

DESCRIPTION

6 inch LED square recessed downlight designed for glare free, even illumination. Featuring a two-stage diffused reflector system producing smooth distribution with excellent light control and low aperture brightness. Lumen packages range from 500 to 7000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K. VividTune technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space. Tunable white technology - adjust the color temperature from warm white to cool white while independently controlling intensity.

SPECIFICATION FEATURES

Lower Shielding Reflector

Painted die cast aluminum or anodized aluminum lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness. Anodized reflectors are offered in all Portfolio Alzak® finishes. Available with non-conductive polymer trim. Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface. Plaster lathing ring accessory offered for flush reflector transition.

Plaster Frame / Collar

Galvanized steel plaster frame with adjustable collar adjusts for up to 2" thick ceilings and rotates +/- 7.5°.

Universal Mounting Bracket

Accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling.

Junction Box

(4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring. Lever connectors for simple push in wiring.

Thermal

Aluminum heat sink conducts heat away from the LED module for optimal performance and long life.

LED

Chip on board with a multitude of highly efficient white LED's, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation. Lumen output shall not decrease by

more than 10% over the minimum life of 55,000 hours (L90 > 55,000 hours). Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 2-step MacAdam ellipses. Quick disconnect allows for tool-less replacement of LED engine from below ceiling. Available in 80, 90 or 97 CRI.

D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

W2N - Tunable white CCT range 2700K to 6500K or 2000K to 5000K, 90 CRI.

Driver

Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%. Optional 120-277V phase dimming, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture. Distributed low voltage power system combines power, lighting, and controls with ease of installation.

Connected Lighting System Options

Two WaveLinx connected systems to choose from. Refer to WaveLinx system specifications and application guides for details.

WaveLinx Wireless System Tilemount Sensor Kit

- WaveLinx Wireless WTA tile mount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

Catalog

Project

Comments

Prepared by

IMEG

F6.10 - General

WaveLinx Lite System Tilemount Sensor Kit

- WaveLinx Lite WTK tile mount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx Tilemount Kits Application

- The WTA and WTK tilemount kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

Code Compliance

Thermally protected and cULus listed for wet locations with covered ceiling. IP66 rated when used with IP66 gasket kit accessory. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. 2000 lumen and above are Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1500 Lumens. 5000 lumen and above are marked spacing and must follow spacing requirements. RoHS Compliant. Photometric testing completed in accordance with IES LM 79. Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.

Warranty

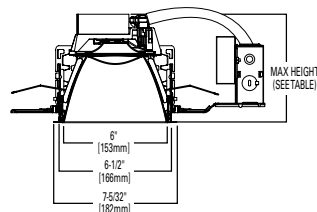
5-year warranty



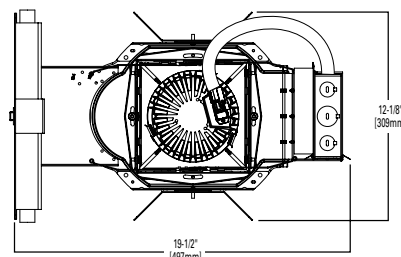
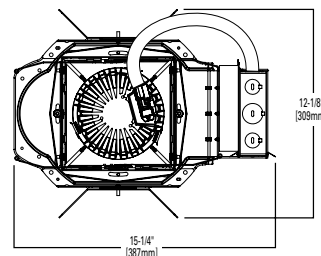
LDSQ6B EU6B 6LBSQ

500, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000 Lumens LED

Die Cast or Anodized Aluminum
Square Downlight
New Construction



	1000-2000 LUMENS	3000-5000 LUMENS	6000-7000 LUMENS
STANDARD	6-7/16" (163mm)	6-7/16" (163mm)	8-3/15" (208mm)
SHALLOW	4-7/16" (113mm)	5-5/8" (143mm)	5-5/8" (143mm)



VividTune
color tuning solutions

D2W™



Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements.

SAMPLE NUMBER: LDSQ6B15D010EMBOD

Housing	Lumens ¹	Voltage	Driver	Options ⁴
LDSQ6B =LED Square Downlight 6" Nominal Aperture LDSQ6BCP =LED Square Downlight 6" Nominal Aperture, Chicago Plenum	05 =500 lumens ¹⁵ 10 =1000 lumens 15 =1500 lumens 20 =2000 lumens 30 =3000 lumens 40 =4000 lumens 50 =5000 lumens ⁶ 60 =6000 lumens ⁶ 70 =7000 lumens ⁶	Blank =120-277V 3 =347V (step down transformer)	500 - 4000 Lumen D010 =0-10V Dimming, 1% to 100%, 120V-277V D010TR =0-10V or Line Voltage Dimming, 5% to 100%, 120V-277V DE010 =0-10V Linear Dimming, 0% to 100%, 120V-277V D5LT =Fifth Light® DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V DMX =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V ⁹ DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, with RJ45 connection DL2 =Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only DLE =Lutron Ecosystem dimming 1% to 100%, 120V-277V 5000, 6000 and 7000 Lumen D010TE =0-10V 1% or Trailing Edge, 10% to 100%, 120V-277V (120V Only for Trailing Edge Dimming) 1000 - 3000 Lumen DLV =Low voltage dimming driver (1-100%) for use with DLVP system (3000 lumen and below) ^{4,10} Tunable white 1000-2000 Lumens ¹² 1DE010W2N2050 =0-10V dimming, 0% to 100%, 120V, 2000K - 5000K 1DE010W2N2765 =0-10V dimming, 0% to 100%, 120V, 2700K - 6500K 1D5LTW2N2050 =Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120, 2000K - 5000K 1D5LTW2N2765 =Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V, 2700K - 6500K 2DE010W2N2050 =0-10V dimming, 0% to 100%, 277V, 2000K - 5000K 2DE010W2N2765 =0-10V dimming, 0% to 100%, 277V, 2700K - 6500K 2D5LTW2N2050 =Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 277V, 2000K - 5000K 2D5LTW2N2765 =Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 277V, 2700K - 6500K	EMBOD =Bodine® Emergency Module with Remote Test Switch EMBOD7ST =Bodine® Emergency Module with SelfTest Remote Test Switch EM7 =7W Emergency Module with Remote Test Switch EM14 =14W Emergency Module with Remote Test Switch EMV7 =7W Low Voltage Emergency Module with Remote Test Switch ⁵ EMV14 =14W Low Voltage Emergency Module with Remote Test Switch ⁵ WTA = Factory installed WaveLinX sensor Kit ^{10,13} WTK = Factory installed WaveLinX Lite Sensor Kit ^{10,14}

SAMPLE NUMBER: EU6B10208035

Power Module	Lumen Levels ¹	CRI	Color		
EU6B =6" Universal LED Module	05 =500 lumens 1020 =1000, 1500, 2000 lumens 3050 =3000, 4000, 5000 lumens ⁶ 6070 =6000, 7000 lumens ⁶ 1015IC =1000, 1500 lumen IC rated	80 =80 CRI Minimum 90 =90 CRI Minimum 97 =97 CRI Minimum	80 CRI 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K	90 CRI 24 =2400K 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K	97 CRI 27 =2700K 30 =3000K
	Dim 2 Warm 109030D2W =1000 lumen, 90 CRI, Dim 2 Warm, IC rated 159030D2W =1500 lumen, 90 CRI, Dim 2 Warm, IC rated 209030D2W =2000 lumen, 90 CRI, Dim 2 Warm 309030D2W =3000 lumen, 90 CRI, Dim 2 Warm		Tunable white ¹² 1020W2N902050 =1000, 1500, 2000 lumens, 90 CRI, tunable white 2000K-5000K 1020W2N902765 =1000, 1500, 2000 lumens, 90 CRI, tunable white 2700K-6500K		

SAMPLE NUMBER: 6LBSQ1LI

Trim	Distribution	Flange	Finish	
6LB =6" LED	SQ =Square Anodized Aluminum CSSQ =Cast Shallow Square, Die Cast Aluminum ⁷	0 =White Polymer Trim Ring ¹¹ 1 =Self-flanged ⁸ 2 =White Painted Self-flanged	LI =Specular Clear ² H =Semi-Specular Clear ² WMH =Warm Haze ² WH =Wheat ² GPH =Graphite Haze ²	B =Specular Black ² MW =Matte White MB =Matte Black ³ MMS =Matte Metallic Silver ³

Accessories

PRSQ6=Plaster Lathing Ring for Flush Mount for use with Rimless Flange (order with white polymer trim ring flange option)
LGSKT6SQIP66=IP66 Gasket Kit
Bar Hangers
HB26=C-channel Bar Hanger, 26" Long, Pair
HB50=C-channel Bar Hanger, 50" Long, Pair
RMB22=Wood Joist Bar Hanger, 22" Long, Pair
Transformers
H347=347 to 120V Step Down Transformer, 75VA
H347200=347 to 120V Step Down Transformer, 200VA
Connected Lighting Systems^{4,10}
WTA = Field installed WaveLinX sensor Kit¹³
WTK = Field installed WaveLinX Lite Sensor Kit¹⁴

Notes:

- Nominal Lumens will vary depending on selected color, driver and reflector finish.
- Available on anodized aluminum
- Available only on cast aluminum
- Not available with Chicago Plenum
- UL/US approved only
- Product is marked spacing and must be installed with the following minimum spacing.
- Center to center of adjacent luminaires: 36"
- Center of luminaire to side of building member: 18"
- Minimum overhead: 1/2"
- Not available with CSSQ or PSSQ trims.
- Offered up to 5000 lumens
- Flange is the same finish as reflector

- DMX fixtures default to full on upon loss of DMX signal.

- Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver.
- Not available with cast shallow
- Non-IC
- WTA = WaveLinX wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
- WTK = WaveLinX Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX Lite system specifications)
- Limited to D010 drivers.

ENERGY

ENERGY DATA
Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -30°C (-22°F)
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)
Input Voltage: UNV (120V - 277V)
Power Factor: >0.90
(at nominal input 120-277 VAC & 100% of Rated Output Power)
Input Frequency: 50/60Hz

1000 Lumen D010		1500 Lumen D010	
Input Power: 11W	THD: <14%	Input Power: 15.5W	THD: <13%
120V Input Current: 0.09A	277V Input Current: 0.04A	120V Input Current: 0.13A	277V Input Current: 0.06A
2000 Lumen D010		3000 Lumen D010	
Input Power: 21.2W	THD: <9%	Input Power: 27.6W	THD: <10%
120V Input Current: 0.18A	277V Input Current: 0.08A	120V Input Current: 0.23A	277V Input Current: 0.10A
4000 Lumen D010		5000 Lumen D010TE	
Input Power: 41.6W	THD: <13%	Input Power: 57.9W	THD: <14%
120V Input Current: 0.35A	277V Input Current: 0.15A	120V Input Current: 0.49A	277V Input Current: 0.22A
6000 Lumen D010TE		7000 Lumen D010TE	
Input Power: 59.7W	THD: <14%	Input Power: 75.8W	THD: <13%
120V Input Current: 0.50A	277V Input Current: 0.22A	120V Input Current: 0.64A	277V Input Current: 0.29A

Lumens	120V		277V	
	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
1000 Lumen D010	1.02	0.041	2.18	0.021
1500 Lumen D010	1.02	0.042	2.24	0.064
2000 Lumen D010	1.02	0.077	2.43	0.027
3000 Lumen D010	1.15	0.067	3.26	0.027
4000 Lumen D010	1.2	0.088	3.9	0.03
5000 Lumen D010TE	5.1	0.132	10.2	0.153
6000 Lumen D010TE	5.4	0.123	10.8	0.154
7000 Lumen D010TE	4.9	0.13	9.8	0.156

PHOTOMETRY

Test Number		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE				
P35359											Average Candela Degrees Average 0° Luminance				
Housing	LDSQ6B15D010	171		0°	D	FC	L	W	0	678	0-30	522	31.9	45	25574
Module	EU4B10208035								5	678					
Trim	6LBCSSQ1MMS								15	648					
Lumens	1637								25	607					
Efficacy	116.9 Lm/W								35	527					
SC	1.24								45	420					
		342		75°	7'	14	8.6	8.4	55	295	0-60	1442	88.1	55	22144
		513		60°	8'	11	9.8	9.6	65	139	0-90	1637	100	65	14161
		684		45°	9'	8	11	10.8	75	20	90-180	0	0	75	3327
				30°	10'	7	12.2	12	85	0	0-180	1637	100	85	0
				15°	12'	5	14.6	14.4	90	0					

Test Number		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE				
P35360											Average Candela Degrees Average 0° Luminance				
Housing	LDSQ6B15D010	399		0°	D	FC	L	W	0	1587	0-30	1029	69	45	5054
Module	EU4B10208035								5	1566					
Trim	6LBSQQLI								15	1400					
Lumens	1491								25	1045					
Efficacy	106.5 Lm/W								35	441					
SC	0.92								45	83					
		798		75°	7'	33	6.4	6.4	55	14	0-60	1485	99.6	55	1051
		1197		60°	8'	24	7.2	7.2	65	4	0-90	1491	100	65	408
		1596		45°	9'	20	8.2	8.2	75	1	90-180	0	0	75	166
				30°	10'	16	9	9.2	85	0	0-180	1491	100	85	0
				15°	12'	11	11	11	90	0					

Test Number		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE				
P202483											Average Candela Degrees Average 0° Luminance				
Housing	LDSQ6B40D010	484		0°	D	FC	L	W	0	1920	0-30	1479	31.9	45	18216
Module	EU6B30508035								5	1920					
Trim	6LBCSSQ1MMS								15	1835					
Lumens	4636								25	1719					
Efficacy	107.8 Lm/W								35	1492					
SC	1.24								45	1190					
		969		75°	7'	39	8.6	8.4	55	836	0-60	4083	88.1	55	15774
		1453		60°	8'	30	9.8	9.6	65	394	0-90	4636	100	65	10088
		1937		45°	9'	24	11	10.8	75	57	90-180	0	0	75	2368
				30°	10'	19	12.2	12	85	0	0-180	4636	100	85	0
				15°	12'	13	14.6	14.4	90	0					

Test Number		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE				
P202482											Average Candela Degrees Average 0° Luminance				
Housing	LDSQ6B40D010	1130		0°	D	FC	L	W	0	4493	0-30	2913	69	45	3599
Module	EU6B30508035								5	4434					
Trim	6LBSQILI								15	3964					
Lumens	4222								25	2959					
Efficacy	98.2 Lm/W								35	1249					
SC	0.92								45	235					
		2259		75°	7'	92	6.4	6.4	55	40	0-60	4204	99.6	55	748
		3389		60°	8'	70	7.2	7.2	65	11	0-90	4222	100	65	290
		4519		45°	9'	56	8.2	8.2	75	3	90-180	0	0	75	117
				30°	10'	45	9	9.2	85	0	0-180	4222	100	85	0
				15°	12'	31	11	11	90	0					

WaveLinX Lite - WTK Tilemount Sensor



- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX Lite Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinX system specifications for details



Device Security



Manual Dimmer



Occupancy Sensor



Daylighting Control



Manually Switched ON/OFF



Tuning Control

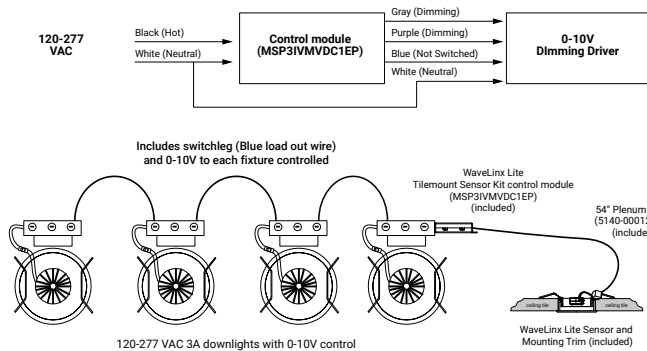


Lumen Maintenance Control

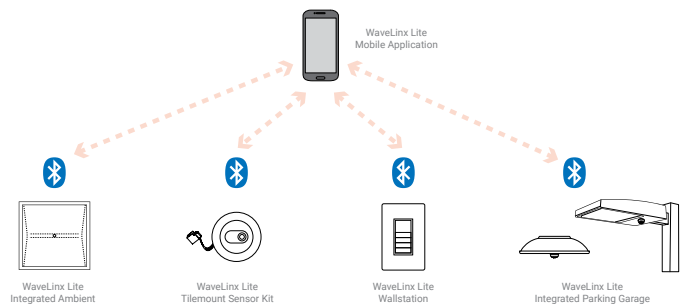


Scenes

WaveLinX Lite WTK Tilemount Wiring Diagram



WaveLinX Lite Bluetooth Enabled System



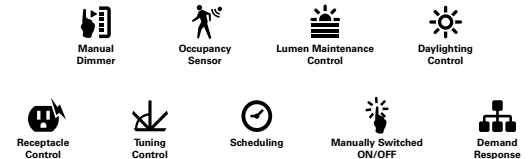
WaveLinX Wireless – WTA Tilemount Sensor



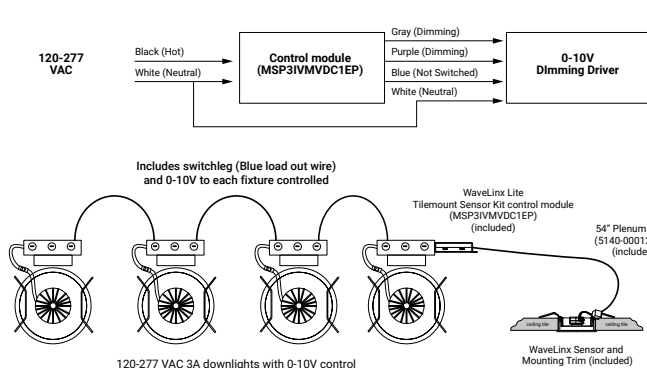
- WaveLinX Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



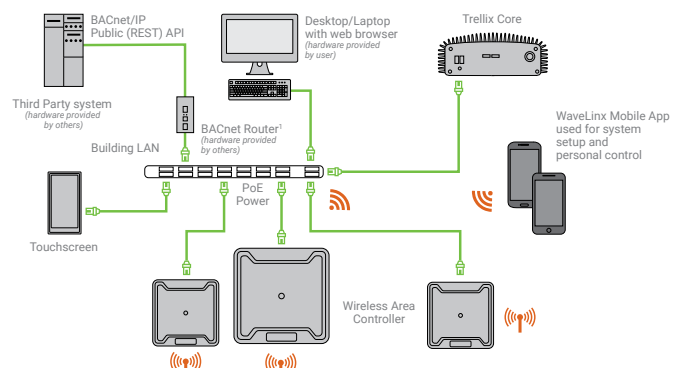
WaveLinX mobile app settings



WaveLinX Lite WTA Tilemount Wiring Diagram



WaveLinX Wireless Trellix Building Management Integration



F47 - Linear Strip



IP67 flexible dot free linear LED light line with a ve flexible light line 0.63" x 0.59" (W x H) cross section. Op: encapsulation offering a premium water proof sealing chemical stability and protection against abrasion. Vertical bending only, with radius of 5.9"; excellent solution for indoor/outdoor organic facade accent lighting or decorative applications requiring IP67 ingress. Freely configurable in length and delivered with 3M self adhesive tape on rear side and 4.33" long cable at both end of the luminaire with IP67 male/female connectors. Light source assembled Reel to Reel (R2R) production process supporting LED Linear™ Tj Away® thin flexible circuit board technology. Outstanding lifetime of >60,000 hrs L80/B10 (>30,000 hrs for RGB). Embeds high quality japanese LEDs with 3 step MacAdams (SDCM3) binning centered on target CCT (One Bin Only) with an extended photometric code of Wxxx/339 ensuring an exceptional color consistency over the rated lifetime. Premium color rendition with a CRI of 80. Consistent light intensity all along the strip length. Fully dimmable. Engineered and produced in Germany.

Fixture type

Phase

Specifier

Date

TITLE 24

Select Models Only

ETL US

Intertek

ETL Listed

Integrated Circuit Driver

Up to 371 lm/ft 89 lm/W constant light output

Reel-to-Reel R2R Production

High Quality Solder Free Reels

TjAway® Thermal Management

Exceptional Thermal Dissipation

One Bin Only

3 MacAdam 80 CRI

L/B Lifetime

L80/B10 >60,000 hrs /RGB >30,000 hrs

6 Digit Photometric Code

Wxxx/339

IES LM79/LM80

LM79/LM80 Compliant

Ordering Process

Step 1

Fixture (Page 1)

Step 2

Mounting Accessories (Page 5)

Step 3

Cables and Connectors (Page 5)

Step 4

Drivers and Controllers (Page 6)

Fixture Order Code

Family	Model/Lumen package*	CCT Venus/Phobos	CCT Skylla	Custom length**	Variant	Ingress
VarioLED Flex	-----	-----	-----	-----	TV	IP67
	VENUS - Low Output 100 lm/ft	820-2400K, 80 CRI 822-2700K, 80 CRI	820-2400K, 80 CRI 822-2700K, 80 CRI	L _{min} : 213.5 mm (8-3/8")	Vertical Bend	
	PHOBOS - Mid Output 191 lm/ft	825-3000K, 80 CRI 927-3400K, 90 CRI	825-3000K, 80 CRI 827-3500K, 80 CRI	Venus Phobos L _{max} : 5026 mm (16' 5-7/8") Skylla L _{max} : 4026 mm (13' 2-1/2")		
	SKYLLA - High Output 307 lm/ft	930-3800K, 90 CRI 935-4400K, 90 CRI 940-5600K, 90 CRI	830-3900K, 80 CRI 835-4600K, 80 CRI 840-5500K, 80 CRI	Increment: 62.5 mm (2-1/2")		
	VENUS IQ WHITE - Tunable White 189 lm/ft 2600K-4900K	- - -	- - -	L _{min} : 213.5 mm (8-1/2") L _{max} : 5026 mm (16' 5-7/8") Increment: 62.5 mm (2-1/2")		
	VENUS RED - 32 lm/ft, 625nm	-	-	L _{min} : 213.5 mm (8-1/2")		
	VENUS GREEN - 153 lm/ft, 529nm	-	-	L _{max} : 5026 mm (16' 5-7/8")		
	VENUS BLUE - 39 lm/ft, 472nm	-	-	Increment: 125 mm (4-15/16")		
	VENUS RGB - 99 lm/ft 622(R) 532(G) 466(B)	- -	- -	L _{min} : 213.5 mm (8-1/2") L _{max} : 5026 mm (16' 5-7/8") Increment: 62.5 mm (2-1/2")		

* Lumen Values represent 3000K (W825).

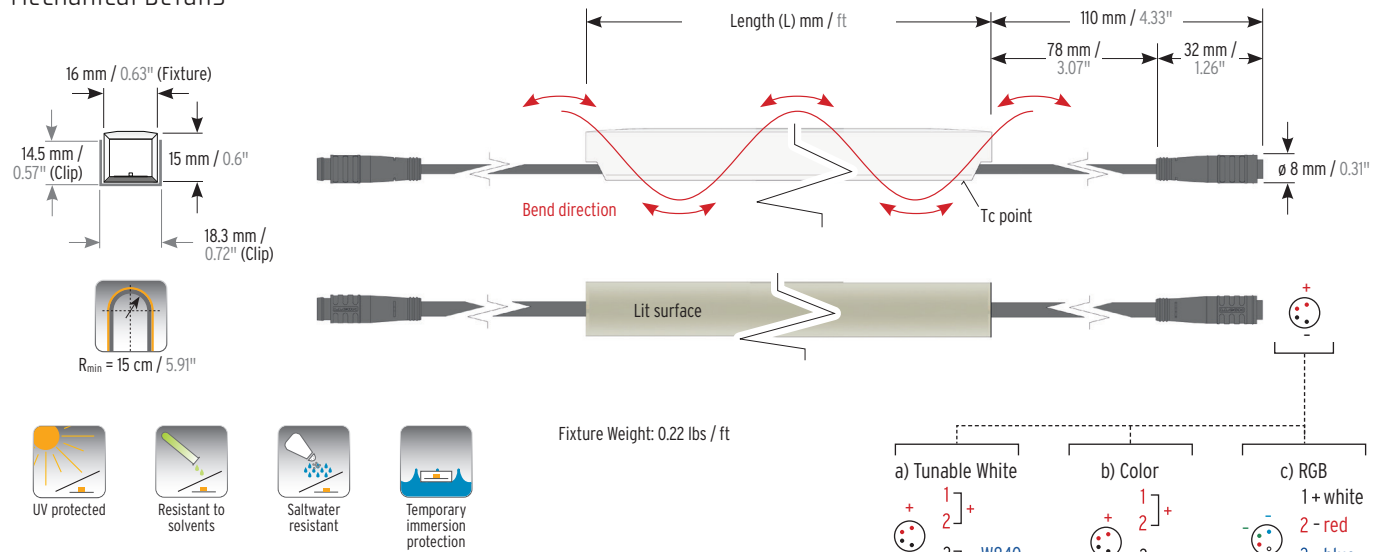
** Custom Length should be specified in millimeters (mm). See page 3 and 4 for all available lengths.

		Low Output			Mid Output		High Output		
		Color temperature	CCT (Delivered) ^A	Lumen/ft	W/ft ^B	Lumen/ft	W/ft ^B	Lumen/ft	W/ft ^B
Static White	●	W820	2,400 K	87	1.8	145	3.1	234	4.6
	●	W822	2,700 K	100	1.8	167	3.1	267	4.6
	●	W825	3,000 K	100	1.8	191	3.1	307	4.6
	●	W827/W927	3,500 K/3,400 K	103	1.8	170	3.1	325	4.6
	●	W830/W930	3,900 K/3,800 K	103	1.8	173	3.1	343	4.6
	●	W835/W935	4,600 K/4,400 K	106	1.8	179	3.1	362	4.6
	●	W840/W940	5,500 K/5,600 K	109	1.8	182	3.1	371	4.6

^A CCT tolerances occur in IP67 products due to the encapsulation of the fixture.

^B The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

Mechanical Details



Technical Details

	Static White	Tunable White, Static Color, RGB
Voltage	24 Volt (23 V _{min} , 25 V _{max})	24 Volt (23 V _{min} , 25 V _{max})
Case temperature ^A	T _{Cmin} = -13°F / -25°C, T _{Cmax} = 140°F / 60°C	T _{Cmin} = -13°F / -25°C, T _{Cmax} = specific, see Table below
Storage temperature	T _{Smin} = -22°F / -30°C, T _{Smax} = 185°F / 85°C	T _{Smin} = -22°F / -30°C, T _{Smax} = 185°F / 85°C
Ambient temperature	T _{Amin} = -13°F / -25°C, T _{Amax} = specific, see Table below	T _{Amin} = -13°F / -25°C, T _{Amax} = specific, see Table below

^A The position of the Tc-point is marked on each step of the LED strip. The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

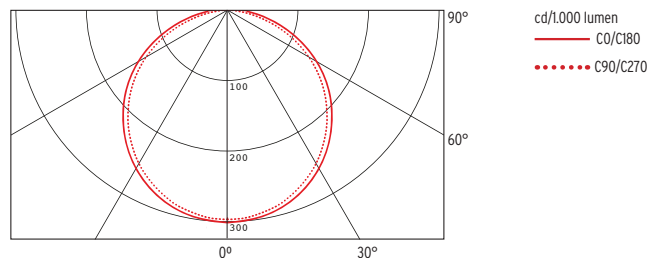
	Low Output	Mid Output	High Output	Tunable White	RGB	COLOR		
Power (W/ft) ^B	1.8	3.1	4.6	3.7	3.1	2.4	2.4	2.4
Efficacy (lm / W) ^B @ W850	83	83	89	86	22	13	63	16
CRI / R9 @ 3000 K	up to 95 / up to 65			85 / 25	-	-	-	-
Max fixture length (ft / m)	16.4 / 5	16.4 / 5	13.1 / 4	16.4 / 5	16.4 / 5	16.4 / 5	16.4 / 5	16.4 / 5
Temperature Tc-point (T _{Cmax}) ^B	140°F / 60°C	140°F / 60°C	140°F / 60°C	158°F / 70°C	140°F / 60°C	140°F / 60°C	140°F / 60°C	140°F / 60°C
Max ambient temperature (T _{Amax})	104°F / 40°C	104°F / 40°C	95°F / 35°C	104°F / 40°C	104°F / 40°C	113°F / 45°C	113°F / 45°C	113°F / 45°C

^B The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

Light Distribution

VENUS TV IP67 - Static White

RGB - IP67



LENGTH CHART - Venus TV IP67

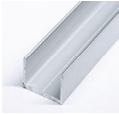
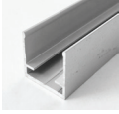
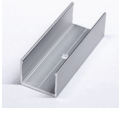
Fixture length		Static White						Tunable White		RGB		Static Color					
		Low Output 1.8 Watts/Ft		Mid Output 3.1 Watts/Ft		High Output 4.6 Watts/Ft		3.7 Watts/Ft		3.1 Watts/Ft		Red 2.4 Watts/Ft		Green 2.4 Watts/Ft		Blue 2.4 Watts/Ft	
inches	mm	Watts/fixture	Lumens/fixture @W930K	Watts/fixture	Lumens/fixture @W930K	Watts/fixture	Lumens/fixture @W830K	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture
8.4	214	1	72	1	121	–	–	3	132	2	69	2	22	2	107	2	27
10.9	276	2	93	3	157	3	341	3	171	3	90	2	29	2	139	2	35
13.3	339	2	114	3	192	4	441	4	210	3	110	3	36	3	170	3	43
15.8	401	2	135	4	228	5	541	5	249	4	130	3	42	3	201	3	51
18.3	464	3	157	5	263	6	641	6	287	5	151	4	49	4	233	4	59
20.7	526	3	178	5	298	7	740	6	326	5	171	4	55	4	264	4	67
23.2	589	3	199	6	334	8	840	7	365	6	191	5	62	5	295	5	75
25.6	651	4	220	6	369	9	940	8	404	7	211	5	68	5	327	5	83
28.1	714	4	241	7	405	10	1040	9	442	7	232	6	75	6	358	6	91
30.6	776	5	262	8	440	11	1140	9	481	8	252	6	81	6	389	6	99
33.0	839	5	283	8	476	12	1240	10	520	9	272	7	88	7	421	7	107
35.5	901	5	304	9	511	13	1339	11	559	9	293	7	95	7	452	7	115
37.9	964	6	326	9	547	14	1439	12	597	10	313	8	101	8	484	8	123
40.4	1026	6	347	10	582	15	1539	12	636	10	333	8	108	8	515	8	131
42.9	1089	6	368	11	618	15	1639	13	675	11	353	9	114	9	546	9	139
45.3	1151	7	389	11	653	16	1739	14	714	12	374	9	121	9	578	9	147
47.8	1214	7	410	12	689	17	1839	15	752	12	394	10	127	10	609	10	155
50.2	1276	8	431	13	724	18	1938	15	791	13	414	10	134	10	640	10	163
52.7	1339	8	452	13	760	19	2038	16	830	14	435	11	140	11	672	11	171
55.2	1401	8	473	14	795	20	2138	17	869	14	455	11	147	11	703	11	179
57.6	1464	9	494	14	830	21	2238	18	907	15	475	12	154	12	734	12	187
60.1	1526	9	516	15	866	22	2338	19	946	16	496	12	160	12	766	12	195
62.5	1589	9	537	16	901	23	2438	19	985	16	516	13	167	13	797	13	203
65.0	1651	10	558	16	937	24	2537	20	1023	17	536	13	173	13	829	13	211
67.5	1714	10	579	17	972	25	2637	21	1062	17	556	13	180	13	860	13	219
69.9	1776	10	600	17	1008	26	2737	22	1101	18	577	14	186	14	891	14	227
72.4	1839	11	621	18	1043	27	2837	22	1140	19	597	14	193	14	923	14	235
74.8	1901	11	642	19	1079	28	2937	23	1178	19	617	15	200	15	954	15	243
77.3	1964	12	663	19	1114	29	3037	24	1217	20	638	15	206	15	985	15	251
79.8	2026	12	684	20	1150	30	3136	25	1256	21	658	16	213	16	1017	16	259
82.2	2089	12	706	21	1185	31	3236	25	1295	21	678	16	219	16	1048	16	267
84.7	2151	13	727	21	1221	32	3336	26	1333	22	698	17	226	17	1079	17	275
87.2	2214	13	748	22	1256	32	3436	27	1372	23	719	17	232	17	1111	17	283
89.6	2276	13	769	22	1291	33	3536	28	1411	23	739	18	239	18	1142	18	291
92.1	2339	14	790	23	1327	34	3636	28	1450	24	759	18	245	18	1174	18	299
94.5	2401	14	811	24	1362	35	3735	29	1488	24	780	19	252	19	1205	19	307
97.0	2464	15	832	24	1398	36	3835	30	1527	25	800	19	259	19	1236	19	315
99.5	2526	15	853	25	1433	37	3935	31	1566	26	820	20	265	20	1268	20	323
101.9	2589	15	874	25	1469	38	4035	31	1605	26	841	20	272	20	1299	20	331
104.4	2651	16	896	26	1504	39	4135	32	1643	27	861	21	278	21	1330	21	339
106.8	2714	16	917	27	1540	40	4235	33	1682	28	881	21	285	21	1362	21	347
109.3	2776	16	938	27	1575	41	4334	34	1721	28	901	22	291	22	1393	22	355
111.8	2839	17	959	28	1611	42	4434	34	1760	29	922	22	298	22	1424	22	363
114.2	2901	17	980	29	1646	43	4534	35	1798	29	942	23	304	23	1456	23	371
116.7	2964	17	1001	29	1682	44	4634	36	1837	30	962	23	311	23	1487	23	379
119.1	3026	18	1022	30	1717	45	4734	37	1876	31	983	24	318	24	1519	24	387

VENUS TV - Continued on next page

LENGTH CHART - Venus TV IP67, Continued

Fixture length		Static White						Tunable White		RGB		Static Color					
		Low Output 1.8 Watts/Ft		Mid Output 3.1 Watts/Ft		High Output 4.6 Watts/Ft		3.7 Watts/Ft		3.1 Watts/Ft		Red 2.4 Watts/Ft		Green 2.4 Watts/Ft		Blue 2.4 Watts/Ft	
inches	mm	Watts/fixture	Lumens/fixture @W930K	Watts/fixture	Lumens/fixture @W930K	Watts/fixture	Lumens/fixture @W830K	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture
121.6	3089	18	1043	30	1753	46	4834	37	1915	31	1003	24	324	24	1550	24	395
124.1	3151	19	1065	31	1788	47	4933	38	1953	32	1023	25	331	25	1581	25	403
126.5	3214	19	1086	32	1823	48	5033	39	1992	33	1043	25	337	25	1613	25	411
129.0	3276	19	1107	32	1859	48	5133	40	2031	33	1064	26	344	26	1644	26	419
131.4	3339	20	1128	33	1894	49	5233	41	2070	34	1084	26	350	26	1675	26	427
133.9	3401	20	1149	33	1930	50	5333	41	2108	35	1104	27	357	27	1707	27	435
136.4	3464	20	1170	34	1965	51	5433	42	2147	35	1125	27	364	27	1738	27	443
138.8	3526	21	1191	35	2001	52	5532	43	2186	36	1145	28	370	28	1769	28	451
141.3	3589	21	1212	35	2036	53	5632	44	2225	36	1165	28	377	28	1801	28	459
143.7	3651	22	1233	36	2072	54	5732	44	2263	37	1186	29	383	29	1832	29	467
146.2	3714	22	1255	37	2107	55	5832	45	2302	38	1206	29	390	29	1864	29	475
148.7	3776	22	1276	37	2143	56	5932	46	2341	38	1226	30	396	30	1895	30	483
151.1	3839	23	1297	38	2178	57	6032	47	2380	39	1246	30	403	30	1926	30	491
153.6	3901	23	1318	38	2214	58	6131	47	2418	40	1267	31	409	31	1958	31	499
156.0	3964	23	1339	39	2249	59	6231	48	2457	40	1287	31	416	31	1989	31	507
158.5	4026	24	1360	40	2285	60	6331	49	2496	41	1307	32	423	32	2020	32	515
161.0	4089	24	1381	40	2320	61	6431	50	2535	42	1328	32	429	32	2052	32	523
163.4	4151	25	1402	41	2355	-	-	50	2573	42	1348	33	436	33	2083	33	531
165.9	4214	25	1423	41	2391	-	-	51	2612	43	1368	33	442	33	2115	33	539
168.4	4276	25	1445	42	2426	-	-	52	2651	43	1389	34	449	34	2146	34	547
170.8	4339	26	1466	43	2462	-	-	53	2690	44	1409	34	455	34	2177	34	555
173.3	4401	26	1487	43	2497	-	-	53	2728	45	1429	35	462	35	2209	35	563
175.7	4464	26	1508	44	2533	-	-	54	2767	45	1449	35	468	35	2240	35	571
178.2	4526	27	1529	45	2568	-	-	55	2806	46	1470	36	475	36	2271	36	579
180.7	4589	27	1550	45	2604	-	-	56	2845	47	1490	36	482	36	2303	36	587
183.1	4651	27	1571	46	2639	-	-	56	2883	47	1510	37	488	37	2334	37	595
185.6	4714	28	1592	46	2675	-	-	57	2922	48	1531	37	495	37	2365	37	603
188.0	4776	28	1614	47	2710	-	-	58	2961	49	1551	38	501	38	2397	38	611
190.5	4839	29	1635	48	2746	-	-	59	2999	49	1571	38	508	38	2428	38	619
193.0	4901	29	1656	48	2781	-	-	59	3038	50	1591	39	514	39	2460	39	627
195.4	4964	29	1677	49	2816	-	-	60	3077	50	1612	39	521	39	2491	39	635
197.9	5026	30	1698	49	2852	-	-	61	3116	51	1632	40	528	40	2522	40	643

Mounting Accessories

Item	Description	Dimensions (L x W x H)	Order Code
	Venus TV Mounting Profile Continuous anodized aluminum surface mounting profile designed to fit Venus TV product.	6-1/2' x 3/4" x 1/2"	10000049-01
	Venus TV Mounting Profile with Cable Runway Continuous aluminum surface mounting profile. Cable Runway allows the cables to run underneath the product.	6-1/2' x 3/4" x 3/4"	10000339
	Venus TV Aluminum Mounting Bracket Aluminum surface mounting bracket. Recommended to use every 18 inches.	2" x 3/4" x 1/2"	13000010-01
	Venus TV Stainless Steel Mounting Bracket Stainless steel surface mounting bracket. Recommended to use every 18 inches.	1-1/4" x 3/4" x 3/4"	13000033-01
	Venus TV Stainless Steel Mounting Bracket - Harsh Environment Special grade stainless steel surface mounting bracket for harsh environments. Recommended to use every 12 inches.	1-1/4" x 3/4" x 3/4"	13000050-01

Cables and Connectors

Item	Description	Model	Dimensions	Order Code
 	Female Connector IP67 Use to run cable from the driver to the first fixture of the run or to the next fixture. Female connector on one side and open end cable on the other side. Available with straight or 90° L-shaped connector.	Static White	2 x 22 Awg, 4 in	15000071
		Static White	2 x 22 Awg, 3.2 ft	15000090
		Static White	2 x 22 Awg, 6.5 ft	15000091
		Static White	2 x 22 Awg, 16.5 ft	15000092
		Static White / 90°	2 x 22 Awg, 6.5 ft	15000089
		RGB / Tunable White	4 x 23 Awg, 4 in	15000094
		RGB / Tunable White	4 x 23 Awg, 3.2 ft	15000095
		RGB / Tunable White	4 x 23 Awg, 6.5 ft	15000096
		RGB / Tunable White	4 x 23 Awg, 16.5 ft	15000097
		RGB / Tunable White / 90°	4 x 23 Awg, 6.5 ft	15000098
	Male Connector IP67 Use to run cable from the fixture to the driver or to the previous fixture. Male connector on one side and open end cable on the other side.	Static White	2 x 22 Awg, 4 in	15000070
		Static White	2 x 22 Awg, 3.2 ft	15000093
		RGB / Tunable White	2 x 23 Awg, 4 in	15000099
		RGB / Tunable White	2 x 23 Awg, 3.2 ft	15000100
	Extension IP67 Use to extend the distance between connection points. Female connector on one side and male connector on the other side.	Static White / RGB / Tunable White	4 x 23 Awg, 3 in	15000101
		Static White / RGB / Tunable White	4 x 23 Awg, 6.5 ft	15000102
		Static White / RGB / Tunable White	4 x 23 Awg, 16.5 ft	15000103
	Female Protection Cap IP67 Use to seal unused connectors and maintain IP67 ingress protection.	Static White / RGB / Tunable White	—	15000115

Drivers

Item	Specifications	Downloads
LED LINEAR™ Non-Dimmable Drivers 	• UL 8750 Listed Enclosure - With Built-In Junction Boxes • Universal Input Voltage 120V - 277V • IP65 - For Both Indoor and Outdoor Use • No Minimum Load Requirement • 24V Constant Voltage Output, Class 2 • Available in three wattages 30W, 60W and 96W • Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8"	30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
LED LINEAR™ 0-10V Dimmable Drivers 	• UL 8750 Listed Enclosure - With Built-In Junction Boxes • 0-10V Dimmable - Flicker Free Down to 1% • Universal Input Voltage 120V - 277V • IP65 - For Both Indoor and Outdoor Use • 24V Constant Voltage Output, Class 2, Class P • Available in three wattages 30W, 60W and 96W • Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8"	30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
LED LINEAR™ ELV/Triac Dimmable Drivers 	• UL 8750 Listed Class 2 Enclosure • 24V constant voltage output • Compact size yet high efficiency and performance in dry and damp environments (IP67) • Multiple Inputs: 120V or 277V • Fully dimmable: ELV Dimmers - Reverse or Adaptive Phase Control, Trailing Edge • Available in two wattages 48W and 96W • Multiple Circuits are available up to 4 units (up to 384W)	48 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
 PWM Dimmable Drivers 	• Universal AC input / Full range (up to 305VAC) • Constant voltage PWM style output • Built-in 3 in 1 dimming function (0-10Vdc or PWM signal or resistance) • Dimming range : 0-100% • Class 2 power unit • Suitable for dry / damp / wet locations • UL Recognized component, 5 years warranty	40 W SPEC SHEET 60 W SPEC SHEET 90 W SPEC SHEET INSTALLATION INSTRUCTIONS
 Dimmable Drivers 	• UL Listed Enclosure • Dimming Range: 100% to 1% and 0.1% (Premiere) • LED lighting turns on to any dimmed level without flashing to full brightness • Operating Voltage: 120V~ to 277V~ at 50/60 Hz • Rated lifetime of 50,000 hours at 40°C (104°F) ambient temperature and maximum loading • For rated warranty, ambient temperature not to exceed 40°C (104°F) • Open-circuit protected output	HI-LUME SPEC SHEET HI-LUME PREMIERE SPEC SHEET INSTALLATION INSTRUCTIONS
eldoLED DALI/DMX Dimmable Drivers 	• Available in linear or rectangular format • 100W, DMX/DALI interface for Static White, Tunable White and RGB/W Applications • 4 control channels • 24V constant voltage, 4 x 24V outputs • Metal or plastic case options	100 W SPEC SHEET INSTALLATION INSTRUCTIONS

Controllers

Item	Specifications	Downloads
eldoLED Controllers 	180/D DMX Controller for RGB/W and Tunable White Applications 210/D Dali Controller for Static White Applications 211/D-LG 0-10V Logarithmic Dimming Controller 211/D-LN 0-10V Linear Dimming Controller 212/D DMX Controller for Static White and Static Color Applications DimWheel DMX Wall Controller for RGB/W and Tunable White Applications	180/D SPEC SHEET 210/D SPEC SHEET 211/D-LG SPEC SHEET 211/D-LN SPEC SHEET 212/D SPEC SHEET DIM WHEEL SPEC SHEET

Click for more
information

INSTALLATION

IES FILES

DRIVERS & CONTROLS

LED LINEAR TECHNOLOGY

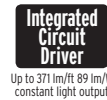
VOLTAGE DROP CALCULATOR



IP67 flexible dot free linear LED light line with a flexible light line 0.63" x 0.59" (W x H) cross section. O encapsulation offering a premium water proof sealir chemical stability and protection against abrasion. Vertical bending only, with radius of 5.9", excellent solution for indoor/outdoor organic facade accent lighting or decorative applications requiring IP67 ingress. Freely configurable in length and delivered with 3M self adhesive tape on rear side and 4.33" long cable at both end of the luminaire with IP67 male/female connectors. Light source assembled Reel to Reel (R2R) production process supporting LED Linear™ Tj Away® thin flexible circuit board technology. Outstanding lifetime of >60,000 hrs L80/B10 (>30,000 hrs for RGB). Embeds high quality japanese LEDs with 3 step MacAdams (SDCM3) binning centered on target CCT (One Bin Only) with an extended photometric code of Wxxx/339 ensuring an exceptional color consistency over the rated lifetime. Premium color rendition with a CRI of 80. Consistent light intensity all along the strip length. Fully dimmable. Engineered and produced in Germany.

F48 - Linear Strip

Fixture type	Phase
Specifier	Date



Up to 371 lm/ft 89 lm/W constant light output



High Quality Solder Free Reels



Exceptional Thermal Dissipation



3 MacAdam 80 CRI



L80/B10 >60,000 hrs /RGB >30,000 hrs



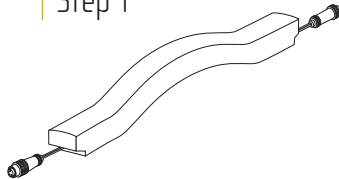
Wxxx/339



LM79/LM80 Compliant

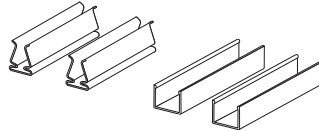
Ordering Process

Step 1



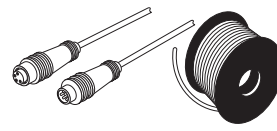
Fixture (Page 1)

Step 2



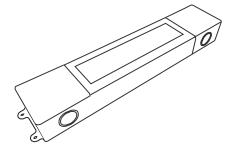
Mounting Accessories (Page 5)

Step 3



Cables and Connectors (Page 5)

Step 4



Drivers and Controllers (Page 6)

Fixture Order Code

Family	Model/Lumen package*	CCT Venus/Phobos	CCT Skylla	Custom length**	Variant	Ingress
VarioLED Flex	-----	-----	-----	-----	TV	IP67
	VENUS - Low Output 100 lm/ft	820-2400K, 80 CRI 822-2700K, 80 CRI	820-2400K, 80 CRI 822-2700K, 80 CRI	L _{min} : 213.5 mm (8-3/8")	Vertical Bend	
	PHOBOS - Mid Output 191 lm/ft	825-3000K, 80 CRI 927-3400K, 90 CRI	825-3000K, 80 CRI 827-3500K, 80 CRI	Venus Phobos L _{max} : 5026 mm (16' 5-7/8") Skylla L _{max} : 4026 mm (13' 2-1/2")		
	SKYLLA - High Output 307 lm/ft	930-3800K, 90 CRI 935-4400K, 90 CRI 940-5600K, 90 CRI	830-3900K, 80 CRI 835-4600K, 80 CRI 840-5500K, 80 CRI	Increment: 62.5 mm (2-1/2")		
	VENUS IQ WHITE - Tunable White 189 lm/ft 2600K-4900K	- - -	- - -	L _{min} : 213.5 mm (8-1/2") L _{max} : 5026 mm (16' 5-7/8") Increment: 62.5 mm (2-1/2")		
	VENUS RED - 32 lm/ft, 625nm	-	-	L _{min} : 213.5 mm (8-1/2")		
	VENUS GREEN - 153 lm/ft, 529nm	-	-	L _{max} : 5026 mm (16' 5-7/8")		
	VENUS BLUE - 39 lm/ft, 472nm	-	-	Increment: 125 mm (4-15/16")		
	VENUS RGB - 99 lm/ft 622(R) 532(G) 466(B)	- -	- -	L _{min} : 213.5 mm (8-1/2") L _{max} : 5026 mm (16' 5-7/8") Increment: 62.5 mm (2-1/2")		

* Lumen Values represent 3000K (W825).

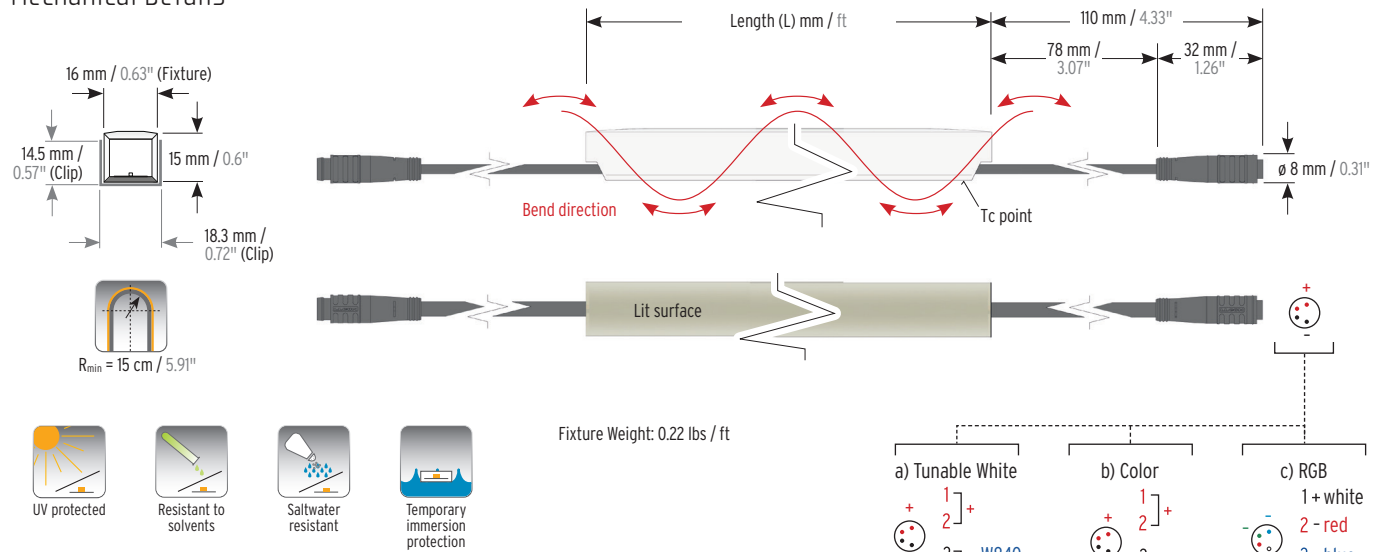
** Custom Length should be specified in millimeters (mm). See page 3 and 4 for all available lengths.

	Color temperature	CCT (Delivered) ^A	Low Output		Mid Output		High Output	
			Lumen/ft	W/ft ^B	Lumen/ft	W/ft ^B	Lumen/ft	W/ft ^B
Static White	W820	2,400 K	87	1.8	145	3.1	234	4.6
	W822	2,700 K	100	1.8	167	3.1	267	4.6
	W825	3,000 K	100	1.8	191	3.1	307	4.6
	W827/W927	3,500 K/3,400 K	103	1.8	170	3.1	325	4.6
	W830/W930	3,900 K/3,800 K	103	1.8	173	3.1	343	4.6
	W835/W935	4,600 K/4,400 K	106	1.8	179	3.1	362	4.6
	W840/W940	5,500 K/5,600 K	109	1.8	182	3.1	371	4.6

^A CCT tolerances occur in IP67 products due to the encapsulation of the fixture.

^B The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

Mechanical Details



IP67 plug in connector (male / female) on both ends. Fixtures at maximum length ships with one male connector only.

Technical Details

	Static White	Tunable White, Static Color, RGB
Voltage	24 Volt (23 V _{min} , 25 V _{max})	24 Volt (23 V _{min} , 25 V _{max})
Case temperature ^A	T _{Cmin} = -13°F / -25°C, T _{Cmax} = 140°F / 60°C	T _{Cmin} = -13°F / -25°C, T _{Cmax} = specific, see Table below
Storage temperature	T _{Smin} = -22°F / -30°C, T _{Smax} = 185°F / 85°C	T _{Smin} = -22°F / -30°C, T _{Smax} = 185°F / 85°C
Ambient temperature	T _{Amin} = -13°F / -25°C, T _{Amax} = specific, see Table below	T _{Amin} = -13°F / -25°C, T _{Amax} = specific, see Table below

^A The position of the Tc-point is marked on each step of the LED strip. The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

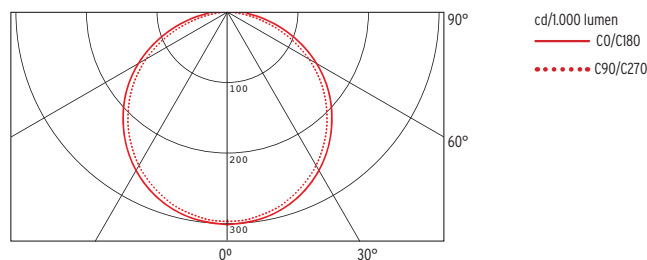
	Low Output	Mid Output	High Output	Tunable White	RGB	COLOR		
Power (W/ft) ^B	1.8	3.1	4.6	3.7	3.1	2.4	2.4	2.4
Efficacy (lm / W) ^B @ W850	83	83	89	86	22	13	63	16
CRI / R9 @ 3000 K	up to 95 / up to 65			85 / 25	-	-	-	-
Max fixture length (ft / m)	16.4 / 5	16.4 / 5	13.1 / 4	16.4 / 5	16.4 / 5	16.4 / 5	16.4 / 5	16.4 / 5
Temperature Tc-point (T _{Cmax}) ^B	140°F / 60°C	140°F / 60°C	140°F / 60°C	158°F / 70°C	140°F / 60°C	140°F / 60°C	140°F / 60°C	140°F / 60°C
Max ambient temperature (T _{Amax})	104°F / 40°C	104°F / 40°C	95°F / 35°C	104°F / 40°C	104°F / 40°C	113°F / 45°C	113°F / 45°C	113°F / 45°C

^B The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

Light Distribution

VENUS TV IP67 - Static White

RGB - IP67



LENGTH CHART - Venus TV IP67

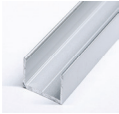
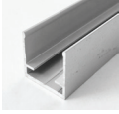
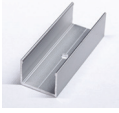
Fixture length		Static White						Tunable White		RGB		Static Color					
		Low Output 1.8 Watts/Ft		Mid Output 3.1 Watts/Ft		High Output 4.6 Watts/Ft		3.7 Watts/Ft		3.1 Watts/Ft		Red 2.4 Watts/Ft		Green 2.4 Watts/Ft		Blue 2.4 Watts/Ft	
inches	mm	Watts/fixture	Lumens/fixture @W930K	Watts/fixture	Lumens/fixture @W930K	Watts/fixture	Lumens/fixture @W830K	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture
8.4	214	1	72	1	121	–	–	3	132	2	69	2	22	2	107	2	27
10.9	276	2	93	3	157	3	341	3	171	3	90	2	29	2	139	2	35
13.3	339	2	114	3	192	4	441	4	210	3	110	3	36	3	170	3	43
15.8	401	2	135	4	228	5	541	5	249	4	130	3	42	3	201	3	51
18.3	464	3	157	5	263	6	641	6	287	5	151	4	49	4	233	4	59
20.7	526	3	178	5	298	7	740	6	326	5	171	4	55	4	264	4	67
23.2	589	3	199	6	334	8	840	7	365	6	191	5	62	5	295	5	75
25.6	651	4	220	6	369	9	940	8	404	7	211	5	68	5	327	5	83
28.1	714	4	241	7	405	10	1040	9	442	7	232	6	75	6	358	6	91
30.6	776	5	262	8	440	11	1140	9	481	8	252	6	81	6	389	6	99
33.0	839	5	283	8	476	12	1240	10	520	9	272	7	88	7	421	7	107
35.5	901	5	304	9	511	13	1339	11	559	9	293	7	95	7	452	7	115
37.9	964	6	326	9	547	14	1439	12	597	10	313	8	101	8	484	8	123
40.4	1026	6	347	10	582	15	1539	12	636	10	333	8	108	8	515	8	131
42.9	1089	6	368	11	618	15	1639	13	675	11	353	9	114	9	546	9	139
45.3	1151	7	389	11	653	16	1739	14	714	12	374	9	121	9	578	9	147
47.8	1214	7	410	12	689	17	1839	15	752	12	394	10	127	10	609	10	155
50.2	1276	8	431	13	724	18	1938	15	791	13	414	10	134	10	640	10	163
52.7	1339	8	452	13	760	19	2038	16	830	14	435	11	140	11	672	11	171
55.2	1401	8	473	14	795	20	2138	17	869	14	455	11	147	11	703	11	179
57.6	1464	9	494	14	830	21	2238	18	907	15	475	12	154	12	734	12	187
60.1	1526	9	516	15	866	22	2338	19	946	16	496	12	160	12	766	12	195
62.5	1589	9	537	16	901	23	2438	19	985	16	516	13	167	13	797	13	203
65.0	1651	10	558	16	937	24	2537	20	1023	17	536	13	173	13	829	13	211
67.5	1714	10	579	17	972	25	2637	21	1062	17	556	13	180	13	860	13	219
69.9	1776	10	600	17	1008	26	2737	22	1101	18	577	14	186	14	891	14	227
72.4	1839	11	621	18	1043	27	2837	22	1140	19	597	14	193	14	923	14	235
74.8	1901	11	642	19	1079	28	2937	23	1178	19	617	15	200	15	954	15	243
77.3	1964	12	663	19	1114	29	3037	24	1217	20	638	15	206	15	985	15	251
79.8	2026	12	684	20	1150	30	3136	25	1256	21	658	16	213	16	1017	16	259
82.2	2089	12	706	21	1185	31	3236	25	1295	21	678	16	219	16	1048	16	267
84.7	2151	13	727	21	1221	32	3336	26	1333	22	698	17	226	17	1079	17	275
87.2	2214	13	748	22	1256	32	3436	27	1372	23	719	17	232	17	1111	17	283
89.6	2276	13	769	22	1291	33	3536	28	1411	23	739	18	239	18	1142	18	291
92.1	2339	14	790	23	1327	34	3636	28	1450	24	759	18	245	18	1174	18	299
94.5	2401	14	811	24	1362	35	3735	29	1488	24	780	19	252	19	1205	19	307
97.0	2464	15	832	24	1398	36	3835	30	1527	25	800	19	259	19	1236	19	315
99.5	2526	15	853	25	1433	37	3935	31	1566	26	820	20	265	20	1268	20	323
101.9	2589	15	874	25	1469	38	4035	31	1605	26	841	20	272	20	1299	20	331
104.4	2651	16	896	26	1504	39	4135	32	1643	27	861	21	278	21	1330	21	339
106.8	2714	16	917	27	1540	40	4235	33	1682	28	881	21	285	21	1362	21	347
109.3	2776	16	938	27	1575	41	4334	34	1721	28	901	22	291	22	1393	22	355
111.8	2839	17	959	28	1611	42	4434	34	1760	29	922	22	298	22	1424	22	363
114.2	2901	17	980	29	1646	43	4534	35	1798	29	942	23	304	23	1456	23	371
116.7	2964	17	1001	29	1682	44	4634	36	1837	30	962	23	311	23	1487	23	379
119.1	3026	18	1022	30	1717	45	4734	37	1876	31	983	24	318	24	1519	24	387

VENUS TV - Continued on next page

LENGTH CHART - Venus TV IP67, Continued

Fixture length		Static White						Tunable White		RGB		Static Color					
		Low Output 1.8 Watts/Ft		Mid Output 3.1 Watts/Ft		High Output 4.6 Watts/Ft		3.7 Watts/Ft		3.1 Watts/Ft		Red 2.4 Watts/Ft		Green 2.4 Watts/Ft		Blue 2.4 Watts/Ft	
inches	mm	Watts/fixture	Lumens/fixture @W930K	Watts/fixture	Lumens/fixture @W930K	Watts/fixture	Lumens/fixture @W830K	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture
121.6	3089	18	1043	30	1753	46	4834	37	1915	31	1003	24	324	24	1550	24	395
124.1	3151	19	1065	31	1788	47	4933	38	1953	32	1023	25	331	25	1581	25	403
126.5	3214	19	1086	32	1823	48	5033	39	1992	33	1043	25	337	25	1613	25	411
129.0	3276	19	1107	32	1859	48	5133	40	2031	33	1064	26	344	26	1644	26	419
131.4	3339	20	1128	33	1894	49	5233	41	2070	34	1084	26	350	26	1675	26	427
133.9	3401	20	1149	33	1930	50	5333	41	2108	35	1104	27	357	27	1707	27	435
136.4	3464	20	1170	34	1965	51	5433	42	2147	35	1125	27	364	27	1738	27	443
138.8	3526	21	1191	35	2001	52	5532	43	2186	36	1145	28	370	28	1769	28	451
141.3	3589	21	1212	35	2036	53	5632	44	2225	36	1165	28	377	28	1801	28	459
143.7	3651	22	1233	36	2072	54	5732	44	2263	37	1186	29	383	29	1832	29	467
146.2	3714	22	1255	37	2107	55	5832	45	2302	38	1206	29	390	29	1864	29	475
148.7	3776	22	1276	37	2143	56	5932	46	2341	38	1226	30	396	30	1895	30	483
151.1	3839	23	1297	38	2178	57	6032	47	2380	39	1246	30	403	30	1926	30	491
153.6	3901	23	1318	38	2214	58	6131	47	2418	40	1267	31	409	31	1958	31	499
156.0	3964	23	1339	39	2249	59	6231	48	2457	40	1287	31	416	31	1989	31	507
158.5	4026	24	1360	40	2285	60	6331	49	2496	41	1307	32	423	32	2020	32	515
161.0	4089	24	1381	40	2320	61	6431	50	2535	42	1328	32	429	32	2052	32	523
163.4	4151	25	1402	41	2355	-	-	50	2573	42	1348	33	436	33	2083	33	531
165.9	4214	25	1423	41	2391	-	-	51	2612	43	1368	33	442	33	2115	33	539
168.4	4276	25	1445	42	2426	-	-	52	2651	43	1389	34	449	34	2146	34	547
170.8	4339	26	1466	43	2462	-	-	53	2690	44	1409	34	455	34	2177	34	555
173.3	4401	26	1487	43	2497	-	-	53	2728	45	1429	35	462	35	2209	35	563
175.7	4464	26	1508	44	2533	-	-	54	2767	45	1449	35	468	35	2240	35	571
178.2	4526	27	1529	45	2568	-	-	55	2806	46	1470	36	475	36	2271	36	579
180.7	4589	27	1550	45	2604	-	-	56	2845	47	1490	36	482	36	2303	36	587
183.1	4651	27	1571	46	2639	-	-	56	2883	47	1510	37	488	37	2334	37	595
185.6	4714	28	1592	46	2675	-	-	57	2922	48	1531	37	495	37	2365	37	603
188.0	4776	28	1614	47	2710	-	-	58	2961	49	1551	38	501	38	2397	38	611
190.5	4839	29	1635	48	2746	-	-	59	2999	49	1571	38	508	38	2428	38	619
193.0	4901	29	1656	48	2781	-	-	59	3038	50	1591	39	514	39	2460	39	627
195.4	4964	29	1677	49	2816	-	-	60	3077	50	1612	39	521	39	2491	39	635
197.9	5026	30	1698	49	2852	-	-	61	3116	51	1632	40	528	40	2522	40	643

Mounting Accessories

Item	Description	Dimensions (L x W x H)	Order Code
	Venus TV Mounting Profile Continuous anodized aluminum surface mounting profile designed to fit Venus TV product.	6-1/2' x 3/4" x 1/2"	10000049-01
	Venus TV Mounting Profile with Cable Runway Continuous aluminum surface mounting profile. Cable Runway allows the cables to run underneath the product.	6-1/2' x 3/4" x 3/4"	10000339
	Venus TV Aluminum Mounting Bracket Aluminum surface mounting bracket. Recommended to use every 18 inches.	2" x 3/4" x 1/2"	13000010-01
	Venus TV Stainless Steel Mounting Bracket Stainless steel surface mounting bracket. Recommended to use every 18 inches.	1-1/4" x 3/4" x 3/4"	13000033-01
	Venus TV Stainless Steel Mounting Bracket - Harsh Environment Special grade stainless steel surface mounting bracket for harsh environments. Recommended to use every 12 inches.	1-1/4" x 3/4" x 3/4"	13000050-01

Cables and Connectors

Item	Description	Model	Dimensions	Order Code
 	Female Connector IP67 Use to run cable from the driver to the first fixture of the run or to the next fixture. Female connector on one side and open end cable on the other side. Available with staright or 90° L-shaped connector.	Static White	2 x 22 Awg, 4 in	15000071
		Static White	2 x 22 Awg, 3.2 ft	15000090
		Static White	2 x 22 Awg, 6.5 ft	15000091
		Static White	2 x 22 Awg, 16.5 ft	15000092
		Static White / 90°	2 x 22 Awg, 6.5 ft	15000089
		RGB / Tunable White	4 x 23 Awg, 4 in	15000094
		RGB / Tunable White	4 x 23 Awg, 3.2 ft	15000095
		RGB / Tunable White	4 x 23 Awg, 6.5 ft	15000096
		RGB / Tunable White	4 x 23 Awg, 16.5 ft	15000097
		RGB / Tunable White / 90°	4 x 23 Awg, 6.5 ft	15000098
	Male Connector IP67 Use to run cable from the fixture to the driver or to the previous fixture. Male connector on one side and open end cable on the other side.	Static White	2 x 22 Awg, 4 in	15000070
		Static White	2 x 22 Awg, 3.2 ft	15000093
		RGB / Tunable White	2 x 23 Awg, 4 in	15000099
		RGB / Tunable White	2 x 23 Awg, 3.2 ft	15000100
	Extension IP67 Use to extend the distance between connection points. Female connector on one side and male connector on the other side.	Static White / RGB / Tunable White	4 x 23 Awg, 3 in	15000101
		Static White / RGB / Tunable White	4 x 23 Awg, 6.5 ft	15000102
		Static White / RGB / Tunable White	4 x 23 Awg, 16.5 ft	15000103
	Female Protection Cap IP67 Use to seal unused connectors and maintain IP67 ingress protection.	Static White / RGB / Tunable White	—	15000115

Drivers

Item	Specifications	Downloads
LED LINEAR™ Non-Dimmable Drivers 	• UL 8750 Listed Enclosure - With Built-In Junction Boxes • Universal Input Voltage 120V - 277V • IP65 - For Both Indoor and Outdoor Use • No Minimum Load Requirement • 24V Constant Voltage Output, Class 2 • Available in three wattages 30W, 60W and 96W • Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8"	30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
LED LINEAR™ 0-10V Dimmable Drivers 	• UL 8750 Listed Enclosure - With Built-In Junction Boxes • 0-10V Dimmable - Flicker Free Down to 1% • Universal Input Voltage 120V - 277V • IP65 - For Both Indoor and Outdoor Use • 24V Constant Voltage Output, Class 2, Class P • Available in three wattages 30W, 60W and 96W • Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8"	30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
LED LINEAR™ ELV/Triac Dimmable Drivers 	• UL 8750 Listed Class 2 Enclosure • 24V constant voltage output • Compact size yet high efficiency and performance in dry and damp environments (IP67) • Multiple Inputs: 120V or 277V • Fully dimmable: ELV Dimmers - Reverse or Adaptive Phase Control, Trailing Edge • Available in two wattages 48W and 96W • Multiple Circuits are available up to 4 units (up to 384W)	48 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
 PWM Dimmable Drivers 	• Universal AC input / Full range (up to 305VAC) • Constant voltage PWM style output • Built-in 3 in 1 dimming function (0-10Vdc or PWM signal or resistance) • Dimming range : 0-100% • Class 2 power unit • Suitable for dry / damp / wet locations • UL Recognized component, 5 years warranty	40 W SPEC SHEET 60 W SPEC SHEET 90 W SPEC SHEET INSTALLATION INSTRUCTIONS
 Dimmable Drivers 	• UL Listed Enclosure • Dimming Range: 100% to 1% and 0.1% (Premiere) • LED lighting turns on to any dimmed level without flashing to full brightness • Operating Voltage: 120V~ to 277V~ at 50/60 Hz • Rated lifetime of 50,000 hours at 40°C (104°F) ambient temperature and maximum loading • For rated warranty, ambient temperature not to exceed 40°C (104°F) • Open-circuit protected output	HI-LUME SPEC SHEET HI-LUME PREMIERE SPEC SHEET INSTALLATION INSTRUCTIONS
eldoLED DALI/DMX Dimmable Drivers 	• Available in linear or rectangular format • 100W, DMX/DALI interface for Static White, Tunable White and RGB/W Applications • 4 control channels • 24V constant voltage, 4 x 24V outputs • Metal or plastic case options	100 W SPEC SHEET INSTALLATION INSTRUCTIONS

Controllers

Item	Specifications	Downloads
eldoLED Controllers 	180/D DMX Controller for RGB/W and Tunable White Applications 210/D Dali Controller for Static White Applications 211/D-LG 0-10V Logarithmic Dimming Controller 211/D-LN 0-10V Linear Dimming Controller 212/D DMX Controller for Static White and Static Color Applications DimWheel DMX Wall Controller for RGB/W and Tunable White Applications	180/D SPEC SHEET 210/D SPEC SHEET 211/D-LG SPEC SHEET 211/D-LN SPEC SHEET 212/D SPEC SHEET DIM WHEEL SPEC SHEET

Click for more
information

INSTALLATION

IES FILES

DRIVERS & CONTROLS

LED LINEAR TECHNOLOGY

VOLTAGE DROP CALCULATOR



F49 - Exterior

Broadway LED Outdoor Sconce BDWW Series

Features

This LED light is ideal for security and general lighting. Decorative metal accents. Provides lighting in residential, commercial, and hospitality applications. Fixture mounts to standard junction box (not included).

Construction

Standard mounting holes and hardware are included. Power supply connections must be made inside a junction box (not included).

Finish

Textured Grey or Textured Bronze powder coat finish.

Diffuser

Diffuser is .100" thick matte white acrylic.

Electrical

Input 120-277VAC / 60Hz.
Compatible with 0-10V dimmers.
Minimum starting temp -4° F/-20° C

LED

Integrated LED modules capable of producing:
20W = 2300 source lumens, 780 delivered lumens
28W = 3300 source lumens, 1150 delivered lumens
36W = 3500 source lumens, 1980 delivered lumens
Adjustable Choice 3000K, 3500K, 4000K (CCT).
Rated for 50,000 Hrs. 90 CRI.

Certification

All fixtures are cETLus listed for wet locations.
ADA*

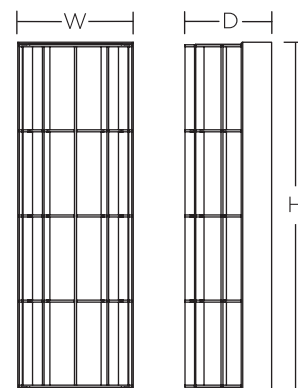
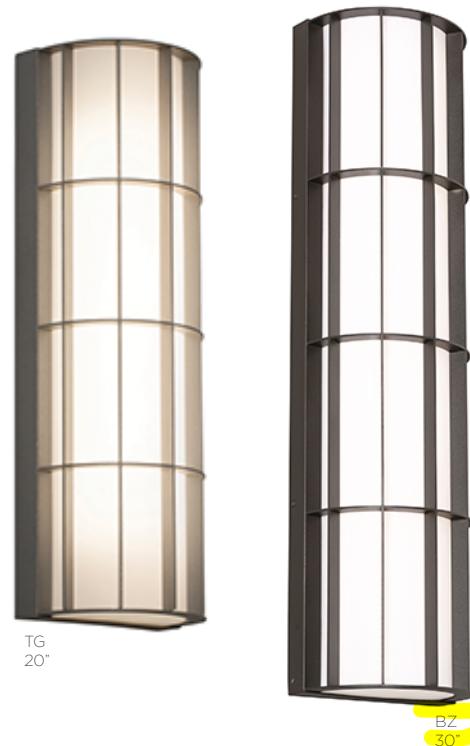
Warranty

Limited warranty: This fixture is free from defects in materials and workmanship for a period of 5 years from date of purchase.

Specifications and dimensions
subject to change without notice.

Ordering Information:

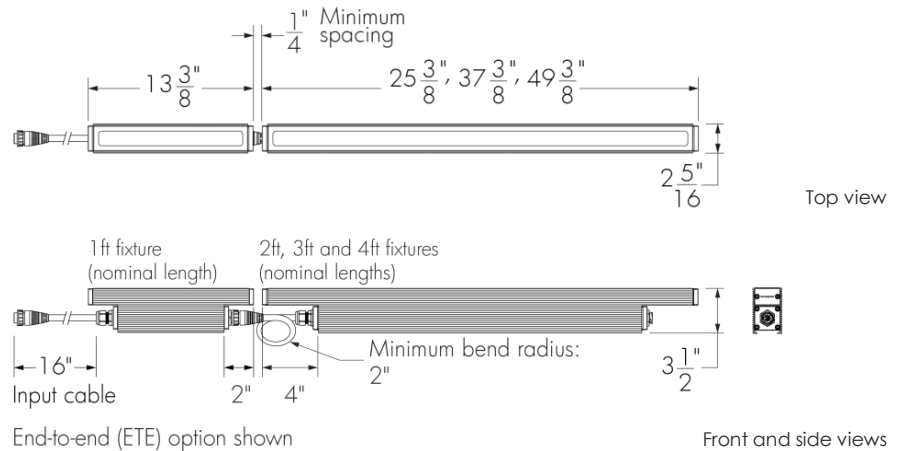
Textured Grey	Textured Bronze	LED	Source Lumens	Delivered Lumens	Adjustable CCT	H	W	D
BDWW041423LAJD2TG*	BDWW041423LAJD2BZ*	20W	2300	780	3000K/3500K/4000K	13-1/2"	4-1/2"	3"
BDWW072033LAJD2TG*	BDWW072033LAJD2BZ*	28W	3300	1150	3000K/3500K/4000K	19-1/2"	6-1/2"	4"
BDWW083035LAJD2TG	BDWW083035LAJD2BZ	36W	3500	1980	3000K/3500K/4000K	30"	8"	5"



Specification Sheet



Project Name _____
Type _____ Catalog / Part Number _____

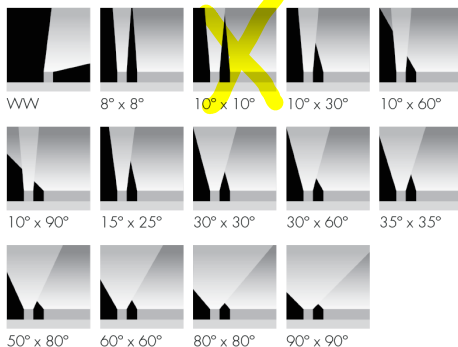


Photometric Summary

	Delivered output (lm)	Intensity (peak cd)
WW	2681	3856
8°x8°	3054	58,209
10°x10°	2862	28,655
10°x30°	2903	22,459
10°x60°	2980	13,266
10°x90°	2690	5902
15°x25°	2948	18,480
30°x30°	2865	11,004
30°x60°	2878	3819
35°x35°	2929	7473
50°x80°	2811	2577
60°x60°	2569	2250
80°x80°	2900	1890
90°x90°	2681	1409

Based on RGBW40K full output, 4ft [1219mm] DMX/RDM configuration.
Photometric performance is measured in compliance with IESNA LM-79-08.

Optics



Description

The Lumenfacade Colour Changing is a high-performance linear LED luminaire designed for grazing or floodlighting exterior facades with colour. This luminaire is available in 12 in, 24 in, 36 in or 48 in sections, and offers a wide number of options, including: a choice of optics for grazing or floodlighting; RGB, RGBW, or RGBA colour mixing; various mounting options, finishes, accessories and controls; as well as Legacy or Custom output modes.

Features

Color and Color Temperature	Additive RGB, Additive RGB + white 3000K, Additive RGB + white 4000K, Additive RGB + amber
Length (nominal)	12 in, 24 in, 36 in, 48 in
Optics	Asymmetric Wallwash, 8° x 8°, 10° x 10°, 10° x 30°, 10° x 60°, 10° x 90°, 15° x 25°, 30° x 30°, 30° x 60°, 35° x 35°, 50° x 80°, 60° x 60°, 80° x 80°, 90° x 90°
Options	End-to-end configuration (factory installed 16 in black input cable included), Corrosion-resistant coating for hostile environments, 3G ANSI C136.31-2010 Vibration Rating for bridge applications, CE (certification covers European Economic Area)
Power Consumption	17.25 W/ft, Typically 20% higher for 12 in fixture lengths
Warranty	5-year limited warranty
Performance	
Maximum Delivered Output	2,828 lm (48 in fixture, RGB full output, 8° x 8°, DMX/RDM), 2,993 lm (48 in fixture, RGBW30K full output, 8° x 8°, DMX/RDM), 3,054 lm (48 in fixture, RGBW40K full output, 8° x 8°, DMX/RDM), 2,510 lm (48 in fixture, RGBA full output, 8° x 8°, DMX/RDM)
Maximum Delivered Intensity	53,888 cd at nadir (48 in fixture, RGB full output, 8° x 8°, DMX/RDM), 57,045 cd at nadir (48 in fixture, RGBW30K full output, 8° x 8°, DMX/RDM), 58,209 cd at nadir (48 in fixture, RGBW40K full output, 8° x 8°, DMX/RDM), 47,819 cd at nadir (48 in fixture, RGBA full output, 8° x 8°, DMX/RDM)

Colors and Color Temperatures



Controls



Ratings

IP66 IK07*

*asymmetric wallwash lens is IK06 rated

Certifications



Illuminance at Distance

Minimum 1 fc at 232 ft (48 in fixture, RGB full output, 8° x 8°, DMX/RDM), Minimum 1 fc at 239 ft (48 in fixture, RGBW30K full output, 8° x 8°, DMX/RDM), Minimum 1 fc at 241 ft (48 in fixture, RGBW40K full output, 8° x 8°, DMX/RDM), Minimum 1 fc at 219 ft (48 in fixture, RGBA full output, 8° x 8°, DMX/RDM)

Lumen Maintenance

L70 280,000 hrs, L95 35,000 hrs

Physical

Housing Material

Low copper content extruded aluminum

Lens Material

Clear tempered glass

Hardware Material

Stainless steel

End Cap Material

Machined aluminum

Gasket Material

Silicone

Surface Finish

Electrostatically applied polyester powder coat

Weight

12 in: 4.5 lbs, 24 in: 7 lbs, 36 in: 10.5 lbs, 48 in: 14 lbs

Electrical and control

Voltage

100 to 277 volts, 347 volts available (consult factory for details)

Fixture Cable

Power and data in one cable, End-to-end option (ETE): 16 in black input cable (no jumper cable needed for minimum spacing between two fixtures)

Leader Cable Conductor

5C #16-5

Control

Lumentalk, DMX/RDM enabled

Resolution (DMX/RDM)

Per foot or per fixture (configured with LumenID V3 software), 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K and RGBA)

RGB Color Mixing

12 LEDs per 12 in (4x Red, 4x Green, 4x Blue)

RGBW30K Color Mixing

12 LEDs per 12 in (3x Red, 3x Green, 3x Blue, 3x White 3000K)

RGBW40K Color Mixing

12 LEDs per 12 in (3x Red, 3x Green, 3x Blue, 3x White 4000K)

RGBA Color Mixing

12 LEDs per 12 in (3x Red, 3x Green, 3x Blue, 3x Amber)

Environmental

Storage Temperature

-40 °F to 185 °F (device must reach start-up temperature value before operating)

Start-up Temperature

-13 °F to 122 °F

Operating Temperature

-40 °F to 122 °F

Ingress Protection Rating

IP66, Wet location rated

Impact Resistance Rating

IK07 (asymmetric wallwash lens is IK06 rated)

Accessories (order separately)

Cables

Leader cable (standard), Jumper cable (standard), Leader cable (ETE), Jumper cable (ETE)

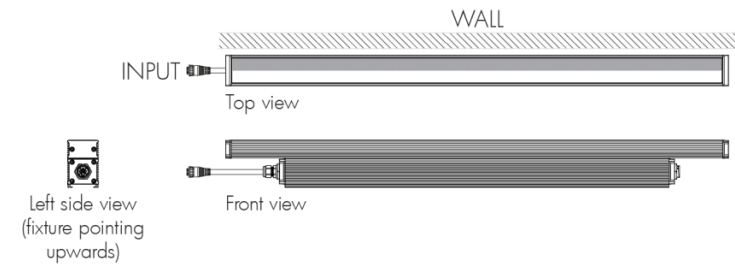
Control Boxes

DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration), Lumentalk Data Bridge

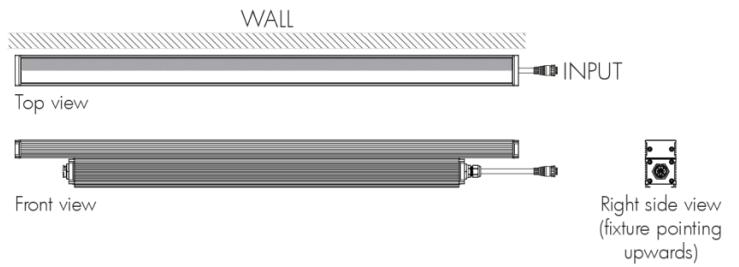
Control Systems	Lumentone™ 2, Pharos® kit
Diagnostic and Addressing Tools	LumenID, LumentalkID

Asymmetric wallwash optic details

WWLF - Asymmetric wallwash optic, left feed



WWRF - Asymmetric wallwash optic, right feed

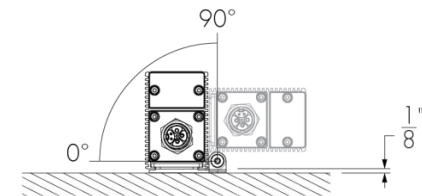


- Always position frosted side toward the wall.
- Fixture's feeding side is based on uplight installations. Feeding sides are reversed when fixture is used in a downlight application.
- Recommended setback from wall is 1/10 of the wall height. Example: 2 ft setback for a 20 ft wall.

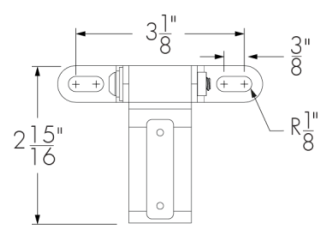
Mounting options

Surface Mount

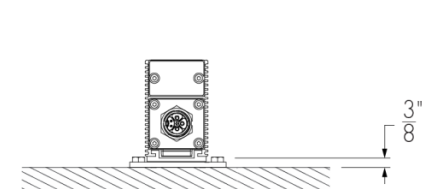
SAM - Slim Adjustable Mounting



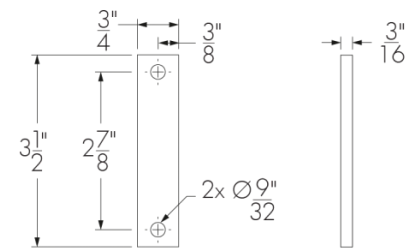
SAM - Mounting hole pattern



UMP - Fixed Mounting

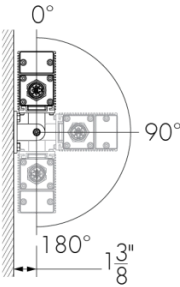


UMP - Mounting hole pattern

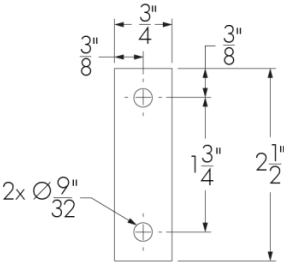


Wall Mount

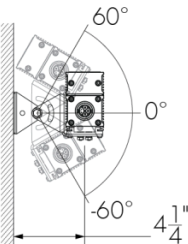
UMAS - Universal Adjustable Mounting



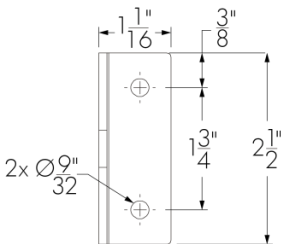
UMAS - Mounting hole pattern



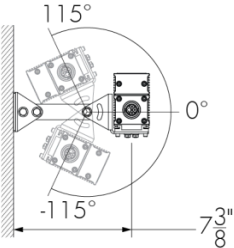
WAM2 - Adjustable Wall Mounting 2 in



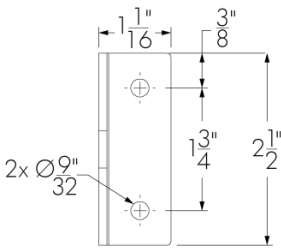
WAM2 - Mounting hole pattern



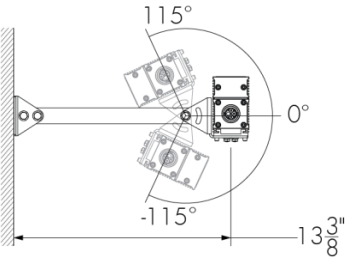
WAM6 - Adjustable Extended Arm Mounting 6 in



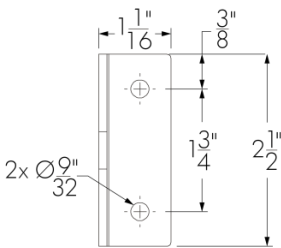
WAM6 - Mounting hole pattern



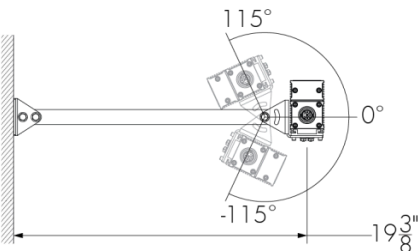
WAM12 - Adjustable Extended Arm Mounting 12 in



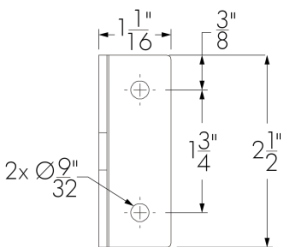
WAM12 - Mounting hole pattern



WAM18 - Adjustable Extended Arm Mounting 18 in



WAM18 - Mounting hole pattern

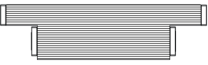


End-to-end configuration option (ETE)

- A** - ETE leader cable (order separately)
B - Lumenfacade with ETE option
C - ETE 1/6 in black input cable (minimum bend radius: 2 in)
D - ETE jumper cable (order separately)

Includes a factory installed 1/6 in black input cable. A jumper cable is not required for minimum spacing between two end-to-end (ETE) fixtures. An ETE jumper cable is required only if a longer distance between two adjacent ETE fixtures is needed, or to connect two continuous runs of ETE fixtures together.

EPA Guide**Fixture**

	LOG 12 in	LOG 24 in	LOG 36 in	LOG 48 in
EPA front (sq ft) 	0.274	0.579	0.980	1.386
EPA side (sq ft) 	0.040	0.040	0.044	0.047

Cables (order separately)**LOGLC - Leader cable for Lumenfacade**

Standard construction

LOGLC-CERTIFICATION-STD-LENGTH-CABLE COLOR



End-to-end (ETE) option

LOGLC-CERTIFICATION-ETE-LENGTH-CABLE COLOR

Please specify:

CERTIFICATION: UL or CE; **LENGTH:** 10 ft, 25 ft, 50 ft, 100 ft, 150 ft or 200 ft; **CABLE COLOR:** black or white (connectors are black as standard; ETE fixture input cables are black as standard)

- Suitable for dimming/data and non-dimming applications.
- Sealing end cap is mandatory for any unused connector. One (1) included with every leader cable.
- Consult Lumenfacade leader cable specification sheet for details.

LOGJC - Jumper cable for Lumenfacade

Standard construction

LOGJC-CERTIFICATION-STD-LENGTH-CABLE COLOR



End-to-end (ETE) option

LOGJC-CERTIFICATION-ETE-LENGTH-CABLE COLOR

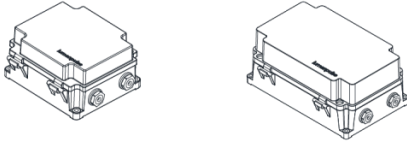
Please specify:

CERTIFICATION: UL or CE; **LENGTH:** 1 ft (available for ETE option only), 2 ft to 30 ft (available in 1 ft increments) or 50 ft; **CABLE COLOR:** black or white (connectors are black as standard; ETE fixture input cables are black as standard)

- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade jumper cable specification sheet for details.

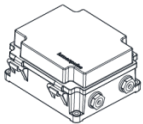
Control boxes (order separately)

CBX-DMX/RDM - DMX/RDM enabled (daisy chain or star configuration)



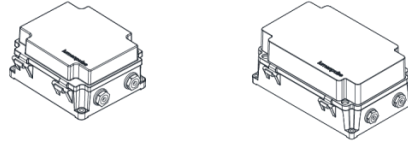
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

LDB - Lumentalk Data Bridge



Lumentalk Data Bridge, 0-10V or DMX output. Consult LDB specification sheet for details.

CBX-ENET - Ethernet enabled (daisy chain or star configuration)



Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

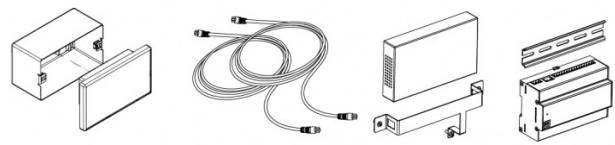
Control systems (order separately)

LTN2 - Lumentone™ 2



Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

PHAROS - Pharos® kit



The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

Diagnostic and addressing tools (order separately)

LID - LumenID



LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

LID-LT - LumentalkID

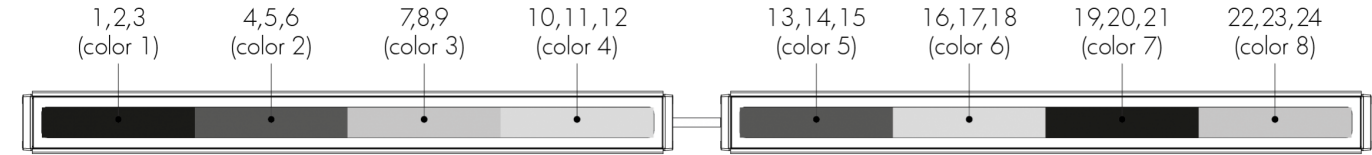


LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

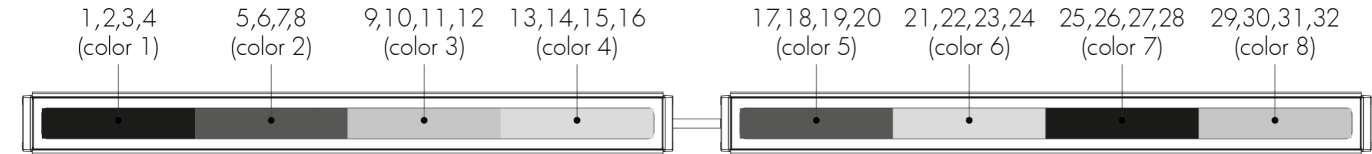
Resolution details

DMX/RDM control, resolution per foot: each 12 in section is addressed independently

DMX addresses:



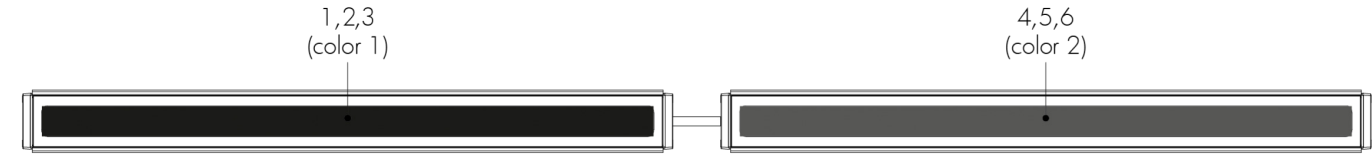
RGB color mixing option



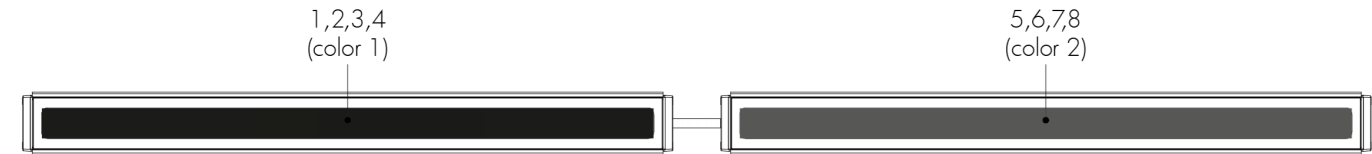
RGBW30K, RGBW40K and RGBA color mixing options

DMX/RDM control, resolution per fixture: each fixture is addressed independently

DMX addresses:



RGB color mixing option



RGBW30K, RGBW40K and RGBA color mixing options

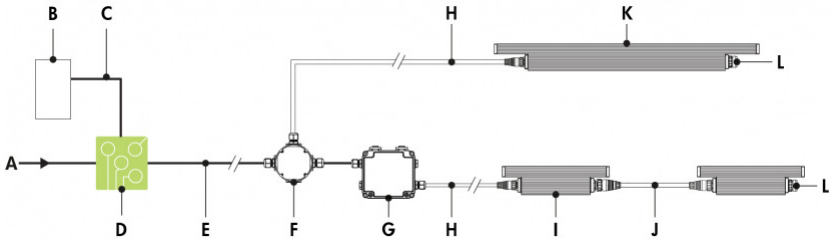
- 48 in fixtures shown.
- Applicable for DMX/RDM control option only. Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled CBX is required.

Typical wiring diagrams

Wiring color code

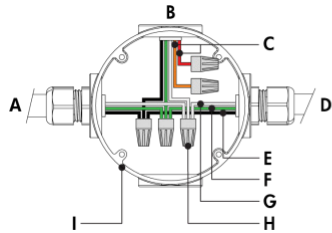
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -

Lumentalk (LT)



- A - Power input (100-277V AC, wiring by others)
- B - DMX/RDM controller (order separately from Lumenpulse, or by others)
- C - Data wiring (by others)
- D - Lumentranslator 2 (LTL2-DMX)
- E - Power wiring (by others)
- F - Junction box (by others)
- G - Lumentalk Data Bridge (LDB-DMX)
- H - Leader cable (LOGLC)
- I - Lumenfacade 12 in
- J - Jumper cable (LOGJC)
- K - Lumenfacade (24 in, 36 in or 48 in fixture lengths)
- L - Sealing end cap

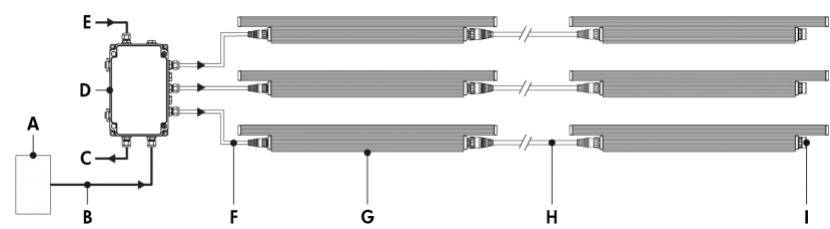
Lumentalk (LT) - wiring detail



- A - Power input (control over power line via Lumentalk system)
- B - To fixture
- C - Not required
- D - To Lumentalk Data Bridge (for run lengths with 12 in fixtures)
- E - Line
- F - Ground
- G - Line/Neutral
- H - Wire-nuts (by others)
- I - Junction box (by others)

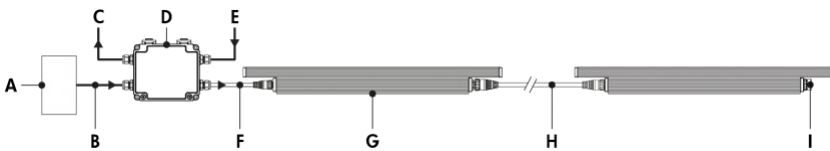
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk Data Bridge required for 12 in fixture lengths, see LDB installation instructions for details. Fixtures must be specified as DMX/RDM and the Lumentalk Data Bridge must be specified as DMX. 2-step commissioning process: 1 - DMX/RDM system using LumenID software and a LID, 2 - Lumentalk system using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 32 fixtures per LDB-DMX. Consult factory for details.
- 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 1 minute). Consult factory for applications that require additional capabilities.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.
- 17.25 W/ft.

Star Layout (DMX/RDM)



- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-ST
- E - Power input (100-277V, wiring by others)
- F - Leader cable (LOGLC)
- G - Lumenfacade
- H - Jumper cable (LOGJC)
- I - Sealing end cap

Daisy Chain Layout (DMX/RDM)



- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (100-277V, wiring by others)
- F - Leader cable (LOGLC)
- G - Lumenfacade
- H - Jumper cable (LOGJC)
- I - Sealing end cap

Maximum Run of Fixtures, Lumenfacade® LOG Color Changing 17.25 W/ft

Voltage	120V	240V	277V
Maximum Run of Fixtures*	68ft	80ft	88ft

Based on 15A maximum, 50ft leader cable.
*Example: 120V = 68ft maximum run of end to end fixtures (17 fixtures maximum for 4ft LOG).

Based on 15A maximum, 50 ft leader cable.

- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations. Maximum run length calculations are typically based on 48 in fixtures.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST; maximum of 1 output per CBX-DS.
- RGB color mixture option requires 3 DMX addresses. RGBW30K and RGBW40K color mixture options require 4 DMX addresses. RGBA color mixture option requires 4 DMX addresses.
- 17.25 W/ft.

How to order

Housing ⁽¹⁾	Voltage ⁽²⁾	Length	Color and Color Temperature	Optics	Mounting Options	Finish	Control	Options
LOG Lumenfacade™	100 100 volts 120 120 volts 208 208 volts 220 220 volts 240 240 volts 277 277 volts	12 13 3/8 in (4.5 lbs) ⁽¹¹⁾ 24 25 3/8 in (7 lbs) 36 37 3/8 in (10.5 lbs) 48 49 3/8 in (14 lbs)	RGB Additive RGB RGBW30K Additive RGB + white 3000K ⁽⁴⁾ RGBW40K Additive RGB + white 4000K ⁽⁴⁾ RGBA Additive RGB + amber	WWLF Asymmetric Wallwash, left feed WWRF Asymmetric Wallwash, right feed 8x8 8° x 8° ⁽⁵⁾ 10x10 10° x 10° ⁽⁵⁾ 10x30 10° x 30° 10x60 10° x 60° 10x90 10° x 90° 15x25 15° x 25° 30x30 30° x 30° 30x60 30° x 60° 35x35 35° x 35° 50x80 50° x 80° 60x60 60° x 60° 80x80 80° x 80° 90x90 90° x 90°	SAM Slim Adjustable Mounting UMP Fixed Mounting ⁽⁶⁾ UMAS Universal Adjustable Mounting ⁽⁶⁾ WAM2 Adjustable Wall Mounting 2 in WAM6 Adjustable Extended Arm Mounting 6 in WAM12 Adjustable Extended Arm Mounting 12 in WAM18 Adjustable Extended Arm Mounting 18 in	BK Black Sandtex® BRZ Bronze Sandtex® SI Silver Sandtex® WH Smooth white CC Custom color and finish (please specify RAL color) ⁽⁷⁾ ⁽⁸⁾ ⁽⁹⁾	LT Lumentalk ⁽³⁾ ⁽¹⁰⁾ ⁽¹¹⁾ DMX/RDM DMX/RDM enabled ⁽¹²⁾	ETE End-to-end configuration (factory installed 16 in black input cable included) CRC Corrosion-resistant coating for hostile environments ⁽¹³⁾ ⁽¹⁴⁾ 3GV 3G ANSI C136.31-2010 Vibration Rating for bridge applications ⁽¹⁵⁾ CE CE (certification covers European Economic Area) ⁽¹⁶⁾

- Notes:
1. Power consumption is typically 20% higher for 12 in fixture lengths.

2. 347 volts available, consult factory for details.

3. To connect 12 in fixture lengths to the Lumentalk system, DMX/RDM must be specified as the control option, and a Lumentalk Data Bridge (LDB-DMX) is required. See the typical wiring diagrams in the specification sheet for details.

4. 2700K, 3500K and Royal Blue available, consult factory. Longer lead times apply.

5. For best results, we recommend a 6 in setback from surface. Contact factory for application support.

6. Suitable to use when 3GV option is specified.

7. Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.

8. Setup charges apply for RAL colors. Consult factory for details.

9. Longer lead times can be expected for custom RAL color finishes.

10. Available for 24 in, 36 in and 48 in fixture lengths only.

11. A Lumentranslator 2 (LTL2) and LumentalkID (LIDL) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

12. A control box (CBX) and LumenID (LID) must be specified.

13. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

14. Setup charges apply. Consult factory for details.

15. Available with UMP and UMAS mounting options only.

16. Consult European specification sheet and installation instructions for CE wiring information.

F51 - Landscape

ASPEN LED

12V/120V LED



Specifications

Weight:	1.6 lbs.
H:	5.85" (149mm) w/C1
	6.79" (172mm) w/C2
	8.65" (220mm) w/C3

HIGHLIGHTS

- Accent lights are suitable for a variety of mounting applications including ground, wall, tree, sign and architectural accents
- Suitable for wet locations
- Integral driver for 120V
- Dimmable using standard Triac dimmer for 120V and dimmable using standard MLV dimmer and magnetic transformer for 12V
- Tapered-sure lock
- Available in 80CRI and 90CRI
- 1,100lm



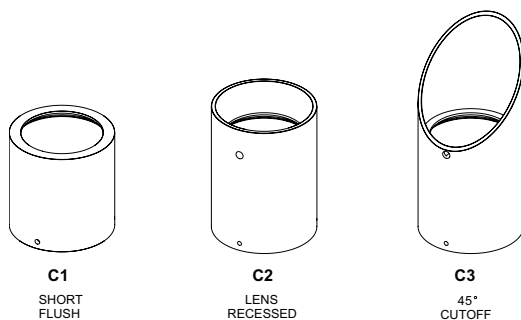
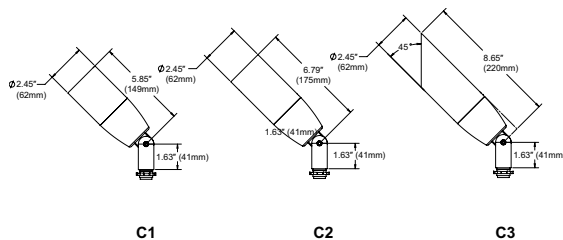
5
YEAR
warranty

66
IP RATED

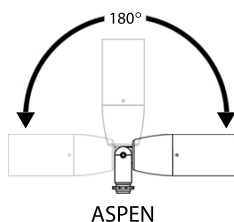


Buy American

DIMENSIONS



AIMING DETAILS

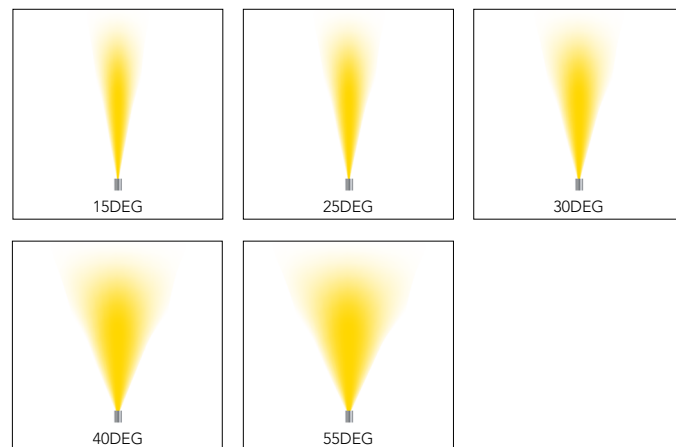


LUMEN PACKAGES

	15DEG	20DEG	25DEG	30DEG	35DEG	40DEG	45DEG	50DEG	55DEG
Delivered Lumens	685	623	659	642	674	656	634	639	641
Watts	11	11	11	11	11	11	11	11	11
LPW	62	57	60	58	61	60	58	58	58
Peak Candela	5,056	2,725	2,827	1830	1569	1212	982	742	664

Note: Information based on 4000K @ P1, 80CRI, 120 Volt with C1 cap and FLC lens

STANDARD DISTRIBUTION



ORDERING INFORMATION

EXAMPLE: ASPEN SS P1 80CRI 30K 12 20DEG WSL KM C1 BL

ASPEN												
Series*	Material*	Performance Packages*	CRI*	Color Temperature*	Voltage*	Distribution*	Lens*	Mounting*				
ASPEN	A Aluminum	P1	80CRI	27K	12 ¹ 12Vac	15DEG 15° 40DEG 40°	FLC Flat Clear	KM Knuckle				
	BR Brass	P2	90CRI	30K	120 ² 120Vac	20DEG 20° 45DEG 45°	WSL Watershed	350R 350° rotational knuckle				
	SS Stainless Steel	Note: P2 only available with 12volt		35K	Note: 120V only available with P1	25DEG 25° 50DEG 50°						
	40K			30DEG 30° 55DEG 55°								
	50K			35DEG 35°								
Note: 35k and 50K only available with 80CRI												
Mounting Accessories <i>Optional</i>				Options ⁶ <i>Optional</i>		External Caps*		Finish*				
<u>Independent Mounting</u>			<u>Stems</u>		<u>Internal Louver</u>		C1 Short Flush		<u>All Material</u>		<u>Brass Only</u>	
JBA	Aluminum J-Box		S3 ³	3" Stem	IHL Honeycomb Louver	C2 Recessed Lens	BL Black Textured	BRZ Satin Bronze w/ Satin Clear				
JBB	Bronze J-Box Architectural		S6 ³	6" Stem	<u>Internal Accessory</u>	C3 45° Angle Cut	BRS Bronze Smooth	NAT Natural Brass w/ Satin Clear				
ARJB	J-Box, Aluminum		S__ ³	12" - 24" stems, available in 6" increments		L1 Prismatic Lens	BRT Bronze Textured	POL Polished Brass w/ Gloss Clear				
CN4	4" rectangular canopy		S3BR ⁴	3" Stem Brass		L2 Linear Spread Lens	DBL Black Smooth	<u>Stainless Only</u>				
CN4BR	4" rectangular canopy, brass		S6BR ⁴	6" Stem Brass	L3 Softening Lens	DDB Designer Bronze	BRSS Brushed Stainless Steel					
CN5	5" round canopy		S__BR ⁴	12" - 24" stems, available in 6" increments	<u>Internal Filters</u>	DNA Natural Aluminum	NSS Natural Stainless Steel					
CN5BR	5" round canopy, brass				FA Amber	NBS ⁷ Natural Bronze Smooth	PSS Polished Stainless Steel					
CN5SS	5" round canopy, stainless				FG Green	STG Steel Gray						
WMC	Wall Mount Cover				FGD Green Dichroic	VET Verde Textured						
WMSA	Wall Mount with Splice Access				FLB Light Blue	WH White Textured						
STK ⁸ Mounting Stake					FM Mercury Vapor	WHS White Smooth						
TRA ⁸	Tree Mounted J-Box, Aluminum		FMB Medium Blue	CF Custom Finish								
TRB ⁸	Tree Mounted J-Box, Bronze		FMBD Medium Blue Dichroic	RALTBDD Ral Paint Finishes								
_TRAS ⁸	Tree Mounted J-Box with Aluminum mounting strap, available with 1-4 JBoxes per strap		FR Red	<u>Z⁹</u> Zinc Undercoat (i.e. BLZ)								
_TRBS ⁸	Tree Mounted J-Box with Bronze mounting strap, available with 1-4 JBoxes per strap		FRD Red Dichroic									
PM60A ⁸	Adjustable Post Mount											
PMBR60A ⁸	Adjustable Post Mount - Bronze											
PM60C	Post Mount with Conduit											
PMBR60C	Post Mount with Conduit - Bronze											
PM60D ⁸	Post Mount with Open Bottom											
PMBR60D ⁸	Post Mount with Open Bottom - Bronze											

*Required Fields

Notes:

- Remote transformer required. Options for [remote transformers](#).
- Integral Driver.
- Aluminum stems only compatible with PM60A, PM60C and PM60D.
- Brass stems only compatible with PMBR60A, PMBR60C and PMBR60D.
- Extended arms compatible with WMC and WMSA.
- Up to 2 options can be specified.
- NBS paint uses specialty pigments to give a natural appearance that may vary by fixture.
- Only available with 12 volt.
- Zinc undercoat for harsh environments

PERFORMANCE DATA

LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Distribution Type	Field Angle		Beam Angle		27K (2700K, 80CRI)			30K (3000K, 80CRI)			35K (3500K, 80CRI)			40K (4000K, 80CRI)			50K (5000K, 80CRI)		
			°H	°V	°H	°V	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW
P1 12 Volt	8	15DEG	33	33	19	19	5,180	702	88	5,374	728	91	5,471	741	93	5,665	768	96	5,858	794	99
		20DEG	45	45	22	22	2,792	639	80	2,897	663	83	2,949	675	84	3,053	699	87	3,158	722	90
		25DEG	44	44	24	24	2,897	675	84	3,005	700	88	3,060	713	89	3,168	738	92	3,276	764	96
		30DEG	56	56	30	30	1,875	658	82	1,945	682	85	1,980	694	87	2,050	719	90	2,120	744	93
		35DEG	57	56	37	36	1,608	691	86	1,668	717	90	1,698	729	91	1,758	755	94	1,818	781	98
		40DEG	65	64	41	40	1,242	672	84	1,288	697	87	1,311	710	89	1,358	735	92	1,404	760	95
		45DEG	74	73	45	44	1,006	650	81	1,044	674	84	1,063	686	86	1,100	711	89	1,138	735	92
		50DEG	86	85	53	51	760	654	82	788	679	85	802	691	86	831	716	90	859	740	93
P2 12 Volt	12	55DEG	93	93	56	54	681	657	82	706	682	85	719	694	87	744	719	90	770	743	93
		15DEG	33	33	19	19	7,012	950	79	7,274	986	82	7,405	1,003	84	7,667	1,039	87	7,930	1,074	90
		20DEG	45	45	22	22	3,780	865	72	3,921	897	75	3,992	913	76	4,133	945	79	4,274	978	82
		25DEG	44	44	24	24	3,921	914	76	4,068	948	79	4,141	965	80	4,288	999	83	4,435	1,033	86
		30DEG	56	56	30	30	2,538	890	74	2,632	923	77	2,680	940	78	2,775	973	81	2,870	1,006	84
		35DEG	57	56	37	36	2,176	935	78	2,257	970	81	2,298	987	82	2,379	1,022	85	2,461	1,057	88
		40DEG	65	64	41	40	1,681	909	76	1,744	943	79	1,775	960	80	1,838	994	83	1,901	1,028	86
		45DEG	74	73	45	44	1,362	880	73	1,413	912	76	1,438	929	77	1,489	962	80	1,540	995	83
		50DEG	86	85	53	51	1,029	886	74	1,067	919	77	1,086	935	78	1,125	968	81	1,163	1,002	84
		55DEG	93	93	56	54	921	889	74	956	923	77	973	939	78	1,007	973	81	1,042	1,006	84

Performance Package	System Watts	Distribution Type	Field Angle		Beam Angle		27K (2700K, 80CRI)			30K (3000K, 80CRI)			35K (3500K, 80CRI)			40K (4000K, 80CRI)			50K (5000K, 80CRI)		
			°H	°V	°H	°V	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW
P1 120 Volt	11	15DEG	33	33	19	19	4,568	619	56	4,710	638	58	4,755	644	59	5,056	685	62	5,078	688	63
		20DEG	45	45	22	22	2,463	563	51	2,539	581	53	2,563	586	53	2,725	623	57	2,737	626	57
		25DEG	44	44	24	24	2,555	595	54	2,634	614	56	2,659	620	56	2,827	659	60	2,840	662	60
		30DEG	56	56	30	30	1,653	580	53	1,704	598	54	1,721	603	55	1,830	642	58	1,838	645	59
		35DEG	57	56	37	36	1,418	609	55	1,461	628	57	1,475	634	58	1,569	674	61	1,576	677	62
		40DEG	65	64	41	40	1,095	592	54	1,129	611	56	1,140	617	56	1,212	656	60	1,217	659	60
		45DEG	74	73	45	44	887	573	52	915	591	54	924	596	54	982	634	58	986	637	58
		50DEG	86	85	53	51	670	577	52	691	595	54	697	601	55	742	639	58	745	641	58
		55DEG	93	93	56	54	600	580	53	619	597	54	625	603	55	664	641	58	667	644	59

CRI SCALING	Multiplier
90CRI	0.83

Note: Information based on ASPEN 12 volt

CRI SCALING	Multiplier
90CRI	0.77

Note: Information based on ASPEN 120 volt

EXTERNAL CAP	Multiplier
C2	0.70
C3	0.965

OPERATING TEMPERATURE: -20°C through 45°C (120v, Aluminum Material)
-20°C through 50°C (12v, Aluminum Material)
-20°C through 30°C (120v and 12v, Stainless Steel and Brass Material)

PHOTOMETRIC DIAGRAMS

To see complete photometric reports or download .ies files for this product, visit www.hydrel.com

FEATURES & SPECIFICATIONS

MATERIAL: Body, caps and knuckle machined from 6061-T6 aluminum. BR - machined from 360 brass. SS- machined from 304 stainless steel.

LIGHT SOURCE: Proprietary high output LED's. Units have near constant light output when supplied with 11VAC-14VAC to combat voltage drop. All within 3 MacAdam ellipses.

VOLTAGE: 12 Volt AC, 120 volt AC.

DISTRIBUTION: Available 15DEG, 20DEG, 25DEG, 30DEG, 35DEG, 40DEG, 45DEG, 50DEG, 55DEG

LENS: FLC - Cut from heat strengthened borosilicate glass for superior clarity and strength. WSL - Molded heat strengthened borosilicate glass for superior clarity and strength, where the glass and the top of the door are flush to allow water to shed off the fixture.

MOUNTING: Knuckle to mount to 7/8" thru hole.

POWER SUPPLY: Remote 12VAC transformer, purchased separately. For 120VAC driver is integral. 12VAC dimmable using a remote magnetic transformer. 120V AC dimmable using a standard Triac dimming switch/systems.

FINISH: Super durable polyester TGIC powder coat finish (standard). Optional zinc undercoat for harsh environments.

FEATURES: Tapered "Sure Lock" knuckle seat for infinite aiming and an unparalleled locking ability. Any combination of up to 2 lens accessories/color filter/shielding can be specified in any cap style and are held securely by a removable stainless steel clip ring.

BUY AMERICAN: Hydrel products are assembled in the USA. Our products meet the Buy America(n) government procurement requirements under FAR, DFARS, and DOT. Please refer to www.acuitybrands.com/resources/buy-american

LISTING: cCSAus, Wet location. Laboratory tests conducted by CSA to UL Standards UL-1598, UL-8750 and UL-1838. IP66 Rated.

WARRANTY: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Consult factory for details

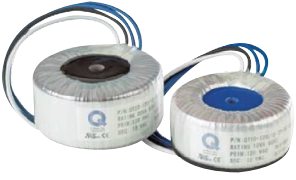
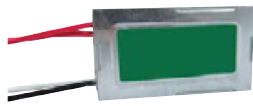
NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

REMOTE TRANSFORMERS

Transformers may be loaded to 100% capacity, however the recommended load range for optimal efficiency is 40-80%.

Non-Isolated Transformers: Suitable for use with landscape type lighting

Isolated Transformers: Suitable for use with underwater and landscape type lighting

		Part #
	• 10 and 20 watts, 120V to 12VAC or 277V to 12VAC magnetic • Must be mounted in a listed weatherproof enclosure • Dimmable by using a magnetic low voltage dimmer switch • Non-Isolated • Suitable for LED	Examples: TM10 120 TM10 277 TM20 120 TM20 277 See spec sheet for more options
	• 100 watts, 120V to 12VAC or 277V to 12VAC magnetic • Rated for outdoor surface mount, minimum of 12" above finished grade with the wire connection terminals facing down • Resettable circuit breaker • Two 1/2" knock-outs in the side • Dimmable by using a magnetic low voltage dimmer switch • Non-Isolated • Suitable for LED	Example: TM100 120 TM100 277 See spec sheet for more options
	• 200, 300, 600 and 900 watts, 120V to 12VAC or 277V to 12VAC magnetic • Rated for outdoor surface mount, minimum of 12" above finished grade with the wire connection terminals facing down • Multi-tap secondary output allowing 12-15 Volt • Internal on/off switch-circuit breaker • Five "knock-outs" in the bottom cover plate (two 1/2", two 3/4" and one 1-1/2") • Dimmable by using a magnetic low voltage dimmer switch • Non-Isolated • Suitable for LED	Example: TM200 120 TM200 277 TM300 120 TM300 277 TM600 120 TM600 277 TM900 120 TM900 277 See spec sheet for more options
	• 15watts, 120V to 12VAC, electronic • Maximum remote distance is 10' • Non-Isolated Suitable for LED	Example: TE15 120 See spec sheet for more options
	• 60 and 75 watts 120V to 12VAC or 277V to 12VAC electronic • Maximum remote distance is 10' • Non-Isolated Suitable for LED	Examples: TE60 120 TE75 120 TE75 277 See spec sheet for more options

REMOTE TRANSFORMERS

Transformers may be loaded to 100% capacity, however the recommended load range for optimal efficiency is 40-80%.

Non-Isolated Transformers: Suitable for use with landscape type lighting

Isolated Transformers: Suitable for use with underwater and landscape type lighting

		Part #
	• Stepdown transformers are two winding isolated type • Two separate wiring compartments isolate primary and secondary leads • Housed in weatherproof enclosure • Meets requirements of article 680 N.E.C. Listed by U.L. • 100 watt 120/12,13,14 ac (T1901) • 300 watt 120/12,13,14 ac (T1903) • 900 watt 120,12,13,14 ac (T1904) • 500 watt 120/12,13,14 ac (1905) • Dimmable by using magnetic low voltage dimmer switch • Isolated - can be used near underwater application • Suitable for LED	Examples: T1901 (100watts) T1903 (300watts) T1904 (900 watts) T1905 (500 watts) See spec sheet for more options
	• Ground power post mount • 15 watts, 120V to 12V AC, electronic • Non-Isolated, suitable for LED • Non-Dimmable • Stem length available from 3" to 36"	Examples: PM60B ET15 120 S3 BL PMBR60B ET15 120 S6 POL See spec sheet for more options
	• Wall mount power box • 15 watts, 120V to 12V AC, electronic • 20 watts, 120V to 12V AC, magnetic • ET15 - Electronic is non-dimmable • M20 - Magnetic is dimmable using low voltage magnetic dimmer switch • Non-isolated, suitable for LED	Examples: WP2J ET15 120 12C BL WP2S M50 120 34C BRS See spec sheet for more options
	• 300 watt • A combination junction box and transformer box • Box includes a junction box, transformer housing, and anti-wicking chamber to prevent water being drawn from the conduit into the transformer housing • Completely pre-wired with interconnecting leads which are terminated and embedded in high temperature sealing compound to prevent wicking • M300 watt 120 or 277 volt can be used with LED 12VAC • M300 Dimmable using low voltage magnetic dimmer switch • Suitable for LED • Non-Isolated	Examples: BPTA or BPTB See spec sheet for more options

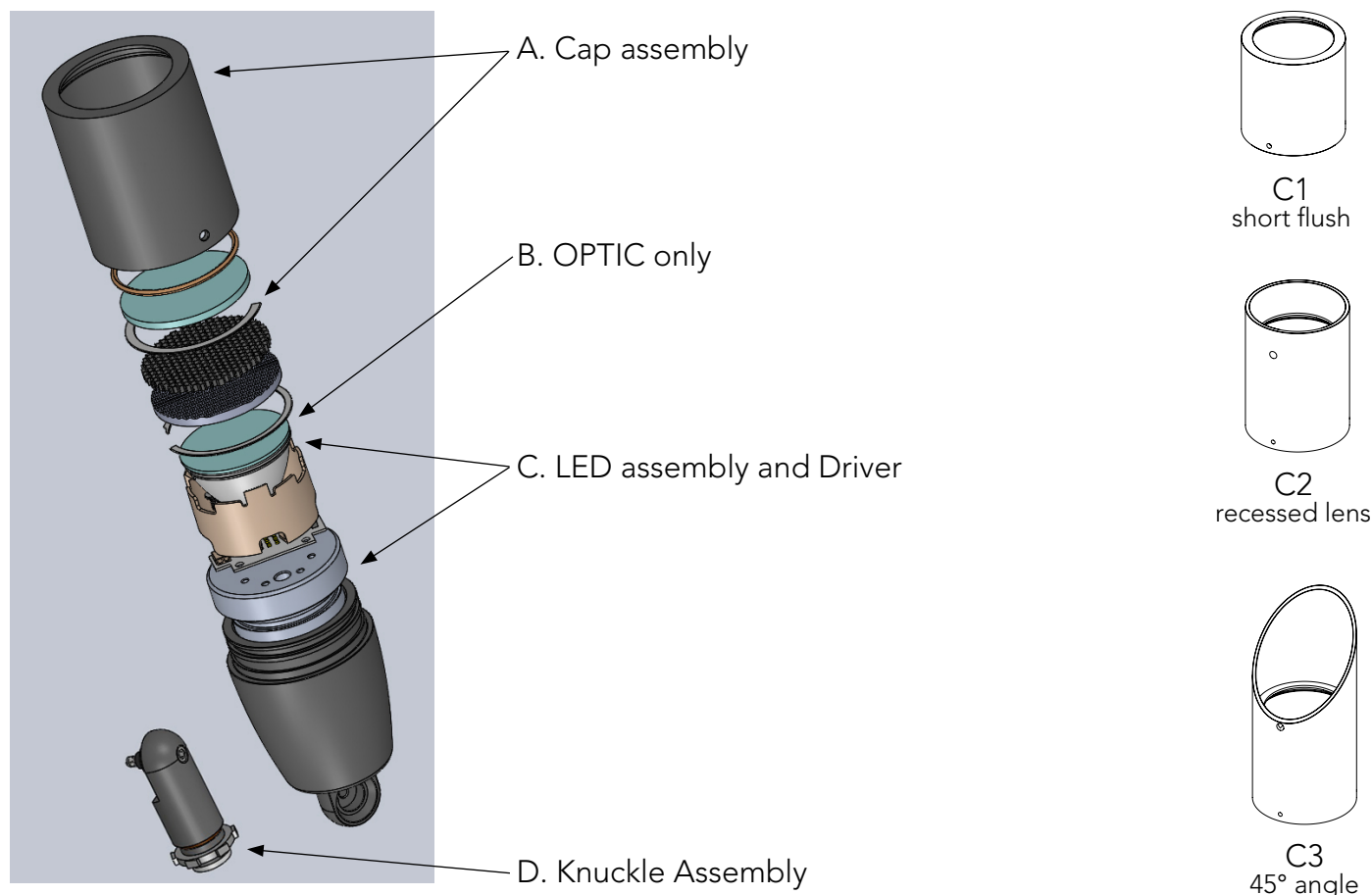
ACCENT MOUNTING ACCESSORIES

		Part #
	- JBA/JBB Junction box for direct fixture mounting - Available in cast bronze or aluminum - Used where splicing is required for single or multiple fixtures Drilled and tapped to specified requirements - May be Ground or wall mounted	Examples: JBA 34E 34F 78G BL JBB 12A 12C 78G See spec sheet for more options
	- ARJB Architectural Junction Box - Available in cast aluminum - For direct mounting of a single lighting fixture - Designed for architectural and landscape application Recommended for mounting on a rigid metallic conduit	Example: ARJB 12B 78C BL See spec sheet for more options
	- CN4 wall plate canopy - Available in aluminum or brass - Shape rectangular to mount over a standard switch box - Thru hole sized for standard 1/2 pipe thread - Fixtures secured via locking nut (for thru hole) or threaded knuckle	Example: CN4 78C BL See spec sheet for more options
	- CN5 wall mount canopy - Available in Aluminum, Brass or stainless steel - Shape round to mount over a standard 4" round or octagonal box. Thru hole sized for standard 1/2 pipe thread - Fixture secured via locking nut (for thru hole) or threaded knuckle	Example: CN5 78C BL See spec sheet for more options
	- WMC wall mount cover - Available in cast aluminum - Wall mount cover or mounting fixture over wall box (by others)	Examples: WMC 78C BL See spec sheet for more options
	- WMSA wall mount splice access - Available in cast aluminum - Wall mount with splice access plate for mounting a variety of fixtures - Integral splice access compartment for easy fixture connections - To be mounted over a recessed wall box	Example: WMSA 78C BL See spec sheet for more options

ACCENT MOUNTING ACCESSORIES

		Part #
	- TRA/TRB tree mount junction box - Available in cast aluminum or bronze Includes a splice box with a mounting plate - Placement of small accent fixtures around or on a structure, like a tree	Examples: TRA 12B 78C BL TRB 12B 78C See spec sheet for more options
	- TRAS/TRBS tree mount junction box with strap. - Available in cast aluminum or bronze - Includes one or more splice boxes with a polypropylene strap - Placement of small accent fixtures around the trunk or branch of a tree	Examples: 2TRAS 12B 78C DDB 1TRBS 12B 78C See spec sheet for more options
	- STK ground mounting stake - Low voltage portable installations only - UV Stable plastic	Example: STK See spec sheet for more options
	- Post Mounts PM60A, PM60C and PM60D Ground Mounting posts - Available in aluminum or brass - Suitable for fixtures with 1/2" knuckles - Fixtures are secured with a locking nut - PM60A and PM60D are used only with low volt fixtures - PM60C can be used with low or line voltage fixtures - Optional stems are offered in lengths from 3" to 36"	Examples: PM60A S3 BL PMBR60C S12BR BRS PM60D BL See spec sheet for more options
	- EA-Extended Arms - Available in lengths 12", 24" and 36" - Available in angles 45° and 90° - Material available in aluminum - Extended arms are compatible with WMC and WMSA wall mounts	Examples: WMC EA12 12C BL WMSA EA4512 12C BRS
	- Tree Ring TRAR 2FX, TRAR 3FX, TRAR 4XF, TRAR 5FX, TRAR 6FX - Stainless Steel Ring and Hardware - Can accommodate trees between 10" to 15" in diameter - Available in 2, 3, 4, 5 and 6 fixture configurations	Examples: TRAR 5FX 12S 12C BL TRAR 3FX 12S 12C BRS Note: TRAR is sold separately. See spec sheets for options

ASPEN SPARE PARTS LIST



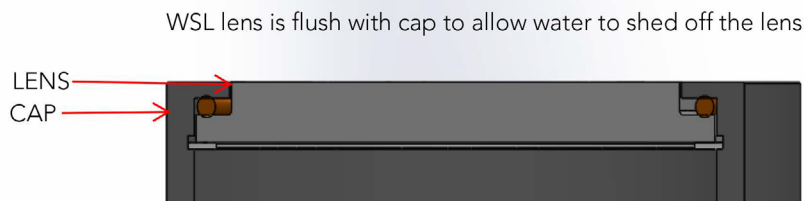
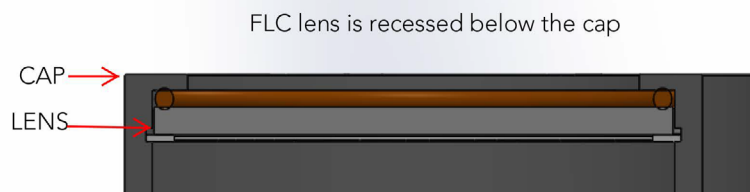
Part Number	Description
A. Cap Assembly CAPAASPEN C1 XX'XXX'XXX' CAPAASPEN C2 XX'XXX'XXX' CAPAASPEN C3 XX'XXX'XXX' 1. Available material finishes: A, BR, SS 2. Available lens: FLC, WSL 3. Add paint finish	Cap Assembly will include the cap, lens and o-ring
B. OPTIC only OPTASPEN XX'	One piece snap on optic only
C. LED Assembly+ Driver module LEDAASPEN XX'XXX'XXX'XXX'XXX'	Includes LED array, optics, encapsulated driver (120v)
D. KAASPEN XX'XXX'XXX' 1. Available material finishes: A, BR, SS 2. Available knuckle: KM, 350R 3. Add paint finish	Knuckle Assembly

ASPEN INTERNAL ACCESSORIES

Internal Accessories can be ordered separate and are field replaceable

	INTERNAL HONEYCOMB LOUVER • Hexagonal cell louver with 45° cut-off • includes retaining ring	Example: IHLASPEN
	INTERNAL ACCESSORY LENSES • L1 Prismatic Lens • L2 Linear Spread Lens • L3 Softening Lens • includes retaining ring	Examples: LAASPEN L1 LAASPEN L2 LAASPEN L3
	INTERNAL COLORED FILTERS • FA Amber • FG Green • FGD Green Dichroic • FLB Light Blue • FM Mercury Vapor • FMB Medium Blue • FMBD Medium Blue Dichroic • FR Red • FRD Red Dichroic • includes retaining ring	Examples: CFASPEN FA CFASPEN FG CFASPEN FGD CFASPEN FLB CFASPEN FM CFASPEN FMB CFASPEN FMBD CFASPEN FR CFASPEN FRD

The difference between the FLC and WSL lens

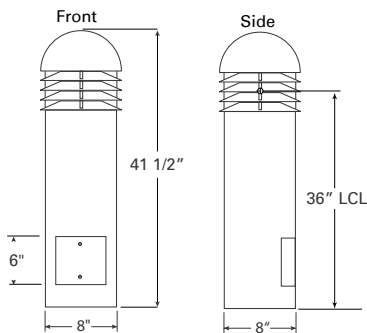




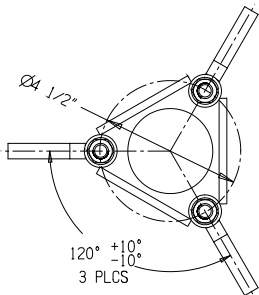
Specifications

Diameter:	9"
	229 mm
Diameter ² :	8"
	204 mm
Height:	42"
	1016 mm
Height ² :	36"
	915 mm
Weight:	35lbs

DIMENSIONS



MOUNTING



3110C LED

Impact Resistant Round Bollard Dome Top

HIGHLIGHTS

- A confident solution for safety and performance in a proven vandal resistant bollard
- Motion Sensing Bi-Level switching using electromagnetic occupancy sensor → 20ft range
- USB receptacle or GFCI receptacle options
- 0-10V Dimming, ELV dimming
- Emergency operation up to 90 minutes
- 1810 lumens

5
YEAR
warranty

LED

IP65


Buy
American

LUMEN PACKAGES

	SYM
Delivered Lumens	1810
Watts	84
LPW	22

Note: Information Based on 50K

ORDERING INFORMATION

EXAMPLE: 3110C H36 8COB 50K MVOLT SYM BL

Series	Height	Lamp type	Color	Voltage	Distribution	Options ⁴
3110C	H24 H36 H42	4COB ¹ 8COB	20K 2000°K Color Temp 30K 3000°K Color Temp 40K 4000°K Color Temp 50K 5000°K Color Temp AMBLW Limited wavelength Amber 591 Nanometers	MVOLT (120-277 volt) 120 ² 277 ² 347	SYM Symmetrical 360° FT ³ Forward Throw	BLS ^{5,6} Bi-Level Switching (Motion Activated) GFCI Receptacle; 120 volt only, cannot be used with USB ELN ^{5,7} Emergency Operation (1387.5 lumen output; 90 minutes) LDIM 0-10V Dimming (Dims to 10%) IDIM ⁵ In-line Trailing Edge ELV Dimming (Dims to 40%); 120 volt only USB USB charging port, 120 volt only, cannot be used with GFCI
Finish						
BL Black	STG Steel Gray	Optional Louvers Painted⁹ ___/PL Louvers painted to match fixture (top only)				
BZ Bronze	TVG Terra Verde Green					
DDB Dark Bronze	WH White					
DNA Natural Aluminum	CF Custom					
GN Green	Z ⁹ Zinc Undercoat					
GR Gray	RALTB D RAL Paint Finishes					
SND Sand	Note: RALTB D for pricing only, replace with applicable RAL call out when ready to order. See the RALBROCHURE for available options. It is recommended that Hydrel products only use textured paint.					

ELECTRICAL LOAD

Light Engines	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
8 COB	250mA	72.35	0.603	0.348	0.301	0.261	0.209	0.151
	300mA	83.95	0.700	0.404	0.350	0.303	0.242	0.175

PROJECTED LED LUMEN MAINTENANCE

Data references the extrapolated performance projections for the Fixture platform in a 25°C ambient, based on 13,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.91	0.85	0.75

Notes:

- 4COB for use with 20K and AMBLW only, 20K and AMBLW require 4COB.
- Required with ELN or BLS.
- FT not available with BLS.
- BLS is not available with ELN, LDIM or IDIM.
- ELN and BLS require 120 or 277 voltage, not MVOLT or 347.
- Drive current will be 250.
- ELN not available on 24" height.
- Add zinc undercoat for harsh environments.
- Louvers will be black unless otherwise specified (top only).

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

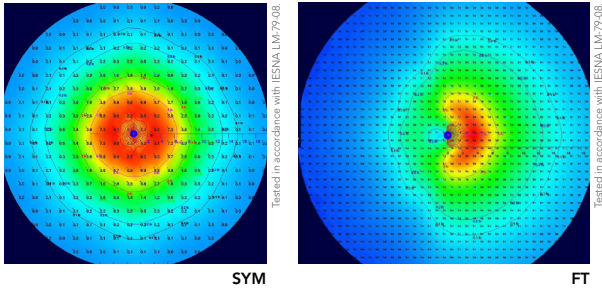
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	1.05
10°C	1.03
20°C	1.01
25°C	1.00
30°C	0.99
40°C	0.98

Lighting facts [®]		HYDREL
A Program of the U.S. DOE		
Light Output (Lumens)	1534	
Watts	83.95	
Lumens per Watt (Efficacy)	18	
Color Accuracy	84	
Color Rendering Index (CRI)		
Light Color	4028 (Bright White)	
Correlated Color Temperature (CCT)		
Warm White	Bright White	Daylight
2700K	3000K	4500K
		6500K
All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.		
Visit www.lightingfacts.com for the Label Reference Guide.		
Registration Number: DHMB-SHXQUR (7/23/2014)		
Model Number: 3110 8COB 40K SYM		
Type: Luminaire - Bolland		

PERFORMANCE DATA

Iscandela plots for 3100 COB. To see complete photometric reports or download .ies files for this product, visit www.hydrel.com/



LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact Factory for performance data on any configuration not shown here.

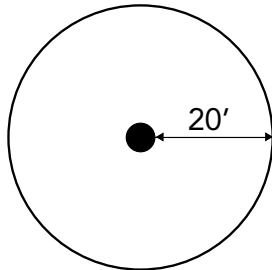
Light Engines	Distribution	Drive Current	System Watt	Lumens	LPW	B	U	G
3000K	SYM	250*	72	1300	18	1	2	1
		300	84	1525	18	1	2	1
4000K	SYM	250*	72	1320	18	1	2	1
		300	84	1535	18	1	2	1
5000K	SYM	250*	72	1535	21	1	2	1
		300	84	1810	22	2	2	1
2000K	SYM	1050	72	900	13	1	2	1

*Used with IDIM and BLS options.

LED LIFE: L80/64,000 hours

OPERATING TEMPERATURE: -20°C Through 50°C
-40°C Through 50°C with IDIM & BLS options

APPROXIMATE MOTION SENSOR COVERAGE AREA:



SPECIFICATIONS AND FEATURES

MATERIAL: Copper-free aluminum, A360.

LED ARRAY: 72W and 84W (total system input wattage) Lumen maintenance of individual light sources have been independently tested to IESNA LM-80 standards. All within 3 MacAdam ellipses.

VOLTAGE: MVOLT 50/60Hz, 120, 277 or 347

DISTRIBUTION: SYM - Symmetric, FT - Forward Throw

LENS: Frosted borosilicate glass.

POWER SUPPLY: Integrally mounted LED driver run at 300mA, -20°C through 50°C standard. Alternate driver run at 250mA, -40°C through 50°C used with IDIM and BLS.

FINISH: Super durable polyester TGIC powder coat finish (standard). Optional zinc undercoat for harsh environments.

FASTENERS: Stainless Steel.

LISTING: cCSAus, suitable for wet locations, laboratory tests conducted by CSA to UL Standard UL-1598 and UL-8750.

BUY AMERICAN: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Consult factory for details.

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

JOB _____ TYPE _____

NOTES _____ APPROVALS _____

FEATURES

- PicoPrism® technology¹
- Family of six sizes
- Available in 580nm, 3000K, 4000K and 5000K standard CCT
- Type 1, 2, 3, 4, 5 standard distributions
- 0-10V dimming drivers standard
- IP66 certified

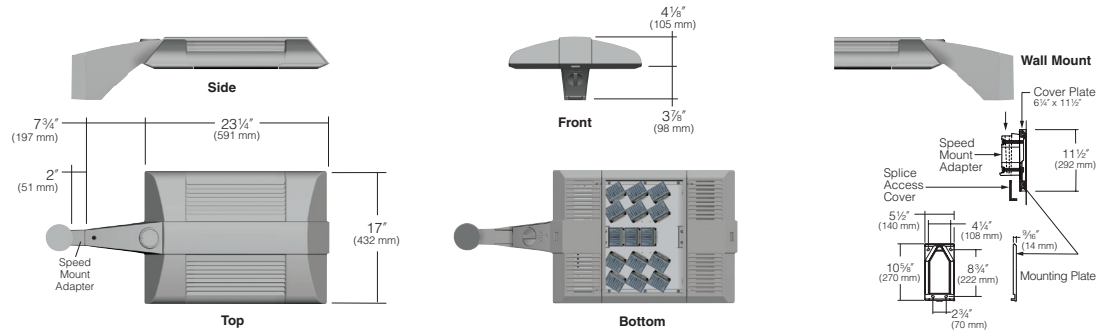
CERTIFICATIONS



SPECIFICATIONS



Approx. Weight = 27 lbs. EPA .58 for 1SA.
See Mounting for Additional EPAs.



ORDERING CODE

Configuration	EPA	Fixture	Electrical Module	Fixture Finish	Photocell Options
1A Single Arm Mount	.95	Distribution ALT1 Type I ALT2 Type II ALT3 Type III ALT4 Type IV ALT5 Type V ALTR Type R, Right ALTLL Type L, Left	Drive Current P35 350mA PicoPrism P70 700mA PicoPrism Source 60L 60 LEDs 70W for 350mA, 141W for 700mA Color Temperature ² 2K ³ 595nm 3K 3000K 4K 4000K 5K 5000K Voltages 120 120V 208 208V 240 240V 277 277V 347 ⁴ 347V 480 ⁴ 480V	BL Black DB Dark Bronze GT Graphite LG Light Gray PS Platinum Silver TT Titanium WH White CC Custom Color ²	A25-7 7-pin Photocell Receptacle A30 120V Button Photocell A31 208V Button Photocell A32 240V Button Photocell A33 277V Button Photocell A34 480V Button Photocell A35 347V Button Photocell

*Available round poles only. EPA is for Fixture only

Fuse Options	Lens Option	NFO Option	Control Options	Control Accessories
SF 120, 277, 347 Line Volts DF 208, 240, 480 Line Volts	FGL ⁵ Flat Glass Lens FPL ^{5,6} Flat Polycarbonate Lens ^{5,6}	NFO ⁵ Neighbor Friendly Optic *Photometry available for Type III/IV. All others, consult factory.	Wireless WIR-RMI-IO 120-480V, 1000' range, wiSCAPE RF control system with on/off/dim, alerts, monitoring and metering capabilities Motion SCH-R Round Pole Mounted Occupancy Sensor up to 30' SCH-S Square Pole Mounted Occupancy Sensor up to 30'	SW7PR ^{7,8} Site Sync with 7-pin PCR SWUSB SiteSync Software on USB SWTAB SiteSync Windows® Tablet SWBRG SiteSync Wireless Bridge Node WIR-RME-L wiSCAPE 7-pin Module NXOFM-1R1D-UNV NX 7-pin Module

Mounting Options
VSF Vertical Slipfitter Mount for 2" pipe tenon, (2-3/8" O.D.) SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.)
Side Arm Mount 3-4RD 3.3" to 4.2" O.D. round pole 4-6RD 4.5" to 6" O.D. round pole SQ Square Pole

For Pole Spec Select: http://www.kimlighting.com/products/arms_and_poles/
For Control Spec Select: <http://trpssl.com/index.html>

- US Patent No. D674,965 S. Other patents pending.
- For custom optics and color temperature configurations, contact factory.
- Turtle friendly. Maximum 500mA drive current for 2K amber option.
- 347V & 480V currents may be supplied with step-down transformer.

- 350mA only.
- Use only when vandalism is anticipated to be high. Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.
- When ordering SiteSync at least one of these two interface options must be ordered per project.
- If needed, an additional Bridge Node can be ordered.

Microsoft, Encarta, MSN, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Kim Lighting reserves the right to change specifications without notice.



SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.

LUMINAIRE PERFORMANCE

Spectroradiometric			
	3000K Average	4200K Average	5100K Average
Correlated Color Temp. CCT (K)	2800K-3175K	3800K-4600K	4600K-5600K
Color Rendering Index (CRI)	≥75	≥70	≥65
Power Factor	>.90	>.90	>.90

Projected Lumen Maintenance		
mA	50,000 hrs	100,000 hrs
350	N/A	N/A
700	93.62%	89.99%

Electrical - Drive Current @350mA		
Volts - AC	Amps - AC	System Watts
120	0.58	70
208	0.34	70
240	0.29	70
277	0.25	70
347	0.20	70
480	0.15	70

Electrical - Drive Current @700mA		
Volts - AC	Amps - AC	System Watts
120	1.18	141
208	0.68	141
240	0.59	141
277	0.51	141
347	0.41	141
480	0.29	141

Current - 350mA

B.U.G. Rating (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare																
Temperature	TYPE 1	TYPE 1 FGL	TYPE 2	TYPE 2 FGL	TYPE 3	TYPE 3 FGL	TYPE 3 NFO	TYPE 3 NFO FGL	TYPE 4	TYPE 4 FGL	TYPE 4 NFO	TYPE 4 NFO FGL	TYPE 5	TYPE 5 FGL	TYPE L/R	TYPE L/R FGL
3000K	B3 U0 G3	B3 U0 G3	B2 U0 G2	B3 U0 G3	B2 U0 G2	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B0 U0 G2	B0 U0 G2	B0 U0 G2	B3 U0 G2	B3 U0 G2	B2 U0 G2	B2 U0 G2
4200K	B3 U0 G3	B3 U0 G3	B2 U0 G2	B3 U0 G3	B2 U0 G2	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B0 U0 G2	B0 U0 G2	B0 U0 G2	B3 U0 G2	B3 U0 G2	B2 U0 G2	B2 U0 G2
5100K	B3 U0 G3	B3 U0 G3	B2 U0 G2	B3 U0 G3	B2 U0 G2	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B1 U0 G2	B0 U0 G2	B0 U0 G2	B4 U0 G2	B3 U0 G2	B2 U0 G2	B2 U0 G2

Absolute Lumens																
Temperature	TYPE 1	TYPE 1 FGL	TYPE 2	TYPE 2 FGL	TYPE 3	TYPE 3 FGL	TYPE 3 NFO	TYPE 3 NFO FGL	TYPE 4	TYPE 4 FGL	TYPE 4 NFO	TYPE 4 NFO FGL	TYPE 5	TYPE 5 FGL	TYPE L/R	TYPE L/R FGL
3000K	7597	5925	7535	5877	7641	5960	6660	5195	7386	5761	6497	5068	7941	6194	7563	5899
4200K	7791	6077	7728	6028	7837	6113	6831	5328	7575	5908	6664	5198	8145	6353	7757	6050
5100K	7880	6147	7817	6097	7927	6183	6909.1	5389	7662	5976	6740	5257	8238	6426	7845	6119

Current - 700mA

B.U.G. Rating (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	B4 U0 G4	B3 U0 G3	B3 U0 G3	B2 U0 G3	B1 U0 G3	B0 U0 G3	B4 U0 G2	B3 U0 G3
4200K	B4 U0 G4	B3 U0 G3	B3 U0 G3	B2 U0 G3	B1 U0 G3	B0 U0 G3	B4 U0 G3	B3 U0 G3
5100K	B4 U0 G4	B3 U0 G3	B3 U0 G3	B2 U0 G3	B1 U0 G3	B0 U0 G3	B4 U0 G3	B3 U0 G3

Absolute Lumens								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	13021	13126	13134	11522	12141	11024	13452	12768
4200K	13354	13462	13471	11818	12452	11306	13797	13095
5100K	13507	13616	13625	11953	12594	11436	13955	13245

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

Kim Lighting reserves the right to change specifications without notice.

SPECIFICATIONS

Housing:

- Extruded low copper aluminum main body.
- Die-cast low copper aluminum electrical gear compartment.
- Stainless steel hardware.
- Die cast wall separates the optical and electrical compartment acting as thermal barrier.
- Electrical gear compartment doors are fastened with two hinges and a latch made of stainless steel.
- Silicone gaskets seal the compartments at the barrier surface.

Optical Module:

- PicoPrism® refractors (enclosed LED PCBs for IP66 rating) aimed toward the task and spreads horizontally to produce great uniformity.
- Type I, II, III, IV, V, L (left), and R (right) standard distributions. Custom available.
- 3000K, 4000K, 5000K standard CCT. Amber and custom available.
- IP66 certified.
- Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level.
- Anodized aluminum carrier plate and heat sink modules.

Lens Frame:

- One-piece low copper aluminum alloy die-cast is secured to housing with two toolless latches.

Neighbor Friendly Optic

- Optional integrated Neighbor Friendly Optic on each LED module to completely control unwanted backlight. Most effective with Type III and IV distributions.

Lens

- One-piece flat glass lens slips into reveal. Extra silicone gasketing is provided to retain a clear optical compartment. CAUTION: Use only when vandalism is anticipated to be high.

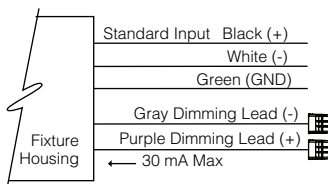
Electrical Characteristics:

- Pre-assembled, aluminum gear tray.
- 120V through 480V @ 50/60Hz.
- Class 2, 350mA or 700mA

- Power Factor = >.90
- National Electrical Code, ANSI/NFPA 70.
- 10kV surge suppression.
- Thermal shield thermal control.
- -30c starting driver.
- 0-10V dimming interface.
- All electronic components are IP66 rated.
- Electronic components are UL and/or CSA recognized.
- Standard programmable driver for variable drive current settings from 350mA to 700mA.

Dimming:

- 10% to 100% dimming by the use of standard 0-10V interface driver.
- To activate the dimming system, a wiring harness is supplied and attached to the DIM Port (DIM IN) on the thermal shield protection system. This port allows the 0-10V Interface to bypass the thermal shield and control the driver.
- The thermal shield works in conjunction with the control system to assure that overheating will not harm the LEDs.
- The wiring harness is connected with the use of the Purple lead as the positive (+) and the Grey lead as the negative (-) to an available control signal (by others).



Support Arm:

- Speed Mount and a reinforcing plate are provided with wire strain relief.
- Speed Mount is square or circular cut for specified pole size and shape.
- Die-cast, low copper aluminum support arm for direct pole mount.
- Die-cast aluminum tool-less entry splice access cover.
- Terminal block is mounted in the arm cavity and accepts #14 to #8 wire sizes.
- Prewired to electrical module with quick-disconnect plugs located inside the electrical compartment.

- Optional cast, low copper aluminum horizontal slip-fitter with adaptor plate to secure the luminaire to 1-1/4" to 2" IPS pipe size arms.
- Optional cast aluminum wall mount plate assembly. Attaches to the wall over the junction box. Luminaire attaches to the wall plate with a square cut Speed Mount.

Finish:

- Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.
- Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (WH) White, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, and (CC) Custom Color (Include RAL#).

Fusing:

SF for 120, 277 and 347 Line Volts

DF for 208, 240 and 480 Line Volts.

- High temperature fuse holders factory installed inside the fixture housing. Fuse is included.

Certifications and Listings:

- UL 1598 Standard for wet locations for Luminaires.
- UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products.
- IP66 certified.
- CSA C22.2#250.0 Luminaires.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- RoHS compliant.
- Meets Buy American provisions within ARRA.
- IDA approved, 3000K and warmer CCTs only.

CAUTION:

- Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

WARRANTY:

- For full warranty see <http://www.hubbellighting.com/resources/warranty>

Kim Lighting reserves the right to change specifications without notice.

CONTROLS

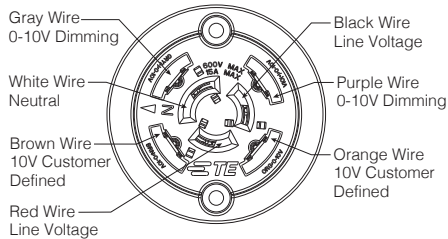
Photocell Receptacle

A25-7

Fully gasketed and wired 7-pin receptacle option. Easy access location above the electrical compartment. 7-pin construction allows for a user-defined interface and provides a controlled definition of operational performance. ANSI twist-lock control module by-others.

Standard customer operation modes:

1. Traditional on/off photoelectric control.
2. 5-pin wireless photoelectric control for added dimming feature.
3. 7-pin wireless photoelectric control for dimming and additional I/O connections for customer use.



Button Photocell

A30 for 120V, **A31** for 208V, **A32** for 240V, **A33** for 277V, **A35** for 347V, **A34** for 480V, Photocell is factory installed inside the housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others.

Wireless Controls

wiSCAPE™

Hubbell Control Solution's wiSCAPE™ wireless control modules allow an individual fixture to be managed, monitored and measured. The modules communicate securely over a robust certified meshed radio signal. The wiSCAPE modules provide on/off/dim control, external device input, alerts and metering.

WIR-RMI-IO

wiSCAPE Internal Module, 120-480V, 1000ft range (LOS), 3 Digital Inputs/1 Analog Input, 2 Outputs.

WIR-RME-L

wiSCAPE External Module, 120-480V, 1000ft range (LOS), Internal Photocell, 1 Digital Input, Compatible with the A-25-7H option

SiteSync™¹

SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit www.hubbellighting.com/products/sitesync for more details.

Pole Mounted

Round Pole-Mounted Occupancy Sensor up to 30'

SCH-R

Round Pole-Mounted Occupancy Sensor: up to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-R4⁴/277²/BL³

Square Pole-Mounted Occupancy Sensor up to 30'

SCH-S

Square Pole-Mounted Occupancy Sensor: up to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-S/277²/BL³

SCP

The SCP is a photo-control with motion sensing accessory that mounts to the side of any new or existing 3"-5" round or square straight pole. The SCP enables any pole mounted luminaire in excess of 75 watts, to meet California Title 24 requirements with integral 20KV/10KA surge protection for added reliability and serviceability.

For more detail:

http://www.aal.net/products/sensor_control_programmable

¹PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.HubbellLighting.com/products/sitesync or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with occupancy sensor (SWPM) require the mounting height of the fixture for selection of the lens.

Examples:

SiteSync only : ALT3/P70/60L/3KUV/PS/US/SWP

SiteSync with Motion Control: ALT3/P70/60L/3KUV/PS/US/SWPM-20F

MOB ORDERING INFORMATION: When ordering a fixture with a dimming occupancy sensor option (MOB), please specify the appropriate information. These settings are specified in the ordering as shown in the example below.

ALT3/P70/60L/3KUV/PS/US/MOB - 1 to 30 min - 33% or 50% - ?? / DBT
High to Dim Delay Low Level Mounting Height (ft.)

²Voltage, ³Color, ⁴Pole Diameter

Kim Lighting reserves the right to change specifications without notice.

JOB _____ TYPE _____
NOTES _____ APPROVALS _____

FEATURES

- PicoPrism® technology¹
- Family of six sizes
- Available in 580nm, 3000K, 4000K and 5000K standard CCT
- Type 1, 2, 3, 4, 5 standard distributions
- 0-10V dimming drivers standard
- IP66 certified

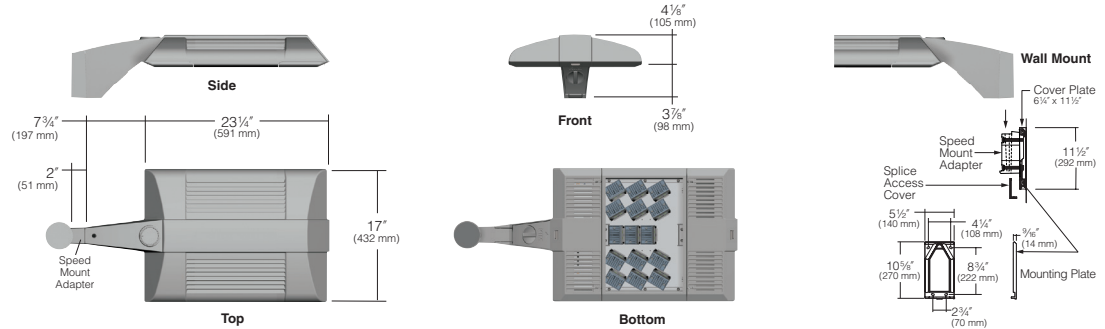
CERTIFICATIONS



SPECIFICATIONS



Approx. Weight = 27 lbs. EPA .58 for 1SA.
See Mounting for Additional EPAs.



ORDERING CODE

Configuration	EPA	Fixture	Electrical Module	Fixture Finish	Photocell Options
1A Single Arm Mount	.95	Distribution ALT1 Type I ALT2 Type II ALT3 Type III ALT4 Type IV ALT5 Type V ALTR Type R, Right ALTLL Type L, Left	Drive Current P35 350mA PicoPrism P70 700mA PicoPrism Source 60L 60 LEDs 70W for 350mA, 141W for 700mA Color Temperature ² 2K ³ 595nm 3K 3000K 4K 4000K 5K 5000K Voltages 120 120V 208 208V 240 240V 277 277V 347 ⁴ 347V 480 ⁴ 480V	BL Black DB Dark Bronze GT Graphite LG Light Gray PS Platinum Silver TT Titanium WH White CC Custom Color ²	A25-7 7-pin Photocell Receptacle A30 120V Button Photocell A31 208V Button Photocell A32 240V Button Photocell A33 277V Button Photocell A34 480V Button Photocell A35 347V Button Photocell

*Available round poles only. EPA is for Fixture only

Fuse Options	Lens Option	NFO Option	Control Options	Control Accessories
SF 120, 277, 347 Line Volts DF 208, 240, 480 Line Volts	FGL ⁵ Flat Glass Lens FPL ^{5, 6} Flat Polycarbonate Lens ^{5, 6}	NFO ⁵ Neighbor Friendly Optic *Photometry available for Type III/IV. All others, consult factory.	Wireless WIR-RMI-IO 120-480V, 1000' range, wiSCAPE RF control system with on/off/dim, alerts, monitoring and metering capabilities Motion SCH-R Round Pole Mounted Occupancy Sensor up to 30' SCH-S Square Pole Mounted Occupancy Sensor up to 30'	SW7PR ^{7, 8} Site Sync with 7-pin PCR SWUSB SiteSync Software on USB SWTAB SiteSync Windows® Tablet SWBRG SiteSync Wireless Bridge Node WIR-RME-L wiSCAPE 7-pin Module NXOFM- NX 7-pin Module 1R1D-UNV

Mounting Options
VSF Vertical Slipfitter Mount for 2" pipe tenon, (2-3/8" O.D.) SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.) Side Arm Mount 3-4RD 3.3" to 4.2" O.D. round pole 4-6RD 4.5" to 6" O.D. round pole SQ Square Pole

For Pole Spec Select: http://www.kimlighting.com/products/arms_and_poles/
For Control Spec Select: <http://trpssl.com/index.html>

- US Patent No. D674,965 S. Other patents pending.
- For custom optics and color temperature configurations, contact factory.
- Turtle friendly. Maximum 500mA drive current for 2K amber option.
- 347V & 480V currents may be supplied with step-down transformer.

- 350mA only.
- Use only when vandalism is anticipated to be high. Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.
- When ordering SiteSync at least one of these two interface options must be ordered per project.
- If needed, an additional Bridge Node can be ordered.

Microsoft, Encarta, MSN, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Kim Lighting reserves the right to change specifications without notice.



SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.

LUMINAIRE PERFORMANCE

Spectroradiometric			
	3000K Average	4200K Average	5100K Average
Correlated Color Temp. CCT (K)	2800K-3175K	3800K-4600K	4600K-5600K
Color Rendering Index (CRI)	≥75	≥70	≥65
Power Factor	>.90	>.90	>.90

Projected Lumen Maintenance		
mA	50,000 hrs	100,000 hrs
350	N/A	N/A
700	93.62%	89.99%

Electrical - Drive Current @350mA		
Volts - AC	Amps - AC	System Watts
120	0.58	70
208	0.34	70
240	0.29	70
277	0.25	70
347	0.20	70
480	0.15	70

Electrical - Drive Current @700mA		
Volts - AC	Amps - AC	System Watts
120	1.18	141
208	0.68	141
240	0.59	141
277	0.51	141
347	0.41	141
480	0.29	141

Current - 350mA

B.U.G. Rating (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare																
Temperature	TYPE 1	TYPE 1 FGL	TYPE 2	TYPE 2 FGL	TYPE 3	TYPE 3 FGL	TYPE 3 NFO	TYPE 3 NFO FGL	TYPE 4	TYPE 4 FGL	TYPE 4 NFO	TYPE 4 NFO FGL	TYPE 5	TYPE 5 FGL	TYPE L/R	TYPE L/R FGL
3000K	B3 U0 G3	B3 U0 G3	B2 U0 G2	B3 U0 G3	B2 U0 G2	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B0 U0 G2	B0 U0 G2	B0 U0 G2	B3 U0 G2	B3 U0 G2	B2 U0 G2	B2 U0 G2
4200K	B3 U0 G3	B3 U0 G3	B2 U0 G2	B3 U0 G3	B2 U0 G2	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B0 U0 G2	B0 U0 G2	B0 U0 G2	B3 U0 G2	B3 U0 G2	B2 U0 G2	B2 U0 G2
5100K	B3 U0 G3	B3 U0 G3	B2 U0 G2	B3 U0 G3	B2 U0 G2	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B1 U0 G2	B0 U0 G2	B0 U0 G2	B4 U0 G2	B3 U0 G2	B2 U0 G2	B2 U0 G2
Absolute Lumens																
Temperature	TYPE 1	TYPE 1 FGL	TYPE 2	TYPE 2 FGL	TYPE 3	TYPE 3 FGL	TYPE 3 NFO	TYPE 3 NFO FGL	TYPE 4	TYPE 4 FGL	TYPE 4 NFO	TYPE 4 NFO FGL	TYPE 5	TYPE 5 FGL	TYPE L/R	TYPE L/R FGL
3000K	7597	5925	7535	5877	7641	5960	6660	5195	7386	5761	6497	5068	7941	6194	7563	5899
4200K	7791	6077	7728	6028	7837	6113	6831	5328	7575	5908	6664	5198	8145	6353	7757	6050
5100K	7880	6147	7817	6097	7927	6183	6909.1	5389	7662	5976	6740	5257	8238	6426	7845	6119

Current - 700mA

B.U.G. Rating (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	B4 U0 G4	B3 U0 G3	B3 U0 G3	B2 U0 G3	B1 U0 G3	B0 U0 G3	B4 U0 G2	B3 U0 G3
4200K	B4 U0 G4	B3 U0 G3	B3 U0 G3	B2 U0 G3	B1 U0 G3	B0 U0 G3	B4 U0 G3	B3 U0 G3
5100K	B4 U0 G4	B3 U0 G3	B3 U0 G3	B2 U0 G3	B1 U0 G3	B0 U0 G3	B4 U0 G3	B3 U0 G3
Absolute Lumens								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	13021	13126	13134	11522	12141	11024	13452	12768
4200K	13354	13462	13471	11818	12452	11306	13797	13095
5100K	13507	13616	13625	11953	12594	11436	13955	13245

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

Kim Lighting reserves the right to change specifications without notice.

SPECIFICATIONS

Housing:

- Extruded low copper aluminum main body.
- Die-cast low copper aluminum electrical gear compartment.
- Stainless steel hardware.
- Die cast wall separates the optical and electrical compartment acting as thermal barrier.
- Electrical gear compartment doors are fastened with two hinges and a latch made of stainless steel.
- Silicone gaskets seal the compartments at the barrier surface.

Optical Module:

- PicoPrism® refractors (enclosed LED PCBs for IP66 rating) aimed toward the task and spreads horizontally to produce great uniformity.
- Type I, II, III, IV, V, L (left), and R (right) standard distributions. Custom available.
- 3000K, 4000K, 5000K standard CCT. Amber and custom available.
- IP66 certified.
- Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level.
- Anodized aluminum carrier plate and heat sink modules.

Lens Frame:

- One-piece low copper aluminum alloy die-cast is secured to housing with two toolless latches.

Neighbor Friendly Optic

- Optional integrated Neighbor Friendly Optic on each LED module to completely control unwanted backlight. Most effective with Type III and IV distributions.

Lens

- One-piece flat glass lens slips into reveal. Extra silicone gasketing is provided to retain a clear optical compartment. CAUTION: Use only when vandalism is anticipated to be high.

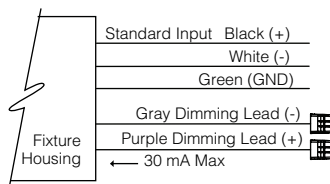
Electrical Characteristics:

- Pre-assembled, aluminum gear tray.
- 120V through 480V @ 50/60Hz.
- Class 2, 350mA or 700mA

- Power Factor = >.90
- National Electrical Code, ANSI/NFPA 70.
- 10kV surge suppression.
- Thermal shield thermal control.
- -30c starting driver.
- 0-10V dimming interface.
- All electronic components are IP66 rated.
- Electronic components are UL and/or CSA recognized.
- Standard programmable driver for variable drive current settings from 350mA to 700mA.

Dimming:

- 10% to 100% dimming by the use of standard 0-10V interface driver.
- To activate the dimming system, a wiring harness is supplied and attached to the DIM Port (DIM IN) on the thermal shield protection system. This port allows the 0-10V Interface to bypass the thermal shield and control the driver.
- The thermal shield works in conjunction with the control system to assure that overheating will not harm the LEDs.
- The wiring harness is connected with the use of the Purple lead as the positive (+) and the Grey lead as the negative (-) to an available control signal (by others).



Support Arm:

- Speed Mount and a reinforcing plate are provided with wire strain relief.
- Speed Mount is square or circular cut for specified pole size and shape.
- Die-cast, low copper aluminum support arm for direct pole mount.
- Die-cast aluminum tool-less entry splice access cover.
- Terminal block is mounted in the arm cavity and accepts #14 to #8 wire sizes.
- Prewired to electrical module with quick-disconnect plugs located inside the electrical compartment.

- Optional cast, low copper aluminum horizontal slip-fitter with adaptor plate to secure the luminaire to 1-1/4" to 2" IPS pipe size arms.
- Optional cast aluminum wall mount plate assembly. Attaches to the wall over the junction box. Luminaire attaches to the wall plate with a square cut Speed Mount.

Finish:

- Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.
- Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (WH) White, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, and (CC) Custom Color (Include RAL#).

Fusing:

SF for 120, 277 and 347 Line Volts

DF for 208, 240 and 480 Line Volts.

- High temperature fuse holders factory installed inside the fixture housing. Fuse is included.

Certifications and Listings:

- UL 1598 Standard for wet locations for Luminaires.
- UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products.
- IP66 certified.
- CSA C22.2#250.0 Luminaires.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- RoHS compliant.
- Meets Buy American provisions within ARRA.
- IDA approved, 3000K and warmer CCTs only.

CAUTION:

- Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

WARRANTY:

- For full warranty see <http://www.hubbellighting.com/resources/warranty>

Kim Lighting reserves the right to change specifications without notice.

CONTROLS

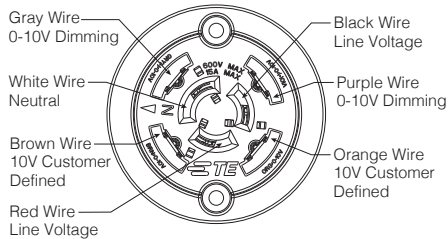
Photocell Receptacle

A25-7

Fully gasketed and wired 7-pin receptacle option. Easy access location above the electrical compartment. 7-pin construction allows for a user-defined interface and provides a controlled definition of operational performance. ANSI twist-lock control module by-others.

Standard customer operation modes:

1. Traditional on/off photoelectric control.
2. 5-pin wireless photoelectric control for added dimming feature.
3. 7-pin wireless photoelectric control for dimming and additional I/O connections for customer use.



Button Photocell

A30 for 120V, **A31** for 208V, **A32** for 240V, **A33** for 277V, **A35** for 347V, **A34** for 480V, Photocell is factory installed inside the housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others.

Wireless Controls

wiSCAPE™

Hubbell Control Solution's wiSCAPE™ wireless control modules allow an individual fixture to be managed, monitored and measured. The modules communicate securely over a robust certified meshed radio signal. The wiSCAPE modules provide on/off/dim control, external device input, alerts and metering.

WIR-RMI-IO

wiSCAPE Internal Module, 120-480V, 1000ft range (LOS), 3 Digital Inputs/1 Analog Input, 2 Outputs.

WIR-RME-L

wiSCAPE External Module, 120-480V, 1000ft range (LOS), Internal Photocell, 1 Digital Input, Compatible with the A-25-7H option

SiteSync™¹

SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit www.hubbellighting.com/products/sitesync for more details.

Pole Mounted

Round Pole-Mounted Occupancy Sensor up to 30'

SCH-R

Round Pole-Mounted Occupancy Sensor: up to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-R4⁴/277²/BL³

Square Pole-Mounted Occupancy Sensor up to 30'

SCH-S

Square Pole-Mounted Occupancy Sensor: up to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-S/277²/BL³

SCP

The SCP is a photo-control with motion sensing accessory that mounts to the side of any new or existing 3"-5" round or square straight pole. The SCP enables any pole mounted luminaire in excess of 75 watts, to meet California Title 24 requirements with integral 20KV/10KA surge protection for added reliability and serviceability.

For more detail:

http://www.aal.net/products/sensor_control_programmable

¹PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.HubbellLighting.com/products/sitesync or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with occupancy sensor (SWPM) require the mounting height of the fixture for selection of the lens.

Examples:

SiteSync only : ALT3/P70/60L/3KUV/PS/US/SWP

SiteSync with Motion Control: ALT3/P70/60L/3KUV/PS/US/SWPM-20F

MOB ORDERING INFORMATION: When ordering a fixture with a dimming occupancy sensor option (MOB), please specify the appropriate information. These settings are specified in the ordering as shown in the example below.

ALT3/P70/60L/3KUV/PS/US/MOB - 1 to 30 min - 33% or 50% - ?? / DBT
High to Dim Delay Low Level Mounting Height (ft.)

²Voltage, ³Color, ⁴Pole Diameter

Kim Lighting reserves the right to change specifications without notice.