

DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

RA17A2

ARCHITECTURAL AREA/SITE

FEATURES

- TIR Optics
- Available in 580nm, 3000K, 4000K and 5000K standard CCT
- Type 1, 2, 3, 4W, 5Q, 5W distributions
- 0 - 10V dimming drivers standard



3000K and warmer CCTs only

SPECIFICATIONS

CONSTRUCTION

- One piece die-cast housing, low copper (<0.6% Cu) Aluminum Alloy with integral cooling ribs over the optical chamber and electrical compartment
- Solid barrier wall separates optical and electrical compartments
- Double-thick wall with gussets on the support-arm mounting end
- Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail
- All hardware is stainless steel or electro-zinc plated steel
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat
- One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1" minimum depth around the gasket flange
- Optional clear 1/8" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter
- Optional, fixture supplied with a one-piece flat, clear, UV stabilized polycarbonate, fully gasketed. CAUTION: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance
- One-piece extruded aluminum arm with internal bolt guides and fully radiussed top and bottom
- Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief

CONSTRUCTION (CONTINUED)

- Arm is circular cut for specified round pole
- Optional cast, low copper aluminum horizontal slip-fitter with adaptor plate to secure the luminaire to 2" IPS pipe size arms
- Optional cast aluminum wall mount plate assembly. Attaches to the wall over the junction box. Luminaire attaches to the wall plate

OPTICS

- Optical cartridge system consisting of a die cast heat sink, LED engine, TIR optics, gasket and bezel plate
- Cartridge is easily disassembled to replace components. Optics are held in place without the use of adhesives
- Molded silicone gasket ensures a weather-proof seal around each individual LED
- Features revolutionary individual LED optical control based on high performance TIR optical designs
- Optional BackLight Control for complete control of unwanted backlight
- IP66 Optical assembly
- Type 1, 2, 3, 4W, 5Q, and 5W standard distributions Custom available
- 3000K, 4000K, 5000K standard CCT. Amber and custom available
- Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level
- Anodized aluminum heat sink modules

INSTALLATION

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

ELECTRICAL

Era®



RELATED PRODUCTS

[Ouro](#)

[Pavilion](#)

[PGL8](#)

- Dimming range from 10% to 100% through the use of standard 0-10V interface on the programmable driver
- Modular wiring harness in the service area provides user access to the dimming circuitry
- Optional factory programmed dimming profile
- Surge protection: 10kV surge suppression
- SF for 120, 277, 347 Line volts
DF for 208, 240, 480 Line volts
- Wiring: 14GA wires rated 150°C

CONTROLS

- Button Photocell

CERTIFICATIONS AND LISTINGS

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations
- RoHS compliant
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020. [See Buy American Solutions](#)
- IDA approved, 3000K and warmer CCTs only

WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	2,220–9,453
Wattage Range	42.2–73.3
Efficacy Range (LPW)	52.6–133.4
Reported Life (Hours)	L70/60,000
Weight	37 lbs 16.78 kg
EPS Front View / Side View	0.8 / 0.8

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ORDERING GUIDE

Example: RA17A2-36L-600-3K7-3-UNV-BL-CLR-PC- HA01S

CATALOG #

HOUSING

Housing	Current	CCT/CRI	Distribution	Voltage	Fixture Finish	Lens	
RA17A2 RA17 2.0	36L - 350 4,000lm	AM Amber-595nm Peak ¹	1 Type I	UNV 120-277V	BLS Black Gloss Smooth	Blank No Lens	
	36L - 600 6,600lm	3K7 3000K, 70 CRI	2 Type II	347 347V	BLT Black Matte Textured	CLR Clear Lens	
	36L - 645 7,500lm	4K7 4000K, 70 CRI	5K7 5000K, 70 CRI	3 Type III	480 480V	DBS Dark Bronze Gloss Smooth	PL Polycarbonate Lens
				4W Type IV Wide		DBT Dark Bronze Matte Textured	
				5Q Type V Square Medium		GTT Graphite Matte Textured	
			5W Type V Wide (Round)		LGS Light Grey Gloss Smooth		
					LGT Light Grey Matte Textured		
					PSS Platinum Silver Gloss Smooth		
					VGT Verde Green Matte Textured		
					WHS White Gloss Smooth		
					WHT White Matte Textured		
					Color Option		
					CC ² Custom Color		

Shielding	Fuse Option	Photocell	Pole Mounted Sensors	Arm Type	
BC Back Light Control ³	SF Single Fuse DF Double Fuse	PC Button Photocell	SCH-R Round Pole Mounted Occupancy Sensor up to up to 30'	Pole Arm	
				HA01S ⁴ HA01S-TM1	Wall Mount
	HA02S HA02S-TM1, HA02S-TM2, HA02S-TM3, HA02S-TM4			HA02S-W	Post Top Crook Side Pole Crook
	HA03S ⁴ HA03S-TM1, HA03S-TM2, HA03S-TM3, HA03S-TM4				
	HA11S HA11S-TM1, HA11S-TM2, HA11S-TM3, HA11S-TM4			HA11S-W	Side Pole Swept Cast Arm
	HA12S HA12S-TM1, HA12S-TM2, HA12S-TM3, HA12S-TM4			HA12S-W	Side Pole S-Shaped Up Cast Arm
	HA14S HA14S-TM1, HA14S-TM2, HA14S-TM3, HA14S-TM4		HA14S-W	Side Pole Neo-Classical Arm	
	HA31S HA31S-TM1, HA31S-TM2, HA31S-TM3, HA31S-TM4		HA31S-W	Side Pole Arm w/Top Scroll	
	HA33S HA33S-TM1, HA33S-TM2, HA33S-TM3, HA33S-TM4		HA33S-W	Side Pole Ribbon Arm w/Top Gusset	
	HA35S HA35S-TM1		HA35S-W	Side Pole Ribbon Arm w/Top Brace	
	HA37S HA37S-TM1		HA37S-W	Side Pole Ribbon w/Top Brace, Bottom Scroll	
	HA38S HA38S-TM1		HA38S-W	Side Pole Ribbon w/Top Brace, Bottom Gusset	
					Arm Finial
					HAF02

Notes:
 1 Wild life friendly
 2 Consult factory for custom color, marine and corrosive finish options
 3 Back Light Control not available for Type 5Q and Type 5W
 4 HSAS Pole only

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ARCHITECTURAL AREA/SITE

PRODUCT EXCEPTIONS & DETAILS

- Note: Refer to Kim Lighting's Arms and Poles Specification Guide for EPA information and additional information on arm, tenon and wall mounting.
1W Wall Mount arm is not included and must be ordered separately.

ARM OPTIONS

POST TOP CROOK¹

ARM TENON MOUNT WALL MT

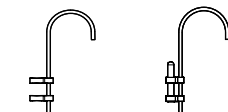


HA01S HA01S-TM1

MOUNTING: 1SA

SIDE POLE CROOK¹

ARM TENON MOUNT WALL MT

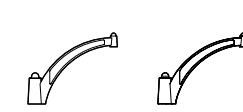


HA02S HA02S-TM1
HA02S-TM2
HA02S-TM3
HA02S-TM4

MOUNTING: 1SA 2SB 3SY 4SC

POST TOP SWEPT CAST ARM¹

ARM TENON MOUNT WALL MT



HA03S HA03S-TM1
HA03S-TM1
HA03S-TM1
HA03S-TM1

MOUNTING: 1SA 2SB 3SY 4SC

SIDE POLE SWEPT CAST ARM

ARM TENON MOUNT WALL MT

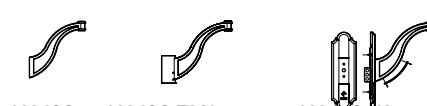


HA11S HA11S-TM1
HA11S-TM2
HA11S-TM3
HA11S-TM4

MOUNTING: 1SA 2SB 3SY 4SC

SIDE POLE S-SHAPED UP CAST ARM

ARM TENON MOUNT WALL MT



HA12S HA12S-TM1
HA12S-TM2
HA12S-TM3
HA12S-TM4

MOUNTING: 1SA 2SB 3SY 4SC

SIDE POLE NEO-CLASSIC ARM¹

ARM TENON MOUNT WALL MT



HA14S HA14S-TM1
HA14S-TM2
HA14S-TM3
HA14S-TM4

MOUNTING: 1SA 2SB 3SY 4SC

SIDE POLE ARM W/TOP SCROLL

ARM TENON MOUNT WALL MT



HA31S HA31S-TM1
HA31S-TM2
HA31S-TM3
HA31S-TM4

MOUNTING: 1SA 2B 3Y 4C

SIDE POLE RIBBON ARM W/TOP GUSSET

ARM TENON MOUNT WALL MT

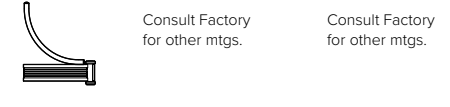


HA33S HA33S-TM1
HA33S-TM2
HA33S-TM3
HA33S-TM4

MOUNTING: 1SA 2SB 3SY 4SC

SIDE POLE RIBBON ARM W/TOP BRACE

ARM TENON MOUNT WALL MT

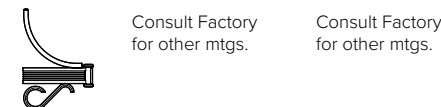


HA35S HA35S-TM1 HA35S-W

MOUNTING: 1SA 2SB 3SY 4SC

SIDE POLE RIBBON ARM W/TOP BRACE & BOTTOM SCROLL

ARM TENON MOUNT WALL MT

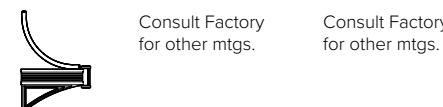


HA37S HA37S-TM1 HA37S-W

MOUNTING: 1SA 2SB 3SY 4SC

SIDE POLE RIBBON ARM W/TOP BRACE & BOTTOM GUSSET

ARM TENON MOUNT WALL MT



HA38S HA38S-TM1 HA38S-W

MOUNTING: 1SA 2SB 3SY 4SC

ARM FINIAL

HAFO2 TRADITIONAL STYLE FINIAL
AVAILABLE TO CLOSE OFF
MOUNTING HUB OPPOSITE
FITTURE.
1Not available on arm where indicated.



DATE:	LOCATION:
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PRODUCT EXCEPTIONS & DETAILS (CONTINUED)**CONTROLS****BUTTON PHOTOCELL**

- Factory installed photocell inside housing with a fully gasketed sensor on the side wall.

POLE MOUNTED**ROUND POLE-MOUNTED OCCUPANCY****SENSOR UP TO 30'****SCH-R**

- Round Pole Mounted Occupancy Sensor up to 30' - Outdoor occupancy sensor with 0-10V interface dimming control mounts directly to the pole. Wide 360° pattern. Module colors available Black, Gray, and White. Module is cut for round pole mounting. Pole diameter needed. Pole to be drilled in the field with provided installation instructions.
- Ordering Example: SCH-R4/277²/BL³

SQUARE POLE-MOUNTED OCCUPANCY**SENSOR UP TO 30'****SCH-S**

- Square Pole Mounted Occupancy Sensor up to 30' - Outdoor occupancy sensor with 0-10V interface dimming control mounts directly to the pole. Wide 360° pattern. Module colors available Black, Gray, and White. Module is cut for square pole mounting.
- Ordering Example: SCH-S/277²/BL³

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.

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. Available upon request.

OPTIONAL 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.

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.

Notes:

- 1 Pole diameter
- 2 Voltage
- 3 Color

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DELIVERED LUMENS

NO LENS

LED #	Nominal Lumen Package	Drive Current	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	
36L	4,000	350	1	5338	1	0	1	126.6	5427	1	0	1	128.7	5625	1	0	1	133.4
			1-BC	2967	0	0	0	70.4	3016	0	0	0	71.5	3126	0	0	0	74.2
			2	5079	1	0	1	120.5	5164	1	0	1	122.5	5353	1	0	1	127.0
			2-BC	2254	0	0	0	53.5	2291	0	0	0	54.3	2375	0	0	0	56.3
			3	5052	1	0	1	119.8	5137	1	0	2	121.8	5324	1	0	2	126.3
			3-BC	2241	0	0	1	53.2	2279	0	0	1	54.0	2362	0	0	1	56.0
			4W	5074	1	0	2	120.4	5159	1	0	2	122.4	5347	1	0	2	126.8
			4W-BC	2220	0	0	1	52.6	2257	0	0	1	53.5	2339	0	0	1	55.5
			5Q	5214	2	0	1	123.7	5301	2	0	1	125.7	5494	2	0	1	130.3
	5W	5024	3	0	1	119.2	5108	3	0	1	121.2	5294	3	0	1	125.6		
	1	8503	1	0	1	122.7	8645	1	0	1	124.8	8961	1	0	1	129.3		
	1-BC	4726	0	0	0	68.2	4805	0	0	0	69.4	4980	0	0	0	71.9		
	2	8091	1	0	2	116.8	8226	1	0	2	118.7	8526	2	0	2	123.1		
	2-BC	3590	0	0	1	51.8	3650	0	0	1	52.7	3783	0	0	1	54.6		
	3	8048	1	0	2	116.2	8182	1	0	2	118.1	8481	1	0	2	122.4		
	3-BC	3570	0	0	1	51.5	3630	0	0	1	52.4	3762	0	0	1	54.3		
	4W	8083	1	0	2	116.7	8218	1	0	2	118.6	8518	1	0	2	122.9		
	4W-BC	3536	0	0	1	51.0	3595	0	0	1	51.9	3726	0	0	1	53.8		
	5Q	8305	3	0	1	119.9	8444	3	0	1	121.9	8752	3	0	1	126.3		
	5W	8003	3	0	2	115.5	8137	3	0	2	117.4	8434	3	0	2	121.7		
	1	8970	1	0	1	122.3	9120	1	0	1	124.3	9453	1	0	1	128.9		
	1-BC	4986	0	0	0	68.0	5069	0	0	1	69.1	5254	0	0	0	72.0		
	2	8536	2	0	2	116.4	8678	2	0	2	118.3	8995	2	0	2	122.0		
	2-BC	3787	0	0	1	51.6	3850	0	0	1	52.5	3991	0	0	1	54.2		
	3	8490	1	0	2	115.6	8632	1	0	2	118.4	8947	1	0	2	121.9		
	3-BC	3766	0	0	1	51.4	3829	0	0	1	52.2	3969	0	0	1	54.0		
	4W	8527	1	0	2	116.3	8670	1	0	2	118.2	8986	1	0	2	122.0		
	4W-BC	3730	0	0	1	50.9	3793	0	0	1	51.7	3931	0	0	1	53.6		
5Q	8761	3	0	1	119.5	8908	3	0	1	121.5	9233	3	0	1	126.5			
5W	8443	3	0	2	115.1	8584	3	0	2	117.0	8897	3	0	2	121.4			

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ARCHITECTURAL AREA/SITE

DELIVERED LUMENS (CONTINUED)

CLR LENS

LED #	Nominal Lumen Package	Drive Current	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	
36L	4,000	350	1	4887	1	0	1	115.9	4968	1	0	1	117.8	5150	1	0	1	122.1
			1-BC	2716	0	0	0	64.4	2761	0	0	0	65.5	2862	0	0	0	67.9
			2	4650	1	0	1	110.3	4728	1	0	1	112.1	4900	1	0	1	116.2
			2-BC	2063	0	0	0	48.9	2098	0	0	0	49.8	2174	0	0	0	51.6
			3	4625	1	0	1	109.7	4703	1	0	1	111.5	4874	1	0	1	115.6
			3-BC	2052	0	0	1	48.7	2086	0	0	1	49.5	2162	0	0	1	51.3
			4W	4645	1	0	2	110.2	4723	1	0	2	112.0	4895	1	0	2	116.1
			4W-BC	2032	0	0	1	48.2	2066	0	0	1	49.0	2142	0	0	1	50.8
			5Q	4773	2	0	1	113.2	4853	2	0	1	115.1	5030	2	0	1	119.3
	5W	4599	3	0	1	109.1	4676	3	0	1	110.9	4847	3	0	1	115.0		
	6,600	600	1	7784	1	0	1	112.4	7915	1	0	1	114.2	8203	1	0	1	118.4
			1-BC	4327	0	0	0	62.5	4399	0	0	0	63.5	4560	0	0	0	65.8
			2	7407	1	0	2	106.9	7531	1	0	2	108.7	7806	1	0	2	112.7
			2-BC	3287	0	0	0	47.4	3342	0	0	0	48.2	3463	0	0	1	50.0
			3	7368	1	0	2	106.3	7491	1	0	2	108.1	7764	1	0	2	112.1
			3-BC	3268	0	0	1	47.2	3323	0	0	1	48.0	3444	0	0	1	49.7
			4W	7400	1	0	2	106.8	7524	1	0	2	108.6	7798	1	0	2	112.6
			4W-BC	3237	0	0	1	46.7	3291	0	0	1	47.5	3411	0	0	1	49.2
			5Q	7603	3	0	1	109.7	7730	3	0	1	111.6	8013	3	0	1	115.7
	5W	7327	3	0	1	105.8	7449	3	0	1	107.5	7721	3	0	2	111.4		
	7,500	645	1	8212	1	0	1	112.0	8350	1	0	1	113.8	8654	1	0	1	118.0
			1-BC	4564	0	0	0	62.2	4641	0	0	0	63.3	4810	0	0	0	65.6
			2	7814	1	0	2	106.5	7945	1	0	2	108.3	8235	1	0	2	112.3
			2-BC	3467	0	0	1	47.3	3525	0	0	1	48.1	3654	0	0	1	49.8
			3	7773	1	0	2	106.0	7903	1	0	2	107.7	8191	1	0	2	111.3
			3-BC	3448	0	0	1	47.0	3506	0	0	1	47.8	3634	0	0	1	49.5
			4W	7806	1	0	2	106.4	7937	1	0	2	108.2	8227	1	0	2	112.2
			4W-BC	3415	0	0	1	46.6	3472	0	0	1	47.3	3599	0	0	1	49.1
5Q			8021	3	0	1	109.4	8155	3	0	1	111.2	8453	3	0	1	115.2	
5W	7729	3	0	2	105.4	7858	3	0	2	107.1	8145	3	0	2	111.1			

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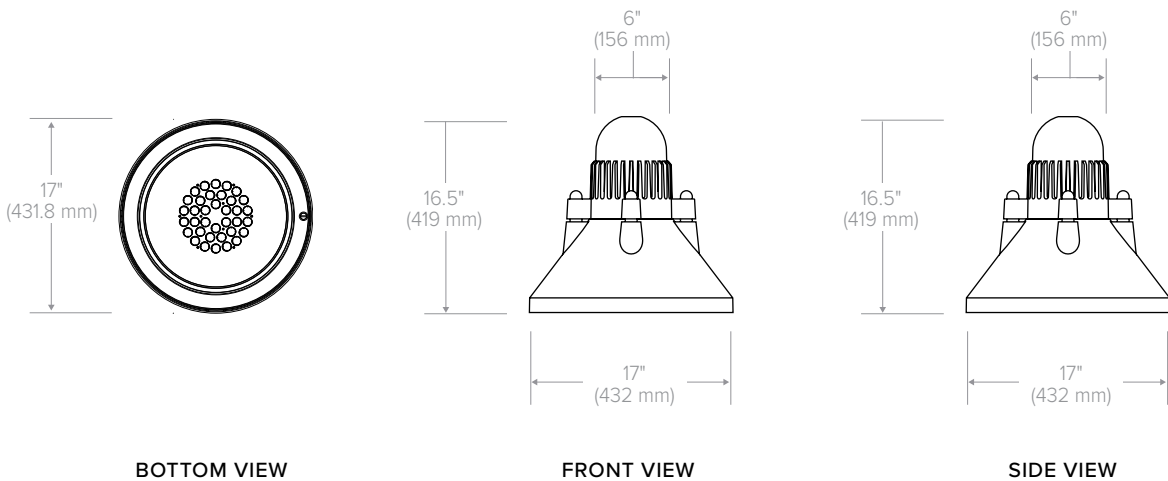
ARCHITECTURAL AREA/SITE

DELIVERED LUMENS (CONTINUED)

PL LENS

LED #	Nominal Lumen Package	Drive Current	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	
36L	4,000	350	1	4643	1	0	1	110.1	4721	1	0	1	112.0	4893	1	0	1	116.1
			1-BC	2581	0	0	0	61.2	2624	0	0	0	62.2	2720	0	0	0	64.5
			2	4418	1	0	1	104.8	4492	1	0	1	106.6	4656	1	0	1	110.4
			2-BC	1960	0	0	0	46.5	1993	0	0	0	47.3	2066	0	0	0	49.0
			3	4395	1	0	1	104.2	4468	1	0	1	106.0	4631	1	0	1	109.9
			3-BC	1950	0	0	1	46.2	1982	0	0	1	47.0	2055	0	0	1	48.7
			4W	4414	1	0	2	104.7	4488	1	0	2	106.4	4652	1	0	2	110.3
			4W-BC	1931	0	0	1	45.8	1963	0	0	1	46.6	2035	0	0	1	48.3
			5Q	4535	2	0	1	107.6	4611	2	0	1	109.4	4779	2	0	1	113.4
	5W	4370	3	0		103.7	4443	3	0	1	105.4	4605	3	0	1	109.2		
	1	7397	1	0	1	106.8	7520	1	0	1	108.6	7795	1	0	1	112.5		
	1-BC	4111	0	0	0	59.3	4180	0	0	0	60.3	4332	0	0	0	62.5		
	2	7038	1	0	1	101.6	7156	1	0	1	103.3	7417	1	0	2	107.1		
	2-BC	3123	0	0	0	45.1	3175	0	0	0	45.8	3291	0	0	0	47.5		
	3	7001	1	0	2	101.1	7118	1	0	2	102.7	7378	1	0	2	106.5		
	3-BC	3106	0	0	1	44.8	3158	0	0	1	45.6	3273	0	0	1	47.2		
	4W	7031	1	0	2	101.5	7149	1	0	2	103.2	7410	1	0	2	107.0		
	4W-BC	3076	0	0	1	44.4	3127	0	0	1	45.1	3241	0	0	1	46.8		
	5Q	7225	2	0	1	104.3	7345	2	0	1	106.0	7613	3	0	1	109.9		
	5W	6962	3	0	1	100.5	7078	3	0	1	102.2	7336	3	0	1	105.9		
	1	7803	1	0	1	106.4	7934	1	0	1	108.2	8223	1	0	1	112.1		
	1-BC	4337	0	0	0	59.1	4410	0	0	0	60.1	4570	0	0	0	62.3		
	2	7425	1	0	2	101.2	7549	1	0	2	102.9	7825	1	0	2	106.7		
	2-BC	3294	0	0	0	44.9	3350	0	0	1	45.7	3472	0	0	1	47.3		
	3	7385	1	0	2	100.7	7509	1	0	2	102.4	7783	1	0	2	106.5		
	3-BC	3276	0	0	1	44.7	3331	0	0	1	45.4	3453	0	0	1	47.1		
	4W	7418	1	0	2	101.1	7542	1	0	2	102.8	7817	1	0	2	106.6		
	4W-BC	3245	0	0	1	44.2	3299	0	0	1	45.0	3420	0	0	1	46.6		
5Q	7622	3	0	1	103.9	7749	3	0	1	105.7	8032	3	0	1	109.5			
5W	7344	3	0	1	100.1	7467	3	0	1	101.8	7740	3	0	2	105.5			

DIMENSIONS



RA17A2

ARCHITECTURAL AREA/SITE

PHOTOMETRY

RA172-36L-645-4K7-1

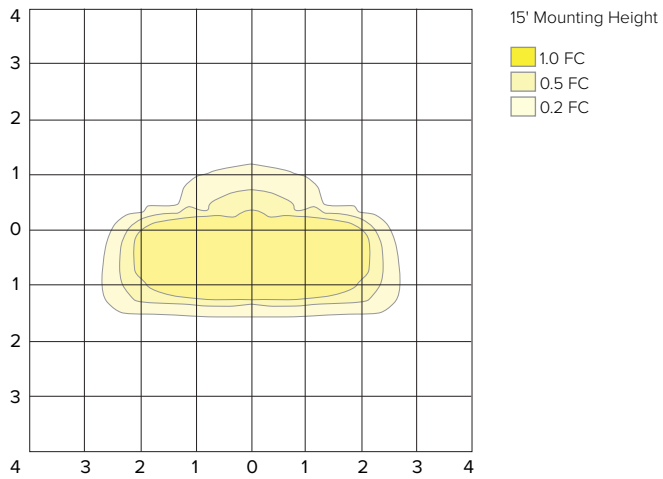
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	9120
Watts	73.4
Efficacy	124.3
IES Type	I
BUG Rating	B1-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	8036	88.1%
Downward House Side	1084	11.9%
Downward Total	9120	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	9120	100%

ISOFOOT CANDLE PLOT



RA172-36L-645-4K7-2

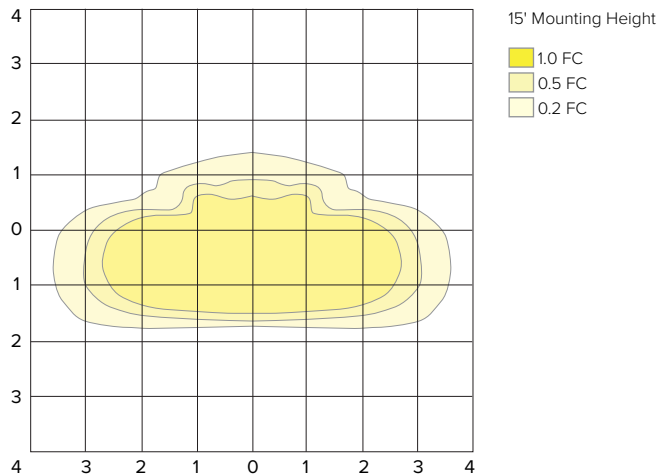
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	8678
Watts	73.4
Efficacy	118.3
IES Type	II
BUG Rating	B2-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7023	80.9%
Downward House Side	1655	19.1%
Downward Total	8678	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8678	100%

ISOFOOT CANDLE PLOT



RA172-36L-645-4K7-3

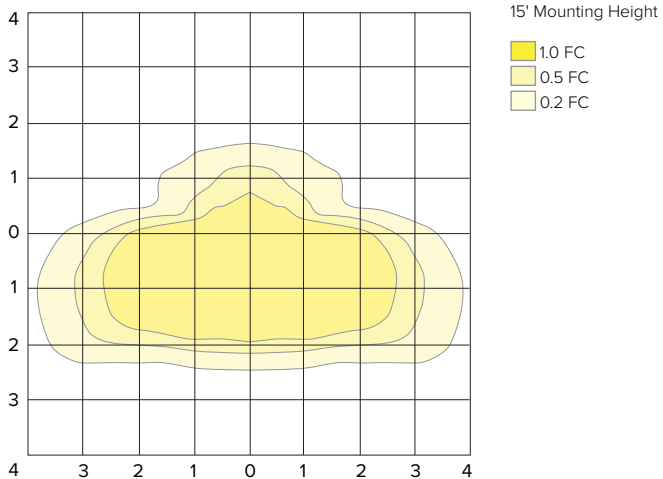
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	8632
Watts	72.9
Efficacy	118.4
IES Type	III
BUG Rating	B1-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7135	82.7%
Downward House Side	1497	17.3%
Downward Total	8632	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8632	100%

ISOFOOT CANDLE PLOT



RA17A2

ARCHITECTURAL AREA/SITE

PHOTOMETRY

RA172-36L-645-4K7-4W

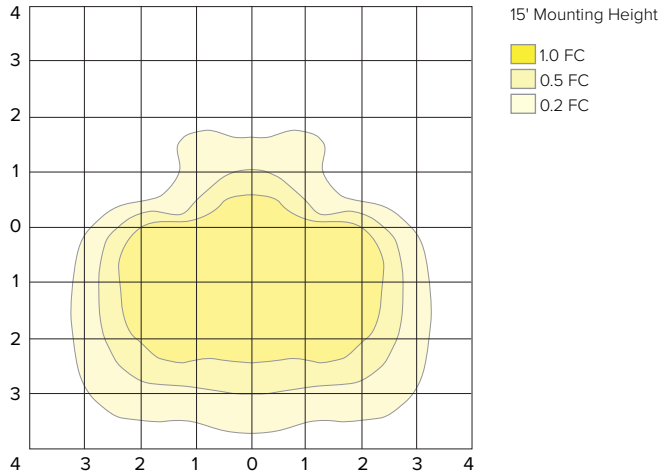
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	8670
Watts	73.4
Efficacy	118.2
IES Type	IV
BUG Rating	B1-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7456	86.0%
Downward House Side	1214	14.0%
Downward Total	8670	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8670	100%

ISOFOOT CANDLE PLOT



RA172-36L-645-4K7-5Q

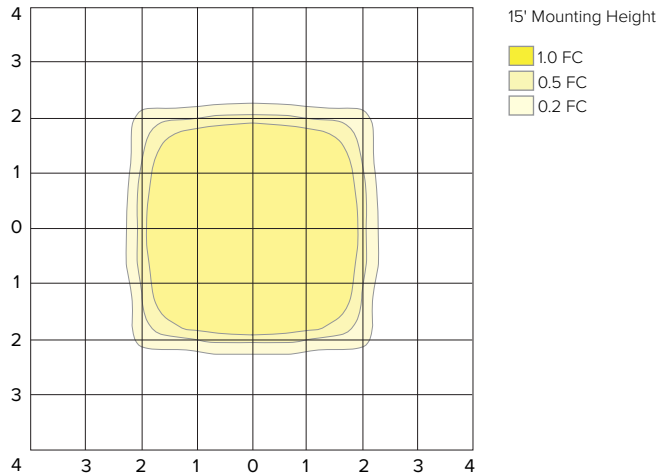
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	8908
Watts	73.4
Efficacy	121.4
IES Type	V
BUG Rating	B3-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4454	50.0%
Downward House Side	4454	50.0%
Downward Total	8908	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8908	100%

ISOFOOT CANDLE PLOT



RA172-36L-645-4K7-5W

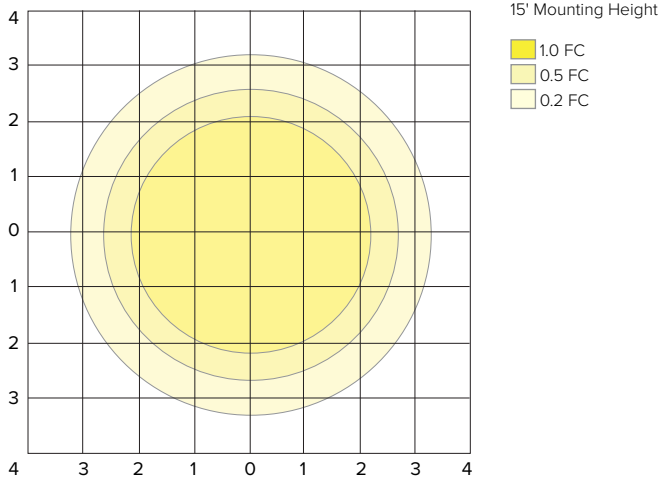
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	8584
Watts	73.35
Efficacy	117.0
IES Type	V
BUG Rating	B3-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4292	50.0%
Downward House Side	4292	50.0%
Downward Total	8584	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8584	100%

ISOFOOT CANDLE PLOT

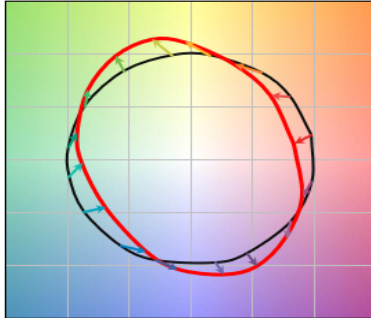


RA17A2

ARCHITECTURAL AREA/SITE

TM-30 DATA

COLOR VECTOR GRAPHIC

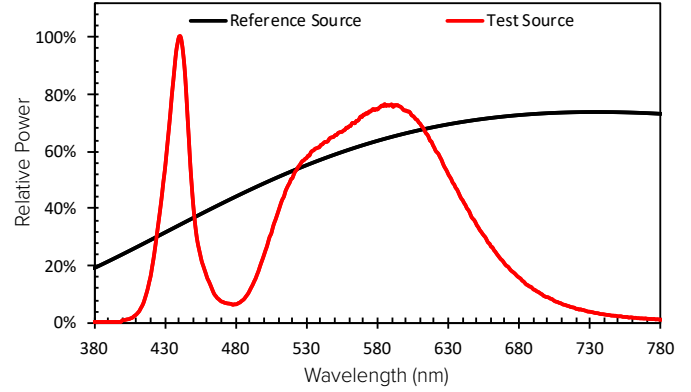


— Reference Illuminant — Test Source

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 #	System Watts	Current	Line Voltage		Amps AC						Min Power Factor	Max. THD (%)	Dimming				
			VAC	Hz	120	208	240	277	347	480			Dimming Range	Source Current Out		Absolute Voltage	
														Min	Max	Min	Max
36L	42.2	350 mA	120-480	50/60	0.35	0.20	0.18	0.15	0.12	0.09	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	69.3	600 mA			0.58	0.33	0.29	0.25	0.20	0.14							
	73.3	645 mA			0.61	0.35	0.31	0.26	0.21	0.15							

TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C)						
Hours	0	25,000	36,000	50,000	100,000	Reported L70
Projected Lumen Maintenance	100%	97.0%	95.5%	93.6%	87.0%	> 60,000

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

Amber	
CCT	Multiplier
5000K	1
AM	0.1727

2700K Multiplier	
CCT	Multiplier
5000K	1
2700K	0.897