

Pavilion™

FEATURES

- Traditional or Performance Optics
- Bluetooth® enabled RGBW accent
- Integral NEMA 3R Enclosure
- Dual receptacle power panel
- PA System capability
- IP65 optical system



NU configurations in 3000K and warmer CCTs only



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

HOUSING:

- Castings shall be low copper aluminum alloy die-cast.
- Gaskets shall be molded silicone to prevent harmful ingress to the lamp and driver compartments.
- Optical system shall be IP66 rated.

SHAFT:

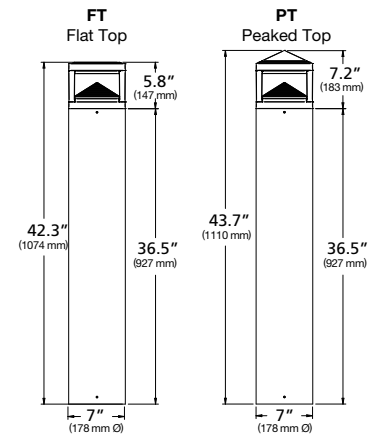
- Aluminum shaft(s) shall be .125" thick extruded aluminum 6061 alloy.
- Concrete shaft(s) shall conform to current specifications for "Portland Cement." ASTM C150, Type I or II. Aggregates shall meet current requirements of "Specifications for Concrete Aggregates," ASTM C33. Water shall be clean and free from deleterious amounts of silt, oil, acids, alkalies or organic materials. Wire for reinforcement shall conform to ASTM A185. Steel for lugs and plates shall conform to ASTM A36, or A283 grade D.
- Concrete shaft(s) shall be medium sand-blasted with anti-graffiti sealer and material color shall be integral to the concrete mix.
- Concrete shaft(s) shall be cured to allow for completion of the hydration process, and result in a 28 day compressive strength of not less than 4,500 psi.
- Concrete shaft(s) shall be cast from fiberglass molds used to insure uniform parts. Mold parting lines maybe slightly visible in finished parts.

OPTICS

- LEDs mount to a metal printed circuit board assembly (MCPCB).
- Optical lenses are clear injection molded PMMA acrylic.
- UO configurations have an optically clear flat tempered glass lens, all other configurations have either an optically clear or high transmission diffused acrylic lens.

INSTALLATION

- Aluminum shaft configurations shall have four 3/8" x 10" x 2" zinc plated L-hook anchor bolts shall to be installed with an included template. Nuts and washers shall be provided to level and secure the mounting plate to the anchor bolts.
- Aluminum shaft configurations shall have a mounting plate shall be able to be rotated 20° in either direction during installation for aiming adjustment.
- Concrete shaft configurations shall have four steel mounting tabs for installation on four 1/2" x 10" + 2" zinc electroplated L-hook anchor bolts. Each anchor bolt is supplied with two nuts, two washers, and a rigid pressed board template.
- Concrete shaft configurations shall be palletized with adequate hold-downs to prevent load movement in transit.
- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.



Weight	
PA7S	25.3 lbs / 11.5 kg

ELECTRICAL

- Universal voltage, 120 through 277V with a ±10% tolerance. Driver is Underwriters Laboratories approved.
- High voltage configurations, 208-277, 347/480. Driver is Underwriters Laboratories approved.
- "Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components.
- Drivers are greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments.
- Luminaire is capable of operating at 100% brightness in a 40°C environment. Both driver and optical array have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C.

(Specifications continued on page 3)

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ORDERING GUIDE

Example: PA7S-FT-NU-1-12L-010-5K7-24A-BLS-SWP-UNV-EM

CATALOG #

HOUSING

PA7S		Top		Optics		Distribution		Light Engine	
PA7S	Pavilion 7" Ø Square	FT	Flat Top	NU	No Up-light	1	Type I	12L-010-5K7	14W (1000 nominal lm), 5000K, 70 CRI
		PT ¹	Peaked Top	CH	Clear Horizontal Lens	2	Type II	12L-010-4K7	14W (1000 nominal lm), 4000K, 70 CRI
				CL ²	Clear Vertical Lens	3	Type III	12L-010-3K7	14W (1000 nominal lm), 3000K, 70 CRI
				DL ^{2,3}	Diffuse Vertical Lens	3HS	Type III + House side shield	12L-010-AMB	14W, Amber 595 nm Peak
				LV	Louvers	4	Type IV	12L-020-5K7	22W (2000 nominal lm), 5000K, 70 CRI
				GC	Grille with clear vertical lens	5	Type V	12L-020-4K7	22W (2000 nominal lm), 4000K, 70 CRI
				GD ³	Grille with diffuse vertical lens			12L-020-3K7	22W (2000 nominal lm), 3000K, 70 CRI
								12L-020-AMB	22W, Amber 595 nm Peak

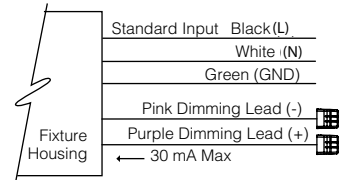
Body		Fixture Finish		Voltage		Options	
24A	24" OAH, Aluminum	BLS	Black Gloss Smooth	UNV	120-277V	EM ⁷	Battery Backup
42A	42" OAH, Aluminum	BLT	Black Matte Textured	120 ⁶	120V	LR ⁸	Luminous Accent
42BR-C	42" OAH, Brown Concrete	DBS	Dark Bronze Gloss Smooth	277 ⁶	208-277V	SF ⁹	Single Fuse
42CH-C	42" OAH, Charcoal Concrete	DBT	Dark Bronze Matte Textured	347 ⁶	347V	DF ⁹	Double Fuse
42NG-C	42" OAH, Natural Gray Concrete	GTT	Graphite Matte Textured	480 ⁶	480V		
42WH-C	42" OAH, White Concrete	LGS	Light Grey Gloss Smooth				
42A-ROP ⁴	42" OAH, Aluminum + Dual Receptacle Outlet Panel and Cover	LGT	Light Grey Matte Textured				
42A-ROP-L ⁴	42" OAH, Aluminum + Dual Receptacle Outlet Panel and Locking Cover	PSS	Platinum Silver Gloss Smooth				
42A-2GEB	42" OAH, Aluminum + Integral Recessed 2 Gang Electrical Box	VGT	Verde Green Matte Textured				
42A-SG3	42" OAH, Aluminum + Speaker Grille Enclosure for 3" Ø speaker	WHS	White Gloss Smooth				
		WHT	White Matte Textured				
		Color Option					
		CC ¹¹	Custom Color				

- 1 Adds .6 / 15mm to OAH (over all height).
- 2 CL and DL configurations shall be IK04
- 3 Only Available with 1 Type I or 5 Type V distributions only.
- 4 For GFCI/USB limited voltage to 120VAC only.
- 5 Specify group and zone at time of order. Each option contains GUI, and Bridge Node.
- 6 Dedicated input voltage, required for MW Motions sensing.
- 7 -20°C min starting temperature, 90+ minute run time, output equivalent to 12L-010-#K7
- 8 Adds +5 watts and 1" / 254mm to overall height.
- 9 SF for 120, 277 and 347 input voltage, DF for 208, 240 and 480 input voltage.
- 10 Wild life friendly
- 11 Consult factory for custom color, marine and corrosive finish options

SPECIFICATIONS CONT'D

CONTROLS

- Standard fixtures dimming range shall be from 10% to 100% and be compatible with 0-10V, user-defined, control devices.



WIRELESS CONTROLS

BLUETOOTH®:

- The Integral module shall enable the adjustment of the Luminous Accent to dim or change color to the desired setting when paired with RGBW Remote App via cellular/tablet device.
- The integral module shall be compatible with Bluetooth Low Energy (BLE) or Bluetooth® Smart mobile devices operating on iOS8 or Android Gingerbread operating systems or newer.
- Mobile App, dimming range from 0% to 100% through the use of RGBW app (available on IOS and Android).
- Color selection and adjustment.
- Camera function for color matching.
- Intensity slider for dimming/ramping up.
- Save and rename up to 10 presets.
- Group and rename fixtures.
- Fixture is password protected, refer to instructions to set unique password

DMX:

- 6 wires: Red (DMX+), Brown (DMX-), Yellow (DMX Ground), Black (Line Voltage), White (common), and Green (Ground)
- Single DMX universe with six slots/addresses of virtual control which are pre-programmed at the factory:
 - DMX slot/address 1 = red
 - DMX slot/address 2 = green
 - DMX slot/address 3 = blue
 - DMX slot/address 4 = white
- Fully DMX RDM compatible.
- Mobile App specification in additional information section

OPTIONAL BACKUP BATTERY

- Integral battery backup provides emergency path of egress lighting for the required 90 minutes for 0°C ambient environments or -20°C with thermal jacket.

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.

CERTIFICATIONS AND LISTINGS

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- IP65 optical system
- IEC 66262 Mechanical Impact Code IK10
- IDA approved, 3000K and warmer CCTs only.
- RoHS compliant
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to <https://www.currentlighting.com/resources/america-solutions>)

WARRANTY

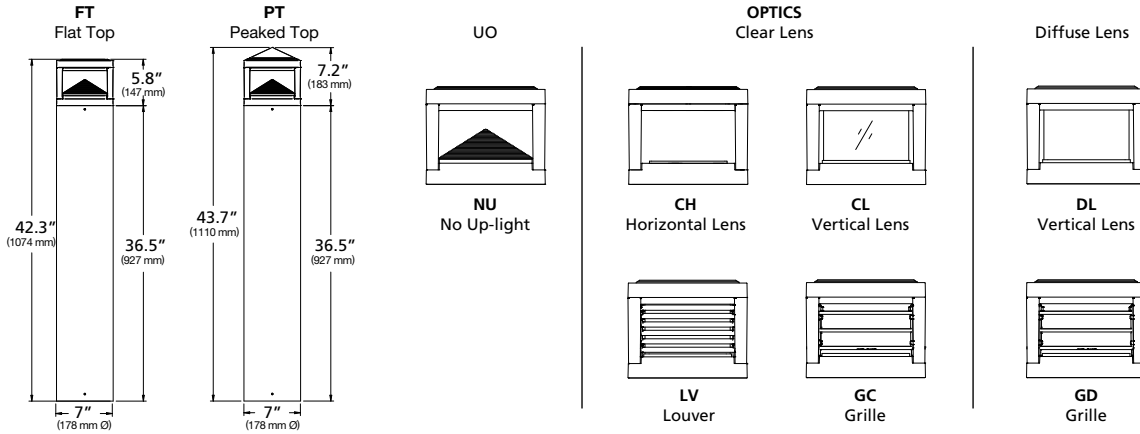
- 5 year warranty



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DIMENSIONS



DELIVERED LUMENS

Drive Current	LEDs #	Nominal Lumens	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				
550mA	12L	2,000	NU UO Optics	1	1019	0	0	0	47	1025	0	0	0	47	1091	0	0	0	50			
				2	1209	0	0	0	56	1216	0	0	0	56	1294	0	0	0	60			
				3	1203	0	0	0	55	1210	0	0	0	56	1289	0	0	0	59			
				3HS	1132	0	0	0	52	1138	0	0	0	52	1212	0	0	0	56			
				4	1330	0	0	0	61	1337	0	0	0	62	1424	0	0	0	66			
			CH Clear Horizontal Lens	5	1273	1	0	0	59	1281	1	0	0	59	1363	1	0	0	63			
				1	1784	0	3	1	82	1794	0	3	1	83	1910	0	3	1	88			
				2	1680	1	3	1	77	1690	1	3	1	78	1799	1	3	1	83			
				3	1723	1	3	1	79	1802	1	3	1	83	1772	1	3	1	82			
				3HS	1375	0	3	1	63	1383	0	3	1	64	1473	0	3	1	68			
				4	1701	0	3	1	78	1710	0	3	1	79	1821	0	3	1	84			
			CL Clear Vertical Lens	5	1635	1	3	1	75	1644	1	3	1	76	1751	1	3	1	81			
				1	1792	0	3	1	82	1802	0	3	1	83	1918	0	3	1	88			
				2	1886	1	3	1	87	1897	1	3	1	87	2020	1	3	1	93			
				3	1902	1	3	1	88	1913	1	3	1	88	2037	1	3	1	94			
				3HS	1582	0	3	1	73	1591	0	3	1	73	1694	0	3	1	78			
			DL Diffused Vertical Lens	4	2019	1	3	1	93	2031	1	3	1	93	2162	1	3	1	100			
				5	1957	1	3	1	90	1968	1	3	1	91	2096	2	3	1	96			
							1	1625	1	3	1	75	1635	1	3	1	75	1740	1	3	1	80
							5	1795	1	3	1	83	1805	1	3	1	83	1922	1	3	1	88

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DELIVERED LUMENS (CONTINUED)

Drive Current	LEDs #	Nominal Lumens	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	
550mA	12L	2,000	LV External Louvers	1	1093	1	3	1	50	1100	1	3	1	51	1171	1	3	1	54
				2	1127	1	3	1	52	1133	1	3	1	52	1206	1	3	1	56
				3	1161	1	3	1	53	1168	1	3	1	54	1243	1	3	1	57
				3HS	927	0	3	1	43	932	0	3	1	43	992	0	3	1	46
				4	1243	1	3	1	57	1250	1	3	1	58	1331	1	3	1	61
				5	1235	1	3	1	57	1242	1	3	1	57	1323	1	3	1	61
			"GC Grill with Clear Lens"	1	1236	0	3	1	57	1243	0	3	1	57	1324	0	3	1	61
				2	1269	1	3	1	58	1276	1	3	1	59	1358	1	3	1	63
				3	1269	1	3	1	58	1276	1	3	1	59	1359	1	3	1	63
				3HS	1034	0	3	1	48	1040	0	3	1	48	1107	0	3	1	51
				4	1394	0	3	1	64	1402	0	3	1	65	1493	1	3	1	69
				5	1316	1	3	1	61	1323	1	3	1	61	1409	1	3	1	65
			GD Grill with Diffused Lens	1	1215	0	3	1	56	1222	0	3	1	56	1301	1	3	1	60
				5	1329	1	3	1	61	1336	1	3	1	62	1423	1	3	1	66

DELIVERED LUMENS (CONTINUED)

Drive Current	LEDs #	Nominal Lumens	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	
350mA	12L	1,000	NU U0 Optics	1	673	0	0	0	48	677	0	0	0	48	721	0	0	0	51
				2	798	0	0	0	57	803	0	0	0	57	855	0	0	0	61
				3	795	0	0	0	57	800	0	0	0	57	851	0	0	0	61
				3HS	748	0	0	0	53	752	0	0	0	54	800	0	0	0	57
				4	879	0	0	0	63	883	0	0	0	63	941	0	0	0	67
				5	841	1	0	0	60	846	1	0	0	60	901	1	0	0	64
			CH Clear Horizontal Lens	1	1129	0	3	1	81	1135	0	3	1	81	1209	0	3	1	86
				2	1063	0	3	1	76	1069	0	3	1	76	1138	0	3	1	81
				3	1047	0	3	1	75	1053	0	3	1	75	1121	0	3	1	80
				3HS	870	0	3	1	62	875	0	3	1	63	932	0	3	1	67
				4	1076	0	3	1	77	1082	0	3	1	77	1152	0	3	1	82
				5	1035	1	3	1	74	1040	1	3	1	74	1108	1	3	1	79
			CL Clear Vertical Lens	1	1243	0	3	1	89	1250	0	3	1	89	1331	0	3	1	95
				2	1309	0	3	1	93	1316	0	3	1	94	1401	1	3	1	100
				3	1320	0	3	1	94	1328	0	3	1	95	1414	1	3	1	101
				3HS	1097	0	3	1	78	1104	0	3	1	79	1175	0	3	1	84
				4	1402	0	3	1	100	1409	0	3	1	101	1501	0	3	1	107
				5	1358	1	3	1	97	1366	1	3	1	98	1454	1	3	1	104
			DL Diffused Vertical Lens	1	1109	0	3	1	79	1115	0	3	1	80	1187	0	3	1	85
				5	1218	1	3	1	87	1225	1	3	1	88	1305	1	3	1	93
			LV External Louvers	1	812	0	3	1	58	817	0	3	1	58	869	0	3	1	62
				2	837	1	3	1	60	841	1	3	1	60	896	1	3	1	64
				3	862	0	3	1	62	867	0	3	1	62	923	0	3	1	66
				3HS	688	0	3	1	49	692	0	3	1	49	737	0	3	1	53
				4	923	0	3	1	66	928	0	3	1	66	988	0	3	1	71
				5	917	1	3	1	66	922	1	3	1	66	982	1	3	1	70
			GC Grill with Clear Lens	1	938	0	3	1	67	943	0	3	1	67	1004	0	3	1	72
				2	962	0	3	1	69	968	0	3	1	69	1031	0	3	1	74
				3	963	0	3	1	69	968	0	3	1	69	1031	0	3	1	74
				3HS	784	0	3	1	56	789	0	3	1	56	840	0	3	1	60
				4	1058	0	3	1	76	1064	0	3	1	76	1133	0	3	1	81
				5	998	1	3	1	71	1004	1	3	1	72	1069	1	3	1	76
			GD Grill with Diffused Lens	1	804	0	3	1	57	809	0	3	1	58	861	0	3	1	62
				5	897	1	3	1	64	902	1	3	1	64	960	1	3	1	69

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PHOTOMETRY

PA7S-CH1-12L-020-4K7

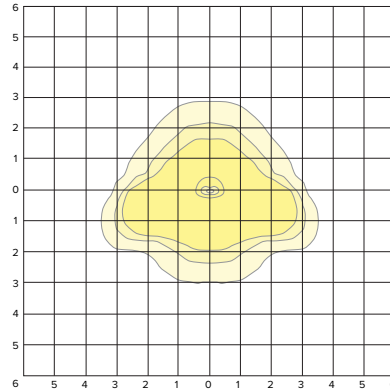
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1794
Watts	21.84
Efficacy	82.0
IES Type	I
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1021	80.3%
Downward House Side	251	19.7%
Downward Total	1272	71%
Upward Street Side	318	61%
Upward House Side	204	39%
Upward Total	522	29%
Total Flux	1794	100%

ISOFOOT CANDLE PLOT



PA7S-CH2-12L-020-4K7

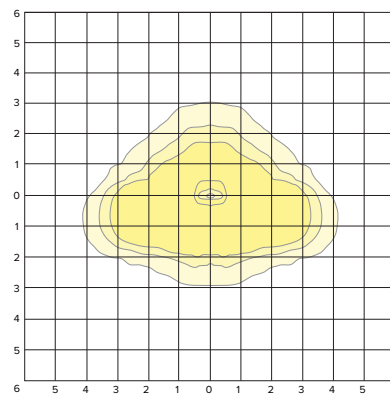
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1690
Watts	21.79
Efficacy	78.0
IES Type	II
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1046	77.8%
Downward House Side	299	22.2%
Downward Total	1345	79%
Upward Street Side	201	58%
Upward House Side	146	42%
Upward Total	347	21%
Total Flux	1692	100%

ISOFOOT CANDLE PLOT



PA7S-CH3-12L-020-4K7

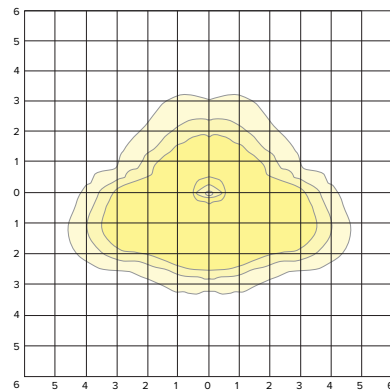
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1802
Watts	21.97
Efficacy	82.0
IES Type	II
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1165	79.2%
Downward House Side	306	20.8%
Downward Total	1471	82%
Upward Street Side	190	57%
Upward House Side	142	43%
Upward Total	332	18%
Total Flux	1803	100%

ISOFOOT CANDLE PLOT



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PHOTOMETRY(CONTINUED)

PA7S-CH3HS-12L-020-4K7

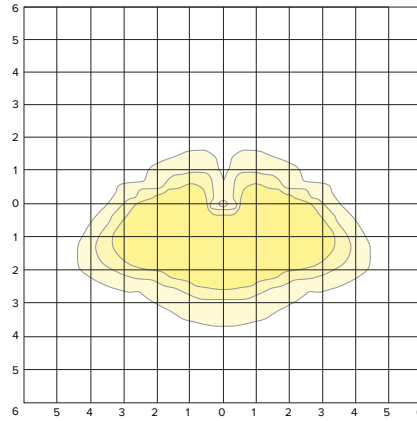
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1383
Watts	21.78
Efficacy	63.0
IES Type	II
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	992	90.0%
Downward House Side	110	10.0%
Downward Total	1102	80%
Upward Street Side	216	77%
Upward House Side	66	23%
Upward Total	281	20%
Total Flux	1383	100%

ISOFOOT CANDLE PLOT



PA7S-CH4-12L-020-4K7

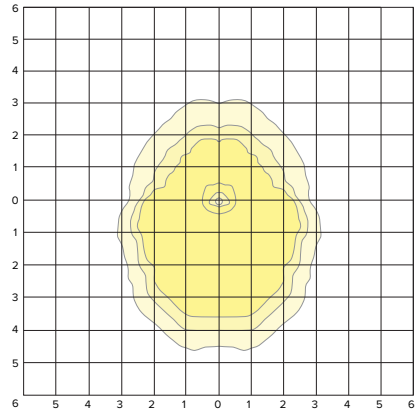
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1711
Watts	21.6
Efficacy	79.0
IES Type	IV
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1180	83.7%
Downward House Side	231	16.4%
Downward Total	1410	82%
Upward Street Side	171	57%
Upward House Side	130	43%
Upward Total	301	18%
Total Flux	1711	100%

ISOFOOT CANDLE PLOT



PA7S-CH5-12L-020-4K7

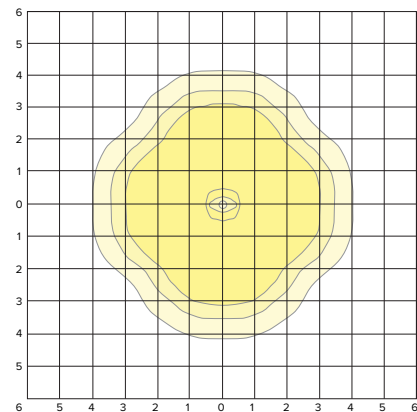
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1644
Watts	21.57
Efficacy	76.0
IES Type	VS
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	686	50.0%
Downward House Side	686	50.0%
Downward Total	1372	83%
Upward Street Side	136	50%
Upward House Side	136	50%
Upward Total	272	17%
Total Flux	1644	100%

ISOFOOT CANDLE PLOT



PA7S

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PHOTOMETRY(CONTINUED)

PA7S-CL1-12L-020-4K7

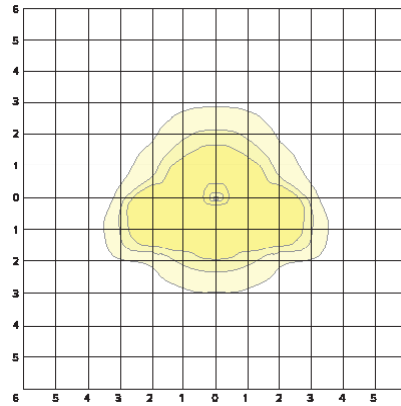
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Delivered Lumens	1802
Watts	21.72
Efficacy	83.0
IES Type	I
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1026	79.1%
Downward House Side	271	20.9%
Downward Total	1297	72%
Upward Street Side	305	60%
Upward House Side	202	40%
Upward Total	507	28%
Total Flux	1804	100%

ISOFOOT CANDLE PLOT



PA7S-CL2-12L-020-4K7

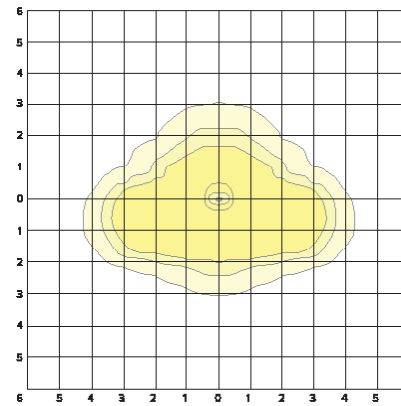
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1897
Watts	21.54
Efficacy	88.0
IES Type	II
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1183	78.1%
Downward House Side	332	21.9%
Downward Total	1515	80%
Upward Street Side	224	58%
Upward House Side	159	42%
Upward Total	383	20%
Total Flux	1898	100%

ISOFOOT CANDLE PLOT



PA7S-CL3-12L-020-4K7

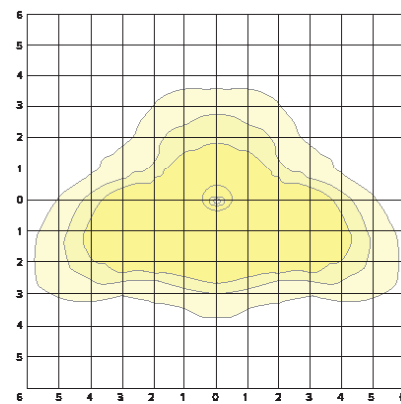
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1913
Watts	21.55
Efficacy	89.0
IES Type	III
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1254	79.6%
Downward House Side	322	20.4%
Downward Total	1576	82%
Upward Street Side	196	58%
Upward House Side	142	42%
Upward Total	338	18%
Total Flux	1914	100%

ISOFOOT CANDLE PLOT



PA7S

BOLLARD

PHOTOMETRY(CONTINUED)

PA7S-CL3HS-12L-020-4K7

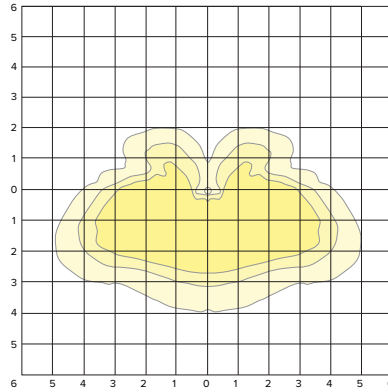
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1591
Watts	21.71
Efficacy	73.0
IES Type	III
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1141	89.0%
Downward House Side	141	11.0%
Downward Total	1282	81%
Upward Street Side	235	76%
Upward House Side	74	24%
Upward Total	310	19%
Total Flux	1592	100%

ISOFOOT CANDLE PLOT



PA7S-CL4-12L-020-4K7

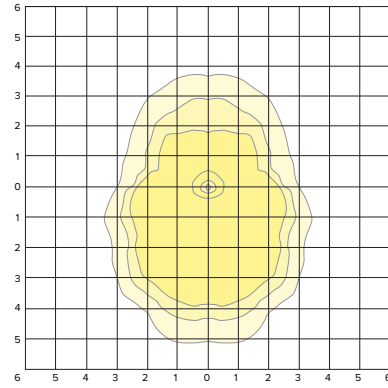
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	2031
Watts	21.72
Efficacy	94.0
IES Type	IV
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1432	84.4%
Downward House Side	265	15.6%
Downward Total	1697	84%
Upward Street Side	189	56%
Upward House Side	146	44%
Upward Total	335	16%
Total Flux	2032	100%

ISOFOOT CANDLE PLOT



PA7S-CL5-12L-020-4K7

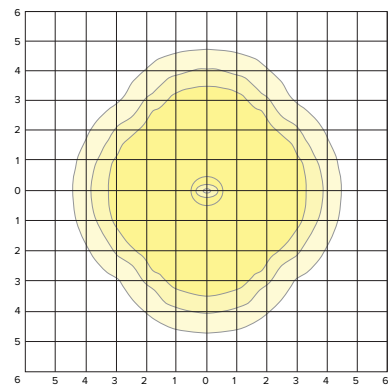
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1968
Watts	21.72
Efficacy	91.0
IES Type	VS
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	834	50.0%
Downward House Side	834	50.0%
Downward Total	1667	85%
Upward Street Side	151	50%
Upward House Side	151	50%
Upward Total	302	15%
Total Flux	1969	100%

ISOFOOT CANDLE PLOT



PA7S

BOLLARD

PHOTOMETRY(CONTINUED)

PA7S-DL1-12L-020-4K7

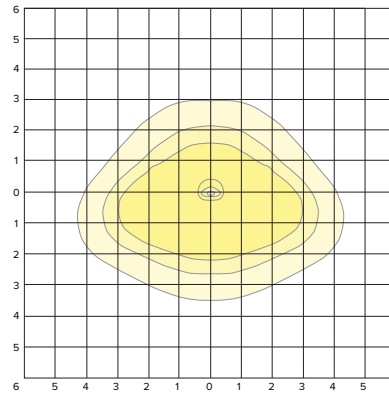
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1636
Watts	21.62
Efficacy	76.0
IES Type	II
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	802	71.9%
Downward House Side	314	28.1%
Downward Total	1116	68%
Upward Street Side	306	59%
Upward House Side	215	41%
Upward Total	521	32%
Total Flux	1637	100%

ISOFOOT CANDLE PLOT



PA7S-DL5-12L-020-4K7

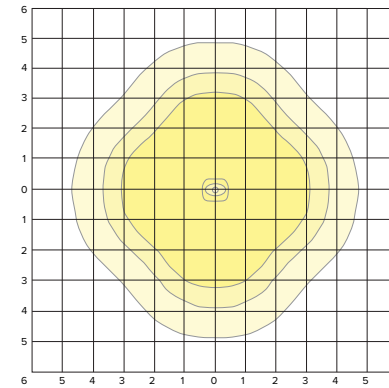
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1805
Watts	21.73
Efficacy	83.0
IES Type	VS
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	725	50.0%
Downward House Side	725	50.0%
Downward Total	1449	80%
Upward Street Side	178	50%
Upward House Side	178	50%
Upward Total	356	20%
Total Flux	1805	100%

ISOFOOT CANDLE PLOT



PA7S-GC1-12L-020-4K7

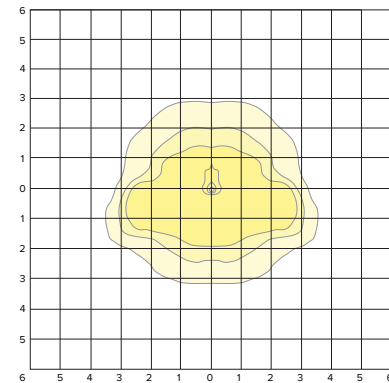
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1242
Watts	21.84
Efficacy	57.0
IES Type	I
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	582	71.9%
Downward House Side	227	28.1%
Downward Total	809	65%
Upward Street Side	262	60%
Upward House Side	173	40%
Upward Total	435	35%
Total Flux	1244	100%

ISOFOOT CANDLE PLOT



PA7S

BOLLARD

PHOTOMETRY(CONTINUED)

PA7S-GC2-12L-020-4K7

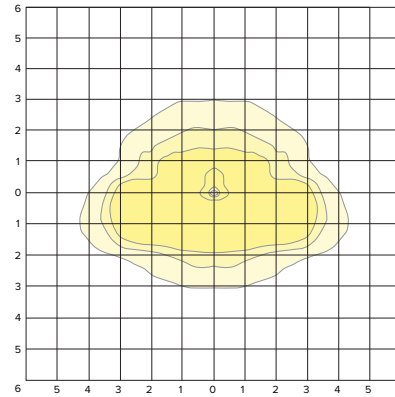
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1276
Watts	21.82
Efficacy	58.0
IES Type	II
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	676	72.4%
Downward House Side	258	27.6%
Downward Total	934	73%
Upward Street Side	205	60%
Upward House Side	138	40%
Upward Total	343	27%
Total Flux	1277	100%

ISOFOOT CANDLE PLOT



PA7S-GC3-12L-020-4K7

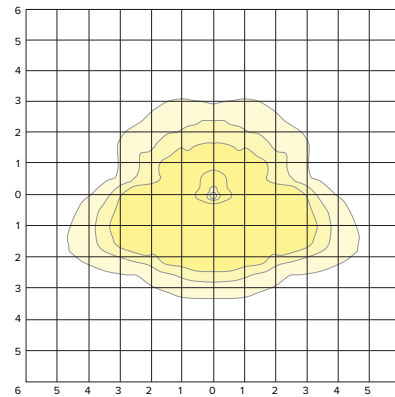
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1276
Watts	21.68
Efficacy	59.0
IES Type	II
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	705	74.1%
Downward House Side	246	25.9%
Downward Total	951	74%
Upward Street Side	200	61%
Upward House Side	127	39%
Upward Total	327	26%
Total Flux	1278	100%

ISOFOOT CANDLE PLOT



PA7S-GC3HS-12L-020-4K7

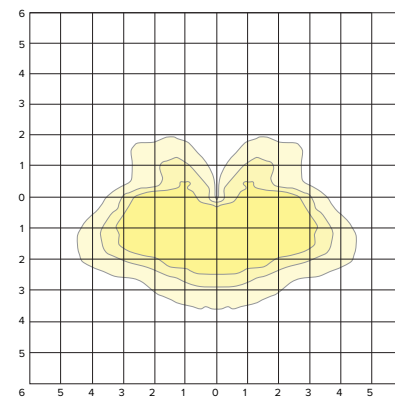
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1040
Watts	21.68
Efficacy	48.0
IES Type	III
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	657	85.5%
Downward House Side	112	14.6%
Downward Total	768	74%
Upward Street Side	218	80%
Upward House Side	54	20%
Upward Total	272	26%
Total Flux	1040	100%

ISOFOOT CANDLE PLOT



PA7S

BOLLARD

PHOTOMETRY(CONTINUED)

PA7S-GC4-12L-020-4K7

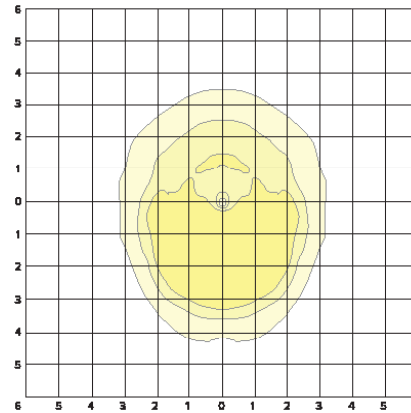
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1402
Watts	21.82
Efficacy	64.0
IES Type	IV
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	829	78.6%
Downward House Side	226	21.4%
Downward Total	1055	75%
Upward Street Side	219	63%
Upward House Side	130	37%
Upward Total	348	25%
Total Flux	1403	100%

ISOFOOT CANDLE PLOT



PA7S-GC5-12L-020-4K7

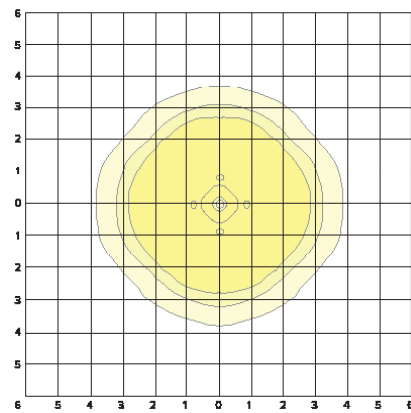
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1324
Watts	21.71
Efficacy	61.0
IES Type	VS
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	505	50.0%
Downward House Side	505	50.0%
Downward Total	1010	76%
Upward Street Side	157	50%
Upward House Side	157	50%
Upward Total	314	24%
Total Flux	1324	100%

ISOFOOT CANDLE PLOT



PA7S-GD1-12L-020-4K7

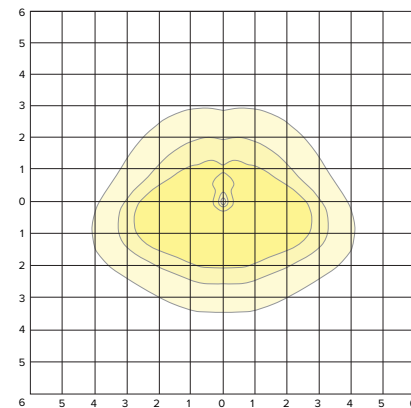
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1222
Watts	21.72
Efficacy	56.0
IES Type	II
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	504	67.7%
Downward House Side	242	32.5%
Downward Total	745	61%
Upward Street Side	276	58%
Upward House Side	202	42%
Upward Total	477	39%
Total Flux	1222	100%

ISOFOOT CANDLE PLOT



PA7S

BOLLARD

PHOTOMETRY(CONTINUED)

PA7S-GD5-12L-020-4K7

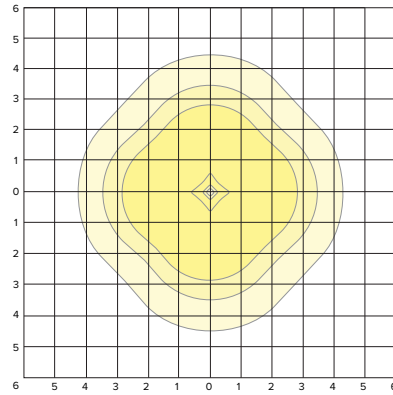
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1336
Watts	21.71
Efficacy	52.0
IES Type	VS
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	471	50.0%
Downward House Side	471	50.0%
Downward Total	942	70%
Upward Street Side	198	50%
Upward House Side	198	50%
Upward Total	395	30%
Total Flux	1337	100%

ISOFOOT CANDLE PLOT



PA7S-LV1-12L-020-4K7

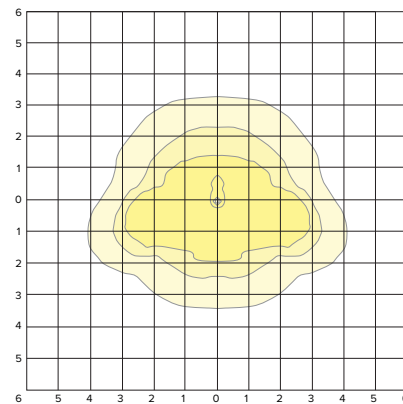
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1100
Watts	21.63
Efficacy	51.0
IES Type	II
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	493	66.0%
Downward House Side	254	34.0%
Downward Total	747	68%
Upward Street Side	222	63%
Upward House Side	132	37%
Upward Total	353	32%
Total Flux	1100	100%

ISOFOOT CANDLE PLOT



PA7S-LV2-12L-020-4K7

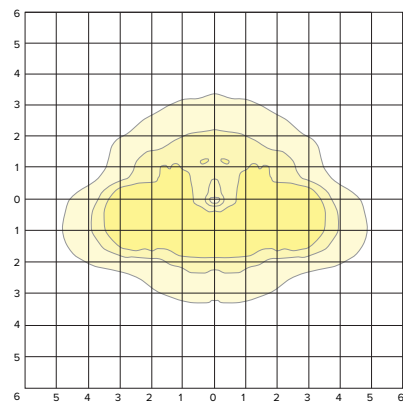
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1133
Watts	21.64
Efficacy	52.0
IES Type	II
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	620	69.9%
Downward House Side	267	30.1%
Downward Total	887	78%
Upward Street Side	161	65%
Upward House Side	86	35%
Upward Total	247	22%
Total Flux	1134	100%

ISOFOOT CANDLE PLOT



PA7S

BOLLARD

PHOTOMETRY(CONTINUED)

PA7S-LV3-12L-020-4K7

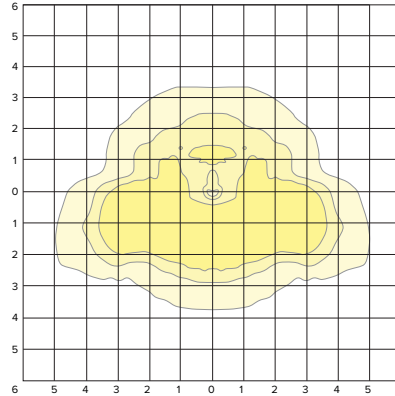
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1168
Watts	21.65
Efficacy	54.0
IES Type	III
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	678	72.9%
Downward House Side	252	271%
Downward Total	930	80%
Upward Street Side	161	67%
Upward House Side	78	33%
Upward Total	239	20%
Total Flux	1169	100%

ISOFOOT CANDLE PLOT



PA7S-LV3HS-12L-020-4K7

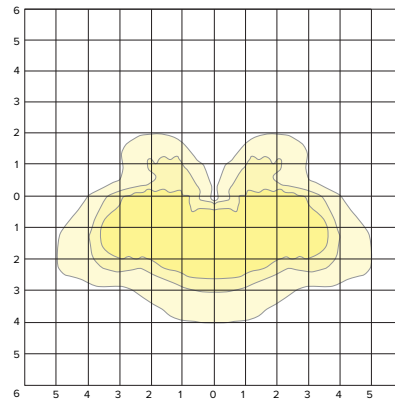
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	933
Watts	21.66
Efficacy	43.0
IES Type	III
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	619	84.6%
Downward House Side	114	15.6%
Downward Total	732	78%
Upward Street Side	161	80%
Upward House Side	40	20%
Upward Total	201	22%
Total Flux	933	100%

ISOFOOT CANDLE PLOT



PA7S-LV4-12L-020-4K7

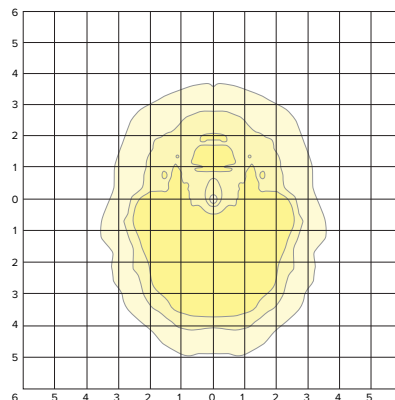
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1250
Watts	21.64
Efficacy	58.0
IES Type	IV
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	779	77.7%
Downward House Side	223	22.2%
Downward Total	1003	80%
Upward Street Side	171	69%
Upward House Side	77	31%
Upward Total	248	20%
Total Flux	1251	100%

ISOFOOT CANDLE PLOT



PA7S

BOLLARD

PHOTOMETRY(CONTINUED)

PA7S-LV5-12L-020-4K7

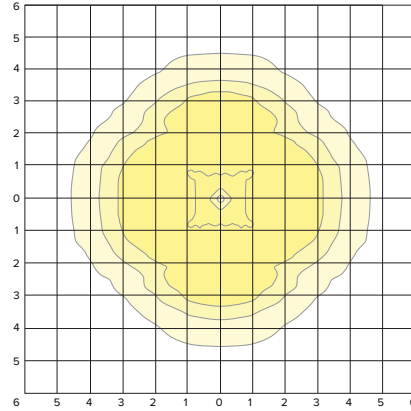
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1242
Watts	21.63
Efficacy	57.0
IES Type	VS
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	511	50.0%
Downward House Side	511	50.0%
Downward Total	1023	82%
Upward Street Side	110	50%
Upward House Side	110	50%
Upward Total	219	18%
Total Flux	1242	100%

ISOFOOT CANDLE PLOT



PA7S-NU1-12L-020-4K7

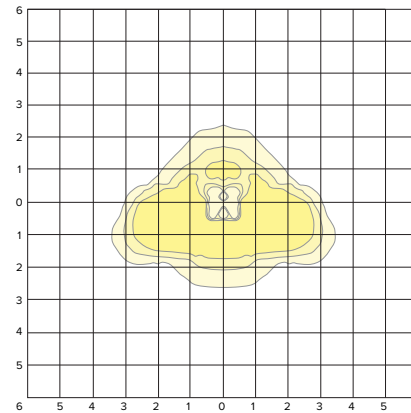
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1025
Watts	21.86
Efficacy	47.0
IES Type	I
BUG Rating	B0-U0-G0
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	881	85.9%
Downward House Side	145	14.1%
Downward Total	1026	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1026	100%

ISOFOOT CANDLE PLOT



PA7S-NU2-12L-020-4K7

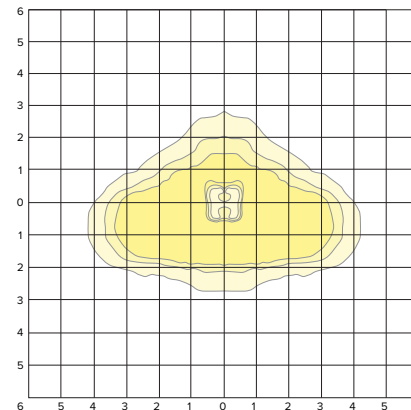
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1216
Watts	21.86
Efficacy	56.0
IES Type	II
BUG Rating	B0-U0-G0
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	988	81.2%
Downward House Side	229	18.8%
Downward Total	1217	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1217	100%

ISOFOOT CANDLE PLOT



PA7S

BOLLARD

PHOTOMETRY(CONTINUED)

PA7S-NU3-12L-020-4K7

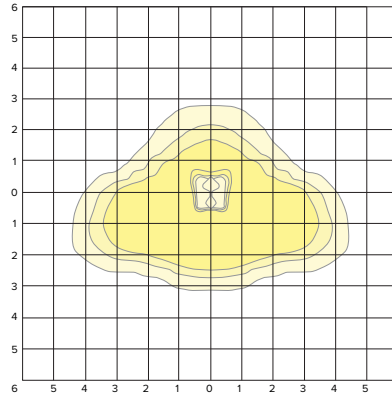
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1210
Watts	21.86
Efficacy	55.0
IES Type	II
BUG Rating	B0-U0-G0
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1004	83.0%
Downward House Side	207	17.1%
Downward Total	1210	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1210	100%

ISOFOOT CANDLE PLOT



PA7S-NU3HS-12L-020-4K7

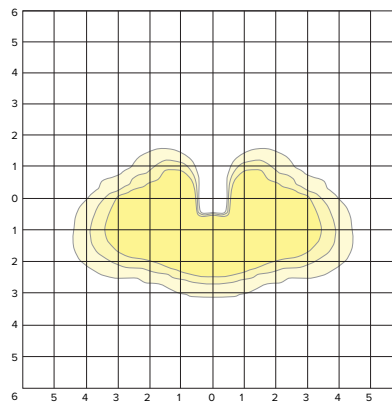
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1138
Watts	21.85
Efficacy	52.0
IES Type	II
BUG Rating	B0-U0-G0
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	997	87.6%
Downward House Side	141	12.4%
Downward Total	1138	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1138	100%

ISOFOOT CANDLE PLOT



PA7S-NU4-12L-020-4K7

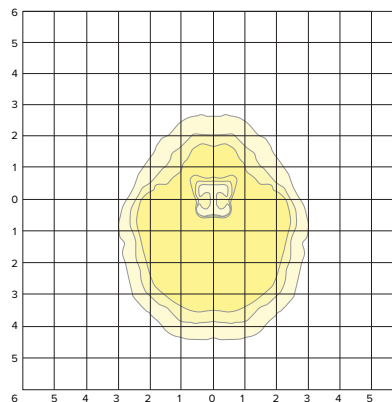
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1337
Watts	21.85
Efficacy	61.0
IES Type	IV
BUG Rating	B0-U0-G0
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1187	88.7%
Downward House Side	151	11.3%
Downward Total	1338	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1338	100%

ISOFOOT CANDLE PLOT



PA7S

BOLLARD

PHOTOMETRY(CONTINUED)

PA7S-NU5-12L-020-4K7

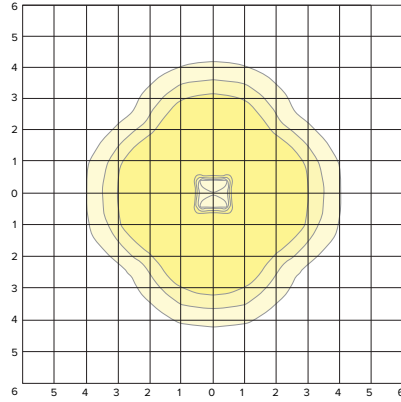
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1281
Watts	21.84
Efficacy	59.0
IES Type	VS
BUG Rating	B1-U0-G0
Mounting Height	3.5 ft
Grid Scale	3.5 ft

ZONAL LUMEN SUMMARY

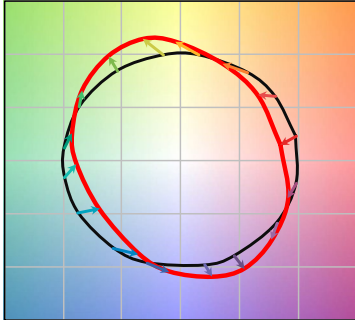
Zone	Lumens	% Luminaire
Downward Street Side	641	50.0%
Downward House Side	641	50.0%
Downward Total	1282	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1282	100%

ISOFOOT CANDLE PLOT



TM-30 DATA

COLOR VECTOR GRAPHIC

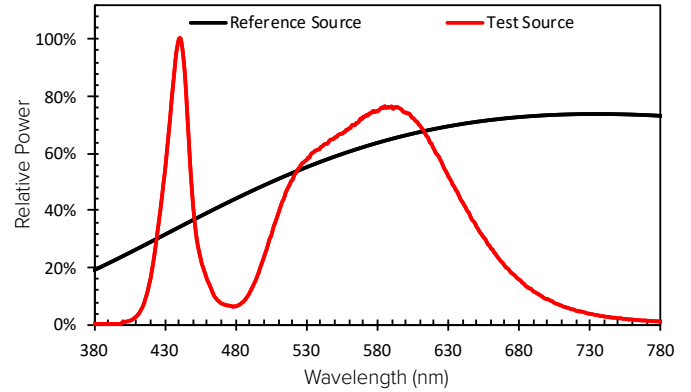


— Reference Illuminant — Test Source

TEST SOURCE

R _f	68
R _g	99
CCT(K)	3947
D _{uv}	0.0004
x	0.3831
y	0.3793
CIE R _a	72

SPECTRAL POWER DISTRIBUTION COMPARISON



ELECTRICAL DATA

# LED	Drive Current	System Watts	Line Voltage		Amps AC						Min. Power Factor	Max THD (%)	Dimming				
			VAC	Hz	120	208	240	277	347	480			Dimming Range	Source current out of 0-10V		Absolute voltage range on 0-10V (+)	
														Min	Max	Min	Max
12	550mA	22	120-480	50/60	0.18	0.11	0.09	0.08	0.06	0.05	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	350mA	14			0.12	0.07	0.06	0.05	0.04	0.03							

TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C)

Ambient Temp.	0	25,000	36,000	50,000	100,000	Reported L70
25°C / 77°F	100%	98%	97%	95%	90%	60khrs
40°C / 104°F	100%	98%	97%	95%	90%	

Strike Lumen Multiplier

CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	0.255		

PA7S
BOLLARD

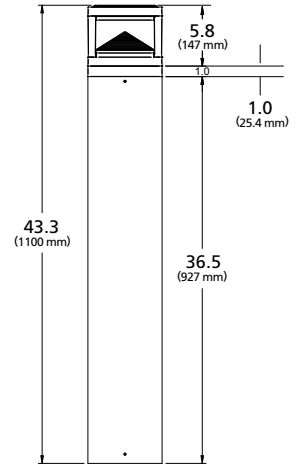
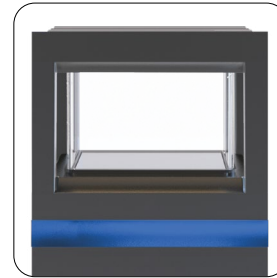
ADDITIONAL INFORMATION

LUMINOUS ACCENT:

- The Luminous Accent option adds an additional 1" / 25.4mm to the overall fixture height and may be controlled via wired DMX RDM or Bluetooth® wireless. The Luminous Accent shall be IK08.

RGBW REMOTE APP

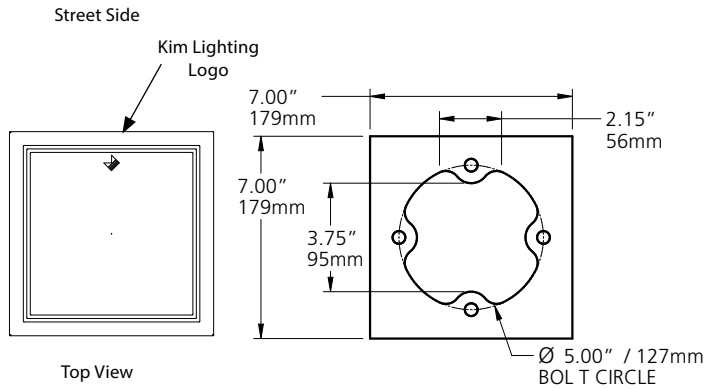
- The RGBW Remote application may be downloaded free of charge from the Apple App Store or Google Play.
- Color selection and adjustment.
- Camera function for color matching.
- Intensity slider for dimming/ramping up.
- Save and rename up to 10 presets.
- Group and rename fixtures.
- Fixture is password protected, refer to instructions to set unique password.



MOUNTING

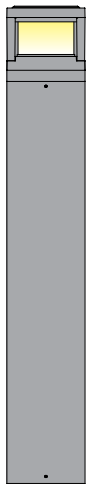
ALUMINUM BODY

- Once attached to base mounting plate, fixture may be rotated 20° in either direction and secured with set screws at base of the bollard body. KIM Lighting logo indicates 'street side' output.

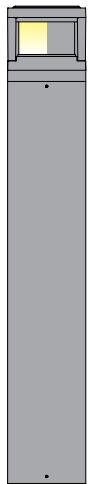


SHIELDING

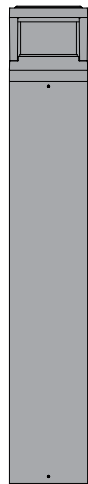
- HS configurations feature factory installed 180° shield(s) that may also be installed in the field for any Optic configuration.



HS Front View



HS Side View



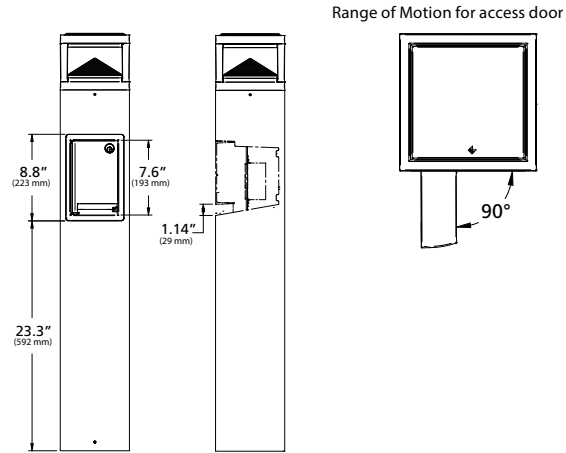
HS xBack View

PA7S
BOLLARD

ADDITIONAL INFORMATION (CONTINUED)

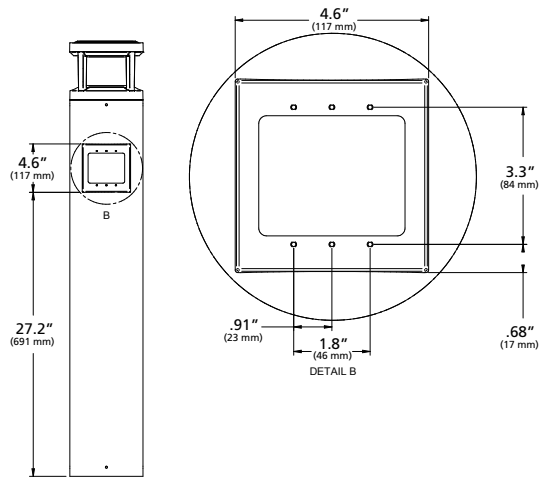
RECEPTACLE OUTLET PANEL

- The Receptacle outlet panel shall be NEMA 3R rated for wet location(s) while in use and shall be compatible with any single receptacle outlet device with standard mounting holes. Door shall be self-closing. Tamper resistant lock must be specified at time of order. Devices and device wiring by others.



INTEGRAL ELECTRICAL BOX

- The integral 2 Gang electrical box shall be #4 deep and have standard mounting holes for installing either a single receptacle outlet device or a pair of single receptacle outlet device. Devices, device wiring, device hardware and bezel by others.



SPEAKER GRILLE ENCLOSURE

- The speaker grille enclosure shall accommodate a 3"Ø marine grade speaker rated for outdoor use. Grille shall be secured with (4) Torx #6-32 screws for accessibility. Mounting provisions as shown. Speaker, mounting hardware and wiring by others.

