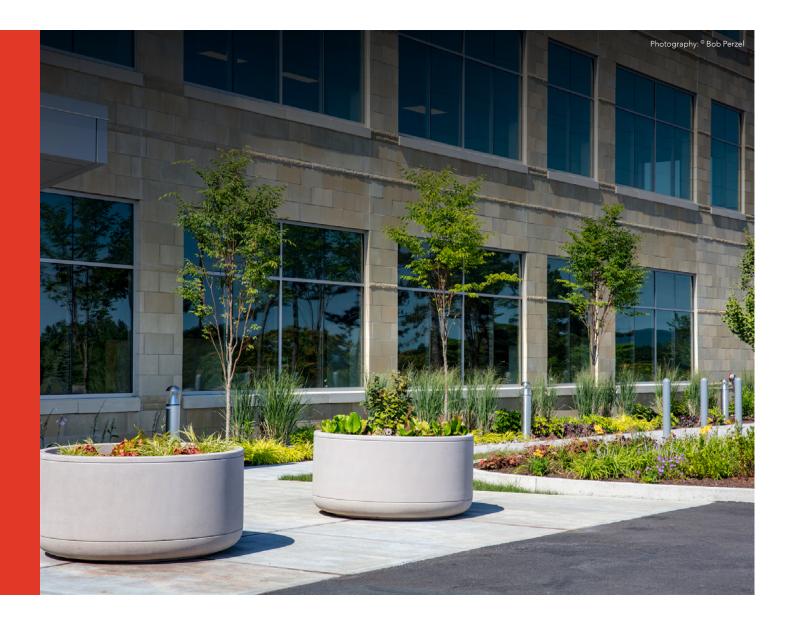
DESIGN AND PERFORMANCE VERSATILITY WITH UNMATCHED FABRICATION FLEXIBILITY



TRIFAB® VERSAGLAZE® 450, 451 & 451T (THERMAL) FRAMING SYSTEMS & TRIFAB® 451UT (ULTRA THERMAL) FRAMING SYSTEM

Trifab® VersaGlaze® is built on the proven and successful Trifab® platform – with all the versatility its name implies. There are enough framing system choices, fabrication methods, design options and performance levels to please the most discerning building owner, architect and installer. The 4.5" depth Trifab® VersaGlaze® Framing System family is available with non-thermal, thermal and ultra-thermal performance levels. The ultra-thermal Trifab® 451UT Framing System, is designed for the most demanding thermal performance and employs adual Isolock® thermal break.



AESTHETICS

Trifab® VersaGlaze® Framing Systems offer designers a choice of front-, center-, back- or multi-plane glass applications. Structural silicone glazing (SSG) and weatherseal glazing options further expand designers' choice, allowing for a greater range of possibilities for specific project requirements and architectural styles. All systems have a 4-1/2" frame depth; Trifab® VersaGlaze® 450 has 1-3/4" sightlines, while Trifab® VersaGlaze® 451/451T and Trifab® 451UT have 2" sightlines.

With seamless incorporation of Kawneer entrances or windows, including GLASSvent® visually frameless ventilators, Trifab® framing can be used on almost any project. These framing systems can also be packaged with Kawneer curtain walls and overhead glazing, thereby providing a full range of proven, and tested, quality products for the owner, architect and installer from a single-source supplier.

ECONOMY

Trifab® VersaGlaze® 450/451/451T/451UT Framing Systems offer a variety of fabrication choices to suit your project:

- **Screw Spline** for economical continuous runs utilizing two-piece vertical members that provide the option to pre-assemble units for efficient handling and installation. (available for all Trifab systems)
- **Shear Block** for punched openings or continuous runs using tubular verticals with shear blocks to connect horizontal members. (available for 450/451/451T systems)
- **Stick** for fast, easy field fabrication. Continuous sill and head receptors are installed with horizontals connected to tubular verticals with shear blocks. (available for 450/451/451T systems)
- Pre-glazed The combination of screw spline construction with pre-glazing in the shop accelerates installation and reduces field labor time while minimizing disruption to the surrounding area or existing tenants. Making it an exceptional choice for new or retrofit applications, particularly in urban areas or where space is limited. (available for 451/451T/451UT framing)



All systems can be flush glazed from either the inside or outside. The weatherseal option provides an alternative to SSG vertical mullions for Trifab® VersaGlaze® 450/451/451T. This ABS/ASA rigid polymer extrusion allows complete inside glazing and creates a flush glass appearance on the building exterior without the added labor of scaffolding or swing stages. Additionally, high-performance flashing options are engineered to eliminate perimeter sill fasteners and associated blind seals.

FOR THE FINISHING TOUCH

Architectural Class I anodized aluminum and painted finishes influoropolymer (AAMA 2605) and solvent-free powder coatings (AAMA 2604) offer a variety of color choices.



PERFORMANCE

Kawneer's Isolock® thermal break technology creates a composite section, prevents dry shrinkage and is available on Trifab® VersaGlaze® 451T. For even greater thermal performance, a dual Isolock® thermal break is used on Trifab® 451UT.

U-factor, CRF values and STC ratings for Trifab® framing systems vary depending upon the glass plane application. Project-specific U-factors can be determined for each individual project.

(See the Kawneer Architectural Manual or Kawneer.com for additional information.)



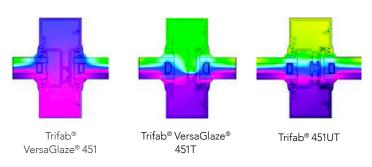


Trifab® 451UT uses a dual Isolock® thermal break (right) and features a new high performance sill design, which incorporates a screw-applied end dam (left), ensuring positive engagement and tight joints between the sill flashing and end dam.

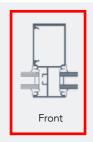
PERFORMANCE TEST STANDARDS

Air Infiltration	ASTM E283
Water	AAMA 501, ASTM E331
Structural	ASTM E330
Thermal	AAMA 1503
Thermal Break	AAMA 505, AAMA TIR-A8
Acoustical	AAMA 1801, ASTM E1425

Thermal simulations showing temperature variations from exterior/cold side to interior/warm side.

















Weatherseal

Multi-Plane

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KAWNEER ANODIZED FINISHES

Kawneer gives you a wide variety of anodized finishes with attractive alternatives. The benefit of a durable, anodized finish is married to the beauty of some very dynamic and exciting colors.

At the start of every design, there's a choice of how you want to finish. Contact your Kawneer sales rep for the information on these and other finishes available from Kawneer.

KAWNEER FINISH NO.	COLOR	ALUMINUM ASSOCATION SPECIFICATION	OTHER COMMENTS
#14	CLEAR	AA-M10C21A41	Architectural Class I (0.7 mils minimum)
#17	CLEAR	AA-M10C21A31	Architectural Class II (0.4 mils minimum)
#40	DARK BRONZE	AA-M10C21A44	Architectural Class I (0.7 mils minimum)
#29	BLACK	AA-M10C21A44	Architectural Class I (0.7 mils minimum)

5 LED Narrow Strip









FEATURES

- Small fixture profile allows inconspicuous placement in coves or confined spaces
- Round and square lensed fixtures provide a clean look for architectural environments
- Row applications produce continuous light with minimal interruption between
- Diffuse acrylic lens on 75R and 75S enhances uniformity and minimizes glare
- Variety of mounting accessories for surface and suspended applications
- Special reflectors are available to provide precise light distribution (75 only)
- Maximize energy savings with efficacies as high as 171 lm/W
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING 22-gauge die-formed C.R.S.
- FINISH 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL High quality mid-power LED board. Rated for 50,000 hours at 70% lumen maintenance (L70). 25°C maximum ambient operating temperature.
- MOUNTING Surface (ceiling or wall) or suspended (hanging hardware required).
- LISTINGS
 - cETLus conforms to UL STD 1598. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations
 - DesignLights Consortium Premium qualified product. Not all versions of this product may be DLC Premium qualified, see the DLC Qualified Products List at designlights.org/QPL
- WARRANTY 5-year limited warranty, see hew.com/warranty.



ORDERING EXAMPLE: 75 - 4 - L85/835 - OPTIONS - DIM - UNV

ORDERING INFO

OKDEKII	NO INFO				
SERIES	LENGTH [1]	LUME	NS [2]	C	RI
75	2 2'	2′		8	80
75R	3 3′	L15	1,500lm	9	90 [7]
75S	4 4'	L20	2,000lm		
	8 8′		3,000lm		
		L40	4,000lm ^[4]		
		3′			
			4,000lm		
		4′			
			3,000lm		
			5,000lm		
			6,500lm		

L85 8,500lm [5] 8' **L60** 6,000lm L100 10,000lm L130 13,000lm L170 17,000lm [6]

CCT **27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K

OPTIONS [3] EM/7WRM Remote mount 7-watt emergency battery $^{[8]}$ Low-profile 10-watt emergency battery [9] EM/10WLP Remote mount 10-watt emergency battery [10] EM/10WRM Two-circuit quick-connect wiring harness. [11] C2 WG-75 11-gauge white powder coat wireguard 315 1-1/2" ceiling spacer VBY (2) Y-hangers VBY-2 (2) Y-hangers and (2) 2' chains Row aligner [12] RA-75 (2) 45° adjustable mounting brackets [13] 45AMB Additional lower lumen packages available. [14]
Example: 7,000 nominal lumens = (L__) 75-4-L85/835-(**L70**)-DIM-UNV

OCCUPANCY SENSOR

FSIR-100

OCCWS FSP-211-L2-120/277 Digital high/low

passive infrared with L2 lens, end mount, 120V or 277V [15] Remote controller for occupancy sensor [16]

MOUNTING (EXAMPLE: AC/D48) [17]

1110011	TINO (EXAMI EE. AC/D	70)	
Prefix	Type	Length	I
AC/	D 1" grid & hardpanN 9/16" gridS Slot grid	24 24" 48 48" 96 96"	

CONTROL [18] DIM Dimming driver Non-dimming driver DRV VDO/DSR

sensor-ready driver

Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and sensor-ready driver Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and VRF/DSR

VOLTAGE 120 120V **277** 277V **UNV** 120-277V 347 347V [19]

QUICKSHIP

75S-4-L50/835-QS-DIM-UNV 75S-4-L50/840-QS-DIM-UNV

75S-8-I 100/835-QS-DIM-UNV 75S-8-L100/840-QS-DIM-UNV

NOTES

- For actual length, see page 4 for FIXTURE DETAILS Lumen output based on 3500 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
 See page 5 for FINISH OPTIONS. See page 4 for
 MOUNTING DETAILS. See page 5 for SPECIAL REFLECTORS.
- Available with 75 only.
- Available with 75 only. Available with 75 only.
- Extended lead times may apply. Consult factory for availability.

- 27 and 3' only; must specify 120V or 277V 2' and 3' only; must specify 120V or 277V 2' and 3' only; must specify 120V or 277V See page 4 for QUICK CONNECT OPTIONS. Required when row mounting with aircraft cables
- 13 Cord recommended, ordered separately. See page 4 for MOUNTING DETAILS. Field-adjustable up and down in 7-1/2°
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Optional FSIR-100 remote controller available, ordered separately, see Options. See page 5 for OCCUPANCY SENSOR DETAILS.
- Please specify quantity required per project, ships separately. Required with suspended mount fixtures. Units specified with aircraft cable require cord. See page 4 for MOUNTING DETAILS. Requires RA-75 row aligner. See page 4 for MOUNTING ACCESSORIES DETAILS.
 See page 3 for ADDITIONAL CONTROL OPTIONS.
- Not available with EM drivers



FIXTURE PERFORMANCE DATA

			75 (NO LENS)		75R &	75S
	LED PACKAGE	WATTAGE	DELIVERED LUMENS	EFFICACY (Im/W)	DELIVERED LUMENS	EFFICACY (Im/W)
	L15	10.8	1592	147.4	1496	138.6
7	L20	14.5	2102	145.0	1976	136.3
~	L30	21.3	3092	145.2	2906	136.5
	L40	25.2	3832	152.1	-	_
'n	L40	26.9	3929	146.1	3693	137.3
	L30	19.6	3011	153.6	2830	144.4
4	L50	31.2	5360	171.8	5038	161.5
7	L65	42.3	6313	149.2	5934	140.3
	L85	59.6	8384	140.7	_	_
	L60	35.5	5814	163.8	5465	153.9
òo	L100	63.5	10038	158.1	9436	148.6
35	L130	85.5	13069	152.9	12285	143.7
	L170	119.2	17268	144.9	_	_

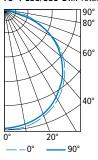
MULTIPLIER TABLE

	COLOR TEMPERATURE		
	CCT	CONVERSION FACTOR	
	2700K	0.97	
ᇎ	3000K	0.99	
80 CRI	3500K	1.00	
× ×	4000K	1.03	
	5000K	1.06	
	2700K	0.80	
l≂ l	3000K	0.82	
90 CRI	3500K	0.83	
6	4000K	0.86	
	5000K	0.89	

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- 25°C ambient temperature. Wattage shown is average for 120V through 277V input. Results based on 3500K, 80 CRI, actual lumens may vary +/-5% Use multiplier table to calculate additional options.

PHOTOMETRY

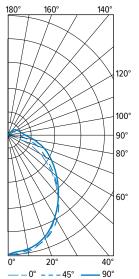
75-4-L85/835-DIM Total Luminaire Output: 8384 lumens; 59.6 Watts | Efficacy: 140.7 lm/W | 80 CRI; 3500K CCT



				,	
	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
8	0	2846	2846	2846	
CANDLEPOWER DISTRIBUTION	5	2867	2838	2827	270
문	15	2788	2751	2743	778
S	25	2618	2579	2565	1192
곮	35	2374	2326	2298	1458
Š	45	2030	1972	1956	1526
Ĭ.	55	1606	1553	1533	1391
₫	65	1104	1051	1030	1052
됭	75	571	534	522	572
	85	102	114	99	142
	90	9	14	9	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	2240	27
S	0 - 40	3699	44
필	0 - 60	6615	79
3	0 - 90	8381	100
	0 - 180	8383	100

75R-4-L65/835 Total Luminaire Output: 5934 lumens; 42.3 Watts | Efficacy: 140.3 lm/W | 80 CRI; 3500K CCT

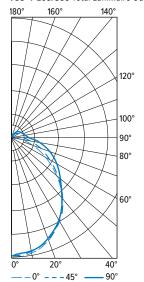


VERTICAL ANGLE		HO	ZONAL LUMENS		
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
	0	1901	1901	1901	
	5	1921	1894	1871	180
	15	1834	1830	1817	515
	25	1653	1690	1703	776
	35	1403	1496	1547	926
8	45	1085	1226	1336	939
5	55	735	950	1090	832
DISTRIBUTION	65	455	690	818	653
泛	75	196	462	568	449
꾩	85	46	294	367	277
l ≅	90	6	228	298	
CANDLEPOWER	95	1	182	241	165
ᅙ	105	0	110	161	99
ই	115	0	69	109	61
	125	0	39	74	34
	135	0	21	46	17
	145	0	9	25	7
	155	0	5	12	2
	165	0	0	3	0
	175	0	0	0	0
	180	0	0	0	

	ZONE	LUMENS	% FIXTURE
≿	0 - 30	1471	25
MA	0 - 40	2398	40
Σ	0 - 60	4168	70
LUMEN SUMMARY	0 - 90	5547	94
뿔	90 - 120	325	6
3	90 - 150	384	7
	90 - 180	386	7
	0 - 180	5934	100

75 LED Narrow Strip

75S-4-L65/835 Total Luminaire Output: 5934 lumens; 42.3 Watts | Efficacy: 140.3 lm/ W | 80 CRI; 3500K CCT



	VERTICAL ANGLE	НО	RIZONTAL ANG	SLE	ZONAL LUMENC
	VERTICAL ANGLE	0°	45°	90°	ZONAL LUMENS
	0	2002	2002	2002	
	5	2019	1993	1965	189
	15	1930	1913	1890	538
	25	1723	1731	1702	794
	35	1443	1473	1440	913
CANDLEPOWER DISTRIBUTION	45	1111	1138	1160	886
≒	55	771	850	946	770
是	65	453	615	749	605
<u>S</u>	75	198	397	546	412
곮	85	34	237	360	243
⋚	90	0	180	286	
Œ,	95	0	169	252	164
ᅙ	105	0	147	213	135
ਤ	115	0	125	188	109
	125	0	102	159	81
	135	0	71	121	52
	145	0	43	82	28
	155	0	26	46	12
	165	0	13	23	3
	175	0	0	0	0
	180	0	0	0	

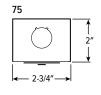
	ZONE	LUMENS	% FIXTURE
≿	0 - 30	1520	26
MA	0 - 40	2434	41
Σ	0 - 60	4090	69
NS	0 - 90	5350	90
LUMEN SUMMARY	90 - 120	408	7
3	90 - 150	569	10
	90 - 180	584	10
	0 - 180	5934	100

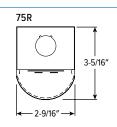
ADDITIONAL CONTROL OPTIONS

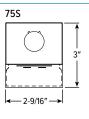
Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (Must specify 120V or 277V only)
DSR	Sensor-ready driver
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
LDE5	Lutron 5-Series 5% EcoSystem dimming LED driver
VDO/DSR	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and sensor-ready driver
VRF/DSR	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and sensor-ready driver
VDO/DBI/LDE1	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), Lutron Hi-lume 1% EcoSystem dimming LED driver, and digital link interface
VDO/DBI/LDE5	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), Lutron 5-Series 5% EcoSystem dimming LED driver, and digital link interface
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron Hi-lume 1% EcoSystem dimming LED driver, and digital link interface
VRF/DBI/LDE5	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron 5-Series 5% EcoSystem dimming LED driver, and digital link interface
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

CROSS SECTIONS









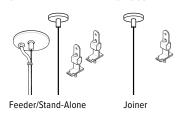
MOUNTING DETAILS

STAND ALONE SUBSEQUENT

MOUNTING LENGTH

	AIRCRAFT CABLE		VBY HANGER		315 SPACER	
	Α	В	С	D	E	F
2′	21-1/2"	22-1/2"	19"	22-1/2"	10"	22-1/2"
3′	32-1/2"	33-9/16"	30-1/16"	33-9/16"	21"	33-9/16"
4′	43-5/8"	44-5/8"	41-1/4"	44-5/8"	32"	44-5/8"
8′	88-3/16"	89-1/4"	85"	89-1/4"	77"	89-1/4"

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Notes:

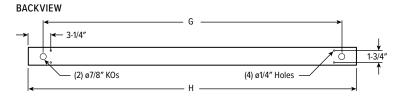
- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.

CORD FOR SUSPENDED PRODUCT

Units specified with aircraft cable require cord. Please specify cord type using ordering information below.

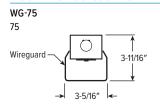
EXAMPLE: S2438/W						
CORD TYPE	LENGTH	# OF COND.	WIRE SIZE	COLOR		
S	24 24" 48 48" 96 96"	3 4 5	8	/ W White / B Black		

FIXTURE DETAILS



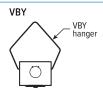
	7/8" KOs (G)	ACTUAL FIXTURE LENGTH (H)
2′	18-3/8"	22-1/2"
3′	29-1/2"	33-9/16"
4′	40-1/2"	44-5/8"
8′	85-1/8"	89-1/4"

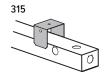
MOUNTING ACCESSORIES DETAILS





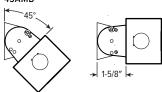








45AMB



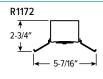
QUICK CONNECT OPTIONS

Note: Quick connect wiring required for row mounting. Length restrictions may apply, consult product builder at hew.com/product-builder.

Hote. Guick cor	Note: Guick connect wining required for row mounting. Length restrictions may apply, consult product builder at new.com/product builder.						
DESIGNATION	NUMBER OF WIRES (EXCLUDING GROUND)	WIRE COLORS	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE			
C2B	3	White, Black, Red	White, Black	Alternating Circuits			
C2BR	3	White, Black, Red	White, Black, Red	ON/OFF Switching (DRV) or Line Voltage dimming (DIM LINE) when equipped w/EM Power Supply (EM/10W)			
C2R	3	White, Black, Red	White, Red	Alternating Circuits			
C2BW/RY	5	White, Black, Red, Gray, Green	White, Black/Red, Gray	0-10V 4-wire Low Voltage Dimming (DIM)			

SPECIAL REFLECTORS





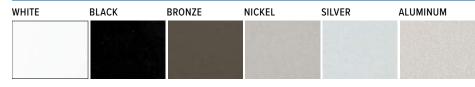




Reflectors are ordered separately, only available with 75, cannot be used with wireguard accessories.

Example: R1172-4-75LED REFL

FINISH OPTIONS



For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

OCCUPANCY SENSOR DETAILS

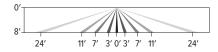
ORDERING EXAMPLE: OCCWS FSP-211-L2-120/277

FEATURES

- Fully adjustable high and low dimmed light levels.
- Designed for LED fixtures; rated for up to 200,000 on/off cycles.
- Hold-off setpoint with automatic calibration option for convenience and added energy savings.
- Adjustable via handheld wireless configuration tool.
- Adjustable time delay and cutoff delay.
- Factory set to 10% dimming at 5 minutes, cutoff at 1 hour.

LENS COVERAGE PATTERNS

L2 Coverage at 8' mounting height: ø48'



REMOTE CONTROLLER



FSIR-100 Remote controller for occupancy sensor

Initial setup and subsequent sensor adjustments are made using a handheld configuration tool (FSIR-100). The wireless tool stores up to five sensor parameter profiles to speed configuration of multiple sensors. Please specify quantity required per project.

Visit www.wattstopper.com for more information.









Date

Project

Type

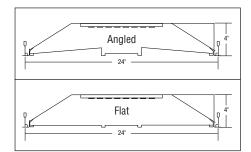
Comments



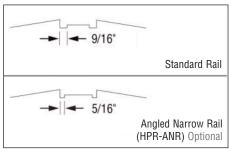
Refer to page 2 for all door styles

DESCRIPTION

HPR LED is a highly efficient recessed luminaire delivering excellent visual comfort and outstanding performance. Advanced optical design makes HPR LED a powerful solution for lowceiling applications and eliminates the shadows common to other LED recessed products. 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 Declared status.



DIMENSIONS



NARROW RAIL OPTION

Available in angled door style with the same center optic choices. The optional narrow rails are approximately 5/16" wide. The standard rails are approximately 9/16" wide.

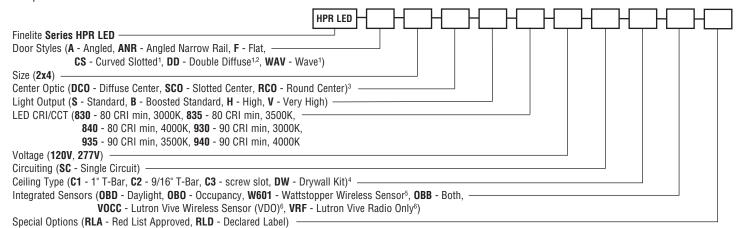


100% SERVICEABLE FROM BELOW

The replaceable light engine and driver are easy to access from below the ceiling.

ORDERING GUIDE

Sample Number: HPR LED - A - 2x4 - DCO - S - 835 - 277V - SC - C1 - OBO - RLA



- 1 Curved Slotted, Double Diffuse and Wave door not available with Center Optic options
- 3 Only available with Angled (A), Angled Narrow Rail (ANR) and Flat (F) door options 4 Surface Mount available
- 5 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.
 - ⁶ Lutron Vive Ingrated Sensors require a DALI driver

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² Double Diffuse not available with senors

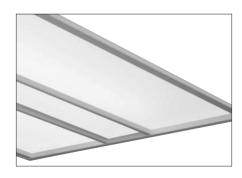
Finelite, Inc. • 30500 Whipple Road • Union City, CA 94587-1530 • (510) 441-1100 • Fax: (510) 441-1510 • www.finelite.com



DOOR STYLES



A - Angled **ANR - Angled Narrow Rail**

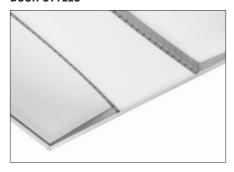


F - Flat

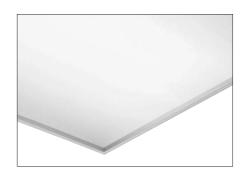


WAV - Wave

DOOR STYLES



CS - Curved Slotted



DD - Double Diffuse

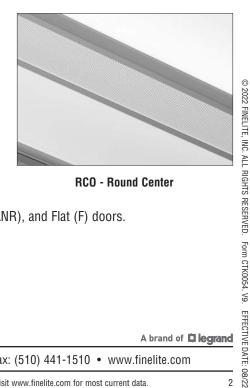
CENTER OPTICS



DCO - Diffuse Center



SCO - Slotted Center



RCO - Round Center

DCO, SCO, and RCO are only available on Angled (A), Angled Narrow Rail (ANR), and Flat (F) doors.

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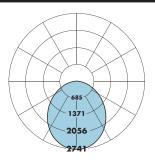
PHOTOMETRY

HPR LED-A-2x4-DCO-V Very High Output - Angled Rail Efficacy: 127 lumens per watt Total luminaire output: 6979 Lumens 55.1 Watts

Peak Candela Value: 2741 @ 0°

CCT: 3500K

ITL LM79 Report 85145



	CANDLEPOWER SUMMARY						
		0.0	22.5	45	67.5	ACROSS	Flux
	0	2741	2741	2741	2741	2741	
l	5	2730	2728	2728	2727	2727	259
	102685	2684	2683	2682	2678		
	152613	2607	2609	2605	2602	735	
	202511	2506	2502	2498	2498		
	252380	2374	2371	2366	2367	1091	
	302223	2216	2213	2209	2211		
	352043	2036	2033	2030	2033	1271	
l	401845	1838	1836	1834	1837		
l	451635	1628	1627	1626	1630	1256	
	501417	1412	1412	1410	1413		
	551200	1195	1196	1195	1187	1069	
	60986	984	984	978	974		
l	65780	778	774	766	761	766	
	70582	583	576	569	565		
	75401	400	393	388	389	420	
	80239	236	232	229	229		
	85103	100	97	91	89	111	
	900	0	0	0	0		

Angled (A) and Flat (F) Total Light Output, 3500K, 80 CRI (Lumens)						
S *	B*	H*	V**			
3772	4742	5416	6979			
Power, 3500K, 80 CRI (Watts)						
S *	B*	H*	V**			
27.0	35.2	40.6	55.1			
Efficacy, 3500K, 80 CRI (Lumens Per Watt)						
S *	S* B* H* V**					
140	135	135	127			

^{*} Family Correlation based on 3500K Very High Output (V) test - 120V.

^{**} Based on source ITL report: 85145

Angled Narrow Rail (ANR) Total Light Output, 3500K, 80 CRI (Lumens)						
S *	В*	Н*	N _x			
3680	4626	5283	6808			
Power (Watts)						
S*	B*	H*	N _x			
26.9	35.1	40.5	55.0			
Efficac	Efficacy, 3500K, 80 CRI (Lumens Per Watt)					
S*	S* B* H* V [¥]					
137	132	130	124			

^{*} Family Correlation based on 3500K Very High Output (V) test - 120V.

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

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

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

SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H) Angled (A) & Flat (F) 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output = 5416 lm x 0.789 = 4273 lm

Efficacy =
$$\frac{4273 \text{ lm}}{40.6 \text{ W}}$$
 = 105 lm/W

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^{**} Based on source ITL report: 85151

S - Standard Output, B - Boosted Standard Output,

H - High Output, V - Very High Output

^{**} Correlation based on ITL report: 85145



Wave (WAV) Total Light Output, 3500K, 80 CRI (Lumens)					
S*	B*	H*	V [†]		
3821	4804	5486	7069		
Power, 3500K, 80 CRI (Watts)					
S*	B*	H*	V [†]		
27.0	35.2	40.6	55.1		
Efficac	Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
S*	S* B* H* V [†]				
142	136	135	128		

^{*} Family Correlation based on 3500K Very High Output (V) test - 120V.

[†] Based on source ITL report: 85837

Double Diffuse (DD) Total Light Output, 3500K, 80 CRI (Lumens)							
S *	S* B* H* V [±]						
3076	3867	4417	5691				
	Power, 3500K, 80 CRI (Watts)						
S*	B*	H*	V [±]				
27.0	35.2	40.6	55.1				
Efficac	Efficacy, 3500K, 80 CRI (Lumens Per Watt)						
S *	S* B* H* V [±]						
114	110	109	103				

^{*} Family Correlation based on 3500K Very High Output (V) test - 120V.

Total L	Curve Slotted (CS) Total Light Output, 3500K, 80 CRI (Lumens)				
\$*	B*	B* H* V [‡]			
3569	4486	5124	6602		
	Power, 3500K, 80 CRI (Watts)				
S *	B*	B* H* V [‡]			
27.0	35.2	40.6	55.1		
Efficac	Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
S *	В*	Н*	V‡		
132	127	126	120		

^{*} Family Correlation based on 3500K Very High Output (V) test - 120V.

[†] Based on source ITL report: 86020

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

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

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

[±] Based on source ITL report: 85156

S - Standard Output, B - Boosted Standard Output,

H - High Output, V - Very High Output



SPECIFICATIONS -

CONSTRUCTION: Die-formed 20-gauge cold-rolled steel housing. All components are hard-tooled to tolerances of +/- 0.010". UV stabilized weather-strip pile gasket with polypropylene backing. Hinged door frame assembly provides easy access to light arrays and driver compartment for servicing from below. Seismic brackets are integrated into the luminaire assembly. Additional wire entrances are positioned on the ends of the housing to allow easy wiring access for the installer.

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

AIR RETURN: Refer to 2x4 Air Return Tech Sheet for more information.

OPTICAL SYSTEM: Components include diffuser panels and a central optic element held in place with a frame constructed from die-formed cold-rolled steel. The diffusers are UV-stabilized and impact-resistant frosted virgin acrylic, 0.120" thick. They are either angled toward the central optic or parallel to the ceiling plane. The standard center rails are approximately 9/16" wide. Optional narrows rails are approximately 5/16" wide. Optional wave door includes frosted acrylic panel that undulates from side to side.

DOUBLE DIFFUSE: Visible diffuser: UV-stabilized and impact-resistant frosted virgin acrylic, 0.120" thick. Inner diffuser: 0.120" thick with 60% round perforations white/white.

DOOR STYLE: Curved Slotted (CS) includes perforated rails that slope inward and a diffuse frosted acrylic center optic.

CENTER OPTIC OPTIONS: Only available with Angled (A), Angled Narrow Rail (ANR), and Flat (F) door styles.

Diffuse Center Optic (DCO): UV-stabilized and impactresistant frosted virgin acrylic.

Slotted Center Optic (SCO): Die-formed cold-rolled steel panel with a 1/16" x 1/2" rectangular hole pattern. Virgin acrylic overlay.

Round Center Optic (RCO): Die-formed cold-rolled steel panel with precision-punched 3/32" round hole pattern arranged in staggered formation. Virgin acrylic overlay.

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

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

DRIVER: Replaceable 120V/277V 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 DRIVER OPTIONS: LUTES1 (Hi-lume 1% EcoSystem with Soft-On, Fade to Black dimming (LDE1 series)); **LUT2W** (Hi-lume 1% 2-wire, 120V forward phase dimming (LTEA series)); Contact factory for availability of discontinued Lutron drivers, L3DA-3-wire and L3DA EcoSystem.

ELECTRICAL: Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery. Chicago Plenum option. Factory-choice low-profile backup battery available. Bodine BSL722 battery pack also available. Backup batteries deliver 2305 lumens. One quarter of the 2x4 will be illuminated in emergency mode.



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.

MOUNTING: Standard flange design works with most lay-in ceiling types. Integral pry-out tabs secure the luminaire to the ceiling grid from above. Tie-in locations for tie-wire on all corners. Consult local code for appropriate tie-wire recommendations. Drywall Kit available. Surface mount and air return versions available; refer to separate tech sheets.

FINISH: Housing and door assembly painted with 96 LG high reflectance matte white powder coat paint. Optional adder: Anti-microbial paint. Contact factory.

FEED: Optional whips (with flex connectors) supplied in a maximum of 11' lengths. Lead Wires

LABELS: Luminaire and electrical components are ETL-listed conforming to UL 916, 1598, 8750, 924 in the U.S.A. and CAN/CSA C22.2 No. 205, 250, and 141 in Canada. In accordance with NEC Code 410.73 (G), this luminaire contains an internal driver disconnect. 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 2011/65/EU. Simply add - RLF (Red List Free) or - RLD (Declared) to your part number.

WEIGHT: 33 lbs maximum.

DLC QUALIFIED: Contact factory

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

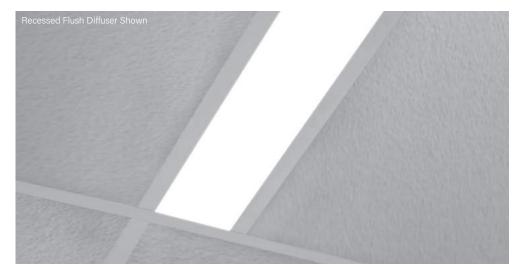
* LutVDO & LutVRF can be provided with 1% DALI Sensor Ready Driver (Osram Dexal), 5% DALI Sensor Ready Driver (Philips SR DALI) or any Lutron EcoSystem 1% or 5% LED driver. Customer to specify driver required.

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





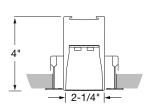
High Performance 2" Aperture is a patented, linear LED luminaire family. HP-2 delivers excellent performance using an advanced optical design and mid-power LEDs. Achieving 90% of initial light output at 100,000+ hours and backed by a 10-year performance-based warranty on all standard components.

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

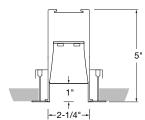
CROSS SECTIONS

Recessed



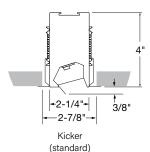
Flush Downlight Diffuser (standard)

Regressed

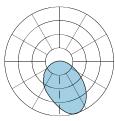


Flat Diffuser with 1" Regressed

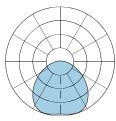
Wall Wash Recessed



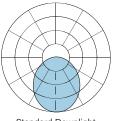
OPTIC OPTIONS



Downlight Asymmetric Optic (**DAO**)

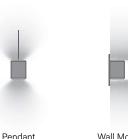


Downlight Spread Optic (**DSO**)



Standard Downlight Flush Optic (**F**)

ALSO AVAILABLE IN



(**D, ID, I**)



Wall Mount (**WM**)



Surface Mount (SM)











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



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:	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

MECHANICAL/OPTICAL OPTIONS

ELECTRICAL OPTIONS

Dow	nlight	Reflector System	Voltage	Circuiting ²
F - Flush (standard) ^{8,9} DL - 1" Drop Down Lens ⁸ RG-D - Flat Diffuser with 1" Regress ^{1,8} RG-WCB - White Cross Blade Baffle ^{1,8} RG-LHE - Hollowed Ellipse Louver ^{1,8} RG-LHC - Hex Louver ^{1,8}	DAO-L - Downlight Asymmetric Left ^{4,8} DAO-R - Downlight Asymmetric Right ^{4,8} DSO - Downlight Spread Optic ^{4,8} K - Kicker for Wall Wash only (standard) ⁵ 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

0-10V Driver Options

FC-10% - 0-10V 10% (standard)

FC-1% - 0-10V 1%

OTi-10% - EldoLED OTi, 0-10V 10%3 OTi-1% - EldoLED OTi, 0-10V 1%3

ELD-10V-0% - EldoLED SOLOdrive, 0-10V 0.1%

10V-TW-10% - EldoLED OTi, 0-10V 10%

(Tunable White)3

DALI Driver Options

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)

DMX Driver Options

ELD-DMX - EldoLED POWERdrive, 0.1%

ELD-DMX-TW - EldoLED POWERdrive, 0.1%

(Tunable White)

Lutron Driver Options

LUT-ES1 - Lutron, Ecosystem 1% LUT-TW - Lutron LD2 Dali-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 7

OTHER OPTIONS

Emergency Style (Optional) See page 5 Backup Battery table	Integrated Sensor (Optional) ⁸		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 ⁹ OBD - Daylight ⁹ W601 - Wattstopper Wireless Sensor ¹⁰ OBE - Enlighted ¹¹ REE - Remote Enlighted ¹² CLM - Encelium RF SLM - Encelium Sensor	AOCC-W - Lutron Athena Sensor (Device Color White) ¹³ AOCC-B - Lutron Athena Sensor (Device Color Black) ¹³ ARF-W - Lutron Athena RF (Device Color White) ¹³ ARF-B - Lutron Athena RF (Device Color Black) ¹³ VOCC - Lutron Vive Wireless Sensor (VDO) ¹⁴ VRF - Lutron Vive Radio Only ¹⁴	CP - Chicago Plenum ¹⁵ FLX - Flex Whip RLA - Red List Approved RLD - Red List Declared

Recessed Regressed straight run only

² Contact factory for switching options ³ Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO)

⁴ Not available with Regressed or Curves

⁵ Kicker standard in Signal White. Customer Custom color kickers have a surcharge

⁶ B & V outputs only

Y outputs only
 20 business days lead time for color
 Minimum fixture length with a sensor is 3ft.
 Not available with Wall Wash

¹⁰ 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.

" Enlighted components installed by Finelite, provided by others

¹² Enlighted for Wall Wash fixtures, Enlighted Control Unit & Sensor Cable installed for

Remote mounting sensor.

3 0-10V Drivers - AOCC up to 10 drivers may be connected; ARF up to 40 drivers may be connected DALI Drivers - AOCC & ARF up to 4 drivers can be connected.

¹⁴ Lutron Vive Ingrated Sensors require a DALI driver

¹⁵ Only available with C1, C2, and C3 mounting hardware with Finelite Gridbox

Submitted by:		Date:	FINFLITE
Туре:	ect:		
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, Tunable White (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 0.1% Dimming, Tunable White (Logarithmic Dimming, Linear CCT Control)

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

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

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

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" (±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 1: 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 ². 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) 3,4, Ellipse Louver (LHE) 3, Hex Louver (LHC) ³, Downlight Asymmetric Optic (DAO) ⁵, Downlight Spread Optic (DSO) 5, and Regressed downlight diffusers (RG) 3. 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

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-guage / 3-conductor power
- One 18-gauge / 4-conductor for dimming and controls
- One 18-gauge / 5-conductor power and controls
- 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

¹ Not available with Wall Wash

White Cross Blade (WCB) baffles not available with custom angles. Available in 90 degrees only

³ Recessed Regressed straight run only

⁴White Cross Blade Baffle (WCB) currently not advisable for drywall

⁵ Not available with Regressed or Curves

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Туре:	Project:		
Ordering Info:		Better Lighting	

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		
HP2-R-D				
Min. Housing Length	8'*	4'**		
EM Lumen Output	1608	956		
EM Section Illuminated	2'	2' or 4'		
HP2-R-WW-D				
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 6:

TW Driver Options

- 0-10V: EM/GEN, GTD or Battery BackUup

- 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 ⁷ 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 8: 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.

⁶ Consult Finelite for Generator Transfer Device and Battery Backup fit

^{7 20} business days lead time for color

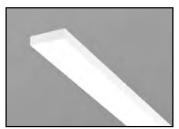
⁸ Excludes Battery Backup and Generator Transfer Device weight

Submitted by:		Date:	FINE
Type:	roject:		11111
Ordering Info:			Better L

AESTHETIC OPTIONS



Flush Diffuser (F)



1" Drop Down Lens (DL)



Flat Diffuser with 1" Regressed (RG-D)



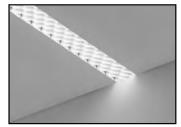
Downlight Asymmetric Optic (DAO) 1 Externally flush



Downlight Spread Optic (DSO) 1 Externally flush



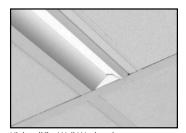
White Cross Blade Baffle 2 (RG-WCB)



Hex Louver²(RG-LHC)



Hollowed Ellipse Louver² (RG-LHE)



Kicker (K) - Wall Wash only

¹ With a subtle ribbed appearance providing specialized distribution ² Regressed only. Not available with Wall Wash

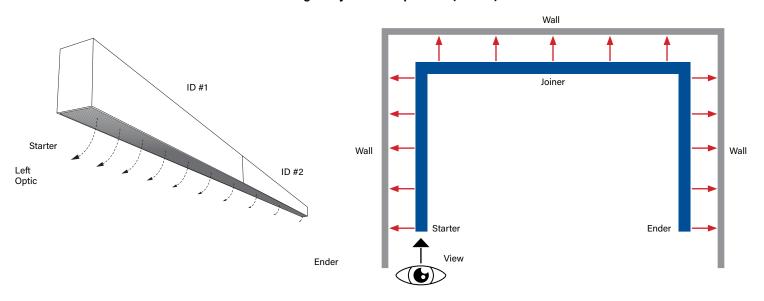
Submitted by:		Date:
Type: Project:		
Ordering Info:		



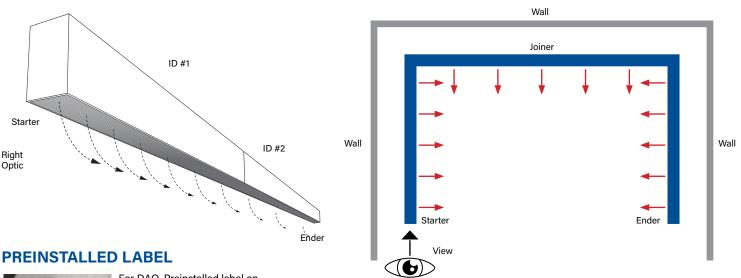
DOWNLIGHT ASYMMETRIC OPTIONS

The diagrams below show a linear run from power feed to ender. Specifing 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)

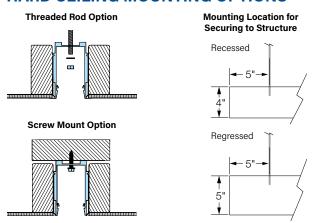




For DAO, Preinstalled label on diffuser shows direction of light. Remove after installation.

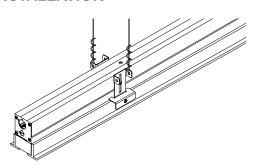
Submitted by:		Date:	FINFLITE®
Туре:	ct:		
Ordering Info:		Better Lighting	

HARD CEILING MOUNTING OPTIONS



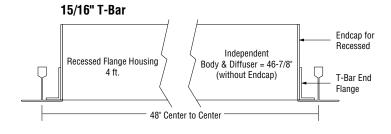
Two mounting options: threaded rod and screw mounting options. Mounting locations are located on each end of the luminaire. Mounting location is 5" away from each end of luminaire.

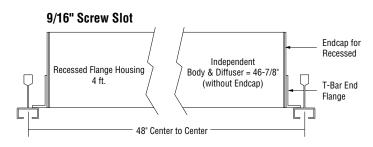
T-BAR INSTALLATION



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.

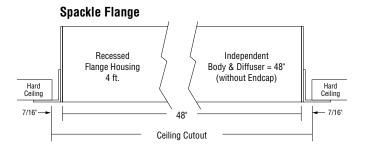
GRID LENGTH DETAIL - 4' EXAMPLE

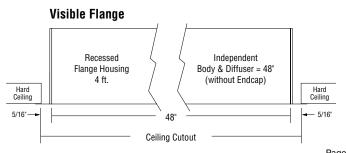




9/16" T-Bar Independent Body & Diffuser = 46-7/8" (without Endcap) T-Bar End Flange

HARD CEILING LENGTH DETAIL - 4' EXAMPLE



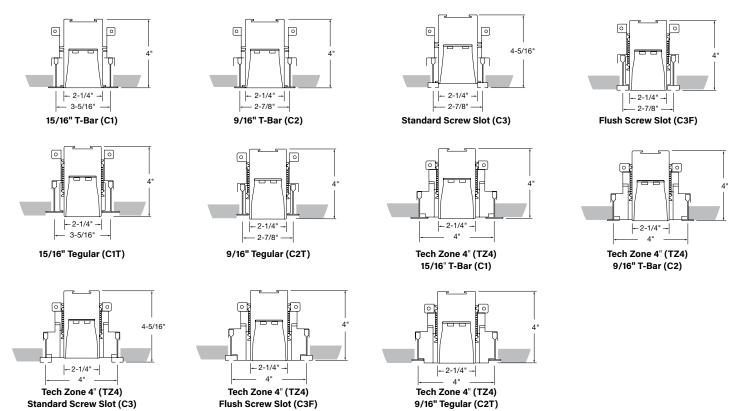


Submitted by:		Date:
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Ordering Info:		

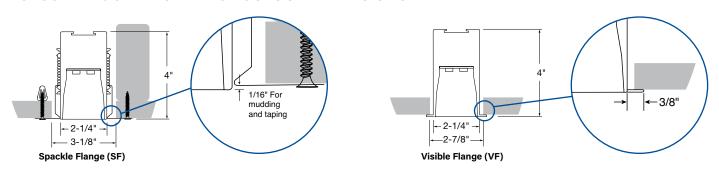


RECESSED MOUNTING TYPES - T-BAR

Rough-In Dimensions



RECESSED MOUNTING TYPES - CUTOUT DIMENSIONS



HOUSING



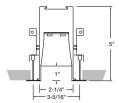
Note: +/- 1/16" Page 9

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

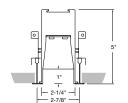


REGRESSED MOUNTING TYPES - T-BAR

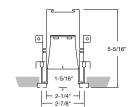
Rough-In Dimensions



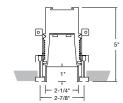
15/16" T-Bar (C1)



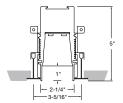
9/16" T-Bar (C2)



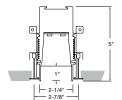
Standard Screw Slot (C3)



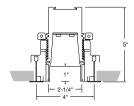
Flush Screw Slot (C3F)



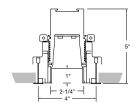
15/16" Tegular (C1T)



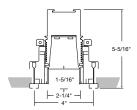
9/16" Tegular (C2T)



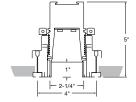
Tech Zone 4" (TZ4) 15/16" T-Bar (C1)



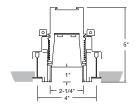
Tech Zone 4" (TZ4) 9/16" T-Bar (C2)



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

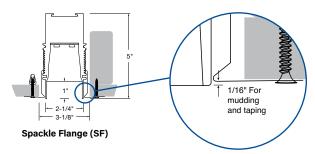


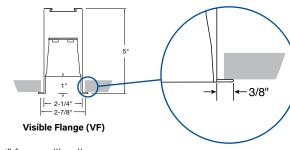
Tech Zone 4" (TZ4) Flush Screw Slot (C3F)



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

REGRESSED MOUNTING TYPES - CUTOUT DIMENSIONS





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

HOUSING







Note: +/- 1/16"



Recessed Photometry - 4' Luminaire 3500K

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

Downlight: Downlight Asymmetric Optic - Right

Efficacy: 105 lm/W

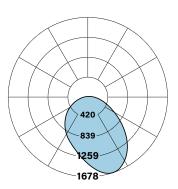
Total luminaire output: 3741 lumens (935 lm/ft)

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

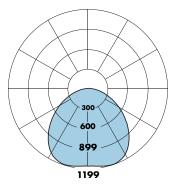
Efficacy: 92 lm/W

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 1	B 1	H 1	V ²
1531	1925	2910	3741

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S 1	B 1	H 1	V ²
383	481	727	935

Power, 3500K (Watts Per Foot)			
S ¹	B 1	H 1	V ²
3.5	4.4	6.8	8.9

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S¹	B 1	H 1	V ²
110	109	107	105

- S Standard Output, B Boosted Standard Output, H High Output, V Very High Output
- ¹ Family Correlation based on 4' luminaire 3500K Very High Output (**V**) test 120V.
- ² Based on ITL report: REP-051921-01

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire				
S ¹	B 1	H 1	V ²	
1340	1684	2546	3273	

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
S ¹	B 1	H 1	V ²	
335	421	636	818	

Power, 3500K (Watts Per Foot)				
S ¹	B 1	H 1	V ²	
3.5	4.4	6.8	8.9	

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S ¹	B 1	H ¹	V ²
96	95	93	92

- S Standard Output, B Boosted Standard Output, H High Output, V Very High Output
- ¹ Family Correlation based on 4' luminaire 3500K Very High Output (**V**) test 120V.
- ² 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.

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



Recessed Photometry - 4' Luminaire 3500K

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

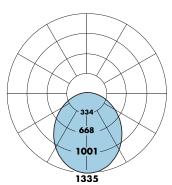
Efficacy: 89 lm/W

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

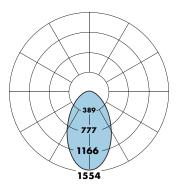
Efficacy: 79 lm/W

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	Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire				
S 1	B 1	H 1	V ²		
1346	1692	2557	3287		

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S 1	B 1	H 1	V ²
336	423	639	822

Power, 3500K (Watts Per Foot)				
S ¹	B 1	H 1	V ²	
3.6	4.6	7.1	9.2	

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S¹	B 1	H 1	V ²
93	92	90	89

- S Standard Output, B Boosted Standard Output, H High Output, V Very High Output
- ¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test 120V.
- ² Based on ITL report: 85135

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire				
S 1	B 1	H 1	V ²	
1190	1496	2261	2907	

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S¹	B 1	H 1	V ²
298	374	565	727

Power, 3500K (Watts Per Foot)				
S ¹	B 1	H 1	V ²	
3.6	4.6	7.1	9.3	

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S ¹	B 1	H ¹	V ²
82	81	80	79

- S Standard Output, B Boosted Standard Output, H High Output, V Very High Output
- ¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test 120V.
- ² 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: $639 \text{ lm/ft} \times 0.789 = 504 \text{ lm/ft}$. watts/foot: 7.1 W/ft.

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

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



Wall Wash Recessed - 4' Luminaire 3500K

HP2-R-WW-D-K-4'-V-835 Downlight: With Kicker

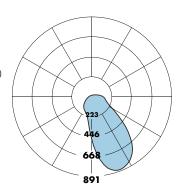
Efficacy: 76 lm/W

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 ¹	B 1	H 1	V ²
614	772	1167	1500

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S¹	B 1	H 1	V ²
154	193	292	375

Power, 3500K (Watts Per Foot)			
S 1	B 1	H 1	V ²
2.0	2.5	3.8	4.9

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S ¹	B 1	H 1	V ²
76	77	77	77

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

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

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

² Based on ITL report: 85137

Submitted by:		Date:	FINFI ITF®
Type:	Project:		
Ordering Info:			Better Lighting

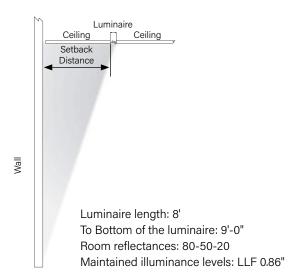
WALL WASH RECESSED - SETBACK INFO AND APPLICATION DATA

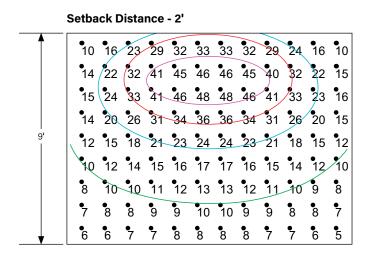
HP2-R-WW-D-K-4'-V-835 Downlight: With Kicker

Total luminaire output: 1500 lumens (375 lm/ft)

19.6 watts (4.9 W/ft)

CRI: 80 / CCT: 3500K





DOWNLIGHT ASYMMETRIC OPTIC - SETBACK INFO AND APPLICATION DATA

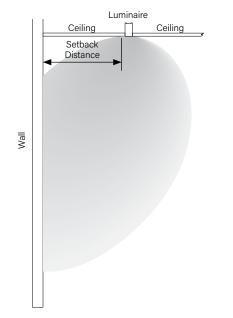
HP2-R-D-4ft-V-835-DAO

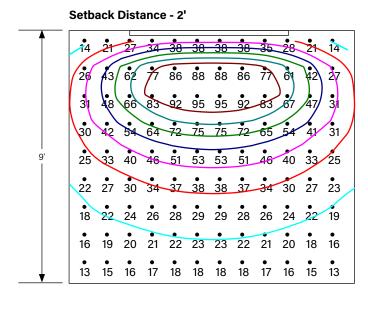
Downlight: DAO

Total luminaire output: 3742 lumens (936 lm/ft)

35.6 watts (8.9 W/ft)

CRI: 80 / CCT: 3500K





Submitted by:		Date:
Туре:	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 - 6500KDimming Range: 100% to 10%CRI Options: 80 CRI or 90 CRI

Note:

Dim to Off options available.

LUMINAIRE FAMILY MODIFICATIONS/RESTRICTIONS

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

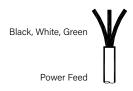
PHOTOMETRY

Apply a power adjustment factor to calculate wattage usage

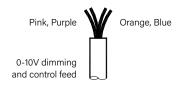
POWER	CONVERSION FACTOR
	1.1X

(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					



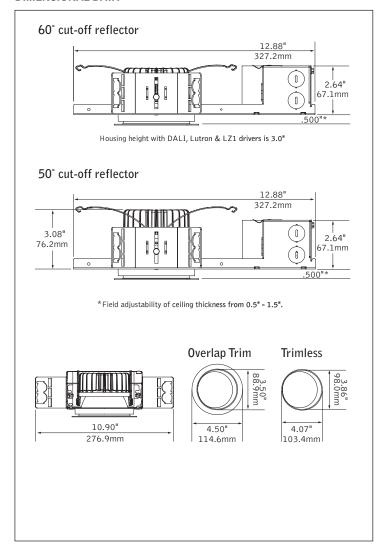
ID+ 3.5" OVERLAP & TRIMLESS LED WALL WASH







DIMENSIONAL DATA



FEATURES

Less than 2.64" low profile housing available.

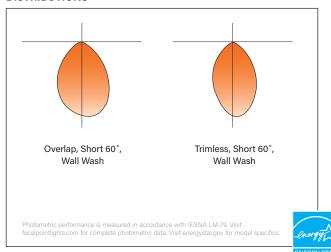
50° cut-off and 60° cut-off reflector options available.

Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

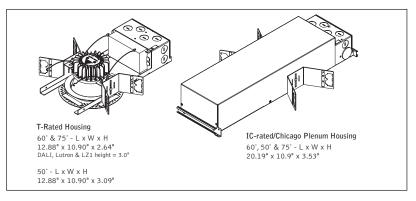
Warm Dim: Lighting that enhances spaces with a warm glow, reminiscent of incandescent or halogen light sources.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

DISTRIBUTIONS



STANDARD WHITE HOUSING DETAILS



3.5" ROUND WALL WASH PERFORMANCE TABLES

Based on Overlap, Tall Cone, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

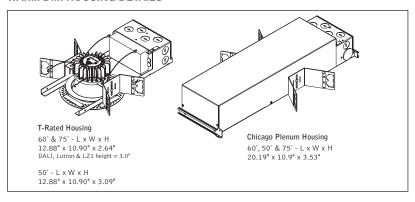
STANDARD WHITE						
Lumen Output	Delivered Lumens	System Watts	LPW			
700L	726	8	87			
900L	907	10	89			
1100L	1102	14	77			
1300L	1311	17	79			
1500L	1516	19	81			
1700L	1712	21	81			
1900L	1903	23	82			
2100L	2130	26	82			
	700L 900L 1100L 1300L 1500L 1700L	Lumen Output Delivered Lumens 700L 726 900L 907 1100L 1102 1300L 1311 1500L 1516 1700L 1712 1900L 1903	Lumen Output Delivered Lumens System Watts 700L 726 8 900L 907 10 1100L 1102 14 1300L 1311 17 1500L 1516 19 1700L 1712 21 1900L 1903 23			

HOUSING ORDERING		
Housing Series	EL 0014	FLC3W
ID+ 3.5" Round Trim Type	FLC3W	
Round Overlap	RO	
Round Trimless Color Options	RT	
Standard White, 80 & 90 CRI	SW	
High 97 CRI	HC	
Lumen Output 700 Lumen	700L	
(Not available with Lutron or LFP)		
900 Lumen (Not available with LFP)	900L	
1100 Lumen 1300 Lumen	1100L 1300L	
1500 Lumen	1500L	
1700 Lumen 1900 Lumen	1700L 1900L	
2100 Lumen	2100L	
Voltage		
120/277 Volt (IC-rated housing: SW - 1700lm max., HC - 1500lm max.	UNV	
T-rated & TW housings: SW - 1100lm max., HC - 900lm max.) 120V	120	
277V	277	
Low Voltage (IC-rated housing: SW - 1700lm max., HC - 1500lm max.	LV	
T-rated & TW housings: SW - 1100lm max., HC - 900lm max.)		
Control System & Dimming Level 0-10V <1% Dimming	LZ1	
0-10V - 1% Dimming	L11	
0-10V - 10% Dimming Low Voltage, PoE Compatible	LD1 LVN	
(No driver. LV voltage only.)	LFP	
Forward Phase (120V only) Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
Lutron Hi-Lume - Forward Phase (120V only) -	LTE	
1% Dimming DALI <1% Dimming	DZ1	
DALI - 1% Dimming	D11	
Housing Type IC-Rated / Airtight	IC	
(SW - 1700lm max., HC - 1500lm max. Not available with LTE.)	_	
Thermally Protected, Non-IC Thermally Protected, Non-IC Wood	T TW	
(Trimless only. Wood kit required)	1 44	
Factory Options	DII	
Bar Hangers Chicago Plenum	BH CP	
Outdoor Rated (LD1 driver and T-rated housing only. Not available with CP.	OD	
See dimming performance table on page 5.)		
TRIM & LED MODULE		
Aperture		
3.5" Round Reflector 3.5" Round Airtight Reflector	LC3 LC3AT	
Trim Type		
Round Overlap Round Trimless	RO RT	
Color Options	111	
(Trim & housing must match) Standard White, 80 & 90 CRI	SW	
High 97 CRI	HC	
Lumen Output		
(Trim & housing output must match.) 700 Lumen	700L	
900 Lumen	900L	
1100 Lumen 1300 Lumen	1100L 1300L	
1500 Lumen	1500L	
4700 L	17001	
1700 Lumen 1900 Lumen	1700L 1900L	
1900 Lumen 2100 Lumen	1700L 1900L 2100L	
1900 Lumen 2100 Lumen Color Temperature	1900L	
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI Examples: 2700K, 97 CRI = H27K. 2700K, 80 CRI = 27K.)	1900L 2100L	
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI	1900L 2100L _27K _30K	
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K, 2700K, 80 CRI = 27K) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI	1900L 2100L -27K -30K -35K 935I	Κ
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 90 CRI Examples: 2700K, 97 CRI = H27K, 2700K, 80 CRI = 27K) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI	1900L 2100L _27K _30K	
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K. 2700K, 80 CRI = 27K) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI Optic Tall Cone with 50° cut-off	1900L 2100L 27K _30K _35K 935I _40K	 К
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI Examples: 2700K, 97 CRI = H27K, 2700K, 80 CRI = 27K) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI Optic	1900L 2100L -27K -30K -35K -40K	<
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K, 2700K, 80 CRI = 27K) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI 4000K, 80/90/97+ CRI Fall Cone with 50° cut-off Short Cone with 60° cut-off Finish Clear Diffuse	1900L 2100L _27K _30K _35K 935I _40K WWT WWS	<
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI Examples: 2700K, 97 CRI = H27K. 2700K, 80 CRI = 27K.) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI Optic Tall Cone with 50° cut-off Short Cone with 60° cut-off Finish Clear Diffuse Warm Diffuse	1900L 2100L _27K _30K _35K 935I _40K WWT WWS	<
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K, 2700K, 80 CRI = 27K) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI 4000K, 80/90/97+ CRI Optic Tall Cone with 50° cut-off Short Cone with 60° cut-off Finish Clear Diffuse Warm Diffuse Black White	1900L 2100L _27K _30K _35K 935I _40K WWT WWS	<
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K, 2700K, 80 CRI = 27K) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI 4000K, 80/90/97+ CRI Optic Tall Cone with 50° cut-off Short Cone with 60° cut-off Finish Clear Diffuse Warm Diffuse Black White Optional Flange Finish	27K _30K _35K 935I _40K WWT WWS	<
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K, 2700K, 80 CRI = 27K) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI 4000K, 80/90/97+ CRI Optic Tall Cone with 50° cut-off Short Cone with 60° cut-off Finish Clear Diffuse Warm Diffuse Black White	27K _30K _35K 935I _40K WWT WWS	<
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K, 2700K, 80 CRI = 27K) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI 4000K, 80/90/97+ CRI 500K, 80/90/97+ CRI 4000K,	1900L 2100L _27K _30K _35K 935I _40K WWT WWS CD WD BK WH	<
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K, 2700K, 80 CRI = 27K) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI Optic Tall Cone with 50° cut-off Short Cone with 60° cut-off Finish Clear Diffuse Warm Diffuse Black White Optional Flange Finish (Overlap CD & WD finish only, For matching finishes leave blank) Black Painted	27K _30K _35K 935I _40K WWT WWS CD WD BK WH	<
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI Examples: 2700K, 97 CRI = H27K, 2700K, 80 CRI = 27K) 2700K, 80 /90 /97 + CRI 3000K, 80 /90 /97 + CRI 3500K, 80 /90 /97 + CRI 4000K, 80 /90 /97 + CRI Optic Tall Cone with 50° cut-off Short Cone with 60° cut-off Finish Clear Diffuse Warm Diffuse Black White Optional Flange Finish (Overlap CD & WD finish only. For matching finishes leave blank.) Black Painted White Painted ACCESSORIES Trimless Wood Ceiling Installation Kit	27K _30K _35K 935I _40K WWT WWS CD WD BK WH BP WP	<
1900 Lumen 2100 Lumen Color Temperature (Add 9 for 90 CRI or H for 97 CRI Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K, 2700K, 80 CRI = 27K) 2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI 4000K, 80/90/97+ CRI Finish Clear Diffuse Warm Diffuse Warm Diffuse Warm Diffuse Warm Diffuse Black White Optional Flange Finish (Overlap CD & WD finish only. For matching finishes leave blank.) Black Painted White Painted ACCESSORIES	27K _30K _35K 935I _40K WWT WWS CD WD BK WH	<

STANDARD WHITE

fixture: project

WARM DIM HOUSING DETAILS

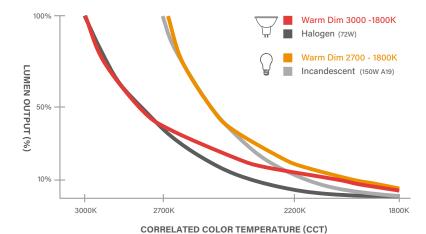


3.5" ROUND WALL WASH PERFORMANCE TABLE

Based on Overlap, Tall Cone, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

		w WARM DIM		
CCT Range	Lumen Output	Delivered Lumens	System Watts	LPW
2700 - 1800K	1500L	1367	25	55
3000 - 1800K	1500L	1395	25	56

The 3000K to 1800K and 2700K to 1800K ranges mimic the black body curves of halogen and incandescent light sources, respectively.



WARM DIM **HOUSING ORDERING Housing Series** FLC3W ID+ 3.5" Round FLC3W **Trim Type** Round Overlap RO Round Trimless **Color Options** WDM Warm Dim WDM **Lumen Output** 1500L 1500 Lumen 1500L Voltage 120V 120 277V 277 Control System & Dimming Level 0-10V <1% Dimming LZ1 0-10V - 1% Dimming 0-10V - 10% Dimming LD1 Forward Phase (120V only) LFP Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming LH1 Lutron Hi-Lume - Forward Phase (120V only) -1% Dimming DALI <1% Dimming DZ1 DALI - 1% Dimming D11 **Housing Type** IC-Rated / Airtight IC Thermally Protected, Non-IC Thermally Protected, Non-IC Wood TW (Trimless only. Wood kit required) **Factory Options** Bar Hangers BH Chicago Plenum CP Outdoor Rated OD (LD1 driver and T-rated housing only. Not available with CP. See dimming performance table on page 5.) **TRIM & LED MODULE** 3.5" Round Reflector LC3 3.5" Round Airtight Reflector LC3AT **Trim Type** Round Overlap RO Round Trimless RT

 Color Options
 WDM

 Warm Dim)
 WDM

 Lumen Output
 WDM

1500 Lumen 1500L

Color Temperature

Warm Dim: 2700-1800K, 90+ CRI 92718W Warm Dim: 3000-1800K, 90+ CRI 93018W

Optic
Tall Cone with 50° cut-off WWT
Short Cone with 60° cut-off WWS

Finish
Clear Diffuse CD
Warm Diffuse WD
Black BK
White WH

Optional Flange Finish
(Overlap CD & WD finish only) (For matching finishes leave blank)

Black Painted

White Pointed

WM

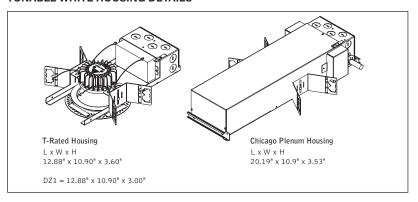
White Painted WP

ACCESSORIES

Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights) WOOD-KIT

fixture: project:

TUNABLE WHITE HOUSING DETAILS



3.5" ROUND WALL WASH PERFORMANCE TABLES

Based on Overlap, Tall Cone, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

TUNABLE WHITE						
ССТ	Lumen Output	Delivered Lumens	System Watts	LPW		
2700K	700L	710	15	47		
(2700-5000K & 2700-6500K)	900L	899	19	47		
	1100L	1116	24	46		
1800K (1800-4000K)	700L	711	22	32		

The Comfort (1800K-4000K), Preference (2700K-5000K), and Activity (2700K-6500K) ranges give specifiers the tools to ehnance spaces, mood, and alertness.

DAYLIGHT RANGE





(Overlap

TUNABLE WHITE

HOUSING ORDERING

Housing Series ID+ 3.5" Round	EL C3W	FLC3W
איטו 3.5 Round Trim Type	FLC3W	
Round Overlap Round Trimless	RO RT	
Color Options Tunable White: 1800-4000K	1840T	
(700L only) Tunable White: 2700-5000K	2750T	
Tunable White: 2700-6500K	2765T	
Lumen Output 700 Lumen 900 Lumen 1100 Lumen	700L 900L 1100L	
Voltage 120V 277V	120 277	
Control System & Dimming Level		
0-10V <1% Dimming Lutron T-Series <1% Dimming DALI <1% Dimming (Requires 2 addresses, one for light intensity & one for color tuning)	LZ1 LTZ DZ1	
Housing Type	T	
Thermally Protected, Non-IC Thermally Protected, Non-IC Wood (Trimless only. Wood kit required)	T TW	
Factory Options Bar Hangers	ВН	
Chicago Plenum	СР	
(900L max. 2750T & 2765T only.)		
TRIM & LED MODULE Aperture		
3.5" Round Reflector 3.5" Round Airtight Reflector	LC3 LC3AT	
Trim Type Round Overlap	RO	
Round Trimless	RT	
Color Options (Trim & housing must match) Tunable White: 1800-4000K Tunable White: 2700-5000K Tunable White: 2700-6500K	1840T 2750T 2765T	
Lumen Output (Trim & housing must match)		
700 Lumen 900 Lumen	700L 900L	
1100 Lumen	1100L	
Color Temperature Tunable White: 1800-4000K, 90+ CRI Tunable White: 2700-5000K, 90+ CRI Tunable White: 2700-6500K, 90+ CRI	91840T 92750T 92765T	
Optic Tall Cone with 50° cut-off Short Cone with 60° cut-off	WWT WWS	
Finish Clear Diffuse Warm Diffuse Black White	CD WD BK WH	
Optional Flange Finish CD & WD finish only) (For matching finishes leave blank)		
Black Painted White Painted	BP WP	
ACCESSORIES		
Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights)	LC3- WOOD-KIT	

HOUSING SPECIFICATIONS

Construction

Thermally protected housing for new construction applications. Insulation to be kept 3" away from housing. Type IC inherently protected, suitable for direct contact with insulation. Restrictive airflow per ASTM-E283. Butterfly brackets allow mounting to 1/2" emt. Order bar hangers as an accessory. Die-cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) 1/2" pry outs. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 1.5" thickness. For thicker ceiling consult factory. Fixture will not exceed 5 lb. Trim is inherently airtight and may be used to obtain airtight rating when used with IC-rated or thermally protected, non-IC (T) housings.

Electrical

Choice of constant current dimming drivers. Power factor > .9 typical. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

Emergency

Above ceiling access required. Overlap trim only. Emergency output - 7W for 90 minutes. Maximum mounting height — Clear Diffuse & White: 22.5ft. Black & Warm Diffuse: 15.3ft.

Lahels

UL and cUL Listed. Suitable for Dry, Damp or Wet Locations, indoor use only. Specify Outdoor rated (OD) for outdoor recessed ceiling applications.

Outdoor Rated (OD) Driver Dimming Performance table

. ,	
Lumen Output	Minimum Dimming Level
700L	20%
900L	16%
1100L	13%
1300L	10%
1500L	10%
1700L	10%
1900L	10%
2100L	10%

Lumen Maintenance

Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warrant

LED System rated for operation in ambient environments up to 25°C. 5-year limited warranty. Fixture with Outdoor rated option must be installed in a covered ceiling and is warrantied for operation in ambient environments between -20°C to +40°C.

TRIM & LED SPECIFICATIONS

LED System

Proprietary array incorporates premium LEDs on a robust platform. May be specified in 2700K, 3000K, 3500K or 4000K, Warm Dimming (2700K-1800K and 3000K-1800K), or Tunable White (1800K-4000K, 2700K-5000K and 2700K-6500K), CRI>80, >90 or 97. Color accuracy within 2 SDCM (Warm Dimming from 3-5 SDCM). 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. Aluminum heat sink provides appropriate thermal management.

Aesthetics

Parabolic reflector cone ensures glare free optics. DNT & DNS reflector is .050 spun aluminum. DSS reflector is die-cast aluminum.Trims are self-flanged. Non-painted trim matches reflector finish. Painted flange may also be specified.

Optics

50-degree or 60-degree cut-off to light source and its image. Wall wash features acrylic diffuser to provide smooth illumination down the wall.

Color Lumen Multipliers

CRI		STANDARD	WHITE CCT		WARM DIM O	CCT RANGES	TUNABLE WHITE CCT RANGES						
CHI	2700	3000	3500	4000	2700-1800K	3000-1800K	1800-4000K	2700-5000K	2700-6500K				
80+	0.92	0.98	1.00	1.01	-	-	-	-	-				
90+	0.79	0.83	0.82	0.84	0.91	0.93	1.00	1.00	1.00				
97	0.67	0.72	0.73	0.76	-	-	-	-	-				

Distribution Lumen Multipliers

Trim Type	Optic	Distribution	Multiplier
David Trimless [DT]	Tall Cone with 50° cut-off [WWT]	Wall Wash	1.03
Round Trimless [RT]	Short Cone with 60° cut-off [WWS]	Wall Wash	1.10
Round Overlap [RO]	Tall Cone with 50° cut-off [WWT]	Wall Wash	1.01
Round Overlap [RO]	Short Cone with 60° cut-off [WWS]	Wall Wash	1.10

Color Lumen Multipliers

Trim Type	Optic	Color	Multiplier
		Clear Diffuse [CD]	1.00
	Tall Cone with 50° cut-off [WWT]	Warm Diffuse [WD]	0.91
	Tall Cone with 50 cut-on [www.r]	White [WH]	1.08
ALL		Black [BK]	0.46
ALL		Clear Diffuse [CD]	1.00
	Short Cone with 60° cut-off [WWS]	Warm Diffuse [WD]	0.93
	Short Cone with 60 cut-on [wws]	White [WH]	1.11
		Black [BK]	0.56

How To Use Lumen Multipliers

Formula:

(Lumen Output Value) x (Color Temperature & CRI) x (Distribution) x (Color)

Example:

LC3-RO-SW-1100L-935K-WWS-WH (1100) x (0.81) x (1.10) x (1.11) \approx 1088lm (estimated delivered lumens)

Multiplier charts are provided to aid with estimation of lumen levels across options. Apply multipliers against ordered Lumen Output to estimate Delivered Lumens. An estimation should make use of all tables through consecutive application of three multipliers. Refer to IES files for most accurate photometric information.



WALL WASH DESIGN GUIDE - 1500 LUMEN, SHORT CONE (WWS) EXAMPLE

Calo	Footcandles																												
Point Distance			Fixtures 3' from Wall									Fixtures 3.5' from Wall									Fixtures 4' from Wall								
from	Ceiling	3' OC			3.5' OC			4' OC			3	3' OC			3.5' OC			4' OC		3' OC			3.	5' C	С	4	2		
	3"	5	4	4	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	4	4	
0	6"	7	7	7	8	7	7	8	7	8	5	6	5	6	6	6	6	6	6	4	5	4	5	5	5	5	5	5	
<u>-</u>	9"	11	11	11	11	11	11	11	11	11	8	9	8	8	8	8	8	8	8	6	7	6	7	7	6	7	7	7	
	12"	13	14	13	13	14	13	13	13	13	10	11	10	10	11	10	10	10	10	8	9	8	8	9	8	8	9	8	
	2'	15	16	15	15	15	15	15	15	15	12	13	12	11	12	11	11	12	11	9	10	9	9	10	9	9	10	9	
	3'	17	19	18	17	18	17	17	17	17	14	15	14	14	14	14	13	14	13	11	13	11	11	12	11	11	12	11	
	4'	19	22	19	19	20	19	18	19	18	16	17	16	15	16	15	14	15	14	13	14	13	12	13	12	11	13	11	
	5'	18	21	18	17	20	17	16	18	16	16	19	16	15	17	15	14	16	14	14	16	14	13	15	13	12	14	12	
	6'	16	19	16	15	17	15	14	16	14	15	17	15	14	16	14	13	15	13	14	16	14	13	15	13	12	14	12	
	7'	14	16	14	13	15	13	12	14	12	14	15	14	13	15	13	12	14	12	13	15	13	12	14	12	11	13	11	
	8'	12	13	12	11	13	11	11	12	11	12	13	12	11	13	11	11	12	11	12	13	12	11	12	11	10	12	10	
	9'	10	11	10	10	11	10	9	10	9	11	12	11	10	11	10	9	11	9	10	11	10	10	11	10	9	11	9	
	10'	7	7	7	6	7	6	6	7	6	7	8	7	7	7	7	6	7	6	7	8	7	7	8	7	6	7	6	



IES File: FLC3W-RO-SW-1500L-RO-SW-1500L-35K-WWS-CD. Parameters: 80/50/20 reflectances, LLF=.09

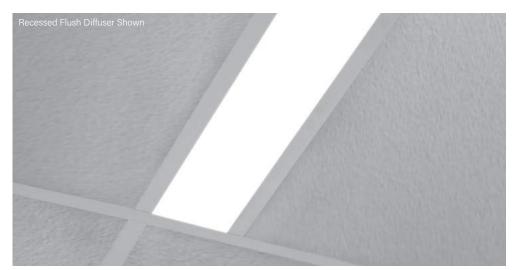
WALL WASH DESIGN GUIDE - 1500 LUMEN, TALL CONE (WWT) EXAMPLE

Calc	culation											Fo	otca	andl	es														
	Distance		Fixtures 3' from Wall									Fixtures 3.5' from Wall									Fixtures 4' from Wall								
from	Ceiling	3	3' 00		3.	5' C	C	4' OC			3	3' OC			3.5' OC			4' OC			3' OC			5' C	C	4' OC			
	3"	6	6	6	7	6	7	7	6	7	5	5	5	5	5	5	5	5	6	4	4	4	4	4	4	5	5	5	
0	6"	9	9	9	9	9	9	10	9	10	7	7	7	7	7	7	8	7	7	6	6	6	6	6	6	6	7	6	
- 7	9"	13	14	13	13	13	13	13	13	13	10	11	10	10	10	10	10	10	10	8	9	8	8	9	8	8	9	8	
	12"	16	17	16	16	16	16	16	16	16	12	13	12	12	13	12	12	13	12	10	11	10	10	10	10	10	11	10	
	2'	17	19	17	18	18	18	18	17	18	14	15	14	14	14	14	13	14	13	11	12	11	11	12	11	11	12	11	
	3'	21	23	21	20	21	20	20	20	20	17	18	17	16	17	16	16	17	16	13	15	14	13	14	13	13	14	13	
	4'	22	24	22	21	23	21	20	21	20	18	20	18	17	19	17	16	18	16	15	17	15	14	16	14	14	15	14	
	5'	22	25	22	20	23	21	19	21	19	18	21	18	17	19	17	16	18	16	16	17	16	15	16	15	14	16	14	
	6'	20	23	20	19	21	19	18	20	18	18	20	18	17	19	17	16	18	16	16	18	16	15	17	15	14	16	14	
	7'	18	20	18	16	19	16	15	17	15	17	19	17	16	18	16	15	17	15	15	17	15	14	16	14	14	15	14	
	8'	15	17	15	14	16	14	13	15	13	15	17	15	14	16	14	13	15	13	14	16	14	14	15	14	13	15	13	
	9'	13	15	13	13	14	13	12	13	12	13	15	13	13	14	13	12	14	12	13	14	13	12	14	12	12	13	12	
	10'	9	9	9	8	9	8	8	9	8	9	10	9	9	10	9	8	9	8	9	10	9	9	10	9	8	9	8	

IES File: FLC3W-RO-SW-1500L-RO-SW-1500L-35K-WWT-CD. Parameters: 80/50/20 reflectances, LLF=.09.

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

TYPE R4



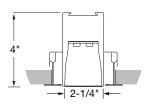
High Performance 2" Aperture is a patented, linear LED luminaire family. HP-2 delivers excellent performance using an advanced optical design and mid-power LEDs. Achieving 90% of initial light output at 100,000+ hours and backed by a 10-year performance-based warranty on all standard components.

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

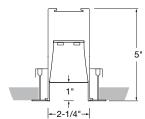
CROSS SECTIONS

Recessed



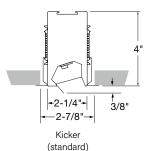
Flush Downlight Diffuser (standard)

Regressed

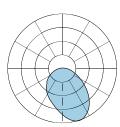


Flat Diffuser with 1" Regressed

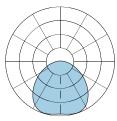
Wall Wash Recessed



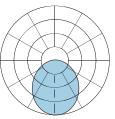
OPTIC OPTIONS



Downlight Asymmetric Optic (**DAO**)

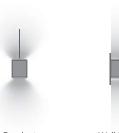


Downlight Spread Optic (**DSO**)



Standard Downlight Flush Optic (**F**)

ALSO AVAILABLE IN



Pendant (**D, ID, I**)



Wall Mount (**WM**)



Surface Mount (SM)











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



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 pp. 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

Dow	nlight	Reflector System	Voltage	Circuiting ²
F - Flush (standard) 8,9 DL - 1" Drop Down Lens 8 RG-D - Flat Diffuser with 1" Regress 1,8 RG-WCB - White Cross Blade Baffle 1,8 RG-LHE - Hollowed Ellipse Louver 1,8 RG-LHC - Hex Louver 1,8	DAO-L - Downlight Asymmetric Left 4.8 DAO-R - Downlight Asymmetric Right 4.8 DSO - Downlight Spread Optic 4.8 K - Kicker for Wall Wash only (standard) 5 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

0-10V Driver Options

FC-10% - 0-10V 10% (standard)

FC-1% - 0-10V 1%

OTi-10% - EldoLED OTi, 0-10V 10%³ OTi-1% - EldoLED OTi, 0-10V 1%3

ELD-10V-0% - EldoLED SOLOdrive, 0-10V 0.1%

10V-TW-10% - EldoLED OTi, 0-10V 10% (Tunable White)3

DALI Driver Options

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)

DMX Driver Options

ELD-DMX - EldoLED POWERdrive, 0.1% **ELD-DMX-TW** - EldoLED POWERdrive, 0.1%

(Tunable White)

Lutron Driver Options

LUT-ES1 - Lutron, Ecosystem 1% LUT-TW - Lutron LD2 Dali-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 7

OTHER OPTIONS

Emergency Style (Optional)		Integrated Sensor	Special Options
See page 8 Backup Battery table		(Optional) ⁸	(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 9 OBD - Daylight 9 W601 - Wattstopper Wireless Sensor 10 OBE - Enlighted 11 REE - Remote Enlighted 12 CLM - Encelium RF SLM - Encelium Sensor	AOCC-W - Lutron Athena Sensor (Device Color White) 13 AOCC-B - Lutron Athena Sensor (Device Color Black) 13 ARF-W - Lutron Athena RF (Device Color White) 13 ARF-B - Lutron Athena RF (Device Color Black) 13 VOCC - Lutron Vive Wireless Sensor (VDO) 14 VRF - Lutron Vive Radio Only 14	CP - Chicago Plenum ¹⁵ FLX - Flex Whip RLA - Red List Approved RLD - Red List Declared

Recessed Regressed straight run only

² Contact factory for switching options ³ Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO)

⁴ Not available with Regressed or Curves

⁵ Kicker standard in Signal White. Customer Custom color kickers have a surcharge

⁶ B & V outputs only

B & V outputs only
 7 20 business days lead time for color
 Minimum fixture length with a sensor is 3ft.
 Not available with Wall Wash

¹⁰ 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.

" Enlighted components installed by Finelite, provided by others

¹² Enlighted for Wall Wash fixtures, Enlighted Control Unit & Sensor Cable installed for

Remote mounting sensor.

3 0-10V Drivers - AOCC up to 10 drivers may be connected; ARF up to 40 drivers may be connected DALI Drivers - AOCC & ARF up to 4 drivers can be connected.

¹⁴ Lutron Vive Ingrated Sensors require a DALI driver

¹⁵ Only available with C1, C2, and C3 mounting hardware with Finelite Gridbox

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, Tunable White (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 0.1% Dimming, Tunable White (Logarithmic Dimming, Linear CCT Control)		

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

Lutron Driver Options		
LUT-ES1	Lutron, Ecosystem 1% Dimming	
LUT-TW	Lutron LD2 Dali-2 1%, 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 and plug-together wiring are standard.

LENGTHS: Any length, 2' minimum, in increments down to 1/16th" (±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 1: 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 ². 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) 3,4, Ellipse Louver (LHE) 3, Hex Louver (LHC) ³, Downlight Asymmetric Optic (DAO) ⁵, Downlight Spread Optic (DSO) 5, and Regressed downlight diffusers (RG) 3. 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

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-guage / 3-conductor power
- One 18-gauge / 4-conductor for dimming and controls
- One 18-gauge / 5-conductor power and controls
- 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

¹ Not available with Wall Wash

White Cross Blade (WCB) baffles not available with custom angles. Available in 90 degrees only

³ Recessed Regressed straight run only

⁴White Cross Blade Baffle (WCB) currently not advisable for drywall

⁵ Not available with Regressed or Curves

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

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		
HP2-R-D				
Min. Housing Length	8'*	4'**		
EM Lumen Output	1608	956		
EM Section Illuminated	2'	2' or 4'		
HP2-R-WW-D				
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 6:

TW Driver Options

- 0-10V: EM/GEN, GTD or Battery BackUup

- 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 7 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 8: 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.

⁶ Consult Finelite for Generator Transfer Device and Battery Backup fit

^{7 20} business days lead time for color

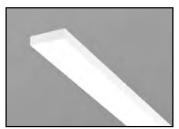
⁸ Excludes Battery Backup and Generator Transfer Device weight

Submitted by:		Date:	FINE
Type:	Project:		11111
Ordering Info:			Better L

AESTHETIC OPTIONS



Flush Diffuser (F)



1" Drop Down Lens (DL)



Flat Diffuser with 1" Regressed (RG-D)



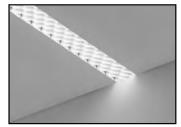
Downlight Asymmetric Optic (DAO) 1 Externally flush



Downlight Spread Optic (DSO) 1 Externally flush



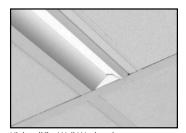
White Cross Blade Baffle 2 (RG-WCB)



Hex Louver²(RG-LHC)



Hollowed Ellipse Louver² (RG-LHE)



Kicker (K) - Wall Wash only

¹ With a subtle ribbed appearance providing specialized distribution ² Regressed only. Not available with Wall Wash

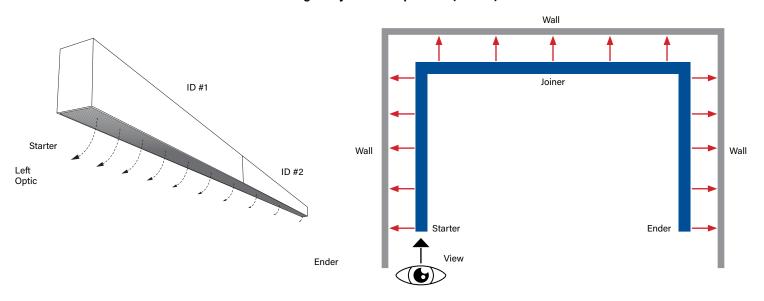
Submitted by:		Date:
Type: Project:		
Ordering Info:		



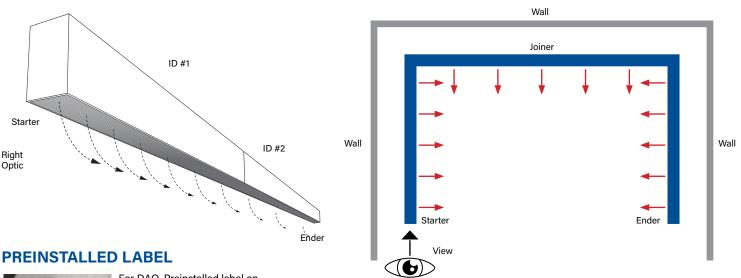
DOWNLIGHT ASYMMETRIC OPTIONS

The diagrams below show a linear run from power feed to ender. Specifing 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)

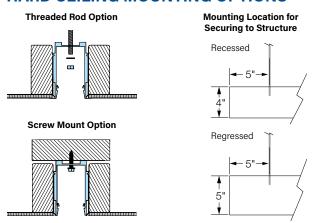




For DAO, Preinstalled label on diffuser shows direction of light. Remove after installation.

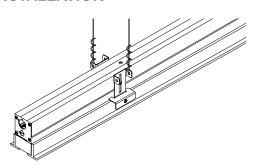
Submitted by:		Date:	FINFLITE®
Туре:	Project:		
Ordering Info:			Better Lighting

HARD CEILING MOUNTING OPTIONS



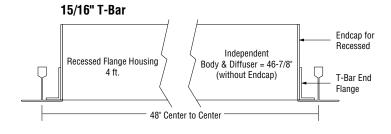
Two mounting options: threaded rod and screw mounting options. Mounting locations are located on each end of the luminaire. Mounting location is 5" away from each end of luminaire.

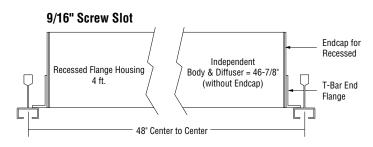
T-BAR INSTALLATION



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.

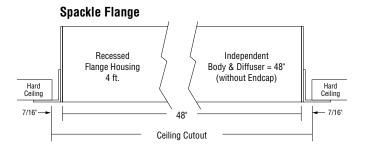
GRID LENGTH DETAIL - 4' EXAMPLE

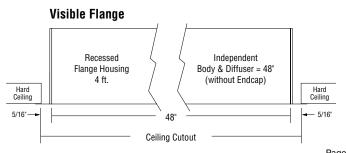




9/16" T-Bar Independent Body & Diffuser = 46-7/8" (without Endcap) T-Bar End Flange

HARD CEILING LENGTH DETAIL - 4' EXAMPLE



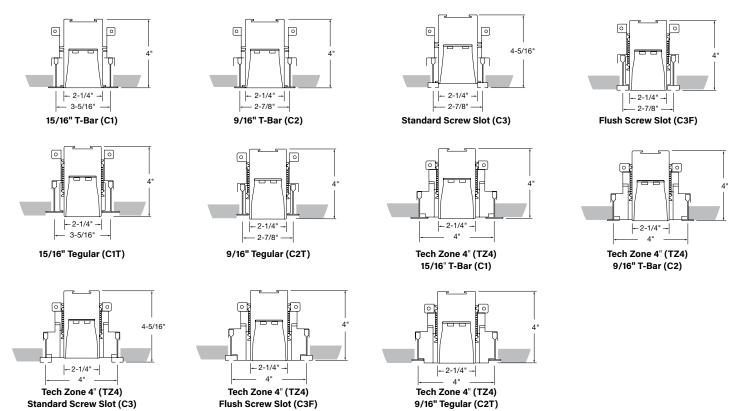


Submitted by:		Date:
Туре:	Project:	
Ordering Info:		

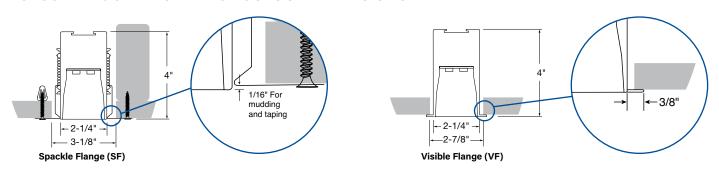


RECESSED MOUNTING TYPES - T-BAR

Rough-In Dimensions



RECESSED MOUNTING TYPES - CUTOUT DIMENSIONS



HOUSING



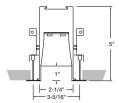
Note: +/- 1/16" Page 9

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

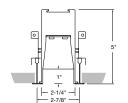


REGRESSED MOUNTING TYPES - T-BAR

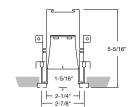
Rough-In Dimensions



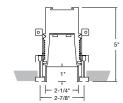
15/16" T-Bar (C1)



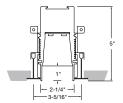
9/16" T-Bar (C2)



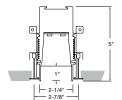
Standard Screw Slot (C3)



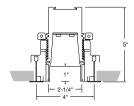
Flush Screw Slot (C3F)



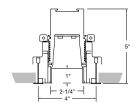
15/16" Tegular (C1T)



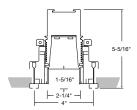
9/16" Tegular (C2T)



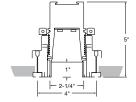
Tech Zone 4" (TZ4) 15/16" T-Bar (C1)



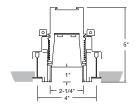
Tech Zone 4" (TZ4) 9/16" T-Bar (C2)



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

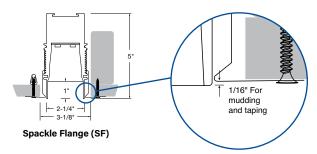


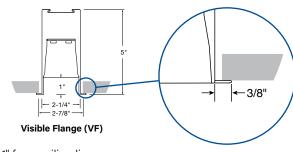
Tech Zone 4" (TZ4) Flush Screw Slot (C3F)



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

REGRESSED MOUNTING TYPES - CUTOUT DIMENSIONS





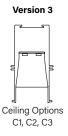
Regressed Lens: Regressed lens version is 5" tall with a lens that is regressed 1" from ceiling line.

HOUSING



Version 2

Ceiling Options
C1T, C2T, C3F, SF, TZ4



Note: +/- 1/16" Page 10



Recessed Photometry - 4' Luminaire 3500K

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

Downlight: Downlight Asymmetric Optic - Right

Efficacy: 105 lm/W

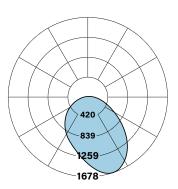
Total luminaire output: 3741 lumens (935 lm/ft)

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

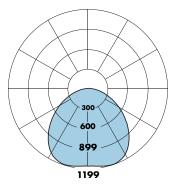
Efficacy: 92 lm/W

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 1	B 1	H 1	V ²
1531	1925	2910	3741

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S 1	B 1	H 1	V ²
383	481	727	935

Power, 3500K (Watts Per Foot)			
S ¹	B 1	H 1	V ²
3.5	4.4	6.8	8.9

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S¹	B 1	H 1	V ²
110	109	107	105

- S Standard Output, B Boosted Standard Output, H High Output, V Very High Output
- ¹ Family Correlation based on 4' luminaire 3500K Very High Output (**V**) test 120V.
- ² Based on ITL report: REP-051921-01

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire			
S ¹	B 1	H 1	V ²
1340	1684	2546	3273

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
S ¹	B 1	H 1	V ²	
335	421	636	818	

Power, 3500K (Watts Per Foot)				
S ¹	B 1	H 1	V ²	
3.5	4.4	6.8	8.9	

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S ¹	B 1	H 1	V ²
96	95	93	92

- S Standard Output, B Boosted Standard Output, H High Output, V Very High Output
- ¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test 120V.
- ² 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	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 Im x 0.789 = 2296 Im Total Light Output per Foot: 707 Im/ft x 0.789 = 574 Im/ft. watts/foot: 6.8 W/ft.

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



Recessed Photometry - 4' Luminaire 3500K

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

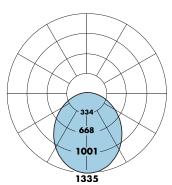
Efficacy: 89 lm/W

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

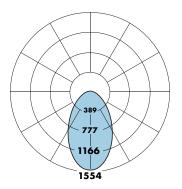
Efficacy: 79 lm/W

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 1	B 1	H 1	V ²	
1346	1692	2557	3287	

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
S ¹	B 1	H 1	V ²	
336	423	639	822	

Power, 3500K (Watts Per Foot)				
S 1	B 1	H 1	V ²	
3.6	4.6	7.1	9.2	

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S ¹	B 1	H 1	V ²
93	92	90	89

- S Standard Output, B Boosted Standard Output, H High Output, V Very High Output
- ¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test 120V.
- ² Based on ITL report: 85135

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire				
S ¹	B 1	H 1	V ²	
1190	1496	2261	2907	

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
S ¹	B 1	H 1	V ²	
298	374	565	727	

Power, 3500K (Watts Per Foot)				
S ¹	B 1	H 1	V ²	
3.6	4.6	7.1	9.3	

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S ¹	B 1	H ¹	V ²
82	81	80	79

- S Standard Output, B Boosted Standard Output, H High Output, V Very High Output
- ¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test 120V.
- ² 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: $639 \text{ lm/ft} \times 0.789 = 504 \text{ lm/ft}$. watts/foot: 7.1 W/ft.

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

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



Wall Wash Recessed - 4' Luminaire 3500K

HP2-R-WW-D-K-4'-V-835 Downlight: With Kicker

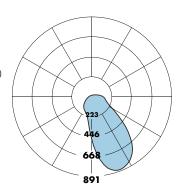
Efficacy: 76 lm/W

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 ¹	B 1	H 1	V ²
614	772	1167	1500

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S¹	B 1	H 1	V ²
154	193	292	375

Power, 3500K (Watts Per Foot)			
S ¹	B 1	H 1	V ²
2.0	2.5	3.8	4.9

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S 1	B 1	H 1	V ²
76	77	77	77

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

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

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

² Based on ITL report: 85137

Submitted by:		Date:	FINFLITE®
Type:	Project:		
Ordering Info:			Better Lighting

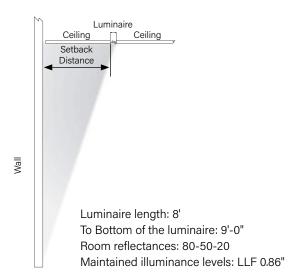
WALL WASH RECESSED - SETBACK INFO AND APPLICATION DATA

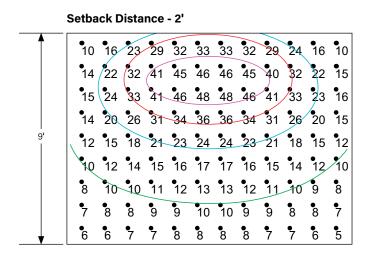
HP2-R-WW-D-K-4'-V-835 Downlight: With Kicker

Total luminaire output: 1500 lumens (375 lm/ft)

19.6 watts (4.9 W/ft)

CRI: 80 / CCT: 3500K





DOWNLIGHT ASYMMETRIC OPTIC - SETBACK INFO AND APPLICATION DATA

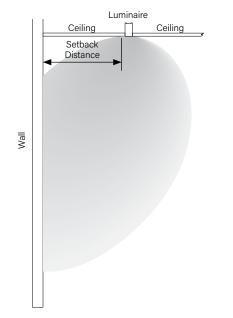
HP2-R-D-4ft-V-835-DAO

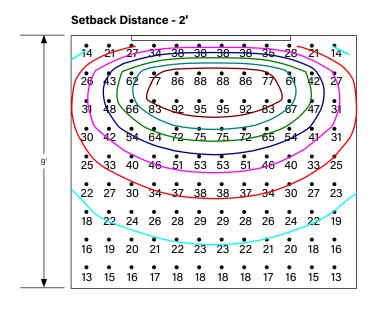
Downlight: DAO

Total luminaire output: 3742 lumens (936 lm/ft)

35.6 watts (8.9 W/ft)

CRI: 80 / CCT: 3500K





Submitted by:		Date:
Туре:	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 - 6500KDimming Range: 100% to 10%CRI Options: 80 CRI or 90 CRI

Note:

Dim to Off options available.

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. Tailored lengths available.									
Integral Battery Backup (BSL310LP)	√		\checkmark		√						

PHOTOMETRY

Apply a power adjustment factor to calculate wattage usage

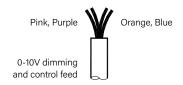
POWER	CONVERSION FACTOR
	1.1X

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

DUAL FEED DETAIL



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

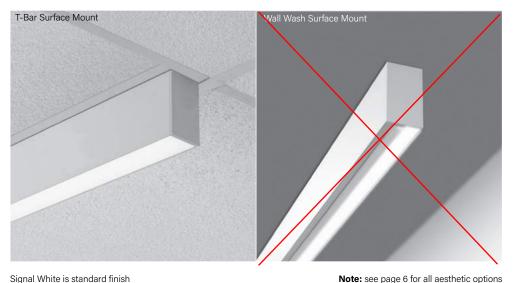


WIRING LEGEND				
Pink	Dimming	0-10V DC		
Purple	Dimming	0-10V DC		
Orange	TW	0-10V DC		
Blue	TW	0-10V DC		



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



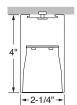


High Performance 2" Aperture is a patented, linear LED luminaire family. HP-2 delivers excellent performance using an advanced optical design and mid-power LEDs. Achieving 90% of initial light output at 100,000+ hours and backed by a 10-year performance-based warranty on all standard components.

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.

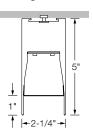
CROSS SECTIONS

Surface Mount



Flush Downlight Diffuser (standard)

Surface Mount Regressed



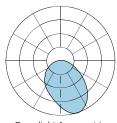
Flat Diffuser with 1" Regressed (RG)

Wall Wash Surface Mount

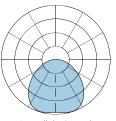


Kicker (standard)

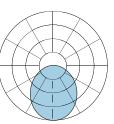
OPTIC OPTIONS



Downlight Asymmetric Optic (DAO)



Downlight Spread Optic (DSO)



Standard Downlight Flush Optic (F)

ALSO AVAILABLE IN



Pendant (D, ID, I)





Wall Mount (WM)



Recessed (R)











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

Ordering Guide Example: HP - 2 - SM - 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)
HP - High Performance	2	SM - Surface Mount SM RG - Direct 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 (329 lm/ft) B - Boosted (414 lm/ft) H - High (625 lm/ft) V - Very High (804 lm/ft) TL - Tailored: m/ft* Lumen provide are for Flush lens only, see pg. 9 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.

OUTPUT AND LED TYPE

MECHANICAL/OPTICAL OPTIONS

ELECTRICAL OPTIONS

LED CRI/CCT	Downlight	Reflector System	Voltage	Circuiting ³
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	F - Flush (standard) ¹ BG - Bottom Glow ¹ DL - 1" Drop Down Lens ¹ RG-D - Flat Diffuser with 1" Regress ² RG-WCB - White Cross Blade Baffle ² RG-LHE - Hollowed Ellipse Louver ² RG-LHC - Hex Louver ² DAO-L - Downlight Asymmetric Optic Left ¹.5 DAO-R - Downlight Asymmetric Optic Right ¹.5 DSO - Downlight Spread Optic ¹.5 K - Kicker for Wall Wash only (standard) ⁵ 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

0-10V Driver Options

FC-10% - 0-10V 10% (standard)

FC-1% - 0-10V 1%

OTi-10% - EldoLED OTi, 0-10V 10% 4 OTi-1% - EldoLED OTi, 0-10V 1% 4

ELD-10V-0% - EldoLED SOLOdrive, 0-10V 0.1%

10V-TW-10% - EldoLED OTi, 0-10V 10% (Tunable White) 4

DALI Driver Options

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)

DMX Driver Options

FLD-DMX - Fldol FD POWFRdrive, 01%

ELD-DMX-TW - EldoLED POWERdrive,

0.1% (Tunable White)

Lutron Driver Options

LUT-ES1 - Lutron, Ecosystem 1%

LUT-TW - Lutron LD2 Dali-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 C2 - 9/16" T-Bar	FE - Flat Endcap (standard) DE - 1" Drop Endcap ⁸	SW - Signal White (standard) FB - Finelite Black
C3 - Screw Slot	OE - Open Endcap 9	SA - Satin Aluminum
C4 - Hard Ceiling		#### - RAL Color Code 10

Emergency Style (Optional) See page 5 Backup Battery table	Integrat	Special Options (Optional)	
LGD18W - Legrand 18W Brand Battery Back-up LGD10W - Legrand 10W Brand Battery Back-up EM/GN - Emergency to Generator NL - Night Light BSL310LP - Bodine Battery Back up Low Profile BSL10T3 - Bodine Battery Back up Low Profile Compact GTD - Generator Transfer Device ALCR - Automatic Load Control Relay	OBO - Occupancy ¹² OBD - Daylight ¹² W601 - Wattstopper Wireless Sensor ¹³ OBE - Enlighted ¹⁴ REE - Remote Enlighted ¹⁵ CLM - Encelium RF SLM - Encelium Sensor	AOCC-W - Lutron Athena Sensor (Device Color White) ¹⁶ AOCC-B - Lutron Athena Sensor (Device Color Black) ¹⁶ ARF-W - Lutron Athena RF (Device Color White) ¹⁶ ARF-B - Lutron Athena RF (Device Color Black) ¹⁶ VOCC - Lutron Vive Wireless Sensor (VDO) ¹⁷ VRF - Lutron Vive Radio Only ¹⁷	CP - Chicago Plenum 10 RLA - Red List Approved RLD - Red List Declared

Not available with Wall Wash
Regressed only
Contact factory for switching options
Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO)
Not available with Regressed or Curves
Kicker standard in Signal White. Customer Custom color kirkers have a surrharme

kickers have a surcharge

7 B & V outputs only
8 1" Drop Down Lens downlight only

Available with Hollowed Ellipse Louver (LHE) only
 20 business days lead time for color
 Minimum fixture length with a sensor is 3ft.

12 Not available with Wall Wash Not available with wall wasn

LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected.

LMFS-601 w/ Dail driver, only 1 driver can be connected.

Enlighted components installed by Finelite, provided by others

Enlighted for Wall Wash fixtures. Enlighted Control Unit & Sensor Cable installed for Remote mounting sensor.

¹⁶ 0-10V Drivers - AOCC up to 10 drivers may be connected; ARF up to 40 drivers may be connected DALI Drivers - AOCC & ARF up to 4 drivers can be connected.
¹⁷ Lutron Vive Ingrated Sensors require a DALI driver

¹⁸ Only available with C1, C2, and C3 mounting hardware with Finelite Gridbox

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, Tunable White (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 0.1% Dimming, Tunable White (Logarithmic Dimming, Linear CCT Control)		

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

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

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

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" (±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 CORNERS1: 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 2. 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)³, Ellipse Louver (LHE)³, Hex Louver (LHC)³, Downlight Asymmetric Optic (DAO) 4, Downlight Spread Optic (DSO) 4, and Regressed downlight diffusers (RG). 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 controlling uplight and downlight together (power and dimming). Specify dual feeds for independent control of uplight and downlight. 14-gauge feed 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. DMX feeds cannot be cut or spliced. DMX feeds should be ordered based on fixed lengths.

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

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

- 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

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.

MOUNTING OPTIONS

HANGING HARDWARE: Lay-in ceiling types: caddy clip with 1/4" - 20 stud and nut. Drywall or concrete 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'.

¹ Not available with Wall Wash

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

³ Regressed only

⁴ Not available with Regressed or Curves

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

SPECIFICATIONS

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 FEATURES

ENDCAPS: Flat diecast aluminum endcaps (FE) add 1/4" to each end of luminaire. 1" Drop Down Lens Endcap (DE) includes diffuse element to continue luminance of drop lens. Open Endcap (OE) is for use with the Hollowed Ellipse Louver (**LHE**) ⁵; following the curve of the louver.

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		
HP2-SM-D				
Min. Housing Length	8'*	6'*		
EM Lumen Output	1608	956		
EM Section Illuminated	2'	2' or 4'		
HP2-SM-WW-D				
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.
The lumens are based on 835. For other CCT/CRI, refer to the Lumen Adjustment Factor table on page 8

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

or Daylight Sensors (OBD) available with Flush and Bottom Glow downlight diffusers. PIR sensors not recommended for stairwell applications. Refer to Occupancy Sensor & Daylight Sensor tech sheet and the Embedded Intelligence landing page for more information and additional sensor options. Minimum fixture length: Direct and Indiret 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.

INTEGRATED SENSORS: Integrated PIR (Passive Infrared) Occupancy (**OBO**)

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 7 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. 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*: SM - 2.3 lb/ft; WW - 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.

Tunable White ELECTRICAL OPTIONS 6:

TW Driver Options

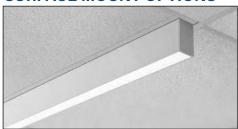
- 0-10V: EM/GEN, GTD or Battery Back Up

- DMX: Battery Back Up

- DALI: EM/GEN, GTD or Battery Back Up - LUTRON: EM/GEN, GTD or Battery Back Up

- 6 Consult Finelite for Generator Transfer Device and Battery Back up fit
- 20 business days lead time for color
- 8 Excludes Battery Back up and Generator Transfer Device weight

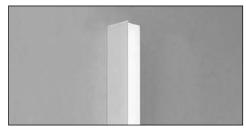
SURFACE MOUNT OPTIONS



Ceiling Surface Mount



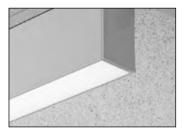
Horizontal Surface Mount



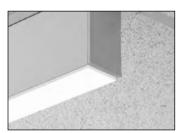
Vertical Surface Mount

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

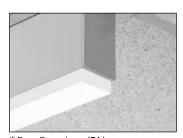
AESTHETIC OPTIONS



Flush Diffuser (F)



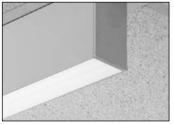
Bottom Glow Diffuser (BG)



1" Drop Down Lens (DL)



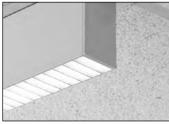
Flat Diffuser with 1" Regressed (RG-D)



Downlight Asymmetric Optic (**DAO**) ¹ Externally flush



Downlight Spread Optic (DSO) 1
Externally flush



White Cross Blade Baffle² (RG-WCB)



Hex Louver²(RG-LHC)



 ${\sf Hollowed\ Ellipse\ Louver^2(\textbf{RG-LHE})}$



Kicker (\mathbf{K}) - Wall Wash only

¹ With a subtle ribbed appearance providing specialized distribution

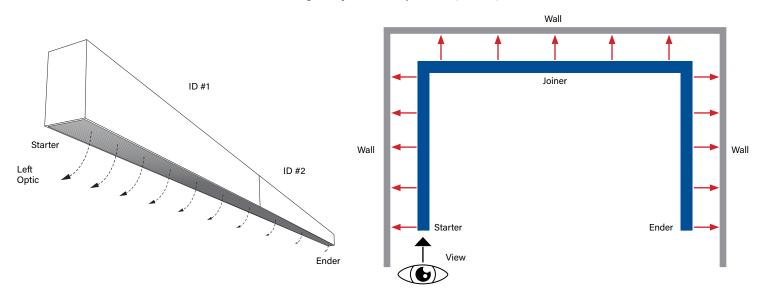
² Regressed only. Not available with Wall Wash

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

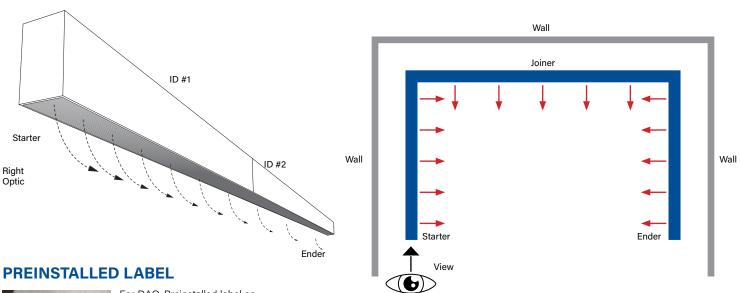
DOWNLIGHT ASYMMETRIC OPTIONS

The diagrams below show a linear run from power feed to ender. Specifing 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)





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



Recessed Photometry - 4' Luminaire 3500K

HP2-SM-D-4'-V-835-DAO

Downlight: Downlight Asymmetric Optic - Right

Efficacy: 105 lm/W

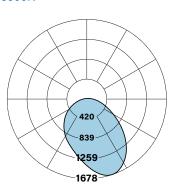
Total luminaire output: 3741 lumens (935 lm/ft)

35.5 watts (8.9 W/ft)

Peak Candela Value: 1670 @ 0°

CRI: 80 / CCT: 3500K

ITL LM79 Report REP-051921-01



HP2-SM-D-4'-V-835-DSO

Downlight: Downlight Spread Optic

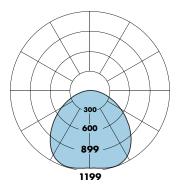
Efficacy: 92 lm/W

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 1	B ¹	H ¹	V ²
1531	1925	2910	3741

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S¹	B 1	H 1	V ²
383	481	727	935

Power, 3500K (Watts Per Foot)			
S ¹	B 1	H 1	V ²
3.5	4.4	6.8	8.9

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S¹	B 1	H 1	V ²
110	109	107	105

- S Standard Output, B Boosted Standard Output, H High Output, V Very High Output
- ¹ Family Correlation based on 4' luminaire 3500K Very High Output (**V**) test 120V.
- ² Based on ITL report: REP-051921-01

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire				
S ¹	B 1	H 1	V ²	
1340	1684	2546	3273	

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S ¹	B 1	H 1	V ²
335	421	636	818

Power, 3500K (Watts Per Foot)				
S ¹	B 1	H 1	V ²	
3.5	4.4	6.8	8.9	

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S ¹	B 1	H 1	V ²
96	95	93	92

- S Standard Output, B Boosted Standard Output, H High Output, V Very High Output
- ¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test 120V.
- ² 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.

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



Recessed Photometry - 4' Luminaire 3500K

HP2-SM-D-4'-V-835 Downlight: Flush Diffuser

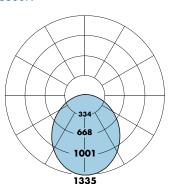
Efficacy: 89 lm/W

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-SM RG-D-4'-V-835

Downlight: Regressed Diffuser

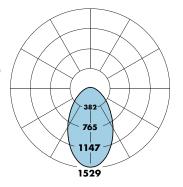
Efficacy: 79 lm/W

Total luminaire output: 2887 lumens (722 lm/ft)

36.7 watts (9.2 W/ft)

Peak Candela Value: 1529 @ 0°

CRI: 80 / CCT: 3500K ITL LM79 Report 90350



Total Light	Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire			
S 1	B 1	H 1	V ²	
1346	1692	2557	3287	

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S¹	B 1	H 1	V ²
336	423	639	822

Power, 3500K (Watts Per Foot)				
S ¹	B 1	H 1	V ²	
3.6	4.6	7.1	9.2	

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S¹	B 1	H 1	V ²
93	92	90	89

- S Standard Output, B Boosted Standard Output, H High Output, V Very High Output
- ¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test 120V.
- ² Based on ITL report: 85135

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire				
S ¹	B 1	H 1	V ²	
1182	1486	2245	2887	

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S ¹	B 1	H 1	V ²
295	371	561	722

Power, 3500K (Watts Per Foot)			
S ¹	B 1	H 1	V ²
3.6	4.6	7.0	9.2

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S ¹	B 1	H 1	V ²
82	81	80	79

- S Standard Output, B Boosted Standard Output, H High Output, V Very High Output
- ¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test 120V.
- ² Based on ITL report: 90350

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: $639 \text{ lm/ft} \times 0.789 = 504 \text{ lm/ft}$. watts/foot: 7.1 W/ft.

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

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



Wall Wash Recessed - 4' Luminaire 3500K

HP2-SM-WW-D-K-4'-V-835 Downlight: With Kicker

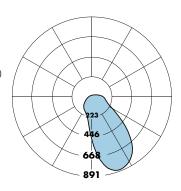
Efficacy: 76 lm/W

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 1	B 1	H 1	V ²
614	772	1167	1500

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
S¹	B 1	H 1	V ²
154	193	292	375

Power, 3500K (Watts Per Foot)			
S ¹	B 1	H 1	V ²
2.0	2.5	3.8	4.9

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
S 1	B 1	H 1	V ²
76	77	77	77

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

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

 $^{^{\}rm 1}$ Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

² Based on ITL report: 85137

		Date:	FINFLITE®
Type:	Project:		
Ordering Info:			Better Lighting

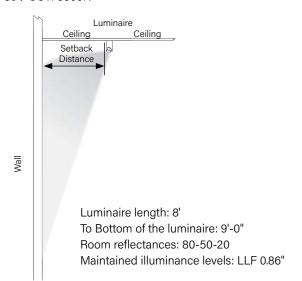
WALL WASH RECESSED - SETBACK INFO AND APPLICATION DATA

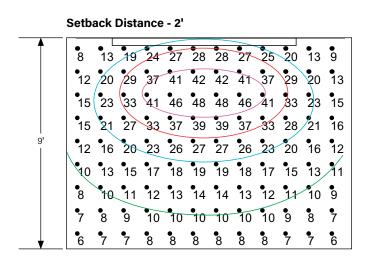
HP2-SM-WW-D-K-4'-V-835
Downlight: With Kicker

Total luminaire output: 1500 lumens (375 lm/ft)

19.6 watts (4.9 W/ft)

CRI: 80 / CCT: 3500K





DOWNLIGHT ASYMMETRIC OPTIC - SETBACK INFO AND APPLICATION DATA

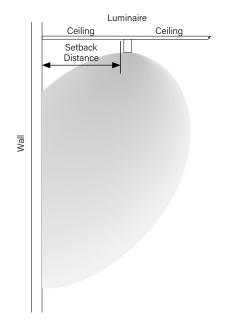
HP2-SM-D-4ft-V-835-DAO

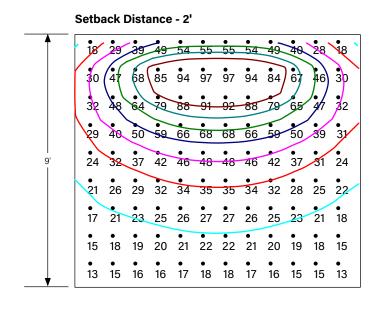
Downlight: DAO

Total luminaire output: 3742 lumens (936 lm/ft)

35.6 watts (8.9 W/ft)

CRI: 80 / CCT: 3500K





Submitted by:	Project:	Date:
Туре:	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 - 6500KDimming Range: 100% to 10%CRI Options: 80 CRI or 90 CRI

Note:

Dim to Off options available.

LUMINAIRE FAMILY MODIFICATIONS/RESTRICTIONS

				S	ectio	n Le	ength	ıs			
Surface Mount Direct	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'
Output S,B,H,V Single Circuit		F	Rows				d of 3' s avail		ections	5.	
Integral Battery Backup (BSL310LP)							\checkmark		\checkmark		\checkmark

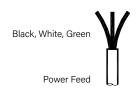
PHOTOMETRY

Apply a power adjustment factor to calculate wattage usage

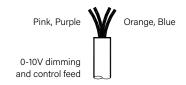
POWER	CONVERSION FACTOR
	1.1X

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

DUAL FEED DETAIL



WI	RING LEGE	ND
Black	Hot	Line Voltage
White	Neutral	Line Voltage
Green	Ground	



WI	RING LEGE	ND
Pink	Dimming	0-10V DC
Purple	Dimming	0-10V DC
Orange	TW	0-10V DC
Blue	TW	0-10V DC





Industrial

VTC Sealed strip

4ft, 3600 lumens



Day-Brite/CFI VTC Sealed strip is a durable wet location rated product designed for use in both indoor and outdoor environments. This luminaire offers rugged reliability and the efficiency your successful business requires.

Project:	
Location:	
Cat.No:	
Туре:	
Lumens:	Qty:
Notes:	

Ordering guide Example: VTC436L840-UNV

Series	Length (nominal)	Lumens ¹ (nominal)	Color temp. (K)	Voltage
VTC	4	36L	840 –	UNV
VTC Sealed strip LED	4 4' length	36L 3600 lumens	840 80 CRI, 4000K	UNV Universal voltage 120-277V (non-dimmable)

^{1.} Nominal delivered lumens at 25°C ambient

All options are factory installed.

Many luminaire components, such as reflectors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

Features

- Grey one piece, molded polycarbonate body. No rusting, no oxidation, and no corrosion.
- · Standard lens is frosted.
- Gasket provides tight seal between plastic lens and housing.
- · Stainless steel latches are standard.

- · Hanging V hooks included (set of 2).
- \cdot Wrap around mounting brackets included (set of 2).
- IP65 rated
- cULus listed to meet UL 1598 standards for -10C to 40C ambient. Suitable for wet locations.
- 5 Year Limited Warranty



VTC Sealed strip LED

4ft, 3600 lumens

Dimensions



Photometry

4' VTC Sealed strip LED, 3600 nominal delivered lumens

Catalog No.	VTC436L840-UNV	Cand	lepow	er			Light Distribution						Average Luminance				
•		Angle	End	45	Cross	Back-45	Degree	ne l	umens	% Lumi	nairo		Angle	End	45°	Cross	
Test No.	6046530.50P	0	1054	1054	1054	1054	0-30		821	22.5			45	1008	822	811	
S/MH	1.3	5	1053	1047	1046	1048	0-40)	1351	37.			55	961	757	759	
Lamp Type	LED	15	1014	999	1000	1001	0-60		2449	67.2			65	889	684	702	
Lumens	3644	25	938	918	924	926	0-90 0-180		3416 3644	93.1 100.			75 85	756 483	605 510	642 581	
		35	830	813	830	820	90-18	-	228	6.3			65	405	310	301	
Input Watts	35	45	697	691	725	699	Coeffic	-14-	_ E I_: :								
LPW	104	55 65	544 376	559	608	567											
				420	479	428		VE FLOC	R CAVIT	Y REFLECT	ANCE 20 P	ER (pt 70	c=0.20)	1	50		
Comparative vearl	ly lighting energy cost per 1000 lumens –	75 85	202 50	285 160	349 226	290 163	pcc	70	50	30	70	50	30	5	0 30)	
	000 hrs. and \$.08 pwr KWH.	95	13	98	154	98	RCR										
	·	105	8	59	110	59	0	118	118	118	114	114	114	10			
	esults were obtained in the Day-Brite	115	2	21	65	21	1 2	105 95	100 86	95 79	102 92	97 84	92 77		91 88 '9 73		
	s NVLAP accredited by the National ards and Technology.	125	2	3	22	3	3	86	75	66	83	73	65		9 62		
institute of Standa	ards and rechnology.	135	2	2	3	2	4	79	66	57	76	64	56		51 54		
Photometric value	es based on test performed in compliance	145	2	2	2	2	5	72 67	59 53	49 44	70 64	57 52	49 43		4 47 19 41		
with LM-79.	•	155	3	3	3	3	7	62	48	39	60	47	38		15 37		
		165	3	3	3	3	8	57	44	35	55	43	34	4	11 33	3	
		175	4	4	3	3	9	54	40	31	52	39	31	3			
							10	50	37	29	49	36	28	3	5 28	ذ	



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Industrial

VTC Sealed strip

4ft, 3600 lumens



Day-Brite/CFI VTC Sealed strip is a durable wet location rated product designed for use in both indoor and outdoor environments. This luminaire offers rugged reliability and the efficiency your successful business requires.

Project:	
Location:	
Cat.No:	
Туре:	
Lumens:	Qty:
Notes:	

Ordering guide Example: VTC436L840-UNV

Series	Length (nominal)	Lumens¹ (nominal)	Color temp. (K)	Voltage
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VTC Sealed strip LED	4 4' length	36L 3600 lumens	840 80 CRI, 4000K	UNV Universal voltage 120-277V (non-dimmable)

^{1.} Nominal delivered lumens at 25°C ambient

All options are factory installed.

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- Grey one piece, molded polycarbonate body. No rusting, no oxidation, and no corrosion.
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- Gasket provides tight seal between plastic lens and housing.
- · Stainless steel latches are standard.

- · Hanging V hooks included (set of 2).
- Wrap around mounting brackets included (set of 2).
- IP65 rated
- cULus listed to meet UL 1598 standards for -10C to 40C ambient. Suitable for wet locations.
- 5 Year Limited Warranty

VTC Sealed strip LED

4ft, 3600 lumens

Dimensions



Photometry

4' VTC Sealed strip LED, 3600 nominal delivered lumens

Catalog No.	VTC436L840-UNV	Cand	lepow	er			Light Distribution						Average Luminance				
•		Angle	End	45	Cross	Back-45	Degree	ne l	umens	% Lumi	nairo		Angle	End	45°	Cross	
Test No.	6046530.50P	0	1054	1054	1054	1054	0-30		821	22.5			45	1008	822	811	
S/MH	1.3	5	1053	1047	1046	1048	0-40)	1351	37.			55	961	757	759	
Lamp Type	LED	15	1014	999	1000	1001	0-60		2449	67.2			65	889	684	702	
Lumens	3644	25	938	918	924	926	0-90 0-180		3416 3644	93.1 100.			75 85	756 483	605 510	642 581	
		35	830	813	830	820	90-18	-	228	6.3			65	405	310	301	
Input Watts	35	45	697	691	725	699	Coeffic	-14-	_ E I_: :								
LPW	104	55 65	544 376	559	608	567											
				420	479	428		VE FLOC	R CAVIT	Y REFLECT	ANCE 20 P	ER (pt 70	c=0.20)	1	50		
Comparative vearl	ly lighting energy cost per 1000 lumens –	75 85	202 50	285 160	349 226	290 163	pcc	70	50	30	70	50	30	5	0 30)	
	000 hrs. and \$.08 pwr KWH.	95	13	98	154	98	RCR										
	·	105	8	59	110	59	0	118	118	118	114	114	114	10			
	esults were obtained in the Day-Brite	115	2	21	65	21	1 2	105 95	100 86	95 79	102 92	97 84	92 77		91 88 '9 73		
	s NVLAP accredited by the National ards and Technology.	125	2	3	22	3	3	86	75	66	83	73	65		9 62		
institute of Standa	ards and rechnology.	135	2	2	3	2	4	79	66	57	76	64	56		51 54		
Photometric value	es based on test performed in compliance	145	2	2	2	2	5	72 67	59 53	49 44	70 64	57 52	49 43		4 47 19 41		
with LM-79.	•	155	3	3	3	3	7	62	48	39	60	47	38		15 37		
		165	3	3	3	3	8	57	44	35	55	43	34	4	11 33	3	
		175	4	4	3	3	9	54	40	31	52	39	31	3			
							10	50	37	29	49	36	28	3	5 28	ذ	



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PRE-2-M Serenity Lens LED Specifications

TYPE ZYA1 TYPE ZYB1 TYPE ZYE1



Project Name:	
Catalog Number:	

Type:

Contemporary design meets the new generation of LED green technology in this stunning luminaire, the **PRE-2-M Serenity Lens**. The PRE-2-M Serenity Lens Array series provides up to fifty percent energy savings over traditional HID light sources; and offers excellent beam control and LED life beyond 100,000 hours. The PRE-2-M Array is offered in five optical distributions.

The PRE-2-M Serenity Lens Arrays fully-sealed housing features an exceptionally well-designed thermal management system that provides superior heat dissipation.

The PRE-2-M Serenity Lens fixture is built with a cast aluminum housing, extruded aluminum arms and a spun aluminum, removable top.

The popular **PRE-2-M Serenity Lens** is the perfect compliment to any university campus, business park, or walkway project where contemporary, architectural design is desired.

Ordering Information

MODEL	OPTICS	LUMENS	KELVIN	VOLTAGE	MOUNTING	FINISH	SERENITY LENS	OPTIONS	OPTIONS
PRE-2-M	T1	2L	3K 3000K	UNV 120-277V	PT Post Top	BZ Bronze	LDL Lightly Diffused	PC-120 PC-208	DIM 0-10v
	T2	4L	30001	1202111	*Slips over 3" OD	DIONZE	Diffused Lens	PC-240	Dimming Driver
	Tal	e.	4K	8	tenon X 4.5"	BK		PC-277	
	T3L	6L	4000K	347V	tall as standard	Black	HDL Highly	Button Type Photocell	VWC Visionaire
	T4L	8L	5K	5		SBK	Diffused		Wireless
	T5LS		5000K	480V		Smooth Black	Lens	WSC-8 Motion Sensor	Controls *Consult Factory
						WH		8' Mounting	•
						White		Height	IR-(R, B, G Illuminated
						SWH Smooth White		WSC-20 Motion Sensor	Rings (Red, Blue, Green)
						GP Graphite		9-20' Mounting Height	PER 3, 5, or 7 Pin Photo
						GY Grey		WSC-40 Motion Sensor 21-40'	Receptacle w/shorting cap
						SL Silver Metallic		21-40' Mounting Height the WSC option will	
						CC Custom Color		require (1) FSIR 100 remote for programing	

Features & Specifications

PRE-2-M Serenity Lens

Housing

The PRE-2-M Serenity Lens' housing is constructed from durable, corrosion-resistant, cast aluminum. The spun aluminum top cap is .080 gauge, and easily removable for service. Silicone gasketing is provided for complete weather and insect protection.

Thermal Management

The PRE-2-M Serenity Lens provides excellent overall thermal management by maximizing the efficiency of the heat sink in the fixture. This enables the PRE-2-M Serenity Lens to withstand higher ambient temperatures and higher drive currents without degrading LED life.

Optical System

- The hightest lumen output LEDs are utilized. High-performance acrylic optics feature industry leading Type 1, 2, 3L, 4L, and 5LS optical distributions. Acrylic optics are impact-resistant and rated to 94 percent translucence.
- L70 life of our LEDs is rated over 100,000 hours (for 350 mA), The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution for neighborhood-friendly lighting.
 CRI values are 70.

Quali-Guard® Finish

Fixture components are chemically pretreated through a multiple-stage washer, and finished with an electrostatically-applied, thermoset polyester powder coat textured paint with a 3 to 5 mils thickness.

- \cdot Finish is oven-baked at 400 $^{\rm o}{\rm F}$ for maximum adherence and finish hardness
- · Available in standard and custom colors.
- · Finish is guaranteed for five (5) years.

Post Top Mount

The PRE-2-M Serenity Lens contractor-friendly mounting hardware slips over 3" OD tenon X 4.5" tall as standard utilizing stainless steel hardware.

Electrical Assembly

- The PRE-2-M Serenity Lens is supplied with a high-performance driver available in 350, 530 or 700. The driver is integrally-located in the housing, and is operational from 120 V through 480 V, 50 Hz to 60 Hz input
- · Power factor is 90%.
- · Rated for -40o to 50° C operation.
- · 10 kV surge protector supplied as standard.

Warranty

Five (5) year Limited Warranty on entire system, including finish. For full warranty information, please visit www.visionairelighting.com.

Options

- · Button type photocell
- · 0-10v Dimming Driver
- · WattStopper FSP-211
- · Motion Sensor
- · Wireless Control
- · Illuminated Rings
- · Photo Receptacle

Please consult factory for detailed custom options.

Listings

- · PRE-2-M Serenity Lens is cUL listed
- · DLC Listed
- · IDA Certification
- · IP66 Rated
- · LM79 and LM80
- · Powder Coated ToughTM









DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be besignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. http://www.designlights.org/ 3000K must be selected for IDA certification.

PRE-2-M Serenity Lens - Electrical Load (A)										
Ordering Nomenclature	System Watts	120V	208V	240V	277V	347 V	480V			
PRE-2-M-T5LS-2L	22	0.18	0.11	0.09	0.08	0.06	0.05			
PRE-2-M-T5LS-4L	43	0.36	0.21	0.18	0.16	0.12	0.09			
PRE-2-M-T5LS-6L	70	0.58	0.34	0.29	0.25	0.20	0.15			
PRE-2-M-T5LS-8L	97	0.81	0.47	0.40	0.35	0.28	0.20			

131

PRE-2-M Serenity Lens LED Specifications

Photometric Optical Summary











EPA Data



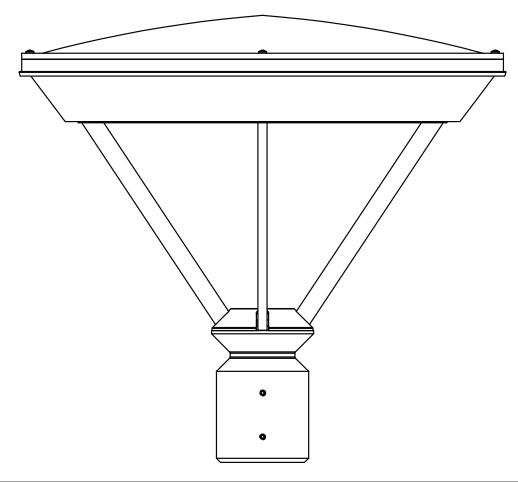
.88

Dimensions

 Width:
 PRE-2-M
 20"

 Height:
 PRE-2-M
 18.4"

Weight: 37 LBS



	Motion Sensor Default Setting												
Туре	High Mode	Low Mode	Time Delay	Cut off Delay	Sensitivity	Hold Off Set Point	Photocell On/Off	Ramp up Time	Fade Down Time				
WSC - Default	10V	1V	5 Min	1 Hour	Max	Disabled	Disabled	Disabled	Disabled				
WSC Range	0-10V	0-9.8V	5 - 30 Min	1 - 5 Hours	Low, Med, Max	1 - 250FC	1 - 250FC	1 - 60 Dec	1-60 Dec				



LED Specifications PRE-2-M Serenity Lens

Pro	emier-2	-M	S	ere	ni	tv	Le	ทร	- 1	D	L 3	K	Lu	ımı	en	Da	ata
	Lumens	$\overline{}$	T1			T2			ГЗL	_		Γ4L	_	_	5L		Watts
150	2L	-	01:		2	04		-	84		-	75	_	-	65		22
300	4L	-	02		\vdash	.08	-	-	69	-	-	51	_	-	31		43
500	6L	-	61		-	70		-	07	$\overline{}$	-	77	_	-	43		70
700	8L	-			-	17	_	-			-			-	44		
	_	_	05		_			_	31	_	_	90	_	_			97
	emier-2	$\overline{}$			nı									$\overline{}$			
	Lumens	-	T1		_	T2	_	_	T3L		-	Γ4L	_	⊢	5L	_	Watts
150	2L	⊢	16		_	20		\vdash	99	-	\vdash	89	_	⊢	78		22
300	4L	⊢	33		-	39	_	-	98	_	-	79	_	⊢	356		43
500	6L	⊢	12		_	22		-	54	_	-	22	_	-	86		70
700	8L	9	75	7	9	89	5	8	96	6	8	52	5	8	302	5	97
Pre	emier-2	_			ni	ty	Le	ns	- L	.D	L 5	K	Lu	m	en	Da	ata
Current	Lumens		T1			T2		•	T3L		-	Γ4L		Т	5L	S	Watts
150	2L	2	05	7	2	208	6	1	89	1	1	79	8	1	69	2	22
300	4L	4	11:	5	4	17	3	3	78	1	3	59	5	3	38	4	43
500	6L	6	75	9	6	85	5	6	21	1	5	90	6	5	55	9	70
700	8L	9	25	5	9	38	5	8	50	5	8	08	7	7	61	2	97
Prem	ier-2-M	Se	rer	nity	_		_	DI	L 3	ΚI	_		_	er	Wa	att	Data
	Lumens	$\overline{}$	T1			T2		_	ГЗL	_		Γ4L		_	5L		Watts
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300	4L	+	94			95			86			82			77		43
500	6L	\vdash	95			96		-	87		-	83		H	78	_	70
700	8L	-	_	_		95		-	_	_	-	_		┝	_	_	97
		_	93				_	86		82 Lumen F		77					
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	Lumens	⊢	T1		_	T2	_		Γ3L	-		Γ4L	_	Ľ	5L		Watts
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300	4L	┢	101		102		93		88		_	83 84			43		
500	6L	102		_	104			94	_		89	_	-		_	70	
700	8L	_	101		_	102	_		93	_	L	88	_	L	83		97
	ier-2-M	_		nity	' Le												T
Current	Lumens	L	T1			T2		_	T3L			Γ4L	_	T	5L	S	Watts
150	2L	L	94			95	,		86			82		L	77		22
300	4L		96	ì		97	'		88			84			79)	43
500	6L	ı	97	•		98	}		89			85			80	١	
						97			88			83				_	70
700	8L		96			_									79)	97
		2-N			rer	_	/ L	en			DL	3K		SUC	_)	97
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Р	8L remier-		VI S	Sei		ity T2		Ŀ	s - T3L	L		Γ4L	В	Ţ	G [Dat S	97 ta
P	8L remier- Lumens	В	VI S	Sei G	В	T2 U	G	В	s - T3L U	LI	В	Γ4L U	G B	T B	G [5L U	Dai S G	97 ta Watts
P Current 150	8L remier- Lumens 2L	B	VI S T1 U	G 1	B	T2 U	G	B	S - T3L U	G	В 1	Γ4L U 0	G	Т В 1	G [5L U	Dai S G	97 ta Watts
P Current 150 300	8L remier- Lumens 2L 4L	B 1 2	VI S T1 U O O O	G 1	B 1	T2 U	G 1	B 1	S - (3) (0) (0)	G 1	B 1	U 0 0	G 1	B 1	3 [5L U 0	Da 1 G 1	97 ta Watts 22 43
P Current 150 300 500 700	8L remier- Lumens 2L 4L 6L 8L	B 1 2 2 3	M S T1 U 0 0 0	G 1 1 2 3	B 1 2 2	T2 U 0 0	G 1 1 2	B 1 2 2	S - T3L U 0 0	G 1 1 2	B 1 2 2	U 0 0 0 0	G 1 1 2	1 1 2 2	5L 0 0 0	Dat S G 1 1 1 1	97 ta Watts 22 43 70 97
P Current 150 300 500 700	8L remier- Lumens 2L 4L 6L	B 1 2 2 3	M S T1 U 0 0 0 M S	G 1 1 2 3	B 1 2 2	T2 U 0 0	G 1 1 2 2	1 1 2 2	S - 13L 0 0 0 0	G 1 1 2	B 1 2 DL	0 0 0 0 4	G 1 1 2 2 K B	1 1 2 2	G [5L 0 0 0	Dat 5 1 1 1 1 1 1 1 1 1	97 ta Watts 22 43 70 97
P Current 150 300 500 700	8L remier- Lumens 2L 4L 6L 8L	B 1 2 2 3 2-N	M S T1 U 0 0 T1 T1 T1	G 1 1 2 3 Sei	1 1 2 2	T2 U O O O T2	G 1 1 2 2	1 1 2 2	S - 13L 0 0 0 0	G 1 1 1 2 LI	B 1 1 2 2 DL	0 0 0 4 4 7 4 1	G 1 1 2 2 K B	1 1 2 2 U(G [5L 0 0 0 0	Date S I I I I I I I I I I I I I I I I I I	97 ta Watts 22 43 70 97
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P Current 150 300 500 700 P Current	8L remier- Lumens 2L 4L 6L 8L remier- Lumens	B 1 2 2 3 2-N B	M S T1 U O O O T1 U O O O O O O O O O O O O O O O O O O	G 1 1 2 3 Sei	1 1 2 2 rer	T2 U O O O O T2 U O O O O O O O O O O O O O O O O O O	G 1 1 2 2 / L	B 1 2 2 en B 1	S 13L 0 0 0 0 13L U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	G 1 1 2 L G G 1	B 1 2 2 DL B 1	0 0 0 4 4 0 0	G 1 1 2 G G 1	1 1 2 2 3 3 4 5 5 6 7 8 1	G [U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dat 5 G 1	97 ta Watts 22 43 70 97 ta Watts
P Current 150 300 500 700 P Current 150 300	8L remier- Lumens 2L 4L 6L 8L remier- Lumens 2L 4L	B 1 2 2 3 2-N B 1 2	M S T1 U O O O O O O O O O O O O O O O O O O	G 1 2 3 Sei 1 1	B 1 2 2 rem	11ty 12 0 0 0 0 1ty 12 0 0 0	G 1 2 2 / L G 1 1	B 1 2 2 en 1 1	S - 13L 0 0 0 0 0 13L 0 0	G 1 1 2 L[B 1 2 2 DL B 1 1	0 0 0 4 4 1 0 0	G 1 1 2 G 1 1	1 1 2 2 BUC TB	G [U	Dat S G 1 1 1 1 1	97 ta Watts 22 43 70 97 ta Watts 22 43 43
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PCurrent 150 300 500 700 PCurrent 150 300 500 700	8L remier- Lumens 2L 4L 6L 8L remier- Lumens 2L 4L 6L	B 1 2 2 3 B 1 2 2 3 3	M S T1 U O O O O O O O O O O O O O O O O O O	G 1 1 2 3 Sei 1 1 2 3	B 1 2 2 rem 1 1 2 2 2	T2 0 0 0 0 1ity T2 U 0 0 0 0 0 0 0 0 0 0 0 0 0 0	G 1 2 2 / L 1 1 2 2	B 1 2 2 en 1 1 2 2 2	S - 13L 0 0 0 0 0 0 0 0 0 0	G 1 1 2 L G 1 1 2 2 2	B 1 2 2 DL 1 1 2 2 2	14L 0 0 0 0 4K 14L 0 0 0	G 1 1 2 2 2 2	1 1 2 2 3 3	G [5] U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dat S G 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	97 ta Watts 22 43 70 97 ta Watts 22 43 70 97 70 97
P Current 150 300 500 700 P Current 150 300 500 700	8L remier- Lumens 2L 4L 6L 8L remier- Lumens 2L 4L 6L 8L remier-	B 1 2 2 3 B 1 2 2 3 2-N	M S T1 U O O O O O O O O O O O O O O O O O O	G 1 1 2 3 Sei 1 1 2 3	B 1 2 2 rem 1 1 2 2 2	T2 0 0 0 0 1ity T2 U 0 0 0 0 0 0 0 0 0 0 0 0 0 0	G 1 2 2 / L 1 1 2 2 / L	B 1 1 2 2 en 2 en 2	S - 13L 0 0 0 0 0 0 0 0 0 0	G 1 1 1 2 L G 1 1 2 2 L	B 1 2 2 DL 2 DL 2	14L 0 0 0 0 4K 14L 0 0 0	G 1 1 2 2 2 K B	1 1 2 2 BUC 1 1 2 3 BUC	G [5] U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dat S G 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	97 ta Watts 22 43 70 97 ta Watts 22 43 70 97 ta
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P Current 150 300 500 700 P Current 150 300 500 700	8L remier- Lumens 2L 4L 6L 8L remier- Lumens 2L 4L 6L 8L remier-	B 1 2 2 3 2-N B 1 2 2 3 2-N	M \$ T1 U O O O O O O O O O O O O O O O O O O	G 1 1 2 3 Sei Sei Sei	B 1 2 2 rem 1 1 2 2 rem 2 2	T2	G 1 1 2 2 1 1 1 2 2 1 L 1 2 2 1 L 1 1 2 2 1 L 1 1 2 2 1 1 L 1 1 1 2 2 1 1 1 1	B 1 2 2 en 2 en 2 en 3 en 3 en 3 en 3 en 3	S - T3L U O O O O O O O O O O O O O O O O O O	G 1 1 2 L [] 2 L [] 2 L [] 2	B 1 2 2 DL 1 1 2 2 DL	14L 0 0 0 4K 14L 0 0 0 5K 14L	G 1 1 2 2 2 E E E E E E E E E E E E E E E	1 1 2 2 BUC 1 1 2 3 BUC 1	G [Dat S G 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	97 ta Watts 22 43 70 97 ta Watts 22 43 70 97 ta
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Pre	emier-2	-M	Se	ere	ni	tv	Le	ns	- ŀ	ΙD	L 3	3K	Lu	ım	en	D	ata
Current			T1			T2			T3L		$\overline{}$	Γ4L			5L		Watts
150	2L	\vdash	80	5	1	84	_	-	67	-	-	678	$\overline{}$	-	77		22
300	4L	-	61	_	\vdash	69	-	_	35	_	⊢	350	$\overline{}$	-	55		43
500	6L	\vdash	93		-	07	_	_	50	_	_	51	_	-	84		70
700	8L	_	12		_	31:		_	53	_	-			-			97
	_	_			_				_		_	549	_		00		
	emier-2	_		ere		_	_			_	_		_				г
Current		—	T1		-	T2	_	_	T3L	-	⊢	Γ4L	_	-	5L	_	Watts
150	2L	\vdash	94		-	99	-		80		-	809		-	91		22
300	4L	3	89	2	3	98	4	3	61	3	3	618	8	3	83	5	43
500	6L	6	39	4	6	54	5	5	93	5	5	94	3	6	30	1	70
700	8L	_	75		_	96	_		12	_	_	13	_	_	62		97
Pre	emier-2	-M	Se	ere	ni	ty I	Le	ns	- ŀ	ΙD	L 5	iΚ	Lu	ım	en	D	ata
Current	Lumens		T1			T2			T3L		Ī	Γ4L		Т	5L	S	Watts
150	2L	1	84	6	1	89	0	1	71	4	1	71	6	1	81	9	22
300	4L	3	69	2	3	77	9	3	42	7	3	43	2	3	63	8	43
500	6L	6	606	5	-	20	-	5	63	0	5	638	8	5	97	6	70
700	8L	\vdash	30		-	50	_	7	70	8	⊢	719	$\overline{}$	8	18	3	97
	ier-2-M																
Current		$\overline{}$	T1	у	Ė	T2			T3L		$\overline{}$	Γ4L	$\overline{}$		5L		Watts
		-								-	-		\dashv	-		3	
150	2L	_	82			84			76		-	76		_	81		22
300	4L	\vdash	84		-	86			78		\vdash	78	_	-	83	_	43
500	6L	\vdash	85			87			79	_	L	79		-	84		70
700	8L	84		L	86			78	_				83			97	
Premier-2-M Serenity Lens - HDL 4K Lumen Per Watt Data																	
Current	Lumens		T1			T2			T3L		Ŀ	Γ4L		T	5L	s	Watts
150	2L		88			91			82			82			87		22
300	4L		91			93			84			84			89		43
500	6L		92			94			85			85			91		70
700	8L		90			92			84		Г	84			89		97
Prem	ier-2-M	Se	ren	nitv	Le	ns	- I	ID	L 5	K	Lur	ne	n F	er	W	att	
Current		_	T1	,	Ē	T2	$\overline{}$		<u>г</u> зг	$\overline{}$	$\overline{}$	Γ4L			5L		Watts
150	2L	\vdash	84		Н	86	_		78	_	⊢	78	$\overline{}$	-	83		22
300	4L	_	86		H	88	_		80	_	-	80	-	-	85		43
		—					-				-			_			70
500	6L	-	87			89		_	81		-	81	_	_	86		-
700	8L		86		L	88		80		80		84			97		
Pi	remier-	_		ser	en		_			_	_		_	_			ta
Current	Lumens	L	T1			T2		_	T3L		Ľ	Γ4L		T	5L	S	Watts
		В	U	G	В	U	G	В	U	G	В	U	G	В	υ	G	
150	2L	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	22
300	4L	1	0	1	1	0	7	1	0	1	1	0	1	1	0	1	43
500					_	\sim	1	2	0	1	2	0	1	2	0	1	70
	6L	2	0	1	2	0	Ε' Ι		0								
700	6L 8L	2	0	1	2	0	2	2	0	2	2	0	2	2	0	1	97
		2	0	1	2	0	2	2	0	-	ш		ш			_	.
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Pı	8L remier-2	2 2-N B	0 // S T1 U	1 Ser	2 en B	0 ity T2 U	2 L G	2 ens	0 S - T3L U	HI	DL B	4k Γ4L U	G E	T	G I	Da S G	ta Watts
Proceedings of Processing Process	8L remier-2 Lumens 2L	2 2-N B	0 // S T1 U	1 Ser G	2 en B	0 ity T2 U	2 C 1	2 en: B	0 s - T3L U	G 1	DL B	4k Γ4L Ο	G	T B	G I 5L U	Da S G	Watts
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Pr Current 150 300 500	8L remier-2 Lumens 2L 4L 6L	2 2-N B 1 2 2	0 1 S T1 U 0 0	1 G 1	2 B 1 1 2	0 T2 0 0	2 G 1 1 2	2 B 1 1	0 T3L U 0	G 1 1 1	DL B 1 1	4k 0 0	G 1 1 1	B 1 2 2	5 L 0 0	Da S G 1 1 1	Watts 22 43 70
Pr Current 150 300 500 700	8L remier-2 Lumens 2L 4L 6L	2 2-N B 1 2 2 3	0 // S T1 U 0 0	1 G 1 1	2 B 1 1 2 3	0 T2 0 0	2 G 1 1 2 2	2 B 1 1 2	0 S - T3L U 0 0	HI G 1 1 2	DL B 1 1 2	4 / U 0 0 0 0	G 1 1 2	B 1 2 2 2	G I U 0 0	Da S G 1 1	Watts 22 43 70 97
Pr Current 150 300 500 700	8L remier-2 Lumens 2L 4L 6L	2 2-N B 1 2 2 3	0 // S T1 U 0 0	1 G 1 1	2 B 1 1 2 3	0 T2 0 0	2 G 1 1 2 2	2 B 1 1 2	0 S - T3L U 0 0	HI G 1 1 2	DL B 1 1 2	4 / U 0 0 0 0	G 1 1 2	B 1 2 2 2	G I U 0 0	Da S G 1 1	Watts 22 43 70 97
Pi Current 150 300 500 700	8L remier-2 Lumens 2L 4L 6L	2 2-N B 1 2 2 3	0 1 S T1 U 0 0	G 1 1 1 Ser	2 B 1 1 2 3 en	O Ity	2 G 1 1 2 2 L C	2 B 1 1 2 2	0 	HI G 1 1 1 2 HI	DL B 1 1 2 2 DL	4K (4L () () () () () () () () ()	G 1 1 2 C E	T B 1 2 2 2 2 T	G I U O O O O G I SL	Da ¹ 1 1 1 1 S	Watts 22 43 70 97
Pr Current 150 300 500 700 Pr	8L remier-: Lumens 2L 4L 6L 8L remier-: Lumens	2 2-N 2 3 2-N B	0 I S T1 U 0 0 0 0 1 S T1 U U	G 1 1 1 Ser	2	Olity T2 U O O O Ity T2 U U O O O U T2 U	2	2 B 1 1 2 2 ens	0 S - T3L U 0 0 0	HI 1 1 2 HI G	DL B 1 1 2 2 DL	4H (14L (10) (10) (10) (14L (14L) (14L)	G 1 1 2 G G	T B 2 2 2 BUC T B	G I O O O O O O O O O O O O O O O O O O	G 1 1 1 1 Ca S	Watts 22 43 70 97 ta Watts
Pr Current 150 300 500 700 Pr Current	8L remier-: Lumens 2L 4L 6L 8L remier-: Lumens	2 2-N B 1 2 2 3 2-N B	0 / S T1 U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 G 1 1 1 1 Ser	2 B 1 2 3 en B 1	0 T2 U O O O O O O O O O	2 G 1 1 C C C C C C C C C C C C C C C C C	2 B 1 2 2 Ens	0 s - T3L U 0 0 0 0	HI 1 1 2 HI G 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DL 1 2 2 DL 5 B 1	4H (4L 0 0 0 5H (4L U	G 1 1 2 G 1	T B 2 2 2 1 B 1	G I U O O O O O O O O O O O O O O O O O O	Da ¹ S G 1 1 1 S G 1 1 1 1 1 1 1 1 1 1 1 1 1	Watts 22 43 70 97 ta Watts
Pr Current 150 300 500 700 Pr Current 150 300	8L remier- Lumens 2L 4L 6L 8L remier- Lumens 2L 4L 4L	2 2-N B 1 1 1 1	0 / S T1 U 0 0 0	1 Ser G G 1 1	2 B 1 1 2 3 Fen B 1 1	0	2 G 1 1 1 C G 1 1	2 B 1 1 2 2 ens B 1	0 S - T3L U 0 0 0 0 0	HI G 1 1 2 HI G 1 1	DL B 1 1 2 2 DL B 1 1	4K (4L 0 0 0 5K (4L 0 0	G 1 1 2 G 1 1	T 2 2 2 1 1 1 1 1	G I O O O O O O O O O O O O O O O O O O	Da S G 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Watts 22 43 70 97 ta Watts 22 43
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19645 Rancho Way · Rancho Dominguez, CA 90220 · Phone: 310 512 6480 Fax 310 512 6486 www.visionairelighting.com

Project	Catalog #	Туре	
Prepared by	Notes	Date	



Ephesus

LUMAVISION

CCT Tunable or Fixed-Color White LED Sports & Entertainment Luminaire

Typical Applications

- · Aerial and Ground Sports Venues · Multi-Event Centers
- · Gymnasiums & Field Houses · Outdoor Courts · Basketball Courts
- Tennis Courts Pickleball Courts Volleyball Courts Playgrounds & Skateparks
- Parks and Recreation Venues Ice Hockey & Skating Arenas

P

Interactive Menu

- Ordering Information page 2
- Performance Data page 3
- Ordering Information Accessories page 6
- Accessory Details page 6
- Dimensional and Mounting Details page 9 24
- Sample System Topology page 25

Product Certification













POOL POLE LIGHTING WITH 30-50FT POLE HEIGHT; QTY. OF HEAD TBD PER PHOTOMETRIC CALCS.

Top Product Features

· Optical Performance

- . AccuLED Optics™: LumaVision utilizes patented and industry leading UV coated AccuLED Optics™ preventing yellowing and degradation over time.
- Glare and Spill Light Control: Twenty (20) available beam distributions provide the flexibility and performance required for indoor and outdoor sports lighting.
- CCT Pro Tuning Option: Allows for a tunable color temperature range of 3000K-6500K.
- Dark Sky Compliance Capable: Light your game for the players and the community

Reliability

- Built To Perform: Thermally managed driver and LED housing provides demonstrated reliability confidence.
- · L90: With a 90,000+ hour rated life (at greater than 90% lumen maintenance), the LumaVision LED luminaire is designed for long life.

Take Control of Your System

· Compatible with the Ephesus control ecosystem, putting the control of your system in the palm of your hand.

· Ease of Installation

· 6 flexible indoor/outdoor mounting options

Customizable

• 7 factory custom color options.

Accessories

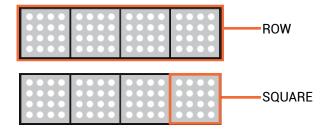
· Custom visors provide additional cutoff and spill light control. Sport specific impact resistance technologies reduce maintenance on the system.





Product Model Terminology

Model Name	Description
Luma Vision 3	1 Row, 3 Squares
Luma Vision 4	1 Row, 4 Squares
Luma Vision 6	2 Rows, 6 Squares
Luma Vision 7	2 Rows, 7 Squares
Luma Vision 8	2 Rows, 8 Squares



Order Information -

NOTE: A complete fixture order requires a selection entry for **Brand, Family, Model, Drive Current, Voltage, Color, Trim Option, Mount, CRI/CCT, Optic, Control, AC Whip, Surge Options, Construction Options.**

SAMPLE ORDER NUMBER: EPH-VN-08-D-HV-AP-WHT-YOKE-930-11-010-A07-10MSP-ST

Brand	Family	Model	Drive Current	Voltage	Color	Trim Option
Brand	Family	Model ²	Drive Current	Voltage	Color	Trim Option
EPH = Ephesus, Standard TAA=Trade Agreements Act¹	VN = LumaVision	03 = 3 Light Squares ³ 04 = 4 Light Squares ³ 06 = 6 Light Squares ⁴ 07 = 7 Light Squares ⁴ 08 = 8 Light Squares ⁴	D = 1200 mA ⁵ E = 1500 mA	HV = High Voltage LV = Low Voltage	AP = Grey (Standard) BK = Black BZ = Bronze WH = White GR = Green GM = Graphite Metallic DP = Dark Platinum	WHT = White (Standard) LCF = Trim painted to match color*
Notes: (1)Only product configurations with this designated prefix are built to be compliant with the Trade Agreements Act of 1979 (TAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes:	Notes: (2) PRO = CCT Tuning 3000-6500K option only available in 04, 06, and 08 Models (3) Single Bar Configuration (4) Double Bar Configuration	Notes: (5) Available as a reduced drive current option for models with HA or HSS. D option also available for higher efficacy 8 square model.	Notes: HV = 347-480 VAC LV = 120-277 VAC	Notes:	Notes: (6) LCF Not available with optical types 33, 44, 55, 66, 77 and LAM

Mount	CRI/CCT	Optic	Control	AC Whip	Surge Options	Construction Options
Mount	CRI/CCT	Optic	Control	AC Whip ¹³	Surge Options ¹⁴	Construction Options
YOKE = Yoke (Standard) ⁷ PNDT = Pendant AAJL = Adjustable arm direct pole mount ⁹ AAJC = Adjustable arm direct pole (cord through housing) ⁷ ADJL = Slipfitter (Leads through slipfitter) ⁷ * 9 ADJC = Slipfitter (Cord through housing) ⁷ * 8	730 = 70CRI, 3000K 735 = 70CRI, 3500K 740 = 70CRI, 4000K 750 = 70CRI, 5000K 760 = 70CRI, 5700K 930 = 90CRI, 3000K 935 = 90CRI, 3500K 940 = 90CRI, 4000K 950 = 90CRI, 5000K PRO = CCT Tuning 3000-6500K ¹⁹	33 = NEMA 3H x 3V" 44 = NEMA 4H x 4V" 55 = NEMA 5H x 5V" 66 = NEMA 6H x 6V" 77 = NEMA 7H x 7V LAM = Lambertian Distribution T1 = Type II T2 = Type II Roadway T3 = Type III Roadway T3 = Type III Roadway T4FT = Type IV Forward Throw T4W = Type IV Wide SNQ = Type V Narrow SMQ = Type V Square Medium SMQ = Type V Square Medium SMQ = Type II w/Spill Control SL3 = Type II w/Spill Control RW = Rectangular Wide Type I	010 = 0-10V (Standard) AMS = AirMesh ¹¹ DAL = DALI BBI = DMX, Indoor ¹² LBO = DMX, Outdoor ¹²	NC = No Cord A05 = 5ft whip A07 = 7ft whip (Standard) A10 = 10ft whip A15 = 15ft whip	10MSP = Parallel 10kV MOV Surge Protective Device (Standard) 20MSP = Parallel 20kV MOV Surge Protective Device	ST = Standard HA = 50°C High Ambient¹6 CC = Coastal Construction finish HSS = House Side Shield¹5 ¹6
Notes: (7)3G Vibration Rated Per ANSI C136.31-2010 (8)Slipfitter mount to fasten luminaire to a 3 inch outer diameter tenon size. (9) Must use NC=No Cord for AC whip option	Notes: (10) Available for 4 Square, 6 Square and 8 Square models. Requires an AMS, LBI or LBO control option. Only compatible with optics 33, 44, 55, 66, 77 or LAM.	Notes: (11) For downlight applications only, if uplight is required contact Ephesus for more details.	Notes: 100 - 5C/16 BLK Cord AMS = 3C/16 BLK Cord DAL = 5C/16 BLK Cord OL = 5C/16 BLK Cord (11) For downlight applications only, if uplight is required contact Ephesus for more details. (12) DMX indoor is two XLR cables, DMX outdoor is a single 5-conductor cable for watertight connection. Not compatible with AAJC, ADJL or ADJC mounts. For more details on DMX system response rates please refer to the product installation manual.	Notes: (13) AC Whip connecting the Driver Box to the electrical power source. NC=No Cord required for ADJL and AAJL mounting types. All other options require a cord length selection.	Notes: (14) Contact ephesus for additional protection options.	Notes: (15) Not avilable with optical tyes 33, 44, 55, 66, 77, LAM, T1, 5NQ, 5MQ, 5WQ & RW (16) Can not be used with drive current type E = 1500mA

 $Design Lights\ Consortium @\ Qualified.\ Refer\ to\ \underline{www.design lights.org}\ Qualified\ Products\ List\ under\ Family\ Models\ for\ details$



Performance Data¹

	LumaVision 3	LumaVision 4	LumaVision 6	LumaVision 7	LumaVision 8
Nominal Lumen Output (at 70 CRI) ²	28000	36000	55000	60000	73000
Nominal Lumen Output (at 90 CRI) ³	20200	26200	39700	42300	52000
Nominal Power ⁴	232	304	464	532	627
Voltage Range (Low)			120-277VAC		
Voltage Range (High)			347 - 480VAC		
Efficacy (Im/W)	121	119	119	111	116
CRI ⁵		70,90 CRI			
TLCI (at 90 CRI)⁵	92				
CCT Range (at 70 CRI)	3000-5700К				
CCT Range (at 90 CRI)	3000-5000К				
CCT Tunable Range (PRO Option)	3000-6500К				
Distribution (NEMA)	Refer to Order Information on page 3 for optic options				
Dimming Range	10%-100%				
Operating Temperature Range	-40°C to +40°C				
Usage	INDOOR, OUTDOOR				
Electrical Certifications	FCC Part 15, UL8750, UL1598, DLC STANDARD				
Environmental Certifications	IP66; ANSI C136.31-2010, RoHS				
Impact Certifications ⁶	IK10 Rated				
Surge	10kV (standard), 20kV (option)				

Luminaire Approximate Weight ⁷	LumaVision 3	LumaVision 4	LumaVision 6	LumaVision 7	LumaVision 8
With Yoke Weight (LBS)	24.25	26.44	45.93	50.58	50.58
With Pendant (LBS)	24.48	26.28	42.16	45.31	45.31
With Slipfitter (LBS)	27.8	29.98	45.53	46.49	46.49

Mount Vibration Rating Per ANSI C136.31-2010		
YOKE = Yoke (Standard)	3G	
PNDT = Pendant	N/A	
AAJL = Adjustable arm direct pole mount	3G	
AAJC = Adjustable arm direct pole (cord through housing)	3G	
ADJL = Slipfitter (Leads through slipfitter)	3G	
ADJC= Slipfitter (Cord through housing)	3G	

Effective Projected Area (EPA)8 9	LumaVision 3	LumaVision 4	LumaVision 6	LumaVision 7	LumaVision 8
YOKE = Yoke (Standard)	1.61 (sq. ft.)	1.64 (sq. ft.)	2.38 (sq. ft.)	2.78 (sq. ft.)	2.78 (sq. ft.)
PNDT = Pendant	1.6 (sq. ft.)	1.89 (sq. ft.)	2.34 (sq. ft.)	2.9 (sq. ft.)	2.9 (sq. ft.)
AAJL = Adjustable arm direct pole mount	1.8 (sq. ft.)				
AAJC = Adjustable arm direct pole (cord through housing)	1.8 (sq. ft.)				
ADJL = Slipfitter (Leads through slipfitter)	1.77 (sq. ft.)	2.04 (sq. ft.)	2.47 (sq. ft.)	2.99 (sq. ft.)	2.99 (sq. ft.)
ADJC= Slipfitter (Cord through housing)	1.77 (sq. ft.)	2.04 (sq. ft.)	2.47 (sq. ft.)	2.99 (sq. ft.)	2.99 (sq. ft.)

NOTES:

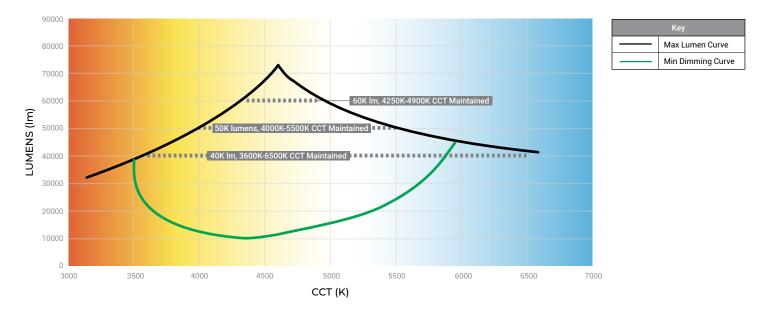
- (1) Specifications are subject to change without notice
 (2) Based on T4FT lens, 70 CRI, 5000K
 (3) Based on 66 lens, 70 CRI, 5000K
 (4) Values are +/- 5% when fixture is operated at 25°C ambient
 (5) Values are +/- 3 points
 (6) IK10 Rating applies to LumaVision configurations using the Vandal Shield accessory. (VSH3, VSH4, VSH6, VSH7, VSH8)
 (7)Weight varies depending on mounting bracket, lighthead and driverbox selection
 (8) Calculated with luminaire aimed 45° to the ground
 (9) EPA varies depending on the aiming angle of the fixture



LUMAVISION AccuLED Optics™

Symmetrical Asymmetrical T2R = Type II Roadway T3R = Type III Roadway 33 = NEMA 3H x 3V 44 = NEMA 4H x 4V 55 = NEMA 5H x 5V T1 = Type I T2 = Type II T3 = Type III T4FT = Type IV Forward Throw T4W = Type IV Wide **5MQ** = Type V Square Medium **5WQ** = Type V Square Wide SL3 = Type III w/Spill Control SL4 = Type IV w/Spill Control **66** = NEMA 6H x 6V **77** = NEMA 7H x 7V LAM = Lambertian Distribution 5NQ = Type V Narrow SL2 = Type II w/Spill Control RW = Rectangular Wide Type I

LUMAVISION CCT PRO TUNING OPERATING RANGE





Color Options





AP = GREY (STANDARD)

















Factory custom built accessories

Note: colors may appear differently based on viewing device.



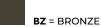


BK = BLACK













WH = WHITE





GR = GREEN





GM = GRAPHITE METALLIC





DP = DARK PLATINUM

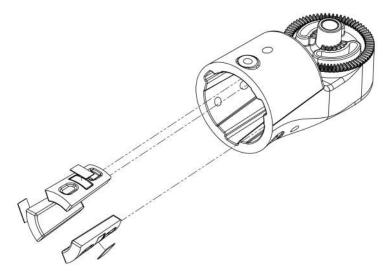
Ordering Information for External Accessories

NOTE: A complete accessory order requires a selection entry for **Brand, Family, Accessory, Visor Color (If applicable)**. SAMPLE ORDER NUMBER: **EPH-VN-VIS3-AP**

Brand	Family	Accessory	Visor Color	
Brand	Family	Accessory ¹	Visor Color	Intended Use
EPH = Ephesus	VN = LumaVision	VIS3 = Visor for Model 03 = 3 Light Squares VIS4 = Visor for Model 04 = 4 Light Squares VIS6 = Visor for Model 06 = 6 Light Squares VIS7 = Visor for Model 07 = 7 Light Squares VIS8 = Visor for Model 08 = 8 Light Squares	AP = Grey (Standard) BK = Black BZ = Bronze WH = White GR = Green GM = Graphite Metallic DP = Dark Platinum	For additional cutoff and spill light control.
		VSH3 = Vandal Shield for Model 03 = 3 Light Squares VSH4 = Vandal Shield for Model 04 = 4 Light Squares VSH6 = Vandal Shield for Model 06 = 6 Light Squares VSH7 = Vandal Shield for Model 07 = 7 Light Squares VSH8 = Vandal Shield for Model 08 = 8 Light Squares		IK10 rated polycarbonate shield improves impact resistance to small projectiles (ie. rocks, or pellets).
		WRG3 = Wire Guard for Model 03 = 3 Light Squares WRG4 = Wire Guard for Model 04 = 4 Light Squares WRG6 = Wire Guard for Model 06 = 6 Light Squares WRG7 = Wire Guard for Model 07 = 7 Light Squares WRG8 = Wire Guard for Model 08 = 8 Light Squares		Stainless steel cage improves impact resistance to large projectiles (ie. basketball, pucks).
		SRA238 = Slipfitter Spacer		Used with the ADJC & ADJL Slipfitter mount to fasten luminaire to a 2 3/8in outer diameter tenon size.
		HWCB = Center Bolt Mount Fastening Hardware		Center Bolt Mount with a ¾ - 10 x 1.75in bolt in the center of pedant mount. Fastening hardware used to replace common Arena Mounting style "CS" for catwalk brackets and other center stud mount applications.
		HWMM = Multi-Point Mount Fastening Hardware		Multi-Point Mounting with 2 qty. 5/16-18 x 1.25in bolts on either edge of the pendant yoke. Can be paired with "HWCB" or "HWCN" as necessary.
		HWCN = Conduit Nuts Fastening Hardware		Two Conduit Nuts to attach a standard 3/4in threaded conduit to the center of the pendant mount yoke. Equivalent to the Arena "MM" multi-mount style mount when paired with "HWMM".
Notes:				

Specifications and dimensions subject to change without notice. Consult your lighting representative at Ephesus Sports Lighting or visit www.EphesusLighting.com for available options, accessories and ordering information.

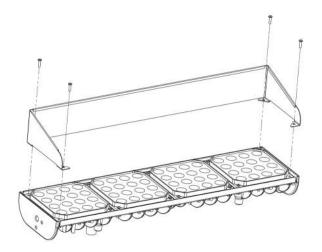
Mounting Accessory Part Details:



Slipfitter Spacer (SRA238)



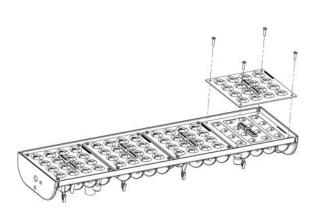
External Optical Cut-off Accessory Part Details:



Visor Full Bar (VIS) Parts¹

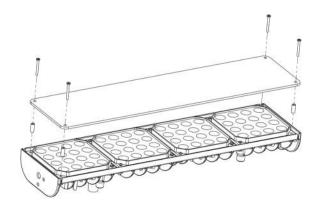
ITEM NO.	DESCRIPTION	WEIGHT (LBS)
VIS3	Visor for Model 03 = 3 Light Squares	1.19
VIS4	Visor for Model 04 = 4 Light Squares	1.46
VIS6	Visor for Model 06 = 6 Light Squares	2.38
VIS7	Visor for Model 07 = 7 Light Squares	2.65
VIS8	Visor for Model 08 = 8 Light Squares	2.92

¹image shown in **EPH-VN-VIS4-XX** configuration. See page 5 for color options.



House Side Shield (HSS)
Factory Installation only

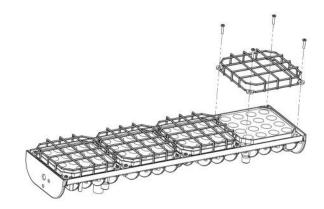
External Impact Shield and Guard Accessory Part Details:



Vandal Shield (VSH) Parts¹

ITEM NO.	DESCRIPTION	WEIGHT (LBS)
VSH3	Vandal Shield for Model 03 = 3 Light Squares	0.78
VSH4	Vandal Shield for Model 04 = 4 Light Squares	1.04
VSH6	Vandal Shield for Model 06 = 6 Light Squares	1.56
VSH7	Vandal Shield for Model 07 = 7 Light Squares	1.82
VSH8	Vandal Shield for Model 08 = 8 Light Squares	2.08

image shown in EPH-VN-VSH4 configuration



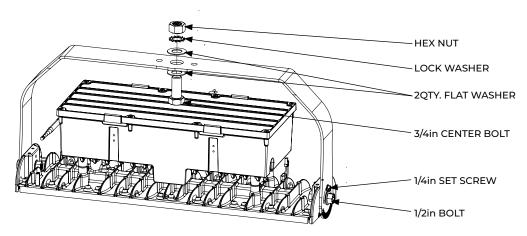
Wire Guard (WRG) Parts¹

ITEM NO.	DESCRIPTION	WEIGHT (LBS)
WRG3	Wire Guard for Model 03 = 3 Light Squares	1.08
WRG4	Wire Guard for Model 04 = 4 Light Squares	1.44
WRG6	Wire Guard for Model 06 = 6 Light Squares	2.16
WRG7	Wire Guard for Model 07 = 7 Light Squares	2.52
WRG8	Wire Guard for Model 08 = 8 Light Squares	2.88

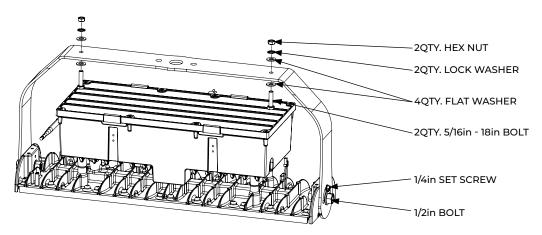
1 image shown in EPH-VN-WRG4 configuration



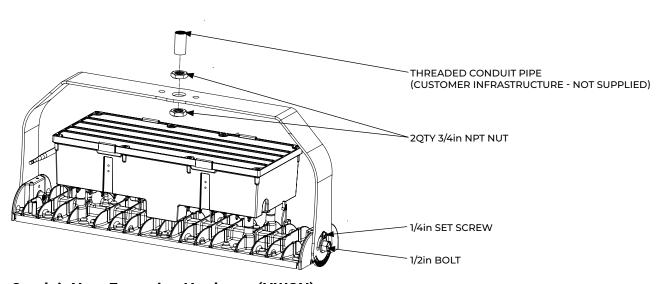
Fastening Hardware Accessory Part Details:



Center Bolt Mount Fastening Hardware (HWCB)



Multi-point Mount Fastening Hardware (HWMM)

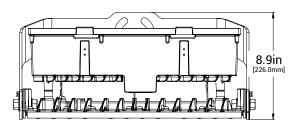


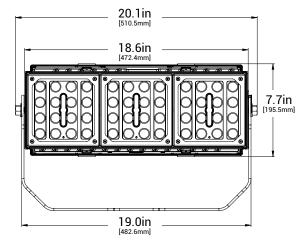
Conduit Nuts Fastening Hardware (HWCN)

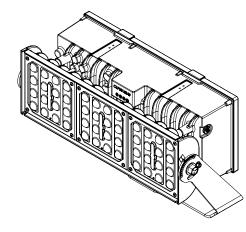


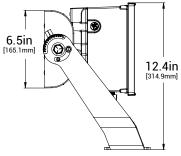
PRODUCT FAMILY: LUMAVISION

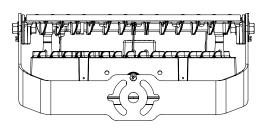
MODEL: 3

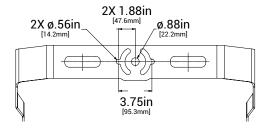






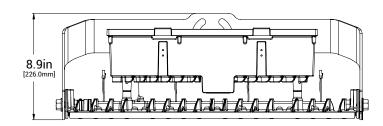


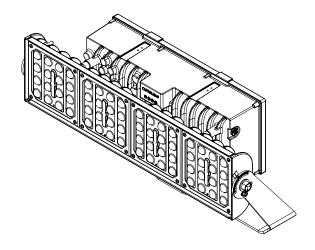


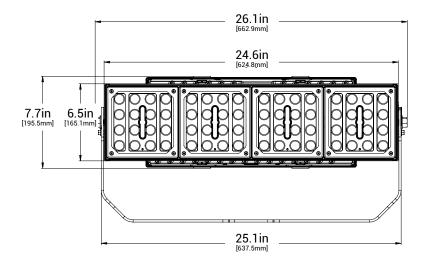


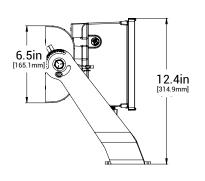
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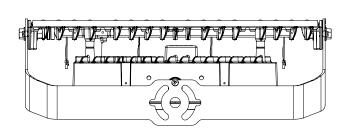
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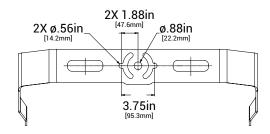






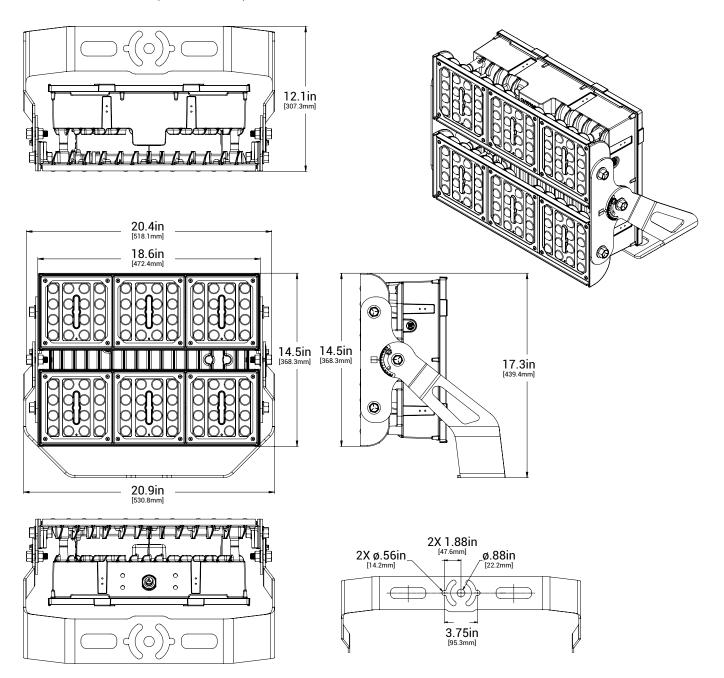






PRODUCT FAMILY: LUMAVISION

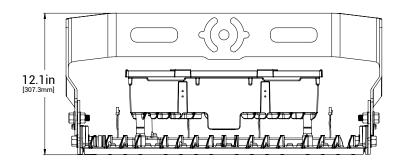
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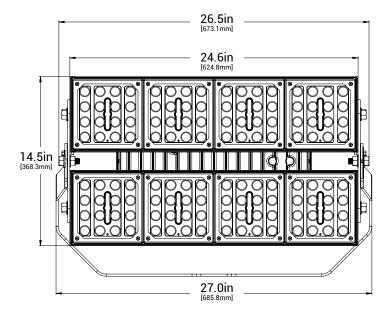


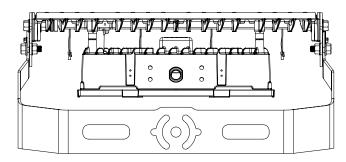


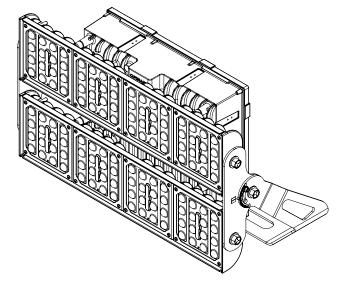
PRODUCT FAMILY: LUMAVISION

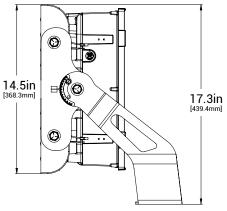
MODEL: 7 & 8

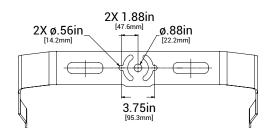






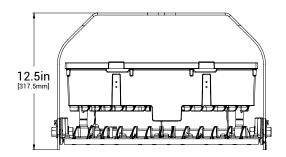


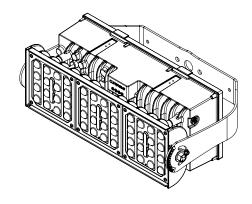


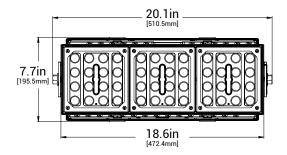


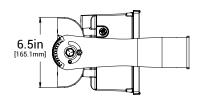
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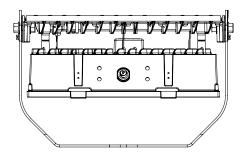
MODEL: 3







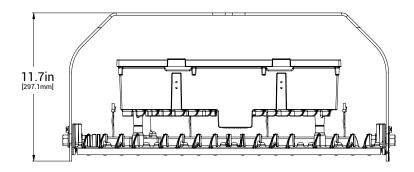


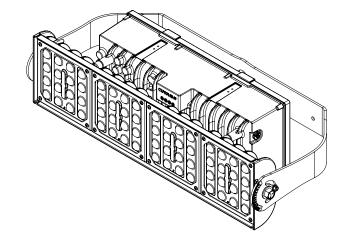


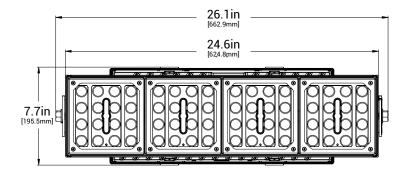


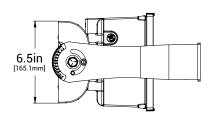
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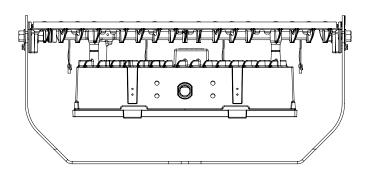
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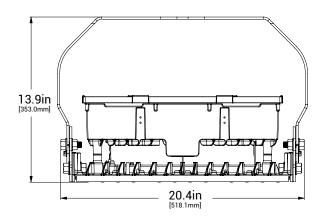


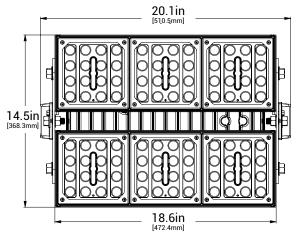


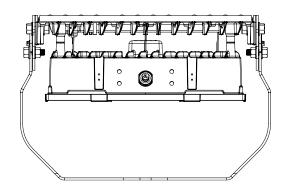


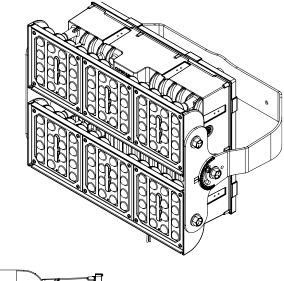
PRODUCT FAMILY: LUMAVISION

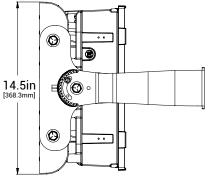
MODEL: 6







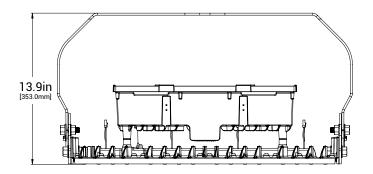


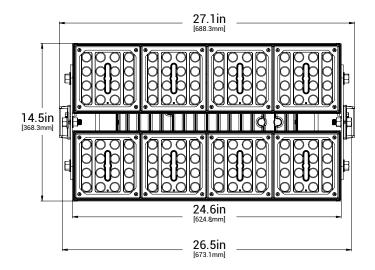


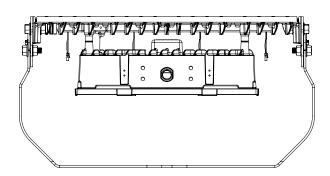


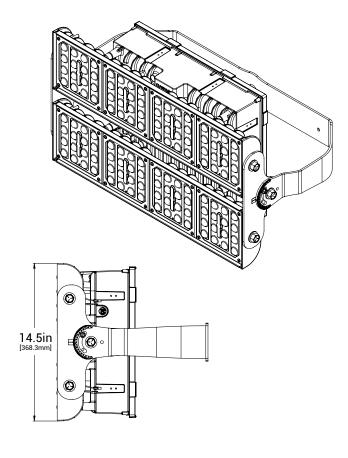
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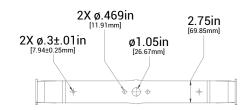
MODEL: 7 & 8







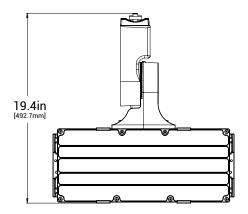




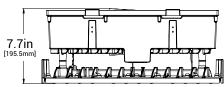
PRODUCT FAMILY: LUMAVISION

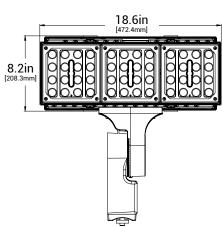
MODEL: 3 **MOUNT TYPE:**

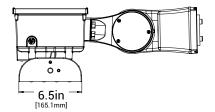
- **AAJL** (ADJUSTABLE ARM DIRECT POLE MOUNT)
- AAJC (ADJUSTABLE ARM DIRECT POLE MOUNT [CORD THROUGH HOUSING])

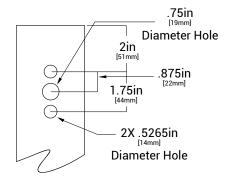










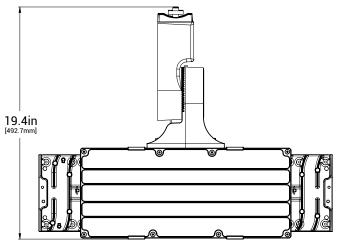


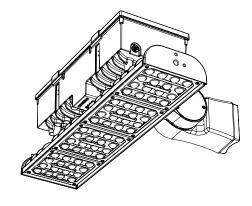
WARNING: Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to Pole Drill Patterns **Document** for additional support information.

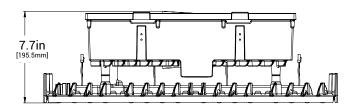
PRODUCT FAMILY: LUMAVISION

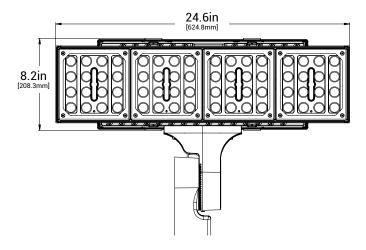
MODEL: 4
MOUNT TYPE:

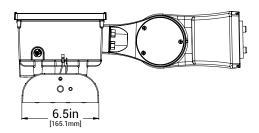
- AAJL (ADJUSTABLE ARM DIRECT POLE MOUNT)
- AAJC (ADJUSTABLE ARM DIRECT POLE MOUNT [CORD THROUGH HOUSING])

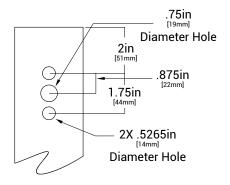










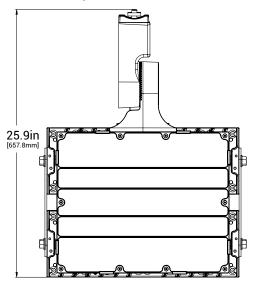


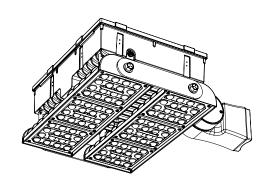
WARNING: Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to <u>Pole Drill Patterns</u> <u>Document</u> for additional support information.

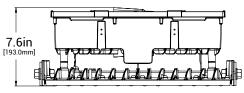
PRODUCT FAMILY: LUMAVISION

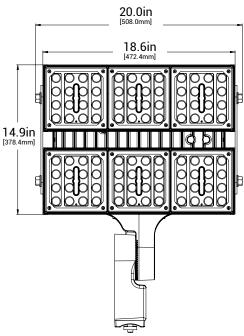
MODEL: 6
MOUNT TYPE:

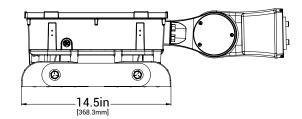
- AAJL (ADJUSTABLE ARM DIRECT POLE MOUNT)
- AAJC (ADJUSTABLE ARM DIRECT POLE MOUNT [CORD THROUGH HOUSING])

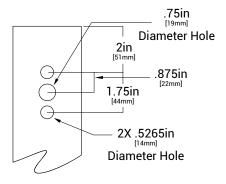










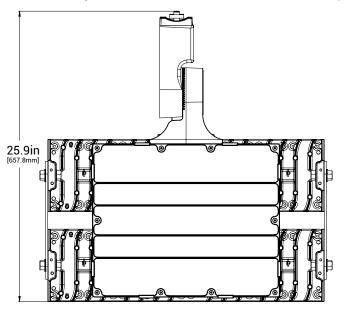


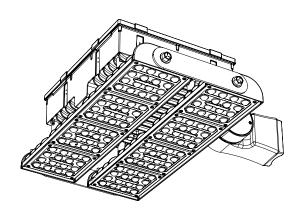
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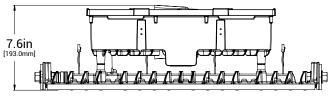
PRODUCT FAMILY: LUMAVISION

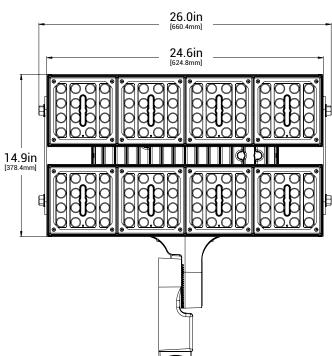
MODEL: 7 & 8 MOUNT TYPE:

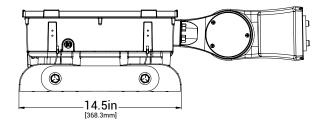
- AAJL (ADJUSTABLE ARM DIRECT POLE MOUNT)
- AAJC (ADJUSTABLE ARM DIRECT POLE MOUNT [CORD THROUGH HOUSING])

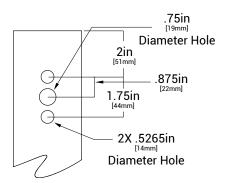










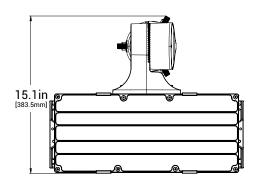


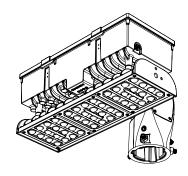
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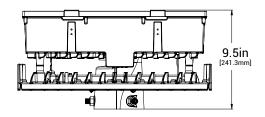
PRODUCT FAMILY: LUMAVISION

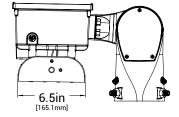
MODEL: 3

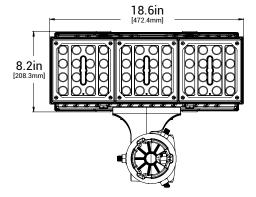
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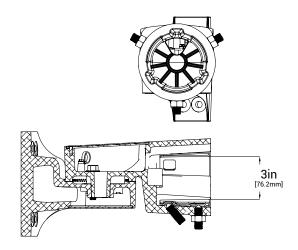










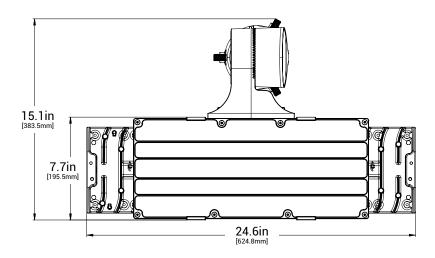


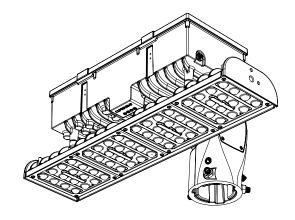
Note: The slip fitter is only intended to mount on a vertical orientation with a suitable 3 inch diameter pole or accessory tenon topper. For 2.375 inch tenon sizes, a separate spacer accessory is needed that isn't included with the standard unit.

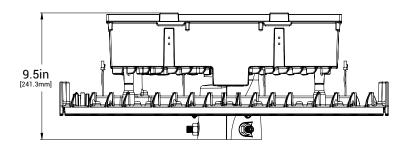
PRODUCT FAMILY: LUMAVISION

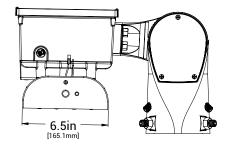
MODEL: 4

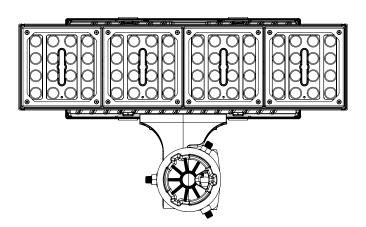
MOUNT TYPE: SLIPFITTER

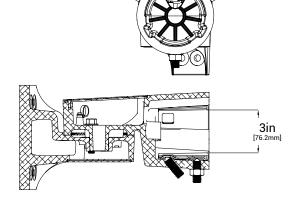










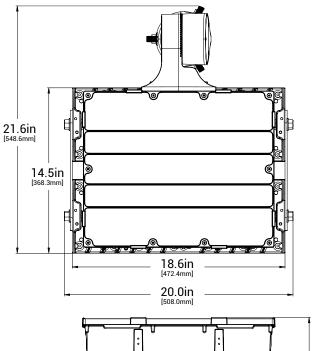


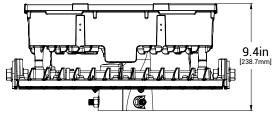
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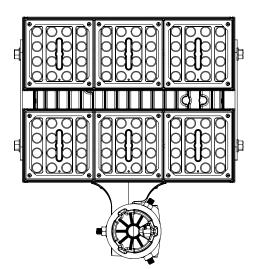
PRODUCT FAMILY: LUMAVISION

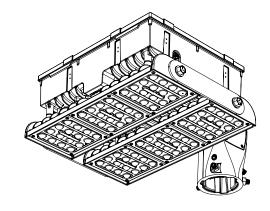
MODEL: 6

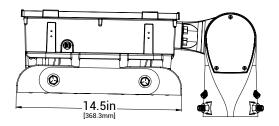
MOUNT TYPE: SLIPFITTER

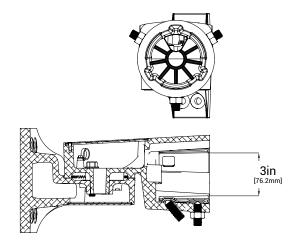












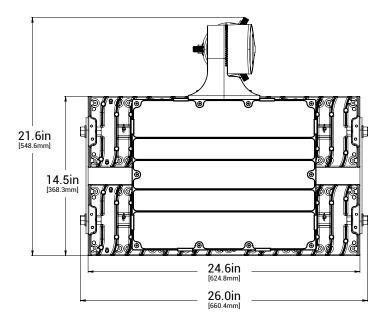
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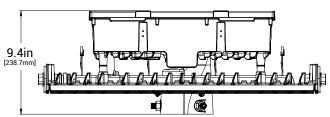


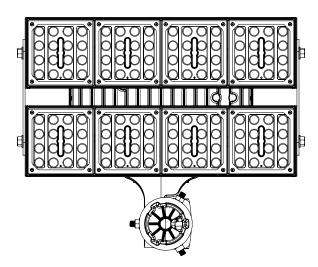
PRODUCT FAMILY: LUMAVISION

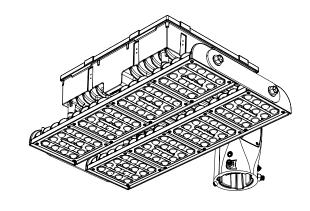
MODEL: 7 & 8

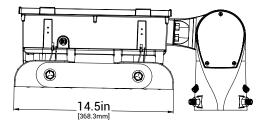
MOUNT TYPE: SLIPFITTER

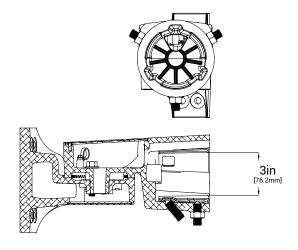












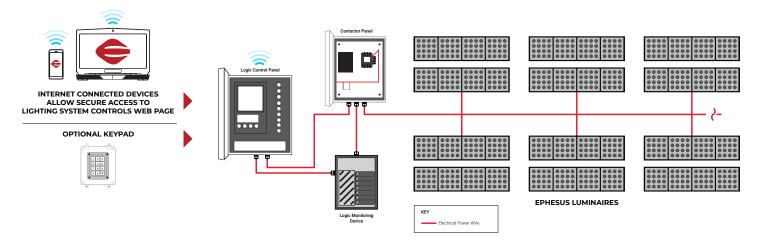
Note: The slip fitter is only intended to mount on a verticalorientation with a suitable 3 inch diameter pole or accessory tenon topper. For 2.375 inch tenon sizes, a separate spacer accessory is needed that isn't included with the standard unit.



Example Topology: Recreation Management Controls

Controls Protocol: Contactor Controls

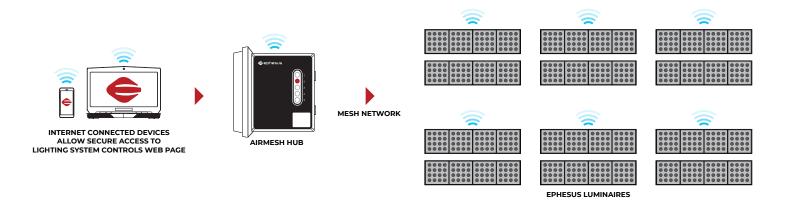
Example system topology showing the LUMAVISION System in a Wired Contactor Controls Installation. Note: Laptop and mobile device not included. A cellular network connection requires a cellular carrier network plan.



Example Topology: Wireless Controls

Controls Protocol: AirMesh

Example system topology showing the LUMAVISION System in a Wireless AirMesh Control Installation. Note: Laptop and mobile device not included. A cellular network connection requires a cellular carrier network plan.



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