

Nordic Aquafarms - Permitting

Electrical General:

Electrical systems for all new spaces will be designed in accordance with the following Codes and standards:

- NFPA 70 (National Electrical Code), 2017 Edition
- NFPA 101 (Life Safety Code)
- International Building Code (IBC), 2009 edition.
- International Energy Conservation Code (IECC), 2012 edition.
- Maine Uniform Building and Energy Code (MUBEC)
- ASHRAE Standard 90.1-2010 Energy Standard for Buildings Except Low-Rise Residential Buildings.

Exterior Lighting and Controls:

All new fixtures shall utilize LED technology with a color temperature of 3000K and shall be full-cutoff type as defined by IESNA, in order to minimize light pollution into the night sky.

Lighting along the entrance drive into the campus (near the Visitor's Center) shall be provided via post-top style mounted pole light fixtures. Fixtures shall be mounted roughly 16'-0" AFG and shall utilize Type IV distribution. Lighting shall be controlled via a site-wide lighting control system with main controller location to be determined during detailed design. Lighting control system shall be utilized to provide astronomical clock on/off operation and to allow for schedule overrides to be programmed. Post-top fixtures shall be provided with integrated motion sensors to allow fixtures to dim to 10% between the hours of 10pm-5am until motion is sensed. Once motion is sensed during the setback hours, the fixtures will rise to 100% output for 15 minutes and then they shall dim back to 10% output.

Also located near the Visitor's Center, the walkway surrounding the salmon pond feature will be illuminated utilizing 3'H bollards. This will allow for low lighting levels along the pathway with minimal impact to the overall lighting provided by the general fixtures. Bollard lights shall be connected to the site-wide lighting control system and shall be scheduled on and off to coordinate with operational hours.

General site lighting along interior roadways shall be provided via pole mounted area style fixtures. Fixtures shall be mounted at 20'-0" AFG with Type III, Type IV, and Type V distribution patterns as required to adequately illuminate the drives and intersections. Controls for all roadway fixtures shall be via site-wide lighting control system as described above. As with the post-top fixtures, roadway lights shall have integrated occupancy sensors to allow for setback during nighttime hours.

Roadways and parking lots located between buildings shall be illuminated via building mounted area style light fixtures. Fixtures shall be mounted at 16'-0" AFG with Type IV distribution patterns as required to adequately illuminate individual spaces as well as the associated roadways. Controls for all building mounted fixtures interior to the site shall be via site-wide lighting control system as described above. As with the pole mounted fixtures, building lights shall have integrated occupancy sensors to allow for setback during nighttime hours.

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Along the north and west sides of Building 1, south and west sides of Building 2 and west side of Building 3, building mounted area style fixtures shall be mounted at 12'-0" AFF to illuminate the access drive around buildings. Fixtures along these facades shall be provided with embedded motion sensors so that fixtures will remain off during nighttime hours until motion is sensed.

In addition to roadway and parking lot lighting, Building 7 shall have bollard lighting to accent the concrete walkway and plaza to the entrance of the building. Bollard lights will be 3'-0" AFG and shall be controlled via the site-wide lighting control system. As with the bollards located near the Visitor's Center, operation is expected to be schedule on/off only.



GEM[®]1 LED Performance Bollard

Aluminum Shaft

revision 5/31/18 • kl_gem1led_spec.pdf

Type:
Job:
Catalog number:

Approvals:

GEM1	/	/	/
Fixture	Electrical Module	Top Cap Finish <small>(Includes top cap and shaft)</small>	Options
See page 2		See page 3	

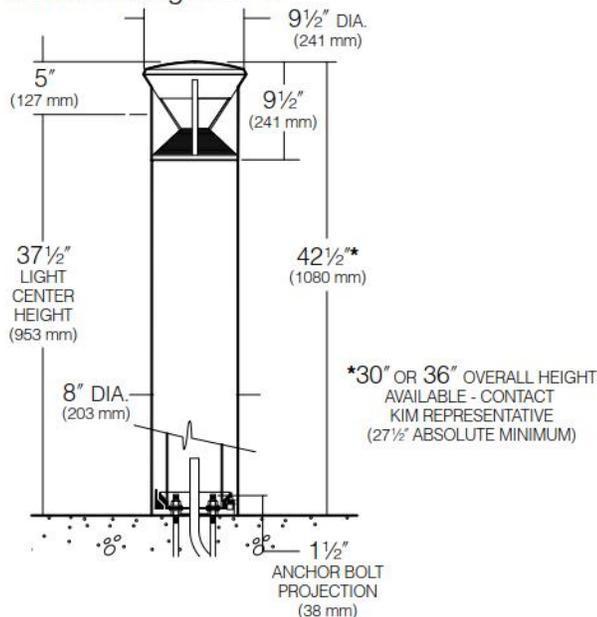
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Page: 1 of 4

Specifications

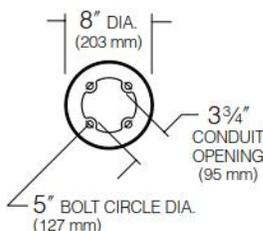
GEM Models

GEM1

Maximum weight: 28 lb



BASE PLAN GEM ALUMINUM SHAFT



Top Cap: Die-cast, low copper (< 0.6% Cu) aluminum secured to rib body by captive stainless steel allen cap screws. For lamp access, allen screws shall not require complete removal.

Supports: Die-cast, low copper (< 0.6% Cu) aluminum supports secured in place as a complete cage assembly. The top section provides a cutoff lamp compartment. The supports are secured to the shaft by four stainless steel tie rods.

Refractor: Thermally tempered soda lime glass sealed with silicone gaskets top and bottom.

Shaft: One-piece aluminum extrusion, .125" minimum wall thickness with a heavy cast aluminum anchor base concealed within the shaft. Hex socket stainless steel set screws shall lock the shaft onto the cast frangible anchor base.

LED Optical System: A total of 9 mid power LED emitters configured in a rectangular array comprised together as a module. Two (2) modules, 18 diodes for Type I version; three (3) modules, 27 diodes for Type III version; and four (4) modules, 36 diodes for Type V version. Available in 580nm Amber, 3000K, 4000K and 5000K color temperatures.

LED Driver: Universal voltage from 120 to 277V with a ±10% tolerance. -40°F. starting temperature. All drivers are Underwriters Laboratories recognized.

Anchor Bolts: Four 3/8" x 10" + 2" zinc plated J-bolts, each with two nuts, washers and a rigid pressed board template.

Finish: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (SG) Stealth Gray, (LG) Light Gray, and (CC) Custom Color (Include RAL#).

Listed to: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires. RoHS compliant. Meets Buy American provisions within ARRA.

Warranty: Kim Lighting warrants Bollard LED products sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of five (5) years for exterior housing paint finish(s), (iii) a period of five (5) years for LED Light Engines and, (iv) a period of five (5) years for LED power components (driver, surge protector and LifeShield[®] device), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

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.

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



U.S. PATENT D443,094

Type:

Job:



Standard Features

<p>Fixture</p>	<p>Cat. No. GEM1 Fixture with Aluminum Shaft</p>			
<p>Electrical Module LED = Light Emitting Diode</p>	<p>Cat. Nos. for LED Electrical Modules available:</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center; vertical-align: top;"> <p>xL</p> <p>Source:</p> <p><input type="checkbox"/> 18L= Type I</p> <p><input type="checkbox"/> 27L= Type III</p> <p><input type="checkbox"/> 36L= Type V</p> </td> <td style="text-align: center; vertical-align: top;"> <p>xK</p> <p>Color Temperature:</p> <p><input type="checkbox"/> 2K = 580nm - Amber</p> <p><input type="checkbox"/> 3K = 3000K</p> <p><input type="checkbox"/> 4K = 4000K</p> <p><input type="checkbox"/> 5K = 5000K</p> </td> <td style="text-align: center; vertical-align: top;"> <p>UV</p> <p>Voltage:</p> <p><input type="checkbox"/> UV Universal Voltage shall range from 120V-277V</p> </td> </tr> </table>	<p>xL</p> <p>Source:</p> <p><input type="checkbox"/> 18L= Type I</p> <p><input type="checkbox"/> 27L= Type III</p> <p><input type="checkbox"/> 36L= Type V</p>	<p>xK</p> <p>Color Temperature:</p> <p><input type="checkbox"/> 2K = 580nm - Amber</p> <p><input type="checkbox"/> 3K = 3000K</p> <p><input type="checkbox"/> 4K = 4000K</p> <p><input type="checkbox"/> 5K = 5000K</p>	<p>UV</p> <p>Voltage:</p> <p><input type="checkbox"/> UV Universal Voltage shall range from 120V-277V</p>
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<p>Finish TGIC thermoset polyester powder coat paint over a titanated zirconium conversion coating on fixture and shaft.</p>	<p>Top Cap Color: Black Dark Bronze Light Gray Platinum Silver White Custom Color¹ Cat. No.: <input type="checkbox"/> BL <input type="checkbox"/> DB <input type="checkbox"/> LG <input type="checkbox"/> PS <input type="checkbox"/> WH <input type="checkbox"/> CC</p> <p>¹Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____</p> <p>Aluminum Riser (Shaft) Aluminum Riser shaft is finished to match fixture with TGIC thermoset polyester powder coat paint over a titanated zirconium conversion coating.</p>			
<p>0-10V Dimming Interface</p>	<p>Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation wiHUBB™. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.</p> <div style="text-align: right;"> </div>			

Type:

Job:



Optional Features

<p>Houseside Shield Cat. No. <input type="checkbox"/> HS <input type="checkbox"/> No Option</p>	<p>90° houseside shield. .032" thick aluminum, painted to match fixture.</p>	
<p>Battery Back-up Cat. No. <input type="checkbox"/> EM <input type="checkbox"/> No Option</p>	<p>Internal battery pack provides 90 minutes of supplemental light at 25% of initial lamp lumens.</p>	 Battery Back-up
<p>Optional Duplex Receptacle Cat. No. <input type="checkbox"/> DR <input type="checkbox"/> DR-GFI <input type="checkbox"/> No Option</p>	<p>Mounted 18" from bottom of shaft, in a cast aluminum box that is internally welded and sealed with a gasketed While-In-Use cover with locking tab. Painted to match bollard.</p> <p>DR weather proof duplex receptacle rated 20A, 125V. DR-GFI weather proof duplex receptacle with ground fault circuit interrupter rated 20A, 125V.</p>	

Type:

Job:

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Lumen Data

Electrical Drive Current - @350mA						
Volts - AC	Type 1		Type 3		Type 5	
	Amps - AC	System Watts	Amps - AC	System Watts	Amps - AC	System Watts
120	0.18	21	0.26	31	0.34	41
208	0.10	21	0.15	31	0.20	41
240	0.09	21	0.13	31	0.17	41
277	0.08	21	0.11	31	0.15	41

B.U.G. Rating (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare			
Temperature	TYPE 1	TYPE 3	TYPE 5
3000K	B1 U3 G1	B1 U3 G1	B1 U3 G1
4000K	B1 U3 G1	B1 U3 G1	B1 U3 G1
5000K	B1 U3 G1	B1 U3 G1	B1 U3 G1

Absolute Lumens			
Temperature	TYPE 1	TYPE 3	TYPE 5
3000K	1101	1750	2290
4000K	1129	1794	2349
5000K	1142	1815	2376

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.

JOB _____

TYPE PL5A

NOTES _____

APPROVALS _____

FEATURES

- Elegant form factor
- High performance optics up to 35,000 delivered lumens
- Diffusion lens for low glare comfort
- NX™ wireless control options

CERTIFICATIONS

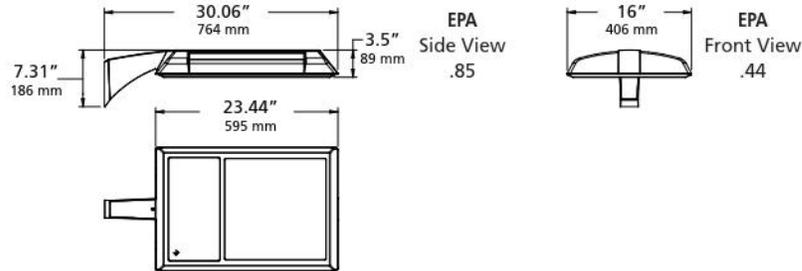


3000K and warmer CCTs only

SPECIFICATIONS



Weight: 34.6 lbs / 15.69 kg



ORDERING CODE

Series	LED Engine	CCT	Distribution	Rotation	Voltage	Mounting
ALT2 Altitude	No Lens 100L-160 20,000 lm 100L-200 25,000 lm 100L-240 30,000 lm 100L-285 35,000 lm	AM Amber 3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI 3K8 3000K, 80 CRI 4K8 4000K, 80 CRI 3K9 3000K, 90 CRI	FR Type I/Front Row 2 Type II 3 Type III 4 Type IV 4W Type IV Wide 5QM Type V Square Medium 5QN Type V Square Narrow 5R Type V Rectangular 5W Type V Wide (Round)	Blank for no rotation L ¹ Optic rotation left R ¹ Optic rotation right	UNV 120-277V 347 347V 480 480V	ASQ Arm Square pole A34 Arm mt 3.3-4.2" OD pole A46 Arm mt 4.5-6.0" OD pole MAF Horizontal Slipfitter 2 3/8" OD arm SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.) VSF Vertical Slipfitter Mount for 2" pipe tenon, (2-3/8" O.D.) WB Wall Bracket for area wall mount
Fixture Finish	Control Options		Options	Control Accessories		
BL Black DB Dark Bronze GT Graphite LG Light Gray PS Platinum Silver TT Titanium WH White CC Custom Color [†] † Consult factory	7PR 7 pin PCR, wireless control enabled 7PR-TL 7 pin PCR with twist lock photocontrol 7PR-SC 7 pin PCR with shorting cap AD-01 ² AstroDIM: 50% output at midnight AD-02 ² AstroDIM: 50% output midnight to 4 AM AD-03 ² AstroDIM: 50% output 10PM AD-04 ² AstroDIM: 50% output 10PM to 4AM NXSP14F ^{2,3} Wired NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXSP30F ^{2,3} Wired NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' NXSPW14F ^{2,3} NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXSPW30F ^{2,3} NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' NXWE NX Wireless Enabled	SCL-8F Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights up to 8' SCL-40F Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights 9' to 40' SCP-8F Remote control programmable line voltage sensor, use with SCPREMOTE SCP-40F Remote control programmable line voltage sensor, use with SCPREMOTE SWP ^{2,3,4} Site Sync™ Pre Commission Wireless Module SWPM-40F ^{2,3,4} Site Sync with Sensor 9' to 40' MH	BC ⁵ Backlight Control SF Single Fuse DF Double Fuse TB Terminal Block CLR Clear Lens HDL ⁶ Diffuse Lens	SCPREMOTE Remote control for SCP option. Order at least one per project to program and control the occupancy sensor SW7PR SiteSync™ on fixture module via 7PR SWUSB SiteSync™ Software on USB SWTAB SiteSync™ Windows Tablet SWBRG SiteSync™ Wireless Bridge Node SWFC SiteSync™ Field Commission Service WIR-RME-L wiSCAPE™ External Fixture Module NXOFM-1R1D-UNV NX External Control Node		

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

- 1 Not available with 5QM and 5W distributions.
- 2 Not available with other sensor or wireless control options.
- 3 Not available in 480V.
- 4 Specify group and zone at time of order. See www.hubbellighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.
- 5 Not available with Type 5 distributions, CLR, or HDL option.
- 6 Only available in Type 3 or Type 5W

Kim Lighting reserves the right to change specifications without notice.

LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	20,000	160	No Lens	FR	20843	2	0	2	130	21939	2	0	2	137	22233	2	0	2	139
				FR-BC	12486	1	0	1	78	13142	1	0	1	82	13318	1	0	1	84
				2	19189	3	0	3	120	20198	3	0	3	126	20469	3	0	3	129
				2-BC	10631	1	0	2	66	11190	1	0	2	70	11340	1	0	2	72
				3	19729	2	0	4	123	20766	2	0	4	130	21044	2	0	4	132
				3-BC	9732	1	0	2	61	10244	1	0	2	64	10381	1	0	2	66
				4	19545	2	0	4	122	20573	2	0	4	129	20848	2	0	4	131
				4-BC	11562	1	0	2	72	12170	1	0	2	76	12333	1	0	2	78
				4W	19567	2	0	4	122	20596	2	0	4	129	20872	2	0	4	130
				4W-BC	8203	1	0	2	51	8634	1	0	2	54	8750	1	0	2	56
				5R	20311	4	0	4	127	21379	4	0	4	134	21665	4	0	4	135
				5QM	20697	4	0	2	129	21785	4	0	2	136	22077	4	0	2	137
				5QN	20265	4	0	1	127	21330	4	0	1	133	21616	4	0	1	136
				5W	20116	5	0	3	126	21174	5	0	3	132	21457	5	0	3	134
				Clear Lens	FR	19495	2	0	2	123	20520	2	0	2	130	20795	2	0	2
			2		17948	2	0	3	114	18892	3	0	3	120	19145	3	0	3	121
			3		18045	2	0	3	114	18994	2	0	3	120	19248	2	0	3	122
			4		18281	1	0	4	116	19242	2	0	4	122	19500	2	0	4	123
			4W		18302	2	0	4	116	19264	2	0	4	122	19522	2	0	4	124
			5R		18997	4	0	4	120	19996	4	0	4	127	20264	4	0	4	128
			5QM		19359	4	0	2	123	20376	4	0	2	129	20649	4	0	2	131
			5QN		18954	4	0	1	120	19951	4	0	1	126	20218	4	0	1	128
			5W	18815	5	0	3	119	19804	5	0	3	125	20069	5	0	3	127	
			HDL Lens	3	15474	3	0	3	97	16287	3	0	3	102	16505	3	0	3	104
				5W	16224	3	0	2	102	17076	3	0	2	107	17305	3	0	2	108

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	25,000	200	No Lens	FR	24095	2	0	2	122	25362	2	0	2	128	25702	2	0	2	130
				FR-BC	14434	1	0	1	73	15193	1	0	1	77	15396	1	0	1	78
				2	22183	3	0	3	112	23349	3	0	3	118	23662	3	0	3	120
				2-BC	12290	1	0	2	62	12936	1	0	2	65	13109	1	0	2	66
				3	22807	2	0	4	115	24006	3	0	4	121	24327	3	0	4	123
				3-BC	11251	1	0	2	57	11842	1	0	2	60	12001	1	0	2	61
				4	22595	2	0	4	114	23782	2	0	4	120	24101	2	0	4	122
				4-BC	13366	1	0	3	68	14069	1	0	3	71	14257	1	0	3	72
				4W	22620	3	0	4	114	23809	3	0	5	120	24128	3	0	5	122
				4W-BC	9483	1	0	2	48	9982	1	0	2	50	10115	1	0	2	51
				5R	23480	4	0	4	119	24714	4	0	4	125	25045	4	0	4	126
				5QM	23927	4	0	2	121	25184	4	0	2	127	25522	4	0	2	129
				5QN	23427	5	0	1	118	24658	5	0	1	125	24988	5	0	1	126
				5W	23255	5	0	3	117	24477	5	0	3	124	24805	5	0	3	125
			Clear Lens	FR	22537	2	0	2	114	23722	2	0	2	120	24039	2	0	2	121
				2	20749	3	0	3	105	21839	3	0	3	110	22132	3	0	3	112
				3	21332	2	0	4	108	22453	2	0	4	113	22754	2	0	4	115
				4	21133	2	0	4	107	22244	2	0	4	112	22542	2	0	4	114
				4W	21157	2	0	4	107	22270	2	0	4	112	22568	3	0	4	114
				5R	21961	4	0	4	111	23116	4	0	4	117	23425	4	0	4	118
				5QM	22379	4	0	2	113	23556	4	0	2	119	23871	4	0	2	121
			5QN	21912	4	0	1	111	23063	5	0	1	116	23372	5	0	1	118	
			5W	21751	5	0	3	110	22894	5	0	3	116	23201	5	0	3	117	
			HDL Lens	3	18134	3	0	3	92	19087	3	0	3	96	19343	3	0	3	98
				5W	18490	3	0	2	93	19462	4	0	2	98	19723	4	0	2	100

Lumen Multiplier		
CCT	80 CRI	90 CRI
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					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	30,000	240	No Lens	FR	28520	2	0	2	118	30020	2	0	2	125	30422	2	0	2	126
				FR-BC	17085	1	0	1	71	17983	1	0	1	75	18223	1	0	1	76
				2	26257	3	0	4	109	27638	3	0	4	115	28008	3	0	4	116
				2-BC	14547	1	0	2	60	15312	1	0	2	64	15517	1	0	2	64
				3	26995	3	0	4	112	28415	3	0	4	118	28795	3	0	4	119
				3-BC	13317	1	0	2	55	14017	1	0	2	58	14205	1	0	2	59
				4	26744	2	0	4	111	28150	2	0	5	117	28527	2	0	5	118
				4-BC	15821	1	0	3	66	16653	1	0	3	69	16876	1	0	3	70
				4W	26775	3	0	5	111	28182	3	0	5	117	28559	3	0	5	119
				4W-BC	11225	1	0	2	47	11815	1	0	2	49	11973	1	0	2	50
				5R	27792	5	0	5	115	29253	5	0	5	121	29645	5	0	5	123
				5QM	28321	4	0	2	118	29809	5	0	3	124	30209	5	0	3	125
				5QN	27729	5	0	1	115	29187	5	0	1	121	29578	5	0	1	123
			5W	27525	5	0	4	114	28972	5	0	4	120	29360	5	0	4	122	
			Clear Lens	FR	26676	2	0	2	111	28078	2	0	2	117	28454	2	0	2	118
				2	24559	3	0	3	102	25850	3	0	3	107	26196	3	0	4	109
				3	25249	3	0	4	105	26577	3	0	4	110	26933	3	0	4	112
				4	25014	2	0	4	104	26329	2	0	4	109	26682	2	0	4	111
				4W	25043	3	0	5	104	26359	3	0	5	109	26712	3	0	5	111
				5R	25995	5	0	5	108	27361	5	0	5	114	27728	5	0	5	115
				5QM	26489	4	0	2	110	27882	4	0	2	116	28255	4	0	2	117
			5QN	25936	5	0	1	108	27299	5	0	1	113	27665	5	0	1	115	
			5W	25745	5	0	3	107	27099	5	0	3	112	27461	5	0	3	114	
HDL Lens	3	21464	3	0	3	89	22593	3	0	3	94	22895	3	0	3	95			
	5W	21886	4	0	2	91	23036	4	0	2	96	23345	4	0	2	97			

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

Kim Lighting reserves the right to change specifications without notice.

LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	35,000	285	No Lens	FR	33175	2	0	2	116	34919	2	0	2	123	35387	2	0	2	124
				FR-BC	19873	1	0	1	70	20918	1	0	1	73	21198	1	0	1	74
				2	30543	3	0	4	107	32149	3	0	4	113	32579	3	0	4	114
				2-BC	16921	1	0	2	59	17811	1	0	2	62	18049	1	0	2	63
				3	31402	3	0	5	110	33052	3	0	5	116	33495	3	0	5	118
				3-BC	15490	1	0	3	54	16305	1	0	3	57	16523	1	0	3	58
				4	31109	2	0	5	109	32745	2	0	5	115	33183	2	0	5	116
				4-BC	18403	1	0	3	65	19371	1	0	3	68	19630	1	0	3	69
				4W	31145	3	0	5	109	32782	3	0	5	115	33221	3	0	5	117
				4W-BC	13057	1	0	3	46	13743	1	0	3	48	13927	1	0	3	49
				5R	32328	5	0	5	113	34028	5	0	5	119	34483	5	0	5	121
				5QM	32943	5	0	3	116	34675	5	0	3	122	35139	5	0	3	123
				5QN	32255	5	0	1	113	33951	5	0	1	119	34405	5	0	1	121
				5W	32018	5	0	4	112	33701	5	0	4	118	34152	5	0	4	120
				Clear Lens	FR	31030	2	0	2	109	32661	2	0	2	115	33098	2	0	2
			2		28568	3	0	4	100	30069	3	0	4	106	30472	3	0	4	107
			3		29371	3	0	4	103	30915	3	0	5	108	31329	3	0	5	110
			4		29097	2	0	5	102	30627	2	0	5	107	31037	2	0	5	109
			4W		29130	3	0	5	102	30662	3	0	5	108	31072	3	0	5	109
			5R		30237	5	0	5	106	31827	5	0	5	112	32253	5	0	5	113
			5QM		30813	5	0	3	108	32432	5	0	3	114	32867	5	0	3	115
			5QN		30169	5	0	1	106	31755	5	0	1	111	32180	5	0	1	113
			5W	29947	5	0	4	105	31521	5	0	4	111	31944	5	0	4	112	
			HDL Lens	3	24968	3	0	3	88	26280	3	0	3	92	26632	3	0	3	93
				5W	25458	4	0	3	89	26796	4	0	3	94	27155	4	0	3	95

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

Kim Lighting reserves the right to change specifications without notice.

SPECIFICATIONS

Housing:

- Low copper aluminum alloy die-casting is designed as one-piece with internal cooling fins.
- Solid, cast aluminum wall creates a thermal barrier between the optical and electrical compartments.
- Molded silicone gasket throughout insures the sealing between the two compartments and provides ingress protection.
- Housing is designed with integral LED heat sink utilized for thermal transfer and for securing the location of each LED module.
- IK09 rated enclosure protects electrical equipment against external mechanical impacts.

Lens Frame:

- One-piece low copper aluminum alloy die-cast is secured to housing with 6 screws.

Backlight Control

- Optional Backlight Control on each LED module to completely control unwanted backlight.

Lens

One-piece flat glass lens slips secure with clips. Extra silicone gasketing is provided to retain a clear optical compartment.

Optical Module:

- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB).
- Optical lenses shall be clear injection molded PMMA acrylic.
- Each MCPCB and optic shall be sealed to the diecast housing and sealed with a continuous one piece injection molded silicone rubber gasket.
- Patent Pending design of optical array shall independently shield each LED optic across the length of the aperture.
- Optional fixture finish optical surfaces shall not exceed BUG ratings of the standard white finish and shall be greater than or equal to the delivered lumens of the optional matte black optical surface finish.

Electrical Components

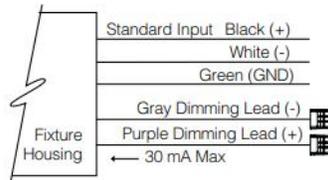
- Standard programmable driver allows for programmable drive current settings.
- Electrical components are strategically located in the driver gear compartment with a molded silicon grommet seal to provide separation from the optical chamber.
- Maximum lightning surge current 20KA with thermally protected varistor technology. Surge suppression is series circuited preventing

total fixture failure. ANSI/IEEE C62.41 Category C High.

- Open circuit fault will turn off the luminaire in order to protect the sensitive electronics and acts as a signal for maintenance.
- Programmable Driver is rated for -40°C starting.
- "Thermal Shield", primary side, thermister provides protection for the sustainable life of electronic components (350mA to 700mA).

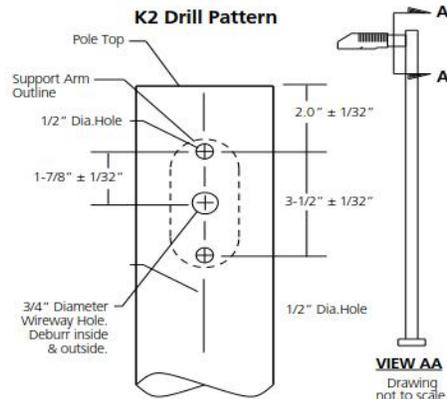
Dimming:

- Dimming range from 100% to 10% through the use of the standard 0-10V interface on the programmable driver.
- Modular wiring harness in the service area provides user access to the dimming circuitry.
- Dimming circuitry compatible with 0-10V, user-defined control devices.
- Optional factory programmed dimming profile.



Support Arm:

- Die-cast, low copper aluminum alloy, with splice access cover.
- Die-cast pole adaptor and an internal reinforcing plate are provided with a wire strain relief.
- The arm adapter is square or circular cut for specified pole size and shape.
- For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. The block accepts #14 to #8 wire sizes and is factory prewired to the electrical module's quick-disconnect plug inside the electrical compartment.



Optional Slip-Fitter:

- Internally accessible slip-fitter attaches to a 1-1/4" to 2-3/8" tenon and allows hands-free wiring and maintenance.

Optional Wall Mount:

- Optional, cast aluminum mounting plate attaches to a wall over a junction box and the speed mount is bolted to the cover plate. To complete the wiring, the luminaire assembly slides over the mounting plate.

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.

Finish:

Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.

Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, (WH) White, and (CC) Custom Color (Include RAL#).

Certifications and Listings:

- UL 1598 Standard for Luminaires.
- UL 8750 Standard for Safety for Light.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- 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>

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CONTROLS

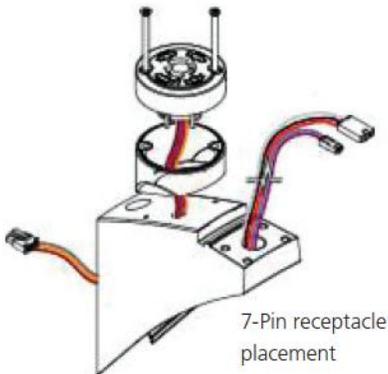
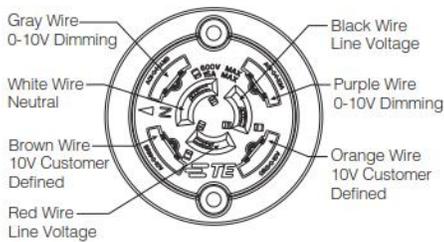
Photocell Receptacle

7PR

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.



- Factory default settings for SCP option shall be:- High mode: 10V - Low mode: 1V - Ramp-uprate: disabled - Fade-down rate: disabled -Photocell: Off - Sensitivity: Full - Time Delay: Fade to low: 5 minutes - Time Delay: Fade to off: 1 hour
- The SCP enables any wall mounted luminaire, in excess of 75 watts, to meet California Title 24 requirements with integral 10KA surge protection for added reliability and serviceability. For more detail: http://www.aal.net/products/sensor_control_programmable

AstroDIM

AstroDIM provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.

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.hubbelllighting.com/products/sitesync for more details.

Wireless Controls

- Optional universal voltage (120-277V) for dusk to dawn energy savings. Photocontrol 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.
- Occupancy Sensor shall be programmable and use passive infrared (PIR) sensing technology that reacts to changes in infrared energy (moving body heat) within the coverage area. Careful consideration must be given to obstructions that may block the sensor's line of sight.

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.

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²Voltage, ³Color, ⁴Pole Diameter,

JOB _____

TYPE PT4A

NOTES _____

APPROVALS _____

FEATURES

- 20" size in post top, pole and wall mount
- High performance optics up to 17,000 delivered lumens
- Elegant form factor
- Diffusion lens option
- SiteSync™ wireless control options

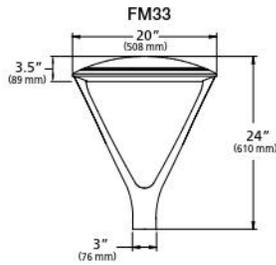
CERTIFICATIONS



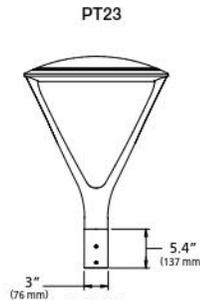
SPECIFICATIONS



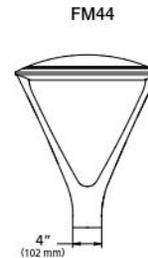
Weight: 35 lbs



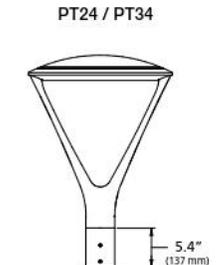
EPA: .512



EPA: N/A



EPA: .534



EPA: .424 / .608

ORDERING CODE

Series	LED Engine	CCT	Distribution	Rotation	Voltage	Mounting
UR20 Ouro	No Lens or Clear Lens 24L-25 3,000 lm 24L-65 7,000 lm 56L-75 10,000 lm 56L-110 15,000 lm 56L-140 17,000 lm HDL - High Diffusion Lens 28L-30 3,000 lm 28L-70 7,000 lm 68L-80 9,000 lm 68L-115 13,000 lm 68L-150 15,000 lm	AM Amber 3K7 3000K, 70 CRI 3K8 3000K, 80 CRI 3K9 3000K, 90 CRI 4K7 4000K, 70 CRI 4K8 4000K, 80 CRI 5K7 5000K, 70 CRI	No Lens or Clear Lens FR Type I/Front Row 2 Type II 3 Type III 4 Type IV 4W Type IV Wide 5QM Type V Square Medium 5QN Type V Square Narrow 5R Type V Rectangular 5W Type V Wide (Round) HDL - High Diffusion Lens 3 Type III/Asymmetric 5W Type V/Symmetric	Blank for no rotation L ¹ Optic rotation left R ¹ Optic rotation right	UNV 120-277V 347 347V 480 480V DALI 120-277V [†] [†] Consult factory	FM33 Flush mt 3.0" OD pole, 3" fixture base FM44 Flush mt 3.6" to 4.0" OD pole, 4" fixture base PT23 3" Post Top mount for 2 3/8" OD Tenon PT24 4" Post Top mount for 2 3/8" OD Tenon PT34 4" Post Top mount for 2 7/8" OD Tenon
Fixture Finish	Control Options	Options	Control Accessories [^]			
BL Black DB Dark Bronze LG Light Gray GT Graphite PS Platinum Silver TT Titanium WH White CC Custom Color [†] [†] Consult factory	7PR-TL 7 pin PCR with twist lock photocontrol 7PR-SC 7 pin PCR with shorting cap 7PR 7 pin PCR, wireless control enabled AD-01 ² AstroDIM: 50% output at midnight AD-02 ² AstroDIM: 50% output midnight to 4 AM AD-03 ² AstroDIM: 50% output 10PM AD-04 ² AstroDIM: 50% output 10PM to 4AM NXWE NX Wireless Enabled SWP ^{2,3,4} SiteSync Pre commission	SWPM-40F ^{2,3,4,5} SiteSync with Sensor 9' to 40' MH WSP-40F-1 ^{2,5} Dimming Occ. Sensor for up to 40' MH, 120/277/347V WSP-40F-2 ^{2,5} Dimming Occ. Sensor for up to 40' MH, 208/240V WSP-40F-3 ^{2,5} Dimming Occ. Sensor for up to 40' MH, 480V NXSPW14F ^{2,5} NX Wireless, PIR Sensor, 14' NXSPW30F ^{2,5} NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30'. NXSP14F ^{2,5} NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXSP30F ^{2,5} NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30'	SW7PR ^{2,3} SiteSync with 7 pin PCR SWUSB SiteSync Software on USB SWTAB SiteSync Windows [®] Tablet SWBRG SiteSync Wireless Bridge Node WIR-RME-L wiSCAPE External Fixture Module SCL-R Occ. Sensor for Round Pole (up to 16' MH) SCL-S Occ. Sensor for Square Pole (up to 16' MH) SCH-R Occ. Sensor for Round Pole (16' to 30' MH) SCH-S Occ. Sensor for Square Pole (16' to 30' MH) NXOFM-1R1D-UNV NX 7-pin Module [^] Please refer to page 8 for ordering details	BC ⁶ Back-light Control SF Single Fuse DF Double Fuse TB Terminal Block CLR ⁵ Clear Lens TL Tamper proof latch	BC ⁶ Back-light Control SF Single Fuse DF Double Fuse TB Terminal Block CLR ⁵ Clear Lens TL Tamper proof latch	BC ⁶ Back-light Control SF Single Fuse DF Double Fuse TB Terminal Block CLR ⁵ Clear Lens TL Tamper proof latch

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1 Not available with 5QM, 5QN, and 5W distributions.
2 Not available with other sensor or wireless control options.
3 Specify group and zone at time of order. See www.hubbellighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.
4 Not available with 347V and 480V
5 24L & 56L only.
6 Not available with Type V distributions or HDL option.

LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K				4000K				5000K						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
24L	3,000	25	No Lens	FR	2932	0	0	1	115	3119	0	0	1	123	3098	0	0	1	124
				FR-BC	1994	0	0	0	78	2121	0	0	0	83	2107	0	0	0	83
				2	2943	1	0	1	116	3099	1	0	1	122	3110	1	0	1	124
				2-BC	1724	0	0	1	68	1834	0	0	1	72	1822	0	0	1	72
				3	3007	1	0	1	118	3200	1	0	1	126	3178	1	0	1	127
				3-BC	1830	0	0	1	73	1947	0	0	1	78	1934	0	0	1	77
				4	3056	0	0	1	120	3251	0	0	1	128	3229	0	0	1	129
				4-BC	2235	0	0	1	88	2377	0	0	1	93	2362	0	0	1	93
				4W	3078	1	0	2	121	3276	1	0	2	129	3253	1	0	2	130
				4W-BC	1855	0	0	1	73	1975	0	0	1	78	1961	0	0	1	77
				5QM	2931	2	0	1	115	3119	2	0	1	123	3098	2	0	1	124
				5QN	2694	2	0	1	106	2866	2	0	1	113	2847	2	0	1	114
			5R	3054	2	0	2	120	3250	2	0	2	128	3228	2	0	2	129	
			5W	3043	2	0	1	120	3237	2	0	1	127	3216	2	0	1	129	
			Clear Lens	FR	2773	0	0	1	109	2951	0	0	1	116	2930	0	0	1	117
				FR-BC	1886	0	0	1	74	2007	0	0	1	79	1993	0	0	1	78
				2	2784	1	0	1	109	2963	1	0	1	116	2942	1	0	1	118
				2-BC	1631	0	0	1	64	1736	0	0	1	68	1723	0	0	1	67
				3	2845	1	0	1	111	3028	1	0	1	119	3007	1	0	1	120
				3BC	1806	0	0	1	72	1922	0	0	1	77	1909	0	0	1	76
				4	2891	0	0	1	113	3076	0	0	1	120	3055	0	0	1	122
				4-BC	2114	0	0	1	83	2250	0	0	1	88	2234	0	0	1	88
				4W	2912	1	0	1	114	3099	1	0	2	121	3077	1	0	2	123
				4W-BC	1755	0	0	1	69	1868	0	0	1	73	1855	0	0	1	5
5QM	2773	1		0	1	109	2950	2	0	1	116	2931	2	0	1	117			
5QN	2549	1		0	0	100	2712	2	0	1	106	2693	2	0	1	108			
5R	2890	2	0	2	113	3075	2	0	2	120	3054	2	0	2	122				
5W	2879	2	0	1	113	3064	2	0	1	120	3042	2	0	1	122				
28L		30	HDL Lens	3	2816	1	0	1	96	2997	1	0	1	102	3020	1	0	1	101
				5W	2917	1	0	1	100	3105	1	0	1	106	3084	1	0	1	103

Kim Lighting reserves the right to change specifications without notice.

LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K				4000K				5000K							
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	
						B	U	G			B	U	G			B	U	G		
24L	7,000	65	No Lens	FR	6754	1	0	1	104	7187	1	0	1	111	7138	1	0	1	110	
				FR-BC	4392	0	0	1	68	4673	0	0	1	72	4641	0	0	1	71	
				2	6571	1	0	2	101	6992	1	0	2	108	6944	1	0	2	107	
				2-BC	3799	0	0	1	58	4042	0	0	1	62	4014	0	0	1	62	
				3	6625	1	0	2	102	7051	1	0	2	108	7002	1	0	2	108	
				3BC	4032	0	0	1	62	4291	0	0	1	66	4261	0	0	1	66	
				4	6788	1	0	2	104	7223	1	0	2	111	7174	1	0	2	110	
				4-BC	4924	0	0	2	76	5239	0	0	2	81	5203	0	0	2	80	
				4W	6699	1	0	2	103	7128	1	0	3	110	7079	1	0	3	109	
				4W-BC	4088	0	0	2	63	4350	0	0	2	67	4321	0	0	2	66	
				5QM	7025	3	0	1	108	7477	3	0	1	115	7425	3	0	1	114	
				5QN	6964	3	0	1	107	7410	3	0	1	114	7323	3	0	1	113	
				5R	7038	3	0	3	108	7489	3	0	3	115	7437	3	0	3	114	
				5W	7011	3	0	2	108	7460	3	0	2	115	7409	3	0	2	114	
				Clear Lens	FR	6432	1	0	1	97	6844	1	0	1	104	6798	1	0	1	105
					FR-BC	4182	0	0	1	63	4450	0	0	1	67	4420	0	0	1	67
					2	6258	1	0	1	95	6659	1	0	2	101	6613	1	0	2	102
					2-BC	3617	0	0	1	55	3849	0	0	1	58	3823	0	0	1	58
		3	6310		1	0	2	96	6714	1	0	2	102	6668	1	0	2	103		
		3-BC	3599		0	0	1	55	3829	0	0	1	59	3803	0	0	1	59		
		4	6465		1	0	2	98	6879	1	0	2	104	6832	1	0	2	105		
		4-BC	4688		0	0	2	71	4990	0	0	2	76	4955	0	0	2	75		
		4W	6380		1	0	2	97	6789	1	0	2	103	6742	1	0	2	104		
		4W-BC	3893		0	0	2	59	4143	0	0	2	63	4115	0	0	2	62		
5QM	6691	3	0		1	101	7119	3	0	1	108	7070	3	0	1	109				
5QN	6632	2	0		1	100	7058	3	0	1	107	7009	3	0	1	108				
5R	6702	3	0	3	102	7131	3	0	3	108	7082	3	0	3	109					
5W	6676	3	0	2	101	7104	3	0	2	108	7055	3	0	2	109					
28L		70	HDL Lens	3	6047	2	0	2	92	6047	2	0	2	92	6236	2	0	2	89	
				5W	6221	2	0	1	94	6619	2	0	1	100	6525	2	0	1	93	

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Published Wattage	Lens Options	Distribution	3000K					4000K					5000K				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
56L	10,000	75	No Lens	FR	9315	1	0	1	124	9913	1	0	1	132	9845	1	0	1	131
				FR-BC	6058	0	0	1	81	6445	0	0	1	86	6402	0	0	1	85
				2	9063	2	0	2	120	9644	2	0	2	128	9578	2	0	2	128
				2-BC	5239	0	0	1	70	5575	0	0	1	74	5536	0	0	1	74
				3	9139	2	0	2	125	9725	2	0	2	134	9657	2	0	2	129
				3-BC	5561	0	0	2	74	5877	0	0	2	78	5561	0	0	2	74
				4	9362	1	0	2	124	9362	1	0	2	124	9876	1	0	2	132
				4-BC	6791	0	0	2	90	7226	0	0	2	96	7168	0	0	2	96
				4W	9240	2	0	3	123	9832	2	0	3	131	9765	2	0	3	130
				4W-BC	5639	0	0	2	75	6001	0	0	2	80	5959	0	0	2	79
				5QM	9691	3	0	1	129	10312	3	0	1	137	10240	3	0	1	137
				5QN	9606	3	0	1	128	10222	3	0	1	136	10151	3	0	1	135
			5R	9706	3	0	3	129	10328	3	0	3	137	10258	3	0	3	137	
			5W	9669	4	0	2	129	10289	4	0	2	137	10217	4	0	2	136	
			Clear Lens	FR	8871	1	0	1	117	9760	1	0	1	129	9374	1	0	1	125
				FR-BC	5769	0	0	1	76	6138	0	0	1	81	6096	0	0	1	81
				2	8631	2	0	2	114	9183	2	0	2	121	9121	2	0	2	122
				2-BC	4989	0	0	1	67	5309	0	0	1	71	5272	0	0	1	62
				3	8703	1	0	2	115	9260	2	0	2	122	9197	2	0	2	123
				3-BC	4964	1	0	1	66	5282	1	0	2	70	5245	1	0	2	69
				4	8916	1	0	2	118	9487	1	0	2	125	9423	1	0	2	126
				4-BC	6467	0	0	2	85	6881	0	0	2	91	6834	0	0	2	90
				4W	8799	2	0	3	116	9363	2	0	3	124	9300	2	0	3	124
				4W-BC	5370	0	0	2	72	5714	1	0	2	76	5675	0	0	2	76
5QM	9228	3		0	1	122	9820	3	0	1	130	9752	3	0	1	130			
5QN	9147	3		0	1	121	9734	3	0	1	129	9668	3	0	1	129			
5R	9244	3	0	3	122	9836	3	0	3	130	9769	3	0	3	130				
5W	9208	4	0	2	122	9798	4	0	2	130	9732	4	0	2	130				
68L		80	HD Lens	3	7853	2	0	2	99	8356	2	0	2	106	8299	2	0	2	104
				5W	8080	2	0	2	102	8684	3	0	2	110	8684	3	0	2	109

Kim Lighting reserves the right to change specifications without notice.

LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Published Wattage	Lens Options	Distribution	3000K					4000K					5000K				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
56L	15,000	110	No Lens	FR	13533	1	0	1	125	14399	1	0	2	133	14301	1	0	2	130
				FR-BC	8799	1	0	1	81	9363	1	0	1	86	9300	1	0	1	85
				2	13165	2	0	2	121	14009	2	0	2	129	13913	2	0	2	126
				2-BC	7611	1	0	2	70	8098	1	0	2	75	8042	1	0	2	74
				3	13275	2	0	3	122	14126	2	0	3	130	14030	2	0	3	128
				3-BC	8079	1	0	2	73	8596	1	0	2	78	8538	1	0	2	78
				4	13601	1	0	3	125	14472	1	0	3	133	14373	1	0	3	131
				4-BC	9865	1	0	2	91	10497	1	0	3	97	10425	1	0	3	96
				4W	13422	2	0	3	124	14283	2	0	3	132	14185	2	0	3	129
				4W-BC	8191	1	0	3	75	8715	1	0	3	80	8656	1	0	3	80
				5QM	14077	4	0	2	130	14979	4	0	2	138	14876	4	0	2	135
				5QN	13953	4	0	1	129	14848	4	0	1	137	14747	4	0	1	134
			5R	14100	4	0	4	130	15004	4	0	4	138	14901	4	0	4	135	
			5W	14046	4	0	2	129	14946	4	0	2	138	14844	4	0	3	135	
			Clear Lens	FR	12803	1	0	1	118	13624	1	0	1	126	13531	1	0	1	123
				FR-BC	9298	1	0	1	86	8325	1	0	1	77	8798	1	0	1	81
				2	12455	2	0	2	115	13254	2	0	2	123	13164	2	0	2	120
				2-BC	7200	1	0	1	67	7661	1	0	2	71	7610	1	0	2	70
				3	12560	2	0	3	116	13365	2	0	3	124	13273	2	0	3	121
				3-BC	7163	1	0	2	65	7622	1	0	2	69	7570	1	0	2	69
				4	12868	1	0	3	119	13692	1	0	3	127	13599	1	0	3	124
				4-BC	9333	1	0	2	86	9931	1	0	2	92	9864	1	0	2	90
				4W	12699	2	0	3	117	13513	2	0	3	125	13420	2	0	3	122
				4W-BC	7750	1	0	3	72	8246	1	0	3	76	8190	1	0	3	76
5QM	13318	3		0	2	123	14172	4	0	2	131	14075	4	0	2	128			
5QN	13202	3		0	1	122	14048	4	0	1	130	13951	4	0	1	127			
5R	13341	4	0	4	123	14195	4	0	4	131	14099	4	0	4	128				
5W	13290	4	0	2	123	14141	4	0	2	131	14044	4	0	2	128				
68L		115	HD Lens	3	11577	2	0	2	102	12320	2	0	2	109	12236	2	0	2	106
				5W	11912	3	0	2	105	12676	3	0	2	112	12588	3	0	2	109

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Published Wattage	Lens Options	Distribution	3000K					4000K					5000K				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
56L	17,000	140	No Lens	FR	15323	2	0	2	111	16306	2	0	2	118	16194	2	0	2	116
				FR-BC	9964	1	0	1	72	10603	1	0	1	77	10530	1	0	1	76
				2	14897	2	0	2	108	15852	2	0	2	115	15743	2	0	2	112
				2-BC	8618	1	0	2	63	9169	1	0	2	67	9107	1	0	2	66
				3	15032	2	0	3	109	15996	2	0	3	116	15886	2	0	3	113
				3-BC	9147	1	0	2	65	9733	1	0	2	70	9667	1	0	2	69
				4	15400	1	0	3	112	16387	1	0	4	119	16275	1	0	4	116
				4-BC	11170	1	0	3	81	11886	1	0	3	86	11804	1	0	3	86
				4W	15198	2	0	4	110	16173	3	0	4	117	16062	3	0	4	115
				4W-BC	9275	1	0	3	67	9869	1	0	3	72	9801	1	0	3	71
				5QM	15939	4	0	2	116	16962	4	0	2	123	16845	4	0	2	120
				5QN	15801	4	0	1	115	16813	4	0	1	122	16698	4	0	1	119
			5R	15966	4	0	4	116	16990	4	0	4	123	16874	4	0	4	121	
			5W	15906	4	0	3	115	16925	4	0	3	123	16808	4	0	3	120	
			Clear Lens	FR	14541	1	0	2	105	15473	2	0	2	111	15367	2	0	2	110
				FR-BC	9456	1	0	1	68	10061	1	0	1	72	9993	1	0	1	72
				2	14146	2	0	2	102	15053	2	0	2	108	14950	2	0	2	107
				2-BC	8178	1	0	2	59	8702	1	0	2	63	8642	1	0	2	62
				3	14265	2	0	3	103	15179	2	0	3	109	15076	2	0	3	108
				3BC	8136	1	0	2	58	8657	1	0	2	62	8598	1	0	2	61
				4	14614	1	0	3	105	15551	1	0	3	112	15445	1	0	3	110
				4-BC	10600	1	0	3	76	11279	1	0	3	81	11203	1	0	3	81
				4W	14423	2	0	3	104	15347	2	0	4	111	15243	2	0	4	109
				4W-BC	8802	1	0	3	63	9365	1	0	3	67	9302	1	0	3	67
5QM	15126	4		0	2	109	16095	4	0	2	116	15985	4	0	2	114			
5QN	14994	4		0	1	108	15955	4	0	1	115	15846	4	0	1	113			
5R	15152	4	0	4	109	16122	4	0	4	116	16012	4	0	4	114				
5W	15094	4	0	3	109	16061	4	0	3	116	15951	4	0	3	114				
68L		115	HD Lens	3	13240	2	0	2	89	13992	3	0	3	95	13897	3	0	3	93
				5W	13623	3	0	2	92	14396	3	0	2	97	14298	3	0	2	95

Electrical Characteristics										Dimming						
System Watts	Drive Current	Line Voltage		Amps AC						Min. Power Factor	Max THD (%)	Dimming Range	Source current out		Absolute voltage	
		VAC	Hz	120	208	240	277	347	480				Min	Max	Min	Max
25	298mA	120-480	50/60	0.21	0.12	0.10	0.09	0.07	0.05	>0.9	20	10% to 100%	0mA	1mA	0V	10V
30	298mA			0.25	0.14	0.13	0.11	0.09	0.06							
65	800mA			0.54	0.31	0.27	0.23	0.19	0.14							
70	700mA			0.58	0.34	0.29	0.25	0.20	0.15							
75	420mA			0.63	0.36	0.31	0.27	0.22	0.16							
80	350mA			0.67	0.38	0.33	0.29	0.23	0.17							
110	600mA			0.92	0.53	0.46	0.40	0.32	0.23							
115	500mA			0.96	0.55	0.48	0.42	0.33	0.24							
140	750mA			1.17	0.67	0.58	0.51	0.40	0.29							
150	625mA			1.25	0.72	0.63	0.54	0.43	0.31							

TM-21 LIFETIME CALCULATION

Projected Lumen Maintenance (25°C / 77°F)						
HOURS	0	25,000	36,000	50,000	100,000	Reported L70
Projected Lumen Maintenance	100%	97%	95%	93%	87%	> 60,000 hrs

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SPECIFICATIONS

Housing:

- Low copper aluminum alloy die-casting is designed as one-piece with internal cooling fins.
- Solid, cast aluminum wall creates a thermal barrier between the optical and electrical compartments.
- Molded silicone gasket throughout insures the sealing between the two compartments and provides ingress protection.
- Housing is designed with integral LED heat sink utilized for thermal transfer and for securing the location of each LED module.
- IK09 rated enclosure protects electrical equipment against external mechanical impacts.

Lens Frame:

- One-piece low copper aluminum alloy die-cast is secured to housing with 6 screws.

Backlight Control

- Optional Backlight Control on each LED module to completely control unwanted backlight.

Lens

One-piece flat glass lens slips secure with clips. Extra silicone gasketing is provided to retain a clear optical compartment.

Optical Module:

- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB).
- Optical lenses shall be clear injection molded PMMA acrylic.
- Each MCPCB and optic shall be sealed to the diecast housing and sealed with a continuous one piece injection molded silicone rubber gasket.
- Patent Pending design of optical array shall independently shield each LED optic across the length of the aperture.
- Optional fixture finish optical surfaces shall not exceed BUG ratings of the standard white finish and shall be greater than or equal to the delivered lumens of the optional matte black optical surface finish.

Electrical Components

- Standard programmable driver allows for programmable drive current settings.
- Electrical components are strategically located in the driver gear compartment with a molded silicon grommet seal to provide separation from the optical chamber.
- Maximum lightning surge current 20KA with thermally protected varistor technology. Surge suppression is series circuited preventing

total fixture failure. ANSI/IEEE C62.41 Category C High.

- Open circuit fault will turn off the luminaire in order to protect the sensitive electronics and acts as a signal for maintenance.
- Programmable Driver is rated for -40°C starting.
- "Thermal Shield", primary side, thermister provides protection for the sustainable life of electronic components.

Dimming:

- Dimming range from 100% to 10% through the use of the standard 0-10V interface on the programmable driver.
- Modular wiring harness in the service area provides user access to the dimming circuitry.
- Dimming circuitry compatible with 0-10V, user-defined control devices.
- Optional factory programmed dimming profile.



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.

Finish:

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

Certifications and Listings:

- IUL 1598 Standard for Luminaires.
- IUL 8750 Standard for Safety for Light
- IEmitting Diode (LED) Equipment for use in Lighting Products.
- ICSA C22.2#250.0 Luminaires.
- ANSI C136.31-2010 Vibration tested and compliant 3.0 G Test Level 2 – Bridge/Overpass Applications
- IIP66 rated luminaire.

- IROHS compliant.
- IIP66 rated.
- IIEC 66262 Mechanical Impact Code IK09.
- 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>

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CONTROLS

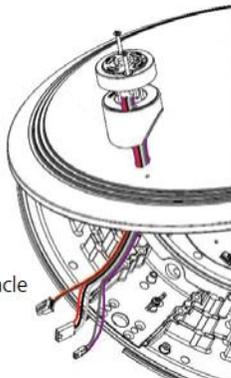
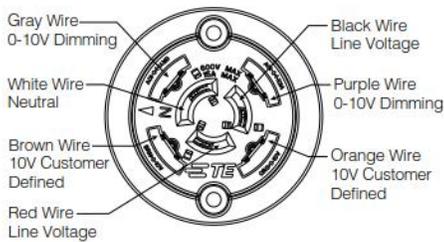
Photocell Receptacle

7PR

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.



7-Pin receptacle placement

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-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.

Dimming WASP Occupancy Sensor WSP

The Dimming WASP Outdoor Occupancy Sensor is specifically designed to provide 0-10VDC output for the control of dimmable fixtures. Easy to use dipswitches allow the user to adjust sensor time delay and sensitivity as well as set unoccupied and occupied dimming levels. Sensors also feature a daylight sensor for ON/OFF control of fixtures when there is sufficient natural light. Visit https://hubbellcdn.com/installationmanuals/2102B_Dimming_WASP_Install.pdf for more details.

Pole Mounted

Round Pole-Mounted Occupancy Sensor up to 16'. Select voltage and finish color.

SCL-R

Round Pole-Mounted Occupancy Sensor up to 16' - 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: SCL-R44/277²/BL³

Square Pole-Mounted Occupancy Sensor up to 16'. Select voltage and finish color.

SCL-S

Square Pole-Mounted Occupancy Sensor up to 16' - 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 square pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCL-L/277²/BL³

Round Pole-Mounted Occupancy Sensor 16' to 30'. Select voltage and finish color.

SCH-R

Round Pole-Mounted Occupancy Sensor: 16' 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 16' to 30'. Select voltage and finish color.

SCH-S

Square Pole-Mounted Occupancy Sensor: 16 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

AstroDIM

AstroDIM provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.

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 : UR20/56L-75/3K7/UNV/ASQ/BL/SWP

SiteSync with Motion Control: UR20/56L-75/3K7/UNV/ASQ/BL/SWPM-40F

²Voltage, ³Color, ⁴Pole Diameter,

JOB _____

TYPE WP3A

NOTES _____

APPROVALS _____

FEATURES

- Elegant form factor
- High performance optics up to 35,000 delivered lumens
- Diffusion lens for low glare comfort
- NX™ wireless control options

CERTIFICATIONS

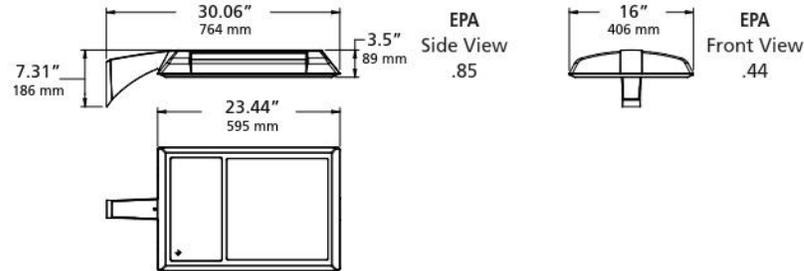


3000K and warmer CCTs only

SPECIFICATIONS



Weight: 34.6 lbs / 15.69 kg



ORDERING CODE

Series	LED Engine	CCT	Distribution	Rotation	Voltage	Mounting
ALT2 Altitude	No Lens 100L-160 20,000 lm 100L-200 25,000 lm 100L-240 30,000 lm 100L-285 35,000 lm	AM Amber 3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI 3K8 3000K, 80 CRI 4K8 4000K, 80 CRI 3K9 3000K, 90 CRI	FR Type I/Front Row 2 Type II 3 Type III 4 Type IV 4W Type IV Wide 5QM Type V Square Medium 5QN Type V Square Narrow 5R Type V Rectangular 5W Type V Wide (Round)	Blank for no rotation L ¹ Optic rotation left R ¹ Optic rotation right	UNV 120-277V 347 347V 480 480V	ASQ Arm Square pole A34 Arm mt 3.3-4.2" OD pole A46 Arm mt 4.5-6.0" OD pole MAF Horizontal Slipfitter 2 3/8" OD arm SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.) VSF Vertical Slipfitter Mount for 2" pipe tenon, (2-3/8" O.D.) WB Wall Bracket for area wall mount
Fixture Finish	Control Options		Options	Control Accessories		
BL Black DB Dark Bronze GT Graphite LG Light Gray PS Platinum Silver TT Titanium WH White CC Custom Color [†] † Consult factory	7PR 7 pin PCR, wireless control enabled 7PR-TL 7 pin PCR with twist lock photocontrol 7PR-SC 7 pin PCR with shorting cap AD-01 ² AstroDIM: 50% output at midnight AD-02 ² AstroDIM: 50% output midnight to 4 AM AD-03 ² AstroDIM: 50% output 10PM AD-04 ² AstroDIM: 50% output 10PM to 4AM NXSP14F ^{2,3} Wired NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXSP30F ^{2,3} Wired NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' NXSPW14F ^{2,3} NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXSPW30F ^{2,3} NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' NXWE NX Wireless Enabled	SCL-8F Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights up to 8' SCL-40F Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights 9' to 40' SCP-8F Remote control programmable line voltage sensor, use with SCPREMOTE SCP-40F Remote control programmable line voltage sensor, use with SCPREMOTE SWP ^{2,3,4} Site Sync™ Pre Commission Wireless Module SWPM-40F ^{2,3,4} Site Sync with Sensor 9' to 40' MH	BC ⁵ Backlight Control SF Single Fuse DF Double Fuse TB Terminal Block CLR Clear Lens HDL ⁶ Diffuse Lens	SCPREMOTE Remote control for SCP option. Order at least one per project to program and control the occupancy sensor SW7PR SiteSync™ on fixture module via 7PR SWUSB SiteSync™ Software on USB SWTAB SiteSync™ Windows Tablet SWBRG SiteSync™ Wireless Bridge Node SWFC SiteSync™ Field Commission Service WIR-RME-L wiSCAPE™ External Fixture Module NXOFM-1R1D-UNV NX External Control Node		

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

- 1 Not available with 5QM and 5W distributions.
- 2 Not available with other sensor or wireless control options.
- 3 Not available in 480V.
- 4 Specify group and zone at time of order. See www.hubbellighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.
- 5 Not available with Type 5 distributions, CLR, or HDL option.
- 6 Only available in Type 3 or Type 5W

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	20,000	160	No Lens	FR	20843	2	0	2	130	21939	2	0	2	137	22233	2	0	2	139
				FR-BC	12486	1	0	1	78	13142	1	0	1	82	13318	1	0	1	84
				2	19189	3	0	3	120	20198	3	0	3	126	20469	3	0	3	129
				2-BC	10631	1	0	2	66	11190	1	0	2	70	11340	1	0	2	72
				3	19729	2	0	4	123	20766	2	0	4	130	21044	2	0	4	132
				3-BC	9732	1	0	2	61	10244	1	0	2	64	10381	1	0	2	66
				4	19545	2	0	4	122	20573	2	0	4	129	20848	2	0	4	131
				4-BC	11562	1	0	2	72	12170	1	0	2	76	12333	1	0	2	78
				4W	19567	2	0	4	122	20596	2	0	4	129	20872	2	0	4	130
				4W-BC	8203	1	0	2	51	8634	1	0	2	54	8750	1	0	2	56
				5R	20311	4	0	4	127	21379	4	0	4	134	21665	4	0	4	135
				5QM	20697	4	0	2	129	21785	4	0	2	136	22077	4	0	2	137
				5QN	20265	4	0	1	127	21330	4	0	1	133	21616	4	0	1	136
				5W	20116	5	0	3	126	21174	5	0	3	132	21457	5	0	3	134
			Clear Lens	FR	19495	2	0	2	123	20520	2	0	2	130	20795	2	0	2	132
				2	17948	2	0	3	114	18892	3	0	3	120	19145	3	0	3	121
				3	18045	2	0	3	114	18994	2	0	3	120	19248	2	0	3	122
				4	18281	1	0	4	116	19242	2	0	4	122	19500	2	0	4	123
				4W	18302	2	0	4	116	19264	2	0	4	122	19522	2	0	4	124
				5R	18997	4	0	4	120	19996	4	0	4	127	20264	4	0	4	128
				5QM	19359	4	0	2	123	20376	4	0	2	129	20649	4	0	2	131
				5QN	18954	4	0	1	120	19951	4	0	1	126	20218	4	0	1	128
			5W	18815	5	0	3	119	19804	5	0	3	125	20069	5	0	3	127	
			HDL Lens	3	15474	3	0	3	97	16287	3	0	3	102	16505	3	0	3	104
5W	16224	3		0	2	102	17076	3	0	2	107	17305	3	0	2	108			

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

Kim Lighting reserves the right to change specifications without notice.

LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	25,000	200	No Lens	FR	24095	2	0	2	122	25362	2	0	2	128	25702	2	0	2	130
				FR-BC	14434	1	0	1	73	15193	1	0	1	77	15396	1	0	1	78
				2	22183	3	0	3	112	23349	3	0	3	118	23662	3	0	3	120
				2-BC	12290	1	0	2	62	12936	1	0	2	65	13109	1	0	2	66
				3	22807	2	0	4	115	24006	3	0	4	121	24327	3	0	4	123
				3-BC	11251	1	0	2	57	11842	1	0	2	60	12001	1	0	2	61
				4	22595	2	0	4	114	23782	2	0	4	120	24101	2	0	4	122
				4-BC	13366	1	0	3	68	14069	1	0	3	71	14257	1	0	3	72
				4W	22620	3	0	4	114	23809	3	0	5	120	24128	3	0	5	122
				4W-BC	9483	1	0	2	48	9982	1	0	2	50	10115	1	0	2	51
				5R	23480	4	0	4	119	24714	4	0	4	125	25045	4	0	4	126
				5QM	23927	4	0	2	121	25184	4	0	2	127	25522	4	0	2	129
				5QN	23427	5	0	1	118	24658	5	0	1	125	24988	5	0	1	126
				5W	23255	5	0	3	117	24477	5	0	3	124	24805	5	0	3	125
			Clear Lens	FR	22537	2	0	2	114	23722	2	0	2	120	24039	2	0	2	121
				2	20749	3	0	3	105	21839	3	0	3	110	22132	3	0	3	112
				3	21332	2	0	4	108	22453	2	0	4	113	22754	2	0	4	115
				4	21133	2	0	4	107	22244	2	0	4	112	22542	2	0	4	114
				4W	21157	2	0	4	107	22270	2	0	4	112	22568	3	0	4	114
				5R	21961	4	0	4	111	23116	4	0	4	117	23425	4	0	4	118
				5QM	22379	4	0	2	113	23556	4	0	2	119	23871	4	0	2	121
				5QN	21912	4	0	1	111	23063	5	0	1	116	23372	5	0	1	118
			5W	21751	5	0	3	110	22894	5	0	3	116	23201	5	0	3	117	
			HDL Lens	3	18134	3	0	3	92	19087	3	0	3	96	19343	3	0	3	98
				5W	18490	3	0	2	93	19462	4	0	2	98	19723	4	0	2	100

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	30,000	240	No Lens	FR	28520	2	0	2	118	30020	2	0	2	125	30422	2	0	2	126
				FR-BC	17085	1	0	1	71	17983	1	0	1	75	18223	1	0	1	76
				2	26257	3	0	4	109	27638	3	0	4	115	28008	3	0	4	116
				2-BC	14547	1	0	2	60	15312	1	0	2	64	15517	1	0	2	64
				3	26995	3	0	4	112	28415	3	0	4	118	28795	3	0	4	119
				3-BC	13317	1	0	2	55	14017	1	0	2	58	14205	1	0	2	59
				4	26744	2	0	4	111	28150	2	0	5	117	28527	2	0	5	118
				4-BC	15821	1	0	3	66	16653	1	0	3	69	16876	1	0	3	70
				4W	26775	3	0	5	111	28182	3	0	5	117	28559	3	0	5	119
				4W-BC	11225	1	0	2	47	11815	1	0	2	49	11973	1	0	2	50
				5R	27792	5	0	5	115	29253	5	0	5	121	29645	5	0	5	123
				5QM	28321	4	0	2	118	29809	5	0	3	124	30209	5	0	3	125
			5QN	27729	5	0	1	115	29187	5	0	1	121	29578	5	0	1	123	
			5W	27525	5	0	4	114	28972	5	0	4	120	29360	5	0	4	122	
			Clear Lens	FR	26676	2	0	2	111	28078	2	0	2	117	28454	2	0	2	118
				2	24559	3	0	3	102	25850	3	0	3	107	26196	3	0	4	109
				3	25249	3	0	4	105	26577	3	0	4	110	26933	3	0	4	112
				4	25014	2	0	4	104	26329	2	0	4	109	26682	2	0	4	111
				4W	25043	3	0	5	104	26359	3	0	5	109	26712	3	0	5	111
				5R	25995	5	0	5	108	27361	5	0	5	114	27728	5	0	5	115
				5QM	26489	4	0	2	110	27882	4	0	2	116	28255	4	0	2	117
			5QN	25936	5	0	1	108	27299	5	0	1	113	27665	5	0	1	115	
			5W	25745	5	0	3	107	27099	5	0	3	112	27461	5	0	3	114	
			HDL Lens	3	21464	3	0	3	89	22593	3	0	3	94	22895	3	0	3	95
5W	21886	4		0	2	91	23036	4	0	2	96	23345	4	0	2	97			

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	35,000	285	No Lens	FR	33175	2	0	2	116	34919	2	0	2	123	35387	2	0	2	124
				FR-BC	19873	1	0	1	70	20918	1	0	1	73	21198	1	0	1	74
				2	30543	3	0	4	107	32149	3	0	4	113	32579	3	0	4	114
				2-BC	16921	1	0	2	59	17811	1	0	2	62	18049	1	0	2	63
				3	31402	3	0	5	110	33052	3	0	5	116	33495	3	0	5	118
				3-BC	15490	1	0	3	54	16305	1	0	3	57	16523	1	0	3	58
				4	31109	2	0	5	109	32745	2	0	5	115	33183	2	0	5	116
				4-BC	18403	1	0	3	65	19371	1	0	3	68	19630	1	0	3	69
				4W	31145	3	0	5	109	32782	3	0	5	115	33221	3	0	5	117
				4W-BC	13057	1	0	3	46	13743	1	0	3	48	13927	1	0	3	49
				5R	32328	5	0	5	113	34028	5	0	5	119	34483	5	0	5	121
				5QM	32943	5	0	3	116	34675	5	0	3	122	35139	5	0	3	123
				5QN	32255	5	0	1	113	33951	5	0	1	119	34405	5	0	1	121
				5W	32018	5	0	4	112	33701	5	0	4	118	34152	5	0	4	120
				Clear Lens	FR	31030	2	0	2	109	32661	2	0	2	115	33098	2	0	2
			2		28568	3	0	4	100	30069	3	0	4	106	30472	3	0	4	107
			3		29371	3	0	4	103	30915	3	0	5	108	31329	3	0	5	110
			4		29097	2	0	5	102	30627	2	0	5	107	31037	2	0	5	109
			4W		29130	3	0	5	102	30662	3	0	5	108	31072	3	0	5	109
			5R		30237	5	0	5	106	31827	5	0	5	112	32253	5	0	5	113
			5QM		30813	5	0	3	108	32432	5	0	3	114	32867	5	0	3	115
			5QN		30169	5	0	1	106	31755	5	0	1	111	32180	5	0	1	113
			5W	29947	5	0	4	105	31521	5	0	4	111	31944	5	0	4	112	
			HDL Lens	3	24968	3	0	3	88	26280	3	0	3	92	26632	3	0	3	93
				5W	25458	4	0	3	89	26796	4	0	3	94	27155	4	0	3	95

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

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SPECIFICATIONS

Housing:

- Low copper aluminum alloy die-casting is designed as one-piece with internal cooling fins.
- Solid, cast aluminum wall creates a thermal barrier between the optical and electrical compartments.
- Molded silicone gasket throughout insures the sealing between the two compartments and provides ingress protection.
- Housing is designed with integral LED heat sink utilized for thermal transfer and for securing the location of each LED module.
- IK09 rated enclosure protects electrical equipment against external mechanical impacts.

Lens Frame:

- One-piece low copper aluminum alloy die-cast is secured to housing with 6 screws.

Backlight Control

- Optional Backlight Control on each LED module to completely control unwanted backlight.

Lens

One-piece flat glass lens slips secure with clips. Extra silicone gasketing is provided to retain a clear optical compartment.

Optical Module:

- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB).
- Optical lenses shall be clear injection molded PMMA acrylic.
- Each MCPCB and optic shall be sealed to the diecast housing and sealed with a continuous one piece injection molded silicone rubber gasket.
- Patent Pending design of optical array shall independently shield each LED optic across the length of the aperture.
- Optional fixture finish optical surfaces shall not exceed BUG ratings of the standard white finish and shall be greater than or equal to the delivered lumens of the optional matte black optical surface finish.

Electrical Components

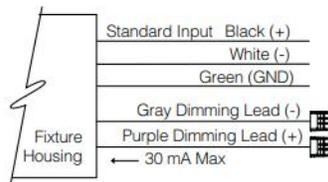
- Standard programmable driver allows for programmable drive current settings.
- Electrical components are strategically located in the driver gear compartment with a molded silicon grommet seal to provide separation from the optical chamber.
- Maximum lightning surge current 20KA with thermally protected varistor technology. Surge suppression is series circuited preventing

total fixture failure. ANSI/IEEE C62.41 Category C High.

- Open circuit fault will turn off the luminaire in order to protect the sensitive electronics and acts as a signal for maintenance.
- Programmable Driver is rated for -40°C starting.
- "Thermal Shield", primary side, thermister provides protection for the sustainable life of electronic components (350mA to 700mA).

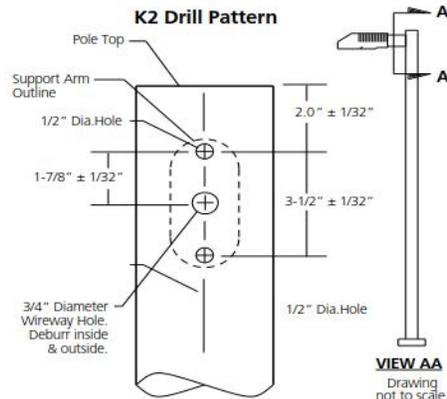
Dimming:

- Dimming range from 100% to 10% through the use of the standard 0-10V interface on the programmable driver.
- Modular wiring harness in the service area provides user access to the dimming circuitry.
- Dimming circuitry compatible with 0-10V, user-defined control devices.
- Optional factory programmed dimming profile.



Support Arm:

- Die-cast, low copper aluminum alloy, with splice access cover.
- Die-cast pole adaptor and an internal reinforcing plate are provided with a wire strain relief.
- The arm adapter is square or circular cut for specified pole size and shape.
- For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. The block accepts #14 to #8 wire sizes and is factory prewired to the electrical module's quick-disconnect plug inside the electrical compartment.



Optional Slip-Fitter:

- Internally accessible slip-fitter attaches to a 1-1/4" to 2-3/8" tenon and allows hands-free wiring and maintenance.

Optional Wall Mount:

- Optional, cast aluminum mounting plate attaches to a wall over a junction box and the speed mount is bolted to the cover plate. To complete the wiring, the luminaire assembly slides over the mounting plate.

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.

Finish:

Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.

Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, (WH) White, and (CC) Custom Color (Include RAL#).

Certifications and Listings:

- UL 1598 Standard for Luminaires.
- UL 8750 Standard for Safety for Light.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- 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

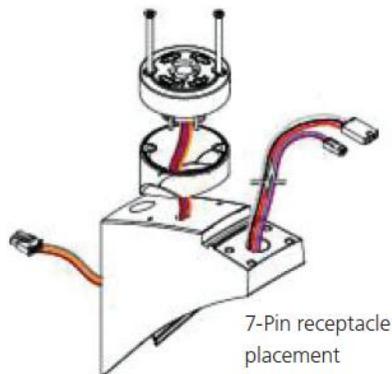
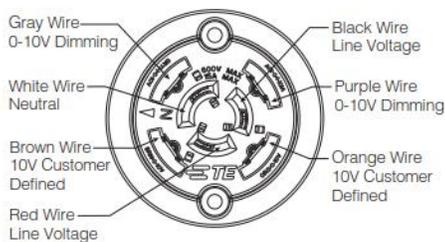
Photocell Receptacle

7PR

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.



- Factory default settings for SCP option shall be:- High mode: 10V - Low mode: 1V - Ramp-uprate: disabled - Fade-down rate: disabled -Photocell: Off - Sensitivity: Full - Time Delay: Fade to low: 5 minutes - Time Delay: Fade to off: 1 hour
- The SCP enables any wall mounted luminaire, in excess of 75 watts, to meet California Title 24 requirements with integral 10KA surge protection for added reliability and serviceability. For more detail: http://www.aal.net/products/sensor_control_programmable

AstroDIM

AstroDIM provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.

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.hubbelllighting.com/products/sitesync for more details.

Wireless Controls

- Optional universal voltage (120-277V) for dusk to dawn energy savings. Photocontrol 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.
- Occupancy Sensor shall be programmable and use passive infrared (PIR) sensing technology that reacts to changes in infrared energy (moving body heat) within the coverage area. Careful consideration must be given to obstructions that may block the sensor's line of sight.

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.

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²Voltage, ³Color, ⁴Pole Diameter,

JOB _____

TYPE WP4A

NOTES _____

APPROVALS _____

FEATURES

- Elegant form factor
- High performance optics up to 35,000 delivered lumens
- Diffusion lens for low glare comfort
- NX™ wireless control options

CERTIFICATIONS

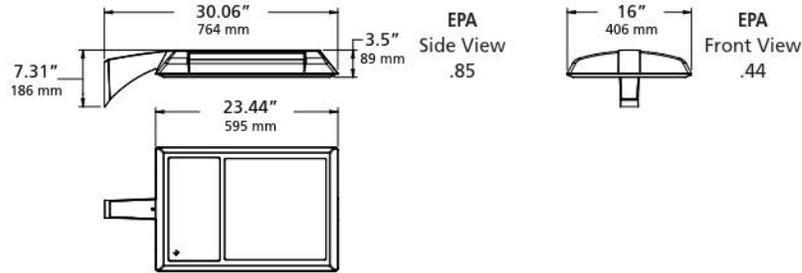


3000K and warmer CCTs only

SPECIFICATIONS



Weight: 34.6 lbs / 15.69 kg



ORDERING CODE

Series	LED Engine	CCT	Distribution	Rotation	Voltage	Mounting
ALT2 Altitude	No Lens 100L-160 20,000 lm 100L-200 25,000 lm 100L-240 30,000 lm 100L-285 35,000 lm	AM Amber 3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI 3K8 3000K, 80 CRI 4K8 4000K, 80 CRI 3K9 3000K, 90 CRI	FR Type I/Front Row 2 Type II 3 Type III 4 Type IV 4W Type IV Wide 5QM Type V Square Medium 5QN Type V Square Narrow 5R Type V Rectangular 5W Type V Wide (Round)	Blank for no rotation L ¹ Optic rotation left R ¹ Optic rotation right	UNV 120-277V 347 347V 480 480V	ASQ Arm Square pole A34 Arm mt 3.3-4.2" OD pole A46 Arm mt 4.5-6.0" OD pole MAF Horizontal Slipfitter 2 3/8" OD arm SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.) VSF Vertical Slipfitter Mount for 2" pipe tenon, (2-3/8" O.D.) WB Wall Bracket for area wall mount
Fixture Finish	Control Options		Options	Control Accessories		
BL Black DB Dark Bronze GT Graphite LG Light Gray PS Platinum Silver TT Titanium WH White CC Custom Color [†] † Consult factory	7PR 7 pin PCR, wireless control enabled 7PR-TL 7 pin PCR with twist lock photocontrol 7PR-SC 7 pin PCR with shorting cap AD-01 ² AstroDIM: 50% output at midnight AD-02 ² AstroDIM: 50% output midnight to 4 AM AD-03 ² AstroDIM: 50% output 10PM AD-04 ² AstroDIM: 50% output 10PM to 4AM NXSP14F ^{2,3} Wired NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXSP30F ^{2,3} Wired NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' NXSPW14F ^{2,3} NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXSPW30F ^{2,3} NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' NXWE NX Wireless Enabled	SCL-8F Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights up to 8' SCL-40F Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights 9' to 40' SCP-8F Remote control programmable line voltage sensor, use with SCPREMOTE SCP-40F Remote control programmable line voltage sensor, use with SCPREMOTE SWP ^{2,3,4} Site Sync™ Pre Commission Wireless Module SWPM-40F ^{2,3,4} Site Sync with Sensor 9' to 40' MH	BC ⁵ Backlight Control SF Single Fuse DF Double Fuse TB Terminal Block CLR Clear Lens HDL ⁶ Diffuse Lens	SCPREMOTE Remote control for SCP option. Order at least one per project to program and control the occupancy sensor SW7PR SiteSync™ on fixture module via 7PR SWUSB SiteSync™ Software on USB SWTAB SiteSync™ Windows Tablet SWBRG SiteSync™ Wireless Bridge Node SWFC SiteSync™ Field Commission Service WIR-RME-L wiSCAPE™ External Fixture Module NXOFM-1R1D-UNV NX External Control Node		

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

- 1 Not available with 5QM and 5W distributions.
- 2 Not available with other sensor or wireless control options.
- 3 Not available in 480V.
- 4 Specify group and zone at time of order. See www.hubbellighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.
- 5 Not available with Type 5 distributions, CLR, or HDL option.
- 6 Only available in Type 3 or Type 5W

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	20,000	160	No Lens	FR	20843	2	0	2	130	21939	2	0	2	137	22233	2	0	2	139
				FR-BC	12486	1	0	1	78	13142	1	0	1	82	13318	1	0	1	84
				2	19189	3	0	3	120	20198	3	0	3	126	20469	3	0	3	129
				2-BC	10631	1	0	2	66	11190	1	0	2	70	11340	1	0	2	72
				3	19729	2	0	4	123	20766	2	0	4	130	21044	2	0	4	132
				3-BC	9732	1	0	2	61	10244	1	0	2	64	10381	1	0	2	66
				4	19545	2	0	4	122	20573	2	0	4	129	20848	2	0	4	131
				4-BC	11562	1	0	2	72	12170	1	0	2	76	12333	1	0	2	78
				4W	19567	2	0	4	122	20596	2	0	4	129	20872	2	0	4	130
				4W-BC	8203	1	0	2	51	8634	1	0	2	54	8750	1	0	2	56
				5R	20311	4	0	4	127	21379	4	0	4	134	21665	4	0	4	135
				5QM	20697	4	0	2	129	21785	4	0	2	136	22077	4	0	2	137
			5QN	20265	4	0	1	127	21330	4	0	1	133	21616	4	0	1	136	
			5W	20116	5	0	3	126	21174	5	0	3	132	21457	5	0	3	134	
			Clear Lens	FR	19495	2	0	2	123	20520	2	0	2	130	20795	2	0	2	132
				2	17948	2	0	3	114	18892	3	0	3	120	19145	3	0	3	121
				3	18045	2	0	3	114	18994	2	0	3	120	19248	2	0	3	122
				4	18281	1	0	4	116	19242	2	0	4	122	19500	2	0	4	123
				4W	18302	2	0	4	116	19264	2	0	4	122	19522	2	0	4	124
				5R	18997	4	0	4	120	19996	4	0	4	127	20264	4	0	4	128
				5QM	19359	4	0	2	123	20376	4	0	2	129	20649	4	0	2	131
				5QN	18954	4	0	1	120	19951	4	0	1	126	20218	4	0	1	128
			5W	18815	5	0	3	119	19804	5	0	3	125	20069	5	0	3	127	
			HDL Lens	3	15474	3	0	3	97	16287	3	0	3	102	16505	3	0	3	104
5W	16224	3		0	2	102	17076	3	0	2	107	17305	3	0	2	108			

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

Kim Lighting reserves the right to change specifications without notice.

LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	25,000	200	No Lens	FR	24095	2	0	2	122	25362	2	0	2	128	25702	2	0	2	130
				FR-BC	14434	1	0	1	73	15193	1	0	1	77	15396	1	0	1	78
				2	22183	3	0	3	112	23349	3	0	3	118	23662	3	0	3	120
				2-BC	12290	1	0	2	62	12936	1	0	2	65	13109	1	0	2	66
				3	22807	2	0	4	115	24006	3	0	4	121	24327	3	0	4	123
				3-BC	11251	1	0	2	57	11842	1	0	2	60	12001	1	0	2	61
				4	22595	2	0	4	114	23782	2	0	4	120	24101	2	0	4	122
				4-BC	13366	1	0	3	68	14069	1	0	3	71	14257	1	0	3	72
				4W	22620	3	0	4	114	23809	3	0	5	120	24128	3	0	5	122
				4W-BC	9483	1	0	2	48	9982	1	0	2	50	10115	1	0	2	51
				5R	23480	4	0	4	119	24714	4	0	4	125	25045	4	0	4	126
				5QM	23927	4	0	2	121	25184	4	0	2	127	25522	4	0	2	129
				5QN	23427	5	0	1	118	24658	5	0	1	125	24988	5	0	1	126
				5W	23255	5	0	3	117	24477	5	0	3	124	24805	5	0	3	125
			Clear Lens	FR	22537	2	0	2	114	23722	2	0	2	120	24039	2	0	2	121
				2	20749	3	0	3	105	21839	3	0	3	110	22132	3	0	3	112
				3	21332	2	0	4	108	22453	2	0	4	113	22754	2	0	4	115
				4	21133	2	0	4	107	22244	2	0	4	112	22542	2	0	4	114
				4W	21157	2	0	4	107	22270	2	0	4	112	22568	3	0	4	114
				5R	21961	4	0	4	111	23116	4	0	4	117	23425	4	0	4	118
				5QM	22379	4	0	2	113	23556	4	0	2	119	23871	4	0	2	121
			5QN	21912	4	0	1	111	23063	5	0	1	116	23372	5	0	1	118	
			5W	21751	5	0	3	110	22894	5	0	3	116	23201	5	0	3	117	
			HDL Lens	3	18134	3	0	3	92	19087	3	0	3	96	19343	3	0	3	98
				5W	18490	3	0	2	93	19462	4	0	2	98	19723	4	0	2	100

Lumen Multiplier		
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3000K	0.9119	0.7033
4000K	0.8941	N/A

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	30,000	240	No Lens	FR	28520	2	0	2	118	30020	2	0	2	125	30422	2	0	2	126
				FR-BC	17085	1	0	1	71	17983	1	0	1	75	18223	1	0	1	76
				2	26257	3	0	4	109	27638	3	0	4	115	28008	3	0	4	116
				2-BC	14547	1	0	2	60	15312	1	0	2	64	15517	1	0	2	64
				3	26995	3	0	4	112	28415	3	0	4	118	28795	3	0	4	119
				3-BC	13317	1	0	2	55	14017	1	0	2	58	14205	1	0	2	59
				4	26744	2	0	4	111	28150	2	0	5	117	28527	2	0	5	118
				4-BC	15821	1	0	3	66	16653	1	0	3	69	16876	1	0	3	70
				4W	26775	3	0	5	111	28182	3	0	5	117	28559	3	0	5	119
				4W-BC	11225	1	0	2	47	11815	1	0	2	49	11973	1	0	2	50
				5R	27792	5	0	5	115	29253	5	0	5	121	29645	5	0	5	123
				5QM	28321	4	0	2	118	29809	5	0	3	124	30209	5	0	3	125
			5QN	27729	5	0	1	115	29187	5	0	1	121	29578	5	0	1	123	
			5W	27525	5	0	4	114	28972	5	0	4	120	29360	5	0	4	122	
			Clear Lens	FR	26676	2	0	2	111	28078	2	0	2	117	28454	2	0	2	118
				2	24559	3	0	3	102	25850	3	0	3	107	26196	3	0	4	109
				3	25249	3	0	4	105	26577	3	0	4	110	26933	3	0	4	112
				4	25014	2	0	4	104	26329	2	0	4	109	26682	2	0	4	111
				4W	25043	3	0	5	104	26359	3	0	5	109	26712	3	0	5	111
				5R	25995	5	0	5	108	27361	5	0	5	114	27728	5	0	5	115
				5QM	26489	4	0	2	110	27882	4	0	2	116	28255	4	0	2	117
			5QN	25936	5	0	1	108	27299	5	0	1	113	27665	5	0	1	115	
			5W	25745	5	0	3	107	27099	5	0	3	112	27461	5	0	3	114	
			HDL Lens	3	21464	3	0	3	89	22593	3	0	3	94	22895	3	0	3	95
5W	21886	4		0	2	91	23036	4	0	2	96	23345	4	0	2	97			

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	35,000	285	No Lens	FR	33175	2	0	2	116	34919	2	0	2	123	35387	2	0	2	124
				FR-BC	19873	1	0	1	70	20918	1	0	1	73	21198	1	0	1	74
				2	30543	3	0	4	107	32149	3	0	4	113	32579	3	0	4	114
				2-BC	16921	1	0	2	59	17811	1	0	2	62	18049	1	0	2	63
				3	31402	3	0	5	110	33052	3	0	5	116	33495	3	0	5	118
				3-BC	15490	1	0	3	54	16305	1	0	3	57	16523	1	0	3	58
				4	31109	2	0	5	109	32745	2	0	5	115	33183	2	0	5	116
				4-BC	18403	1	0	3	65	19371	1	0	3	68	19630	1	0	3	69
				4W	31145	3	0	5	109	32782	3	0	5	115	33221	3	0	5	117
				4W-BC	13057	1	0	3	46	13743	1	0	3	48	13927	1	0	3	49
				5R	32328	5	0	5	113	34028	5	0	5	119	34483	5	0	5	121
				5QM	32943	5	0	3	116	34675	5	0	3	122	35139	5	0	3	123
				5QN	32255	5	0	1	113	33951	5	0	1	119	34405	5	0	1	121
				5W	32018	5	0	4	112	33701	5	0	4	118	34152	5	0	4	120
				Clear Lens	FR	31030	2	0	2	109	32661	2	0	2	115	33098	2	0	2
			2		28568	3	0	4	100	30069	3	0	4	106	30472	3	0	4	107
			3		29371	3	0	4	103	30915	3	0	5	108	31329	3	0	5	110
			4		29097	2	0	5	102	30627	2	0	5	107	31037	2	0	5	109
			4W		29130	3	0	5	102	30662	3	0	5	108	31072	3	0	5	109
			5R		30237	5	0	5	106	31827	5	0	5	112	32253	5	0	5	113
			5QM		30813	5	0	3	108	32432	5	0	3	114	32867	5	0	3	115
			5QN		30169	5	0	1	106	31755	5	0	1	111	32180	5	0	1	113
			5W	29947	5	0	4	105	31521	5	0	4	111	31944	5	0	4	112	
			HDL Lens	3	24968	3	0	3	88	26280	3	0	3	92	26632	3	0	3	93
				5W	25458	4	0	3	89	26796	4	0	3	94	27155	4	0	3	95

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

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SPECIFICATIONS

Housing:

- Low copper aluminum alloy die-casting is designed as one-piece with internal cooling fins.
- Solid, cast aluminum wall creates a thermal barrier between the optical and electrical compartments.
- Molded silicone gasket throughout insures the sealing between the two compartments and provides ingress protection.
- Housing is designed with integral LED heat sink utilized for thermal transfer and for securing the location of each LED module.
- IK09 rated enclosure protects electrical equipment against external mechanical impacts.

Lens Frame:

- One-piece low copper aluminum alloy die-cast is secured to housing with 6 screws.

Backlight Control

- Optional Backlight Control on each LED module to completely control unwanted backlight.

Lens

One-piece flat glass lens slips secure with clips. Extra silicone gasketing is provided to retain a clear optical compartment.

Optical Module:

- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB).
- Optical lenses shall be clear injection molded PMMA acrylic.
- Each MCPCB and optic shall be sealed to the diecast housing and sealed with a continuous one piece injection molded silicone rubber gasket.
- Patent Pending design of optical array shall independently shield each LED optic across the length of the aperture.
- Optional fixture finish optical surfaces shall not exceed BUG ratings of the standard white finish and shall be greater than or equal to the delivered lumens of the optional matte black optical surface finish.

Electrical Components

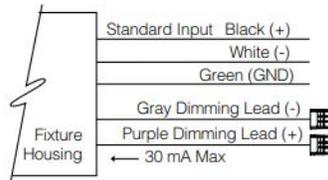
- Standard programmable driver allows for programmable drive current settings.
- Electrical components are strategically located in the driver gear compartment with a molded silicon grommet seal to provide separation from the optical chamber.
- Maximum lightning surge current 20KA with thermally protected varistor technology. Surge suppression is series circuited preventing

total fixture failure. ANSI/IEEE C62.41 Category C High.

- Open circuit fault will turn off the luminaire in order to protect the sensitive electronics and acts as a signal for maintenance.
- Programmable Driver is rated for -40°C starting.
- "Thermal Shield", primary side, thermister provides protection for the sustainable life of electronic components (350mA to 700mA).

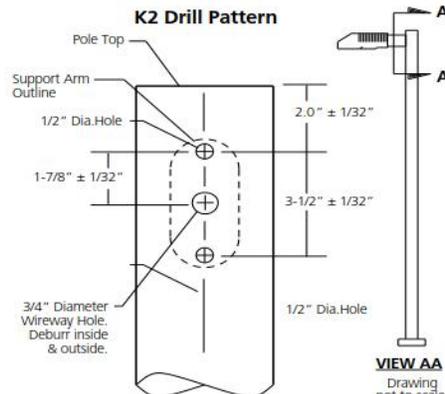
Dimming:

- Dimming range from 100% to 10% through the use of the standard 0-10V interface on the programmable driver.
- Modular wiring harness in the service area provides user access to the dimming circuitry.
- Dimming circuitry compatible with 0-10V, user-defined control devices.
- Optional factory programmed dimming profile.



Support Arm:

- Die-cast, low copper aluminum alloy, with splice access cover.
- Die-cast pole adaptor and an internal reinforcing plate are provided with a wire strain relief.
- The arm adapter is square or circular cut for specified pole size and shape.
- For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. The block accepts #14 to #8 wire sizes and is factory prewired to the electrical module's quick-disconnect plug inside the electrical compartment.



Optional Slip-Fitter:

- Internally accessible slip-fitter attaches to a 1-1/4" to 2-3/8" tenon and allows hands-free wiring and maintenance.

Optional Wall Mount:

- Optional, cast aluminum mounting plate attaches to a wall over a junction box and the speed mount is bolted to the cover plate. To complete the wiring, the luminaire assembly slides over the mounting plate.

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.

Finish:

Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.

Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, (WH) White, and (CC) Custom Color (Include RAL#).

Certifications and Listings:

- UL 1598 Standard for Luminaires.
- UL 8750 Standard for Safety for Light.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- 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>

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CONTROLS

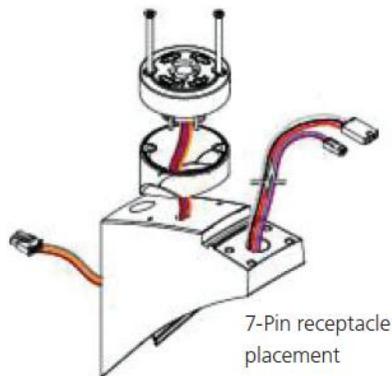
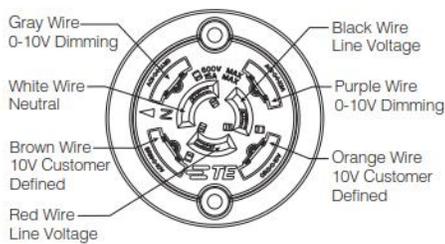
Photocell Receptacle

7PR

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.



- Factory default settings for SCP option shall be:- High mode: 10V - Low mode: 1V - Ramp-uprate: disabled - Fade-down rate: disabled -Photocell: Off - Sensitivity: Full - Time Delay: Fade to low: 5 minutes - Time Delay: Fade to off: 1 hour
- The SCP enables any wall mounted luminaire, in excess of 75 watts, to meet California Title 24 requirements with integral 10KA surge protection for added reliability and serviceability. For more detail: http://www.aal.net/products/sensor_control_programmable

AstroDIM

AstroDIM provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.

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.hubbelllighting.com/products/sitesync for more details.

Wireless Controls

- Optional universal voltage (120-277V) for dusk to dawn energy savings. Photocontrol 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.
- Occupancy Sensor shall be programmable and use passive infrared (PIR) sensing technology that reacts to changes in infrared energy (moving body heat) within the coverage area. Careful consideration must be given to obstructions that may block the sensor's line of sight.

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.

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²Voltage, ³Color, ⁴Pole Diameter,

TRAVERSE SERIES

SURFACE/CEILING/GARAGE

Cat.#

Job

Type

WP4B



Approvals

SPECIFICATIONS

Intended Use:

The Traverse luminaire is a wall surface mounted luminaire with a field replaceable LED light engine & optical bezel system. Internal components are totally enclosed in rain-tight and corrosion-resistant die cast aluminum housing. The TRV Luminaire is suitable for wet locations.

Construction:

- Traverse luminaire consists of a die cast aluminum two-piece housing.
- Die cast main (thermal) housing provides direct heat exchange between the LED light engine and the cool outdoor air by drawing heat through integral heat channels and out to the sculptured and functional luminaire surface.
- LED drivers are thermally isolated from the main housing, mechanically attached and heat sunk to the rear housing.
- Main housing is designed with heat dissipating fins for LED thermal management without the use of metallic screens, cages, or fans.
- Shape of the main housing is designed to prevent debris accumulation and as a bird nesting deterrent. The back and main housings are designed to hinge open for easy mounting and easy access.

LED/Optics:

- Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- A two-piece die cut silicone and polycarbonate foam gasket ensures a weather-proof seal around each individual LED and allows the Traverse luminaire to be rated for high-pressure hose down applications.
- Optical cartridge is secured to the extruded housing with fasteners and a heat pad to ensure thermal conductivity.
- Optics are held in place without the use of adhesives and the complete assembly is gasketed for high pressure hose down cleaning.
- Cartridge assembly is available in various lighting distributions using TIR designed acrylic optical lenses over each LED.

Electrical:

- 100V through 277V, 50 Hz to 60 Hz (UNV).
- Power factor is min 0.92 at full load.
- All electrical components are rated at 50,000 hours at full load and 40°C ambient conditions per MIL-217F Notice 2.
- Optional 0 to 10 volt dimming drivers are available upon request.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is listed by UL for use at 600VAC at 50°C or higher.
- Plug disconnects are listed by UL for use at 600 VAC, 15A or higher. 15A rating applies to primary (AC) side only.
- Surge protection - 20KA

Controls/Options:

- Traverse is available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the Motion Response system reduces the wattage down to a factory preset level, reducing light level accordingly. When motion is detected, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from the standard configurations
- Available with Energeni for optional set dimming with simple delay, or timed dimming based on time of night (see Energeni product page for more details www.beaconproducts.com/products/energeni)
- In addition, Traverse can be specified with **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/sitesync/ for more details

Installation:

- Rear housing (back plate) is designed with various bolt patterns for direct wall mounting or mounting to a recessed 4" junction box.
- Rear housing has three integral 3/4" NPT power feed locations (bottom and each side) for surface mounted conduit applications.
- After mounting the rear housing to the wall or junction box, the main housing is designed to hang and hinge closed after connecting the male and female quick connectors.
- Mounting design permits a simple retrofit to existing wall luminaires that utilize surface mount or recessed junction boxes.

Finish:

- IFS polyester powder-coat electrostatically applied and thermocured.
- IFS finish consists of a five stage iron phosphate chemical pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

Listings:

- The luminaire shall bear a CSA label and be marked suitable for wet locations (standard).
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: <http://www.beaconproducts.com/products/traverse>

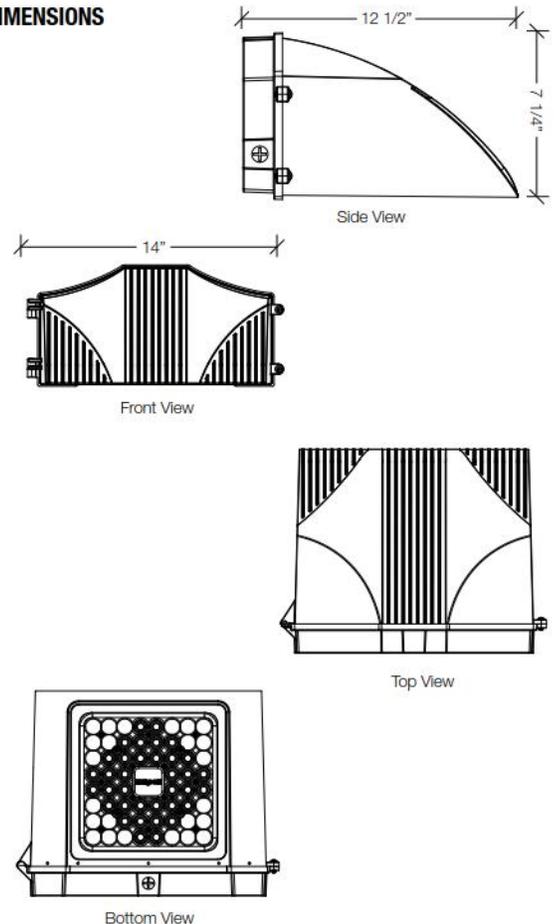
Warranty:

Five year limited warranty for more information visit: www.hubbellighting.com/resources/warranty

PRODUCT IMAGE(S)



DIMENSIONS



CERTIFICATIONS/LISTINGS



*3000K and warmer CCTs only



Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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SERIES	ENGINE-WATTS	LED COLOR ¹¹	OPTICS	CONTROL OPTIONS	FINISH
TRV-D Traverse Down Light	24NB-27 27 Watts - LED array	3K 3000K	T2 Type II	GENI-XX⁶ Energeni	BL Black textured
TRV-U¹ Traverse Up Light (lens req.)	24NB-55 55 Watts - LED array	4K 4000K	T3 Type III	SWP^{7,8} SiteSync Wireless Pre-Commission	DB Dark bronze
	36NB-80 80 Watts - LED array	5K 5000K	T4 Type IV	SWPM^{7,8,9} SiteSync Wireless Pre-Commission w/ Occupancy Sensor	GYS Light gray smooth
	48NB-110 110 Watts - LED array		T5R Type V, rectangular		PS Platinum silver
	60NB-136 136 Watts - LED array		2X2 Narrow spot flood		WH White textured
			5X5 Medium flood		
			VOLTAGE		ELECTRICAL OPTIONS
			UNV 120-277V		PEC-120 photocell, button 120V
			347 347V	SENSOR OPTIONS	PEC-208 photocell, button 208V
			480 480V	MOB^{3,5,7,9} Occupancy Sensor (33% or 50% dimming)	PEC-240 photocell, button 240V
					PEC-277 photocell, button 277V
					2PF^{2,3,10} Dual power feed
					BPC⁴ Cold weather battery pack

Accessories and Services (Ordered Separately)

Catalog Number	Description
SWUSB*	SiteSync loaded on USB flash drive (Windows based only)
SWTAB*	SiteSync Windows Tablet
SWBRG*	SiteSync Wireless Bridge Node

*When ordering with SiteSync, one of the following interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.
 + If needed, an additional Bridge Node can be ordered.

¹ Indoor use only
² Not available on 24NB-27
³ Not available @ 347V or 480V input
⁴ 36NB-80 only, not available with SWP or SWPM control options
⁵ Not available on 48NB-110 or 60NB-136
⁶ When ordering Energeni, specify the routine setting code (example GENI-04). See Energeni brochure and instructions for setting table and options. Not available with sensor options.
⁷ Not available with other control or sensor options. PEC is available with MOB and OCS.
⁸ Specify group and zone. See **SiteSync** product page www.hubbellighting.com/controls/sitesync for more details.
⁹ Specify time delay; dimming level and mounting height.
¹⁰ Not available with SWP or SWPM control options.
¹¹ This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://cdn.beaconproducts.com/content/products/specs/specs_files/Traverse_LED_turtle_spec_sheet.pdf

PRECOMMISSIONED 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.hubbellighting.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: TRV/24NB-55/5K/T3/UNV/SWP/BL SiteSync only
 TRV/24NB-55/5K/T3/UNV/SWPM-20F/BL SiteSync with Occupancy Sensor

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.

TRV/24NB-55/5K/T3/UNV/MOB - 1 to 30 min. - 33% or 50% - ?? / BL

High to Dim Delay Low Level Mounting Height (ft.)

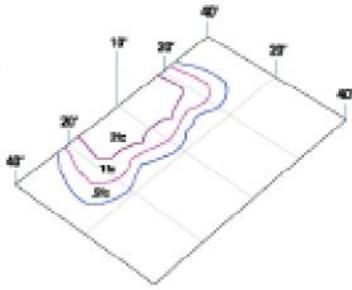


SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.

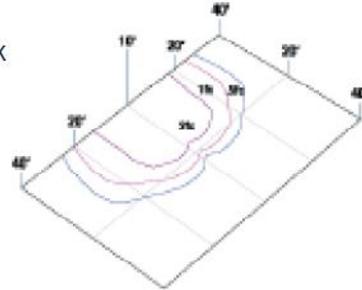


PHOTOMETRICS

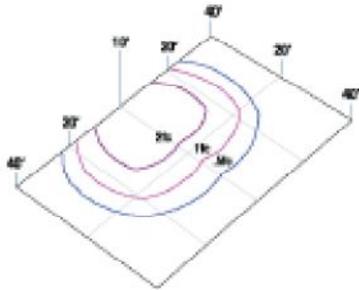
Type II
TRV-60NB-136-5K-T2



Type III
TRV-60NB-136-5K



Type IV
TRV-60NB-136-5K-T4



PERFORMANCE DATA

# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 80 CRI)				
				LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G
24	350mA	27w	T2	2833	105	1	0	1	2805	104	1	0	1	2408	89	1	0	1
			T3	2805	104	1	0	1	2777	103	1	0	1	2392	89	1	0	1
			T4	3086	114	1	0	1	3055	113	1	0	1	2623	97	1	0	1
			T5R	3142	116	2	0	2	3111	115	2	0	2	2670	99	2	0	2
			5X5	3031	112	2	0	1	3001	111	2	0	1	2577	95	2	0	1
			2X2	3287	122	3	0	1	3254	121	3	0	1	2794	103	3	0	1
24	700mA	55w	T2	5666	102	2	0	2	5610	101	2	0	2	4816	86	1	0	2
			T3	5610	101	1	0	2	5554	100	1	0	2	4784	86	1	0	2
			T4	6171	111	1	0	2	6110	109	1	0	2	5245	94	1	0	2
			T5R	6283	113	3	0	3	6221	111	3	0	3	5341	96	3	0	3
			5X5	6063	110	3	0	1	6002	109	3	0	1	5153	94	3	0	1
			2X2	6573	118	4	0	1	6508	117	4	0	1	5587	100	4	0	1
36	700mA	80w	T2	8505	101	2	0	3	8415	100	2	0	3	7224	87	2	0	2
			T3	8415	100	2	0	2	8331	99	2	0	2	7175	86	2	0	2
			T4	9256	110	1	0	3	9164	109	1	0	3	7868	94	1	0	3
			T5R	9425	112	3	0	3	9331	111	3	0	3	8011	96	3	0	3
			5X5	9094	109	4	0	1	9003	108	4	0	1	7730	93	3	0	1
			2X2	9860	118	4	0	1	9762	116	4	0	1	8381	100	4	0	1
48	700mA	110w	T2	11332	102	3	0	3	11220	101	3	0	3	9633	87	2	0	3
			T3	11220	101	2	0	3	11108	100	2	0	3	9567	86	2	0	3
			T4	12342	111	2	0	3	12219	110	2	0	3	10491	95	2	0	3
			T5R	12567	113	4	0	4	12441	112	4	0	4	10682	96	3	0	3
			5X5	12126	109	4	0	1	12004	108	4	0	1	10307	93	4	0	1
			2X2	13147	118	5	0	1	13016	117	5	0	1	11175	101	5	0	1
60	700mA	136w	T2	14165	103	3	0	3	14025	102	3	0	3	12041	88	3	0	3
			T3	14025	102	3	0	3	13885	101	3	0	3	11959	87	3	0	3
			T4	15427	113	2	0	3	15274	111	2	0	3	13114	96	2	0	3
			T5R	15708	115	4	0	4	15259	111	4	0	4	13352	97	4	0	4
			5X5	15157	111	4	0	1	15006	110	4	0	1	12884	94	4	0	1
			2X2	16434	120	5	0	2	16269	119	5	0	2	13968	102	5	0	1

¹Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°F	1.00	0.97	0.96	0.95	0.93	>560,000

¹ Projected per IESNA TM-21-11
Data references the extrapolated performance projections for the base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

ELECTRICAL DATA

# OF LEDs	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	OPER. CURRENT (Amps)	SYSTEM POWER (Watts)
24	1	(350mA)	120	0.23	27.0
			277	0.10	
24	2	(700mA)	120	0.46	55.0
			277	0.20	
36	1	(700mA)	120	0.68	80.0
			277	0.30	
48	1	(700mA)	120	0.92	110.0
			277	0.40	
60	1	(700mA)	120	1.13	136.0
			277	0.49	

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99
50°C	122°F	0.98

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

TRAVERSE SERIES

SURFACE/CEILING/GARAGE

Cat.#

Job

Type



Approvals

SPECIFICATIONS

Intended Use:

The Traverse luminaire is a wall surface mounted luminaire with a field replaceable LED light engine & optical bezel system. Internal components are totally enclosed in rain-tight and corrosion-resistant die cast aluminum housing. The TRV Luminaire is suitable for wet locations (TRV-D version only).

Construction:

- Traverse luminaire consists of a die cast aluminum two-piece housing.
- Die cast main (thermal) housing provides direct heat exchange between the LED light engine and the cool outdoor air.
- LED drivers are thermally isolated from the main housing, mechanically attached and heat sunk to the rear housing.
- Shape of the main housing is designed to prevent debris accumulation and as a bird nesting deterrent. The back and main housings are designed to hinge open for easy mounting and easy access.

LED/Optics:

- Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- A two-piece die cut silicone and polyurethane foam gasket ensures a weather-proof seal around each individual LED.
- Optical cartridge is secured to the housing with fasteners to ensure thermal conductivity.
- Optics are held in place without the use of adhesives and the complete assembly is gasketed.
- Cartridge assembly is available in various lighting distributions using TIR designed acrylic optical lenses over each LED.

Electrical:

- 100V through 277V, 50 Hz to 60 Hz (UNV).
- Power factor is ≥ 0.90 at full load.
- All electrical components are rated at 50,000 hours at full load and 25°C ambient conditions per MIL-217F Notice 2.
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 50°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Surge protection - 20kA.

Controls/Options:

- Traverse is available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the Motion Response system reduces the wattage down to a factory preset level, reducing light level accordingly. When motion is detected, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from the standard configurations.

Installation:

- Rear housing (back plate) is designed with various bolt patterns for direct wall mounting or mounting to a recessed junction box.
- Rear housing has three integral 1/2" NPT power feed locations (bottom and each side) for surface mounted conduit applications.
- After mounting the rear housing to the wall or junction box, the main housing is designed to hang and hinge closed after connecting the male and female quick connectors.
- Mounting design permits a simple retrofit to existing wall luminaires that utilize surface mount or recessed junction boxes.

Finish:

- IFS polyester powder-coat electrostatically applied and thermocured.
- IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

Listings:

The luminaire shall bear a NRTL label and be marked suitable for wet locations (standard).

Warranty:

Five year limited warranty (for more information visit: <http://www.hubbellighting.com/resources/warranty>).

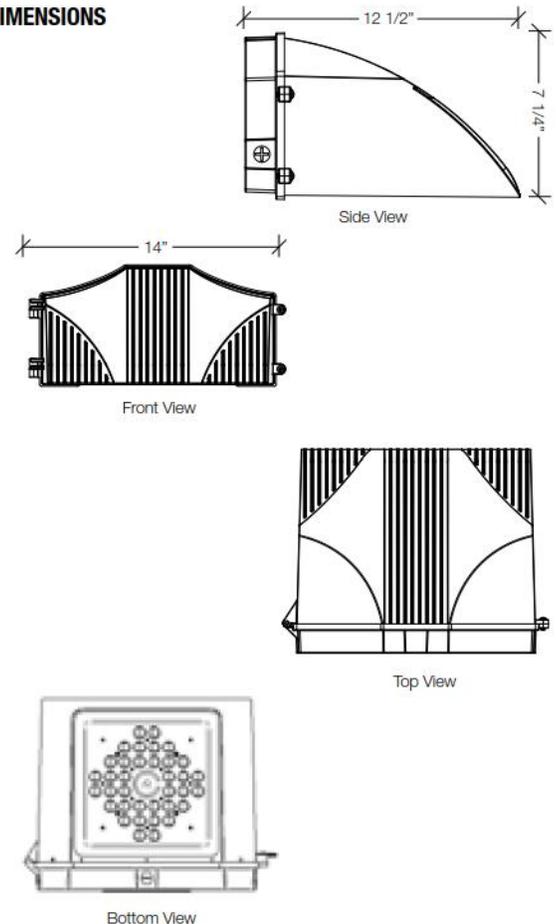
PRODUCT IMAGE(S)

Turtle Friendly

Florida Fish and Wildlife Approved



DIMENSIONS



CERTIFICATIONS/LISTINGS



*3000K and warmer CCTs only



Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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ORDERING INFORMATION ORDERING EXAMPLE: TRV-D/60NB-136/5K/T5R/UNV/PEC/BBT

SERIES	ENGINE-WATTS	LED COLOR	OPTICS	VOLTAGE	SENSOR OPTIONS	FINISH
TRV-D Traverse Down Light TRV-U Traverse Up Light (lens req.)	24E-45 45 Watts - LED array 36E-65 65 Watts - LED array 48E-85 85 Watts - LED array 60E-105 105 Watts - LED array	AMB Amber RO Red Orange	T2 Type II T3 Type III T4 Type IV T5R Type V, rectangular 2X2 Narrow spot flood 5X5 Medium flood	UNV 120-277V 347 347V 480 480V	OCS Occupancy sensor (on/off)	BBT basic black textured BMT black matte textured WHT white textured MBT metallic bronze textured BZT bronze textured DBT dark bronze textured GYS gray smooth DPS dark platinum smooth GNT green textured MST metallic silver textured MTT metallic titanium textured OWI old world iron RAL _____
						ELECTRICAL OPTIONS PEC ¹ Photocell, button

¹ Not available with 347/480V, must specify voltage. Available with OCS

TRAVERSE SERIES

SURFACE/CEILING/GARAGE

Cat.#

Job

Type

WP4C



Approvals

SPECIFICATIONS

Intended Use:

The Traverse luminaire is a wall surface mounted luminaire with a field replaceable LED light engine & optical bezel system. Internal components are totally enclosed in rain-tight and corrosion-resistant die cast aluminum housing. The TRV Luminaire is suitable for wet locations.

Construction:

- Traverse luminaire consists of a die cast aluminum two-piece housing.
- Die cast main (thermal) housing provides direct heat exchange between the LED light engine and the cool outdoor air by drawing heat through integral heat channels and out to the sculptured and functional luminaire surface.
- LED drivers are thermally isolated from the main housing, mechanically attached and heat sunk to the rear housing.
- Main housing is designed with heat dissipating fins for LED thermal management without the use of metallic screens, cages, or fans.
- Shape of the main housing is designed to prevent debris accumulation and as a bird nesting deterrent. The back and main housings are designed to hinge open for easy mounting and easy access.

LED/Optics:

- Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- A two-piece die cut silicone and polycarbonate foam gasket ensures a weather-proof seal around each individual LED and allows the Traverse luminaire to be rated for high-pressure hose down applications.
- Optical cartridge is secured to the extruded housing with fasteners and a heat pad to ensure thermal conductivity.
- Optics are held in place without the use of adhesives and the complete assembly is gasketed for high pressure hose down cleaning.
- Cartridge assembly is available in various lighting distributions using TIR designed acrylic optical lenses over each LED.

Electrical:

- 100V through 277V, 50 Hz to 60 Hz (UNV).
- Power factor is min 0.92 at full load.
- All electrical components are rated at 50,000 hours at full load and 40°C ambient conditions per MIL-217F Notice 2.
- Optional 0 to 10 volt dimming drivers are available upon request.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is listed by UL for use at 600VAC at 50°C or higher.
- Plug disconnects are listed by UL for use at 600 VAC, 15A or higher. 15A rating applies to primary (AC) side only.
- Surge protection - 20KA

Controls/Options:

- Traverse is available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the Motion Response system reduces the wattage down to a factory preset level, reducing light level accordingly. When motion is detected, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from the standard configurations
- Available with Energeni for optional set dimming with simple delay, or timed dimming based on time of night (see Energeni product page for more details www.beaconproducts.com/products/energeni)
- In addition, Traverse can be specified with **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/sitesync/ for more details

Installation:

- Rear housing (back plate) is designed with various bolt patterns for direct wall mounting or mounting to a recessed 4" junction box.
- Rear housing has three integral 3/4" NPT power feed locations (bottom and each side) for surface mounted conduit applications.
- After mounting the rear housing to the wall or junction box, the main housing is designed to hang and hinge closed after connecting the male and female quick connectors.
- Mounting design permits a simple retrofit to existing wall luminaires that utilize surface mount or recessed junction boxes.

Finish:

- IFS polyester powder-coat electrostatically applied and thermocured.
- IFS finish consists of a five stage iron phosphate chemical pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

Listings:

- The luminaire shall bear a CSA label and be marked suitable for wet locations (standard).
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: <http://www.beaconproducts.com/products/traverse>

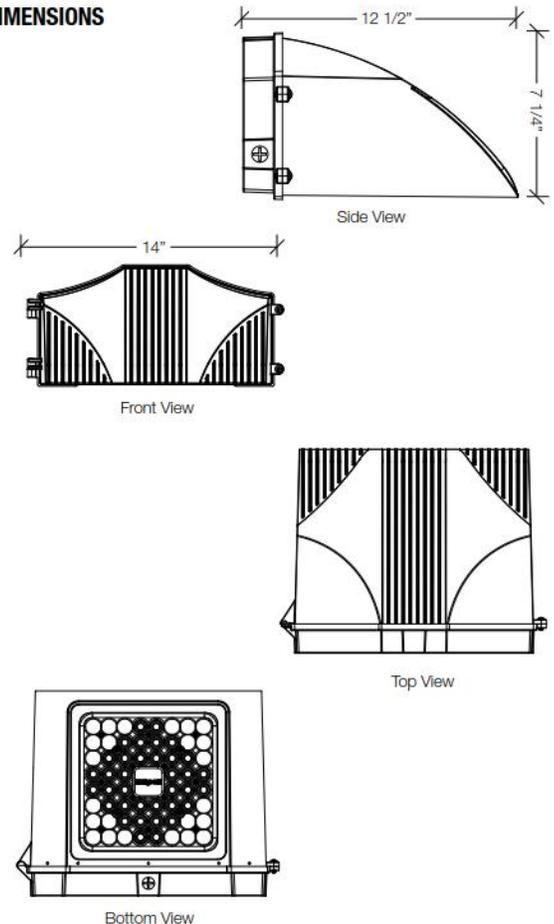
Warranty:

Five year limited warranty for more information visit: www.hubbellighting.com/resources/warranty

PRODUCT IMAGE(S)



DIMENSIONS



CERTIFICATIONS/LISTINGS



*3000K and warmer CCTs only



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Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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SERIES	ENGINE-WATTS	LED COLOR ¹¹	OPTICS	CONTROL OPTIONS	FINISH
TRV-D Traverse Down Light	24NB-27 27 Watts - LED array	3K 3000K	T2 Type II	GENI-XX⁶ Energeni	BL Black textured
TRV-U¹ Traverse Up Light (lens req.)	24NB-55 55 Watts - LED array	4K 4000K	T3 Type III	SWP^{7,8} SiteSync Wire-less Pre-Commission	DB Dark bronze
	36NB-80 80 Watts - LED array	5K 5000K	T4 Type IV	SWPM^{7,8,9} SiteSync Wire-less Pre-Commission w/ Occupancy Sensor	GYS Light gray smooth
	48NB-110 110 Watts - LED array		T5R Type V, rectangular		PS Platinum silver
	60NB-136 136 Watts - LED array		2X2 Narrow spot flood 5X5 Medium flood		WH White textured
			VOLTAGE	ELECTRICAL OPTIONS	
			UNV 120-277V	PEC-120 photocell, button 120V	
			347 347V	PEC-208 photocell, button 208V	
			480 480V	PEC-240 photocell, button 240V	
				PEC-277 photocell, button 277V	
				2PF^{2,3,10} Dual power feed	
				BPC⁴ Cold weather battery pack	
				SENSOR OPTIONS	
				MOB^{3,5,7,9} Occupancy Sensor (33% or 50% dimming)	

Accessories and Services (Ordered Separately)

Catalog Number	Description
SWUSB*	SiteSync loaded on USB flash drive (Windows based only)
SWTAB*	SiteSync Windows Tablet
SWBRG*	SiteSync Wireless Bridge Node

*When ordering with SiteSync, one of the following interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.
+ If needed, an additional Bridge Node can be ordered.

¹ Indoor use only
² Not available on 24NB-27
³ Not available @ 347V or 480V input
⁴ 36NB-80 only, not available with SWP or SWPM control options
⁵ Not available on 48NB-110 or 60NB-136
⁶ When ordering Energeni, specify the routine setting code (example GENI-04). See Energeni brochure and instructions for setting table and options. Not available with sensor options.
⁷ Not available with other control or sensor options. PEC is available with MOB and OCS.
⁸ Specify group and zone. See **SiteSync** product page www.hubbellighting.com/controls/sitesync for more details.
⁹ Specify time delay; dimming level and mounting height.
¹⁰ Not available with SWP or SWPM control options.
¹¹ This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://cdn.beaconproducts.com/content/products/specs/specs_files/Traverse_LED_turtle_spec_sheet.pdf

PRECOMMISSIONED 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.hubbellighting.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: TRV/24NB-55/5K/T3/UNV/SWP/BL SiteSync only
 TRV/24NB-55/5K/T3/UNV/SWPM-20F/BL SiteSync with Occupancy Sensor

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.

TRV/24NB-55/5K/T3/UNV/MOB - 1 to 30 min. - 33% or 50% - ?? / BL

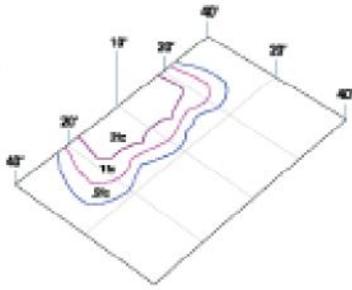


SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.

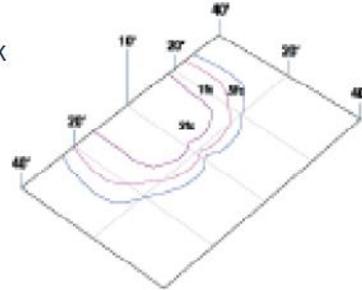


PHOTOMETRICS

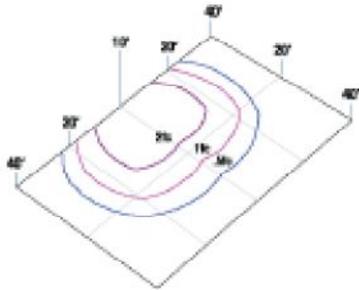
Type II
TRV-60NB-136-5K-T2



Type III
TRV-60NB-136-5K



Type IV
TRV-60NB-136-5K-T4



PERFORMANCE DATA

# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 80 CRI)				
				LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G
24	350mA	27w	T2	2833	105	1	0	1	2805	104	1	0	1	2408	89	1	0	1
			T3	2805	104	1	0	1	2777	103	1	0	1	2392	89	1	0	1
			T4	3086	114	1	0	1	3055	113	1	0	1	2623	97	1	0	1
			T5R	3142	116	2	0	2	3111	115	2	0	2	2670	99	2	0	2
			5X5	3031	112	2	0	1	3001	111	2	0	1	2577	95	2	0	1
			2X2	3287	122	3	0	1	3254	121	3	0	1	2794	103	3	0	1
24	700mA	55w	T2	5666	102	2	0	2	5610	101	2	0	2	4816	86	1	0	2
			T3	5610	101	1	0	2	5554	100	1	0	2	4784	86	1	0	2
			T4	6171	111	1	0	2	6110	109	1	0	2	5245	94	1	0	2
			T5R	6283	113	3	0	3	6221	111	3	0	3	5341	96	3	0	3
			5X5	6063	110	3	0	1	6002	109	3	0	1	5153	94	3	0	1
			2X2	6573	118	4	0	1	6508	117	4	0	1	5587	100	4	0	1
36	700mA	80w	T2	8505	101	2	0	3	8415	100	2	0	3	7224	87	2	0	2
			T3	8415	100	2	0	2	8331	99	2	0	2	7175	86	2	0	2
			T4	9256	110	1	0	3	9164	109	1	0	3	7868	94	1	0	3
			T5R	9425	112	3	0	3	9331	111	3	0	3	8011	96	3	0	3
			5X5	9094	109	4	0	1	9003	108	4	0	1	7730	93	3	0	1
			2X2	9860	118	4	0	1	9762	116	4	0	1	8381	100	4	0	1
48	700mA	110w	T2	11332	102	3	0	3	11220	101	3	0	3	9633	87	2	0	3
			T3	11220	101	2	0	3	11108	100	2	0	3	9567	86	2	0	3
			T4	12342	111	2	0	3	12219	110	2	0	3	10491	95	2	0	3
			T5R	12567	113	4	0	4	12441	112	4	0	4	10682	96	3	0	3
			5X5	12126	109	4	0	1	12004	108	4	0	1	10307	93	4	0	1
			2X2	13147	118	5	0	1	13016	117	5	0	1	11175	101	5	0	1
60	700mA	136w	T2	14165	103	3	0	3	14025	102	3	0	3	12041	88	3	0	3
			T3	14025	102	3	0	3	13885	101	3	0	3	11959	87	3	0	3
			T4	15427	113	2	0	3	15274	111	2	0	3	13114	96	2	0	3
			T5R	15708	115	4	0	4	15259	111	4	0	4	13352	97	4	0	4
			5X5	15157	111	4	0	1	15006	110	4	0	1	12884	94	4	0	1
			2X2	16434	120	5	0	2	16269	119	5	0	2	13968	102	5	0	1

¹Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°F	1.00	0.97	0.96	0.95	0.93	>560,000

¹ Projected per IESNA TM-21-11
Data references the extrapolated performance projections for the base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	OPER. CURRENT (Amps)	SYSTEM POWER (Watts)
24	1	(350mA)	120	0.23	27.0
			277	0.10	
24	2	(700mA)	120	0.46	55.0
			277	0.20	
36	1	(700mA)	120	0.68	80.0
			277	0.30	
48	1	(700mA)	120	0.92	110.0
			277	0.40	
60	1	(700mA)	120	1.13	136.0
			277	0.49	

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99
50°C	122°F	0.98

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

TRAVERSE SERIES

SURFACE/CEILING/GARAGE

Cat.#

Job

Type



Approvals

SPECIFICATIONS

Intended Use:

The Traverse luminaire is a wall surface mounted luminaire with a field replaceable LED light engine & optical bezel system. Internal components are totally enclosed in rain-tight and corrosion-resistant die cast aluminum housing. The TRV Luminaire is suitable for wet locations (TRV-D version only).

Construction:

- Traverse luminaire consists of a die cast aluminum two-piece housing.
- Die cast main (thermal) housing provides direct heat exchange between the LED light engine and the cool outdoor air.
- LED drivers are thermally isolated from the main housing, mechanically attached and heat sunk to the rear housing.
- Shape of the main housing is designed to prevent debris accumulation and as a bird nesting deterrent. The back and main housings are designed to hinge open for easy mounting and easy access.

LED/Optics:

- Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- A two-piece die cut silicone and polyurethane foam gasket ensures a weather-proof seal around each individual LED.
- Optical cartridge is secured to the housing with fasteners to ensure thermal conductivity.
- Optics are held in place without the use of adhesives and the complete assembly is gasketed.
- Cartridge assembly is available in various lighting distributions using TIR designed acrylic optical lenses over each LED.

Electrical:

- 100V through 277V, 50 Hz to 60 Hz (UNV).
- Power factor is ≥ 0.90 at full load.
- All electrical components are rated at 50,000 hours at full load and 25°C ambient conditions per MIL-217F Notice 2.
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 50°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Surge protection - 20kA.

Controls/Options:

- Traverse is available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the Motion Response system reduces the wattage down to a factory preset level, reducing light level accordingly. When motion is detected, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from the standard configurations.

Installation:

- Rear housing (back plate) is designed with various bolt patterns for direct wall mounting or mounting to a recessed junction box.
- Rear housing has three integral 1/2" NPT power feed locations (bottom and each side) for surface mounted conduit applications.
- After mounting the rear housing to the wall or junction box, the main housing is designed to hang and hinge closed after connecting the male and female quick connectors.
- Mounting design permits a simple retrofit to existing wall luminaires that utilize surface mount or recessed junction boxes.

Finish:

- IFS polyester powder-coat electrostatically applied and thermocured.
- IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

Listings:

The luminaire shall bear a NRTL label and be marked suitable for wet locations (standard).

Warranty:

Five year limited warranty (for more information visit: <http://www.hubbellighting.com/resources/warranty>).

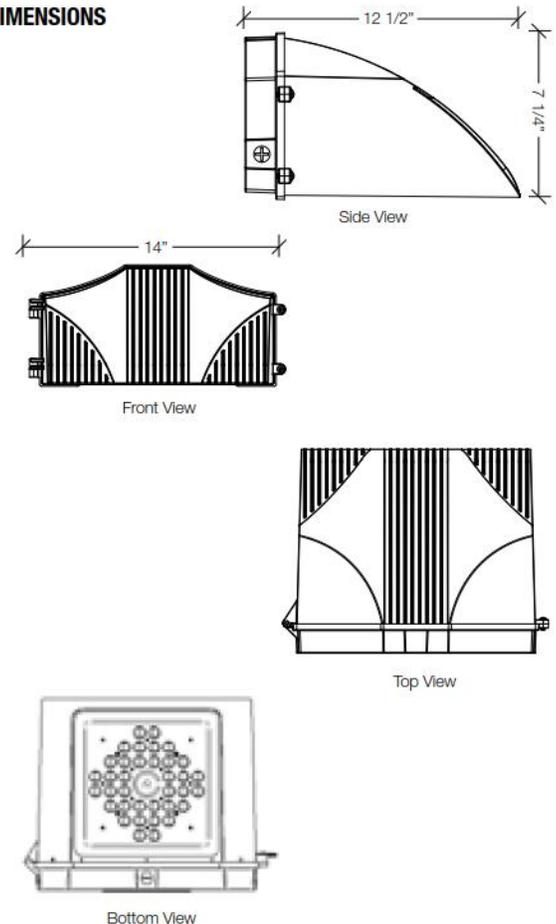
PRODUCT IMAGE(S)

Turtle Friendly

Florida Fish and Wildlife Approved



DIMENSIONS



CERTIFICATIONS/LISTINGS



*3000K and warmer CCTs only



Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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ORDERING INFORMATION ORDERING EXAMPLE: TRV-D/60NB-136/5K/T5R/UNV/PEC/BBT

SERIES	ENGINE-WATTS	LED COLOR	OPTICS	VOLTAGE	SENSOR OPTIONS	FINISH
TRV-D Traverse Down Light	24E-45 45 Watts - LED array	AMB Amber	T2 Type II	UNV 120-277V	OCS Occupancy sensor (on/off)	BBT basic black textured
TRV-U Traverse Up Light (lens req.)	36E-65 65 Watts - LED array	RO Red Orange	T3 Type III			347 347V
	48E-85 85 Watts - LED array		T4 Type IV	480 480V		WHT white textured
	60E-105 105 Watts - LED array		T5R Type V, rectangular			MBT metallic bronze textured
			2X2 Narrow spot flood			BZT bronze textured
			5X5 Medium flood			DBT dark bronze textured
						GYS gray smooth
						DPS dark platinum smooth
						GNT green textured
						MST metallic silver textured
						MTT metallic titanium textured
						OWI old world iron
						RAL _____
						ELECTRICAL OPTIONS
						PEC ¹ Photocell, button

¹ Not available with 347/480V, must specify voltage. Available with OCS

JOB _____ TYPE PL3A

NOTES _____ APPROVALS _____

FEATURES

- Elegant form factor
- High performance optics up to 35,000 delivered lumens
- Diffusion lens for low glare comfort
- NX™ wireless control options

CERTIFICATIONS

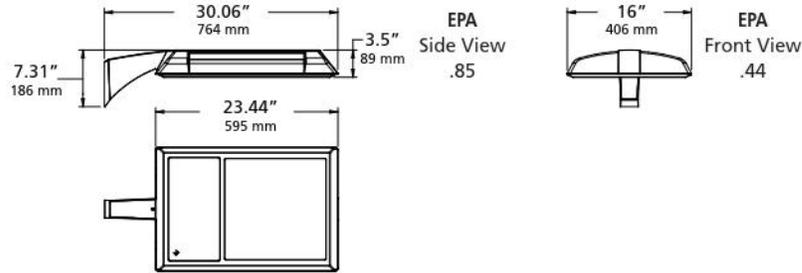


3000K and warmer CCTs only

SPECIFICATIONS



Weight: 34.6 lbs / 15.69 kg



ORDERING CODE

Series	LED Engine	CCT	Distribution	Rotation	Voltage	Mounting
ALT2 Altitude	No Lens 100L-160 20,000 lm 100L-200 25,000 lm 100L-240 30,000 lm 100L-285 35,000 lm	AM Amber 3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI 3K8 3000K, 80 CRI 4K8 4000K, 80 CRI 3K9 3000K, 90 CRI	FR Type I/Front Row 2 Type II 3 Type III 4 Type IV 4W Type IV Wide 5QM Type V Square Medium 5QN Type V Square Narrow 5R Type V Rectangular 5W Type V Wide (Round)	Blank for no rotation L ¹ Optic rotation left R ¹ Optic rotation right	UNV 120-277V 347 347V 480 480V	ASQ Arm Square pole A34 Arm mt 3.3-4.2" OD pole A46 Arm mt 4.5-6.0" OD pole MAF Horizontal Slipfitter 2 3/8" OD arm SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.) VSF Vertical Slipfitter Mount for 2" pipe tenon, (2-3/8" O.D.) WB Wall Bracket for area wall mount
Fixture Finish	Control Options		Options	Control Accessories		
BL Black DB Dark Bronze GT Graphite LG Light Gray PS Platinum Silver TT Titanium WH White CC Custom Color [†] † Consult factory	7PR 7 pin PCR, wireless control enabled 7PR-TL 7 pin PCR with twist lock photocontrol 7PR-SC 7 pin PCR with shorting cap AD-01 ² AstroDIM: 50% output at midnight AD-02 ² AstroDIM: 50% output midnight to 4 AM AD-03 ² AstroDIM: 50% output 10PM AD-04 ² AstroDIM: 50% output 10PM to 4AM NXSP14F ^{2,3} Wired NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXSP30F ^{2,3} Wired NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' NXSPW14F ^{2,3} NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXSPW30F ^{2,3} NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' NXWE NX Wireless Enabled	SCL-8F Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights up to 8' SCL-40F Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights 9' to 40' SCP-8F Remote control programmable line voltage sensor, use with SCPREMOTE SCP-40F Remote control programmable line voltage sensor, use with SCPREMOTE SWP ^{2,3,4} Site Sync™ Pre Commission Wireless Module SWPM-40F ^{2,3,4} Site Sync with Sensor 9' to 40' MH	BC ⁵ Backlight Control SF Single Fuse DF Double Fuse TB Terminal Block CLR Clear Lens HDL ⁶ Diffuse Lens	SCPREMOTE Remote control for SCP option. Order at least one per project to program and control the occupancy sensor SW7PR SiteSync™ on fixture module via 7PR SWUSB SiteSync™ Software on USB SWTAB SiteSync™ Windows Tablet SWBRG SiteSync™ Wireless Bridge Node SWFC SiteSync™ Field Commission Service WIR-RME-L wiSCAPE™ External Fixture Module NXOFM-1R1D-UNV NX External Control Node		

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

- 1 Not available with 5QM and 5W distributions.
- 2 Not available with other sensor or wireless control options.
- 3 Not available in 480V.
- 4 Specify group and zone at time of order. See www.hubbellighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.
- 5 Not available with Type 5 distributions, CLR, or HDL option.
- 6 Only available in Type 3 or Type 5W

Kim Lighting reserves the right to change specifications without notice.

LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	20,000	160	No Lens	FR	20843	2	0	2	130	21939	2	0	2	137	22233	2	0	2	139
				FR-BC	12486	1	0	1	78	13142	1	0	1	82	13318	1	0	1	84
				2	19189	3	0	3	120	20198	3	0	3	126	20469	3	0	3	129
				2-BC	10631	1	0	2	66	11190	1	0	2	70	11340	1	0	2	72
				3	19729	2	0	4	123	20766	2	0	4	130	21044	2	0	4	132
				3-BC	9732	1	0	2	61	10244	1	0	2	64	10381	1	0	2	66
				4	19545	2	0	4	122	20573	2	0	4	129	20848	2	0	4	131
				4-BC	11562	1	0	2	72	12170	1	0	2	76	12333	1	0	2	78
				4W	19567	2	0	4	122	20596	2	0	4	129	20872	2	0	4	130
				4W-BC	8203	1	0	2	51	8634	1	0	2	54	8750	1	0	2	56
				5R	20311	4	0	4	127	21379	4	0	4	134	21665	4	0	4	135
				5QM	20697	4	0	2	129	21785	4	0	2	136	22077	4	0	2	137
				5QN	20265	4	0	1	127	21330	4	0	1	133	21616	4	0	1	136
				5W	20116	5	0	3	126	21174	5	0	3	132	21457	5	0	3	134
			Clear Lens	FR	19495	2	0	2	123	20520	2	0	2	130	20795	2	0	2	132
				2	17948	2	0	3	114	18892	3	0	3	120	19145	3	0	3	121
				3	18045	2	0	3	114	18994	2	0	3	120	19248	2	0	3	122
				4	18281	1	0	4	116	19242	2	0	4	122	19500	2	0	4	123
				4W	18302	2	0	4	116	19264	2	0	4	122	19522	2	0	4	124
				5R	18997	4	0	4	120	19996	4	0	4	127	20264	4	0	4	128
				5QM	19359	4	0	2	123	20376	4	0	2	129	20649	4	0	2	131
				5QN	18954	4	0	1	120	19951	4	0	1	126	20218	4	0	1	128
			5W	18815	5	0	3	119	19804	5	0	3	125	20069	5	0	3	127	
			HDL Lens	3	15474	3	0	3	97	16287	3	0	3	102	16505	3	0	3	104
				5W	16224	3	0	2	102	17076	3	0	2	107	17305	3	0	2	108

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	25,000	200	No Lens	FR	24095	2	0	2	122	25362	2	0	2	128	25702	2	0	2	130
				FR-BC	14434	1	0	1	73	15193	1	0	1	77	15396	1	0	1	78
				2	22183	3	0	3	112	23349	3	0	3	118	23662	3	0	3	120
				2-BC	12290	1	0	2	62	12936	1	0	2	65	13109	1	0	2	66
				3	22807	2	0	4	115	24006	3	0	4	121	24327	3	0	4	123
				3-BC	11251	1	0	2	57	11842	1	0	2	60	12001	1	0	2	61
				4	22595	2	0	4	114	23782	2	0	4	120	24101	2	0	4	122
				4-BC	13366	1	0	3	68	14069	1	0	3	71	14257	1	0	3	72
				4W	22620	3	0	4	114	23809	3	0	5	120	24128	3	0	5	122
				4W-BC	9483	1	0	2	48	9982	1	0	2	50	10115	1	0	2	51
				5R	23480	4	0	4	119	24714	4	0	4	125	25045	4	0	4	126
				5QM	23927	4	0	2	121	25184	4	0	2	127	25522	4	0	2	129
				5QN	23427	5	0	1	118	24658	5	0	1	125	24988	5	0	1	126
				5W	23255	5	0	3	117	24477	5	0	3	124	24805	5	0	3	125
				Clear Lens	FR	22537	2	0	2	114	23722	2	0	2	120	24039	2	0	2
			2		20749	3	0	3	105	21839	3	0	3	110	22132	3	0	3	112
			3		21332	2	0	4	108	22453	2	0	4	113	22754	2	0	4	115
			4		21133	2	0	4	107	22244	2	0	4	112	22542	2	0	4	114
			4W		21157	2	0	4	107	22270	2	0	4	112	22568	3	0	4	114
			5R		21961	4	0	4	111	23116	4	0	4	117	23425	4	0	4	118
			5QM		22379	4	0	2	113	23556	4	0	2	119	23871	4	0	2	121
			5QN		21912	4	0	1	111	23063	5	0	1	116	23372	5	0	1	118
			5W	21751	5	0	3	110	22894	5	0	3	116	23201	5	0	3	117	
			HDL Lens	3	18134	3	0	3	92	19087	3	0	3	96	19343	3	0	3	98
				5W	18490	3	0	2	93	19462	4	0	2	98	19723	4	0	2	100

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	30,000	240	No Lens	FR	28520	2	0	2	118	30020	2	0	2	125	30422	2	0	2	126
				FR-BC	17085	1	0	1	71	17983	1	0	1	75	18223	1	0	1	76
				2	26257	3	0	4	109	27638	3	0	4	115	28008	3	0	4	116
				2-BC	14547	1	0	2	60	15312	1	0	2	64	15517	1	0	2	64
				3	26995	3	0	4	112	28415	3	0	4	118	28795	3	0	4	119
				3-BC	13317	1	0	2	55	14017	1	0	2	58	14205	1	0	2	59
				4	26744	2	0	4	111	28150	2	0	5	117	28527	2	0	5	118
				4-BC	15821	1	0	3	66	16653	1	0	3	69	16876	1	0	3	70
				4W	26775	3	0	5	111	28182	3	0	5	117	28559	3	0	5	119
				4W-BC	11225	1	0	2	47	11815	1	0	2	49	11973	1	0	2	50
				5R	27792	5	0	5	115	29253	5	0	5	121	29645	5	0	5	123
				5QM	28321	4	0	2	118	29809	5	0	3	124	30209	5	0	3	125
				5QN	27729	5	0	1	115	29187	5	0	1	121	29578	5	0	1	123
			5W	27525	5	0	4	114	28972	5	0	4	120	29360	5	0	4	122	
			Clear Lens	FR	26676	2	0	2	111	28078	2	0	2	117	28454	2	0	2	118
				2	24559	3	0	3	102	25850	3	0	3	107	26196	3	0	4	109
				3	25249	3	0	4	105	26577	3	0	4	110	26933	3	0	4	112
				4	25014	2	0	4	104	26329	2	0	4	109	26682	2	0	4	111
				4W	25043	3	0	5	104	26359	3	0	5	109	26712	3	0	5	111
				5R	25995	5	0	5	108	27361	5	0	5	114	27728	5	0	5	115
				5QM	26489	4	0	2	110	27882	4	0	2	116	28255	4	0	2	117
			5QN	25936	5	0	1	108	27299	5	0	1	113	27665	5	0	1	115	
			5W	25745	5	0	3	107	27099	5	0	3	112	27461	5	0	3	114	
HDL Lens	3	21464	3	0	3	89	22593	3	0	3	94	22895	3	0	3	95			
	5W	21886	4	0	2	91	23036	4	0	2	96	23345	4	0	2	97			

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

Kim Lighting reserves the right to change specifications without notice.

LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	35,000	285	No Lens	FR	33175	2	0	2	116	34919	2	0	2	123	35387	2	0	2	124
				FR-BC	19873	1	0	1	70	20918	1	0	1	73	21198	1	0	1	74
				2	30543	3	0	4	107	32149	3	0	4	113	32579	3	0	4	114
				2-BC	16921	1	0	2	59	17811	1	0	2	62	18049	1	0	2	63
				3	31402	3	0	5	110	33052	3	0	5	116	33495	3	0	5	118
				3-BC	15490	1	0	3	54	16305	1	0	3	57	16523	1	0	3	58
				4	31109	2	0	5	109	32745	2	0	5	115	33183	2	0	5	116
				4-BC	18403	1	0	3	65	19371	1	0	3	68	19630	1	0	3	69
				4W	31145	3	0	5	109	32782	3	0	5	115	33221	3	0	5	117
				4W-BC	13057	1	0	3	46	13743	1	0	3	48	13927	1	0	3	49
				5R	32328	5	0	5	113	34028	5	0	5	119	34483	5	0	5	121
				5QM	32943	5	0	3	116	34675	5	0	3	122	35139	5	0	3	123
				5QN	32255	5	0	1	113	33951	5	0	1	119	34405	5	0	1	121
				5W	32018	5	0	4	112	33701	5	0	4	118	34152	5	0	4	120
				Clear Lens	FR	31030	2	0	2	109	32661	2	0	2	115	33098	2	0	2
			2		28568	3	0	4	100	30069	3	0	4	106	30472	3	0	4	107
			3		29371	3	0	4	103	30915	3	0	5	108	31329	3	0	5	110
			4		29097	2	0	5	102	30627	2	0	5	107	31037	2	0	5	109
			4W		29130	3	0	5	102	30662	3	0	5	108	31072	3	0	5	109
			5R		30237	5	0	5	106	31827	5	0	5	112	32253	5	0	5	113
			5QM		30813	5	0	3	108	32432	5	0	3	114	32867	5	0	3	115
			5QN		30169	5	0	1	106	31755	5	0	1	111	32180	5	0	1	113
			5W	29947	5	0	4	105	31521	5	0	4	111	31944	5	0	4	112	
			HDL Lens	3	24968	3	0	3	88	26280	3	0	3	92	26632	3	0	3	93
				5W	25458	4	0	3	89	26796	4	0	3	94	27155	4	0	3	95

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

Kim Lighting reserves the right to change specifications without notice.

SPECIFICATIONS

Housing:

- Low copper aluminum alloy die-casting is designed as one-piece with internal cooling fins.
- Solid, cast aluminum wall creates a thermal barrier between the optical and electrical compartments.
- Molded silicone gasket throughout insures the sealing between the two compartments and provides ingress protection.
- Housing is designed with integral LED heat sink utilized for thermal transfer and for securing the location of each LED module.
- IK09 rated enclosure protects electrical equipment against external mechanical impacts.

Lens Frame:

- One-piece low copper aluminum alloy die-cast is secured to housing with 6 screws.

Backlight Control

- Optional Backlight Control on each LED module to completely control unwanted backlight.

Lens

One-piece flat glass lens slips secure with clips. Extra silicone gasketing is provided to retain a clear optical compartment.

Optical Module:

- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB).
- Optical lenses shall be clear injection molded PMMA acrylic.
- Each MCPCB and optic shall be sealed to the diecast housing and sealed with a continuous one piece injection molded silicone rubber gasket.
- Patent Pending design of optical array shall independently shield each LED optic across the length of the aperture.
- Optional fixture finish optical surfaces shall not exceed BUG ratings of the standard white finish and shall be greater than or equal to the delivered lumens of the optional matte black optical surface finish.

Electrical Components

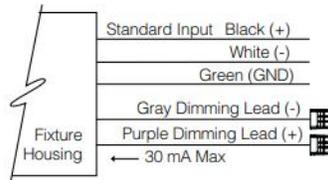
- Standard programmable driver allows for programmable drive current settings.
- Electrical components are strategically located in the driver gear compartment with a molded silicon grommet seal to provide separation from the optical chamber.
- Maximum lightning surge current 20KA with thermally protected varistor technology. Surge suppression is series circuited preventing

total fixture failure. ANSI/IEEE C62.41 Category C High.

- Open circuit fault will turn off the luminaire in order to protect the sensitive electronics and acts as a signal for maintenance.
- Programmable Driver is rated for -40°C starting.
- "Thermal Shield", primary side, thermister provides protection for the sustainable life of electronic components (350mA to 700mA).

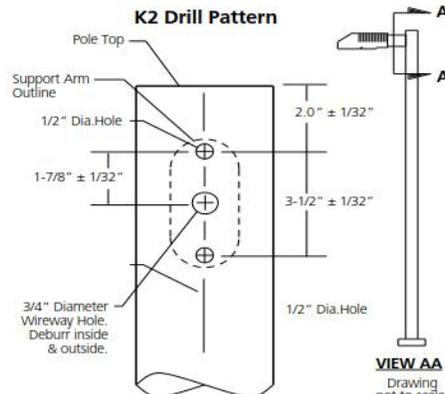
Dimming:

- Dimming range from 100% to 10% through the use of the standard 0-10V interface on the programmable driver.
- Modular wiring harness in the service area provides user access to the dimming circuitry.
- Dimming circuitry compatible with 0-10V, user-defined control devices.
- Optional factory programmed dimming profile.



Support Arm:

- Die-cast, low copper aluminum alloy, with splice access cover.
- Die-cast pole adaptor and an internal reinforcing plate are provided with a wire strain relief.
- The arm adapter is square or circular cut for specified pole size and shape.
- For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. The block accepts #14 to #8 wire sizes and is factory prewired to the electrical module's quick-disconnect plug inside the electrical compartment.



Optional Slip-Fitter:

- Internally accessible slip-fitter attaches to a 1-1/4" to 2-3/8" tenon and allows hands-free wiring and maintenance.

Optional Wall Mount:

- Optional, cast aluminum mounting plate attaches to a wall over a junction box and the speed mount is bolted to the cover plate. To complete the wiring, the luminaire assembly slides over the mounting plate.

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.

Finish:

Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.

Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, (WH) White, and (CC) Custom Color (Include RAL#).

Certifications and Listings:

- UL 1598 Standard for Luminaires.
- UL 8750 Standard for Safety for Light.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- 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

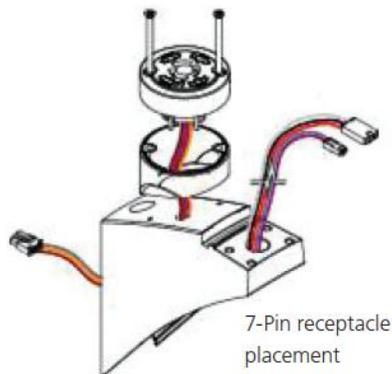
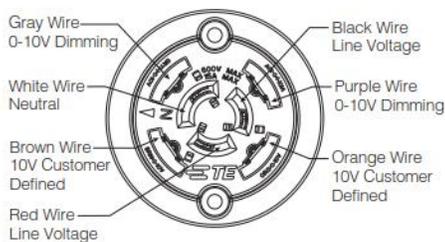
Photocell Receptacle

7PR

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.



Wireless Controls

- Optional universal voltage (120-277V) for dusk to dawn energy savings. Photocontrol 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.
- Occupancy Sensor shall be programmable and use passive infrared (PIR) sensing technology that reacts to changes in infrared energy (moving body heat) within the coverage area. Careful consideration must be given to obstructions that may block the sensor's line of sight.

- Factory default settings for SCP option shall be: - High mode: 10V - Low mode: 1V - Ramp-up rate: disabled - Fade-down rate: disabled - Photocell: Off - Sensitivity: Full - Time Delay: Fade to low: 5 minutes - Time Delay: Fade to off: 1 hour
- The SCP enables any wall mounted luminaire, in excess of 75 watts, to meet California Title 24 requirements with integral 10KA surge protection for added reliability and serviceability. For more detail: http://www.aal.net/products/sensor_control_programmable

AstroDIM

AstroDIM provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.

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.hubbelllighting.com/products/sitesync for more details.

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.

Kim Lighting reserves the right to change specifications without notice.

²Voltage, ³Color, ⁴Pole Diameter,

JOB _____

TYPE PL4A

NOTES _____

APPROVALS _____

FEATURES

- Elegant form factor
- High performance optics up to 35,000 delivered lumens
- Diffusion lens for low glare comfort
- NX™ wireless control options

CERTIFICATIONS

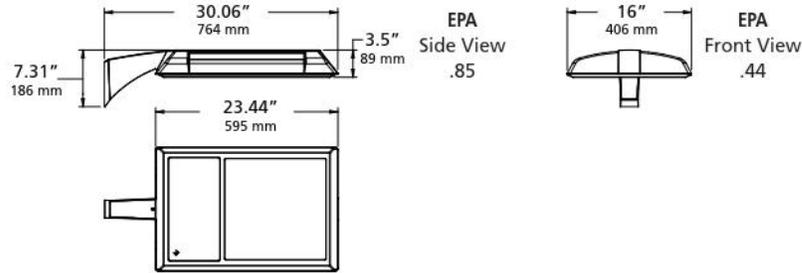


3000K and warmer CCTs only

SPECIFICATIONS



Weight: 34.6 lbs / 15.69 kg



ORDERING CODE

Series	LED Engine	CCT	Distribution	Rotation	Voltage	Mounting
ALT2 Altitude	No Lens 100L-160 20,000 lm 100L-200 25,000 lm 100L-240 30,000 lm 100L-285 35,000 lm	AM Amber 3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI 3K8 3000K, 80 CRI 4K8 4000K, 80 CRI 3K9 3000K, 90 CRI	FR Type I/Front Row 2 Type II 3 Type III 4 Type IV 4W Type IV Wide 5QM Type V Square Medium 5QN Type V Square Narrow 5R Type V Rectangular 5W Type V Wide (Round)	Blank for no rotation L ¹ Optic rotation left R ¹ Optic rotation right	UNV 120-277V 347 347V 480 480V	ASQ Arm Square pole A34 Arm mt 3.3-4.2" OD pole A46 Arm mt 4.5-6.0" OD pole MAF Horizontal Slipfitter 2 3/8" OD arm SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.) VSF Vertical Slipfitter Mount for 2" pipe tenon, (2-3/8" O.D.) WB Wall Bracket for area wall mount
Fixture Finish	Control Options		Options	Control Accessories		
BL Black DB Dark Bronze GT Graphite LG Light Gray PS Platinum Silver TT Titanium WH White CC Custom Color [†] † Consult factory	7PR 7 pin PCR, wireless control enabled 7PR-TL 7 pin PCR with twist lock photocontrol 7PR-SC 7 pin PCR with shorting cap AD-01 ² AstroDIM: 50% output at midnight AD-02 ² AstroDIM: 50% output midnight to 4 AM AD-03 ² AstroDIM: 50% output 10PM AD-04 ² AstroDIM: 50% output 10PM to 4AM NXSP14F ^{2,3} Wired NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXSP30F ^{2,3} Wired NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' NXSPW14F ^{2,3} NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXSPW30F ^{2,3} NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' NXWE NX Wireless Enabled	SCL-8F Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights up to 8' SCL-40F Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights 9' to 40' SCP-8F Remote control programmable line voltage sensor, use with SCPREMOTE SCP-40F Remote control programmable line voltage sensor, use with SCPREMOTE SWP ^{2,3,4} Site Sync™ Pre Commission Wireless Module SWPM-40F ^{2,3,4} Site Sync with Sensor 9' to 40' MH	BC ⁵ Backlight Control SF Single Fuse DF Double Fuse TB Terminal Block CLR Clear Lens HDL ⁶ Diffuse Lens	SCPREMOTE Remote control for SCP option. Order at least one per project to program and control the occupancy sensor SW7PR SiteSync™ on fixture module via 7PR SWUSB SiteSync™ Software on USB SWTAB SiteSync™ Windows Tablet SWBRG SiteSync™ Wireless Bridge Node SWFC SiteSync™ Field Commission Service WIR-RME-L wiSCAPE™ External Fixture Module NXOFM-1R1D-UNV NX External Control Node		

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

- 1 Not available with 5QM and 5W distributions.
- 2 Not available with other sensor or wireless control options.
- 3 Not available in 480V.
- 4 Specify group and zone at time of order. See www.hubbellighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.
- 5 Not available with Type 5 distributions, CLR, or HDL option.
- 6 Only available in Type 3 or Type 5W

Kim Lighting reserves the right to change specifications without notice.

LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	20,000	160	No Lens	FR	20843	2	0	2	130	21939	2	0	2	137	22233	2	0	2	139
				FR-BC	12486	1	0	1	78	13142	1	0	1	82	13318	1	0	1	84
				2	19189	3	0	3	120	20198	3	0	3	126	20469	3	0	3	129
				2-BC	10631	1	0	2	66	11190	1	0	2	70	11340	1	0	2	72
				3	19729	2	0	4	123	20766	2	0	4	130	21044	2	0	4	132
				3-BC	9732	1	0	2	61	10244	1	0	2	64	10381	1	0	2	66
				4	19545	2	0	4	122	20573	2	0	4	129	20848	2	0	4	131
				4-BC	11562	1	0	2	72	12170	1	0	2	76	12333	1	0	2	78
				4W	19567	2	0	4	122	20596	2	0	4	129	20872	2	0	4	130
				4W-BC	8203	1	0	2	51	8634	1	0	2	54	8750	1	0	2	56
				5R	20311	4	0	4	127	21379	4	0	4	134	21665	4	0	4	135
				5QM	20697	4	0	2	129	21785	4	0	2	136	22077	4	0	2	137
			5QN	20265	4	0	1	127	21330	4	0	1	133	21616	4	0	1	136	
			5W	20116	5	0	3	126	21174	5	0	3	132	21457	5	0	3	134	
			Clear Lens	FR	19495	2	0	2	123	20520	2	0	2	130	20795	2	0	2	132
				2	17948	2	0	3	114	18892	3	0	3	120	19145	3	0	3	121
				3	18045	2	0	3	114	18994	2	0	3	120	19248	2	0	3	122
				4	18281	1	0	4	116	19242	2	0	4	122	19500	2	0	4	123
				4W	18302	2	0	4	116	19264	2	0	4	122	19522	2	0	4	124
				5R	18997	4	0	4	120	19996	4	0	4	127	20264	4	0	4	128
				5QM	19359	4	0	2	123	20376	4	0	2	129	20649	4	0	2	131
			5QN	18954	4	0	1	120	19951	4	0	1	126	20218	4	0	1	128	
			5W	18815	5	0	3	119	19804	5	0	3	125	20069	5	0	3	127	
			HDL Lens	3	15474	3	0	3	97	16287	3	0	3	102	16505	3	0	3	104
5W	16224	3		0	2	102	17076	3	0	2	107	17305	3	0	2	108			

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	25,000	200	No Lens	FR	24095	2	0	2	122	25362	2	0	2	128	25702	2	0	2	130
				FR-BC	14434	1	0	1	73	15193	1	0	1	77	15396	1	0	1	78
				2	22183	3	0	3	112	23349	3	0	3	118	23662	3	0	3	120
				2-BC	12290	1	0	2	62	12936	1	0	2	65	13109	1	0	2	66
				3	22807	2	0	4	115	24006	3	0	4	121	24327	3	0	4	123
				3-BC	11251	1	0	2	57	11842	1	0	2	60	12001	1	0	2	61
				4	22595	2	0	4	114	23782	2	0	4	120	24101	2	0	4	122
				4-BC	13366	1	0	3	68	14069	1	0	3	71	14257	1	0	3	72
				4W	22620	3	0	4	114	23809	3	0	5	120	24128	3	0	5	122
				4W-BC	9483	1	0	2	48	9982	1	0	2	50	10115	1	0	2	51
				5R	23480	4	0	4	119	24714	4	0	4	125	25045	4	0	4	126
				5QM	23927	4	0	2	121	25184	4	0	2	127	25522	4	0	2	129
				5QN	23427	5	0	1	118	24658	5	0	1	125	24988	5	0	1	126
				5W	23255	5	0	3	117	24477	5	0	3	124	24805	5	0	3	125
			Clear Lens	FR	22537	2	0	2	114	23722	2	0	2	120	24039	2	0	2	121
				2	20749	3	0	3	105	21839	3	0	3	110	22132	3	0	3	112
				3	21332	2	0	4	108	22453	2	0	4	113	22754	2	0	4	115
				4	21133	2	0	4	107	22244	2	0	4	112	22542	2	0	4	114
				4W	21157	2	0	4	107	22270	2	0	4	112	22568	3	0	4	114
				5R	21961	4	0	4	111	23116	4	0	4	117	23425	4	0	4	118
				5QM	22379	4	0	2	113	23556	4	0	2	119	23871	4	0	2	121
				5QN	21912	4	0	1	111	23063	5	0	1	116	23372	5	0	1	118
			5W	21751	5	0	3	110	22894	5	0	3	116	23201	5	0	3	117	
			HDL Lens	3	18134	3	0	3	92	19087	3	0	3	96	19343	3	0	3	98
				5W	18490	3	0	2	93	19462	4	0	2	98	19723	4	0	2	100

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	30,000	240	No Lens	FR	28520	2	0	2	118	30020	2	0	2	125	30422	2	0	2	126
				FR-BC	17085	1	0	1	71	17983	1	0	1	75	18223	1	0	1	76
				2	26257	3	0	4	109	27638	3	0	4	115	28008	3	0	4	116
				2-BC	14547	1	0	2	60	15312	1	0	2	64	15517	1	0	2	64
				3	26995	3	0	4	112	28415	3	0	4	118	28795	3	0	4	119
				3-BC	13317	1	0	2	55	14017	1	0	2	58	14205	1	0	2	59
				4	26744	2	0	4	111	28150	2	0	5	117	28527	2	0	5	118
				4-BC	15821	1	0	3	66	16653	1	0	3	69	16876	1	0	3	70
				4W	26775	3	0	5	111	28182	3	0	5	117	28559	3	0	5	119
				4W-BC	11225	1	0	2	47	11815	1	0	2	49	11973	1	0	2	50
				5R	27792	5	0	5	115	29253	5	0	5	121	29645	5	0	5	123
				5QM	28321	4	0	2	118	29809	5	0	3	124	30209	5	0	3	125
			5QN	27729	5	0	1	115	29187	5	0	1	121	29578	5	0	1	123	
			5W	27525	5	0	4	114	28972	5	0	4	120	29360	5	0	4	122	
			Clear Lens	FR	26676	2	0	2	111	28078	2	0	2	117	28454	2	0	2	118
				2	24559	3	0	3	102	25850	3	0	3	107	26196	3	0	4	109
				3	25249	3	0	4	105	26577	3	0	4	110	26933	3	0	4	112
				4	25014	2	0	4	104	26329	2	0	4	109	26682	2	0	4	111
				4W	25043	3	0	5	104	26359	3	0	5	109	26712	3	0	5	111
				5R	25995	5	0	5	108	27361	5	0	5	114	27728	5	0	5	115
				5QM	26489	4	0	2	110	27882	4	0	2	116	28255	4	0	2	117
			5QN	25936	5	0	1	108	27299	5	0	1	113	27665	5	0	1	115	
			5W	25745	5	0	3	107	27099	5	0	3	112	27461	5	0	3	114	
			HDL Lens	3	21464	3	0	3	89	22593	3	0	3	94	22895	3	0	3	95
5W	21886	4		0	2	91	23036	4	0	2	96	23345	4	0	2	97			

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

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LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
100L	35,000	285	No Lens	FR	33175	2	0	2	116	34919	2	0	2	123	35387	2	0	2	124
				FR-BC	19873	1	0	1	70	20918	1	0	1	73	21198	1	0	1	74
				2	30543	3	0	4	107	32149	3	0	4	113	32579	3	0	4	114
				2-BC	16921	1	0	2	59	17811	1	0	2	62	18049	1	0	2	63
				3	31402	3	0	5	110	33052	3	0	5	116	33495	3	0	5	118
				3-BC	15490	1	0	3	54	16305	1	0	3	57	16523	1	0	3	58
				4	31109	2	0	5	109	32745	2	0	5	115	33183	2	0	5	116
				4-BC	18403	1	0	3	65	19371	1	0	3	68	19630	1	0	3	69
				4W	31145	3	0	5	109	32782	3	0	5	115	33221	3	0	5	117
				4W-BC	13057	1	0	3	46	13743	1	0	3	48	13927	1	0	3	49
				5R	32328	5	0	5	113	34028	5	0	5	119	34483	5	0	5	121
				5QM	32943	5	0	3	116	34675	5	0	3	122	35139	5	0	3	123
				5QN	32255	5	0	1	113	33951	5	0	1	119	34405	5	0	1	121
				5W	32018	5	0	4	112	33701	5	0	4	118	34152	5	0	4	120
				Clear Lens	FR	31030	2	0	2	109	32661	2	0	2	115	33098	2	0	2
			2		28568	3	0	4	100	30069	3	0	4	106	30472	3	0	4	107
			3		29371	3	0	4	103	30915	3	0	5	108	31329	3	0	5	110
			4		29097	2	0	5	102	30627	2	0	5	107	31037	2	0	5	109
			4W		29130	3	0	5	102	30662	3	0	5	108	31072	3	0	5	109
			5R		30237	5	0	5	106	31827	5	0	5	112	32253	5	0	5	113
			5QM		30813	5	0	3	108	32432	5	0	3	114	32867	5	0	3	115
			5QN		30169	5	0	1	106	31755	5	0	1	111	32180	5	0	1	113
			5W	29947	5	0	4	105	31521	5	0	4	111	31944	5	0	4	112	
			HDL Lens	3	24968	3	0	3	88	26280	3	0	3	92	26632	3	0	3	93
				5W	25458	4	0	3	89	26796	4	0	3	94	27155	4	0	3	95

Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

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SPECIFICATIONS

Housing:

- Low copper aluminum alloy die-casting is designed as one-piece with internal cooling fins.
- Solid, cast aluminum wall creates a thermal barrier between the optical and electrical compartments.
- Molded silicone gasket throughout insures the sealing between the two compartments and provides ingress protection.
- Housing is designed with integral LED heat sink utilized for thermal transfer and for securing the location of each LED module.
- IK09 rated enclosure protects electrical equipment against external mechanical impacts.

Lens Frame:

- One-piece low copper aluminum alloy die-cast is secured to housing with 6 screws.

Backlight Control

- Optional Backlight Control on each LED module to completely control unwanted backlight.

Lens

One-piece flat glass lens slips secure with clips. Extra silicone gasketing is provided to retain a clear optical compartment.

Optical Module:

- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB).
- Optical lenses shall be clear injection molded PMMA acrylic.
- Each MCPCB and optic shall be sealed to the diecast housing and sealed with a continuous one piece injection molded silicone rubber gasket.
- Patent Pending design of optical array shall independently shield each LED optic across the length of the aperture.
- Optional fixture finish optical surfaces shall not exceed BUG ratings of the standard white finish and shall be greater than or equal to the delivered lumens of the optional matte black optical surface finish.

Electrical Components

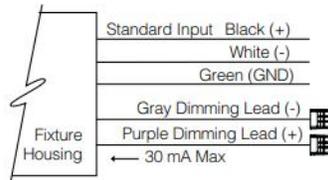
- Standard programmable driver allows for programmable drive current settings.
- Electrical components are strategically located in the driver gear compartment with a molded silicon grommet seal to provide separation from the optical chamber.
- Maximum lightning surge current 20KA with thermally protected varistor technology. Surge suppression is series circuited preventing

total fixture failure. ANSI/IEEE C62.41 Category C High.

- Open circuit fault will turn off the luminaire in order to protect the sensitive electronics and acts as a signal for maintenance.
- Programmable Driver is rated for -40°C starting.
- "Thermal Shield", primary side, thermister provides protection for the sustainable life of electronic components (350mA to 700mA).

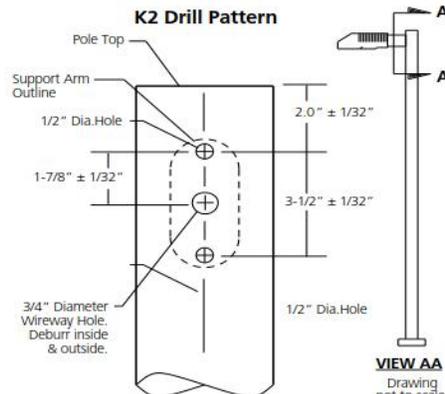
Dimming:

- Dimming range from 100% to 10% through the use of the standard 0-10V interface on the programmable driver.
- Modular wiring harness in the service area provides user access to the dimming circuitry.
- Dimming circuitry compatible with 0-10V, user-defined control devices.
- Optional factory programmed dimming profile.



Support Arm:

- Die-cast, low copper aluminum alloy, with splice access cover.
- Die-cast pole adaptor and an internal reinforcing plate are provided with a wire strain relief.
- The arm adapter is square or circular cut for specified pole size and shape.
- For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. The block accepts #14 to #8 wire sizes and is factory prewired to the electrical module's quick-disconnect plug inside the electrical compartment.



Optional Slip-Fitter:

- Internally accessible slip-fitter attaches to a 1-1/4" to 2-3/8" tenon and allows hands-free wiring and maintenance.

Optional Wall Mount:

- Optional, cast aluminum mounting plate attaches to a wall over a junction box and the speed mount is bolted to the cover plate. To complete the wiring, the luminaire assembly slides over the mounting plate.

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.

Finish:

Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.

Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, (WH) White, and (CC) Custom Color (Include RAL#).

Certifications and Listings:

- UL 1598 Standard for Luminaires.
- UL 8750 Standard for Safety for Light.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- 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>

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CONTROLS

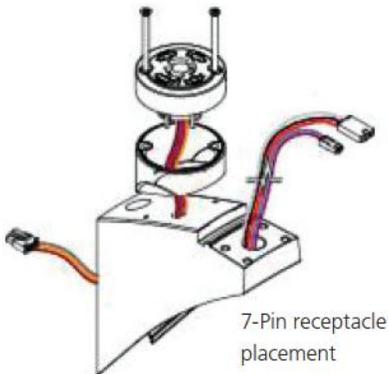
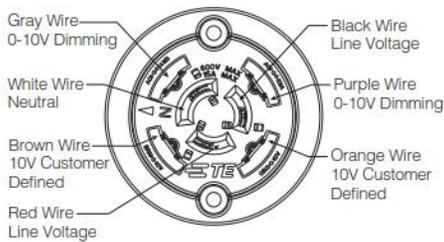
Photocell Receptacle

7PR

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.



- Factory default settings for SCP option shall be:- High mode: 10V - Low mode: 1V - Ramp-uprate: disabled - Fade-down rate: disabled -Photocell: Off - Sensitivity: Full - Time Delay: Fade to low: 5 minutes - Time Delay: Fade to off: 1 hour
- The SCP enables any wall mounted luminaire, in excess of 75 watts, to meet California Title 24 requirements with integral 10KA surge protection for added reliability and serviceability. For more detail: http://www.aal.net/products/sensor_control_programmable

AstroDIM

AstroDIM provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.

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.hubbelllighting.com/products/sitesync for more details.

Wireless Controls

- Optional universal voltage (120-277V) for dusk to dawn energy savings. Photocontrol 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.
- Occupancy Sensor shall be programmable and use passive infrared (PIR) sensing technology that reacts to changes in infrared energy (moving body heat) within the coverage area. Careful consideration must be given to obstructions that may block the sensor's line of sight.

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.

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²Voltage, ³Color, ⁴Pole Diameter,