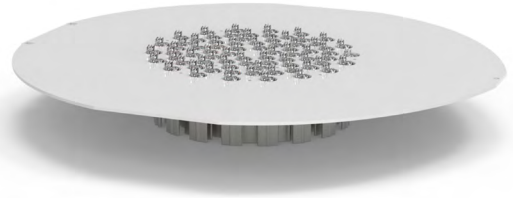


DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

Era®

FEATURES

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



RELATED PRODUCTS

- Ouro Pavilion PGL8

SPECIFICATIONS

CONSTRUCTION

- All hardware is stainless steel or electro-zinc plated steel

OPTICS

- 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
- Type 1, 2, 3, 4W, 5Q, and 5W standard distributions Custom available

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

- 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

ELECTRICAL (CONTINUED)

- SF for 120, 277, 347 Line volts
DF for 208, 240, 480 Line volts
- Wiring: 14GA wires rated 150°C

CERTIFICATIONS AND LISTINGS

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations
- RoHS compliant
- IDA approved, 3000K and warmer CCTs only

WARRANTY

- 5 year warranty

RA25K2
LED UPGRADE KIT

ORDERING GUIDE

RA25K2												
Housing	Current	CCT/CRI		Distribution		Voltage		Fixture Finish		Shielding	Fuse Option	
RA25K2 RA25K2 LED Upgrade Kit	72L - 415	9,000lm	AM	Amber-595nm Peak ¹		1	Type I	UNV 120-277V 347 347V 480 480V	BLS	Black Gloss Smooth	BC Back Light Control ³	SF Single Fuse DF Double Fuse
	72L - 615	12,800lm	3K7	3000K, 70 CRI		2	Type II		BLT	Black Matte Textured		
	72L - 700	15,000lm	4K7	4000K, 70 CRI		3	Type III		DBS	Dark Bronze Gloss Smooth		
			5K7	5000K, 70 CRI		4W	Type IV Wide		DBT	Dark Bronze Matte Textured		
					5QM	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

Notes:
 1 Turtle friendly
 2 Consult factory for custom color, marine and corrosive finish options
 3 Back Light Control not available for Type 5Q and Type 5W

PRODUCT EXCEPTIONS & DETAILS (CONTINUED)

CONTROLS

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. ¹

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 Available upon request

RA25K2
LED UPGRADE KIT

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	
72L	9,000	415	1	13041	1	0	1	137.3	13155	1	0	1	138.5	13364	1	0	1	140.7
			1-BC	7140	0	0	0	75.2	7202	0	0	0	75.8	7317	0	0	0	77.0
			2	12491	2	0	2	131.5	12600	2	0	2	132.6	12800	2	0	2	134.7
			2-BC	5714	0	0	1	60.2	5764	0	0	1	60.7	5856	0	0	1	61.6
			3	12156	2	0	3	128.0	12262	2	0	3	129.1	12457	2	0	3	131.1
			3-BC	5468	0	0	1	57.6	5516	0	0	1	58.1	5604	0	0	1	59.0
			4W	12516	2	0	3	131.7	12625	2	0	3	132.9	12826	2	0	3	135.0
			4W-BC	5361	0	0	1	56.4	5408	0	0	1	56.9	5494	0	0	1	57.8
			5Q	12895	3	0	2	135.7	13007	3	0	2	136.9	13214	3	0	2	139.1
	5W	12324	4	0	2	129.7	12431	4	0	2	130.9	12629	4	0	2	132.9		
	12,800	615	1	18184	2	0	1	129.3	18342	2	0	1	130.4	18634	2	0	1	132.5
			1-BC	9956	0	0	1	70.8	10042	0	0	1	71.4	10202	0	0	1	72.6
			2	17416	2	0	2	123.9	17568	2	0	2	124.9	17848	2	0	2	126.9
			2-BC	7968	0	0	1	56.7	8037	0	0	1	57.2	8165	1	0	1	58.1
			3	16949	2	0	3	120.5	17097	2	0	3	121.6	17369	2	0	3	123.5
			3-BC	7625	0	0	2	54.2	7691	0	0	2	54.7	7813	0	0	2	55.6
			4W	17452	2	0	4	124.1	17604	2	0	4	125.2	17884	2	0	4	127.2
			4W-BC	7475	1	0	2	53.2	7540	1	0	2	53.6	7660	1	0	2	54.5
			5Q	17979	4	0	2	127.9	18136	4	0	2	129.0	18425	4	0	2	131.0
	5W	17183	4	0	2	122.2	17333	4	0	2	123.3	17609	4	0	2	125.2		
	15,000	700	1	19707	2	0	2	123.9	19879	2	0	2	124.9	20195	2	0	2	126.7
			1-BC	10790	0	0	1	67.8	10884	0	0	1	68.4	11057	0	0	1	69.8
			2	18875	3	0	3	118.6	19040	3	0	3	119.7	19343	3	0	3	121.0
			2-BC	8635	1	0	3	54.3	8710	1	0	3	54.7	8849	1	0	3	55.8
			3	18369	2	0	3	115.4	18529	2	0	3	117.1	18824	2	0	3	118.2
			3-BC	8263	1	0	2	51.9	8335	1	0	2	52.4	8468	1	0	2	53.1
			4W	18914	2	0	4	118.9	19078	2	0	4	119.9	19382	2	0	4	121.9
			4W-BC	8101	1	0	2	50.9	8172	1	0	2	51.4	8302	1	0	2	52.6
5Q			19485	4	0	2	122.5	19655	4	0	2	123.5	19968	4	0	2	124.8	
5W	18623	4	0	2	117.0	18785	4	0	2	118.1	19084	4	0	2	119.3			

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

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	
72L	9,000	415	1	11956	1	0	1	125.9	12060	1	0	1	127.0	12252	1	0	1	129.0
			1-BC	6546	0	0	0	68.9	6603	0	0	0	69.5	6708	0	0	0	70.6
			2	11452	2	0	2	120.5	11552	2	0	2	121.6	11736	2	0	2	123.5
			2-BC	5239	0	0	1	55.1	5285	0	0	1	55.6	5369	0	0	1	56.5
			3	11145	2	0	2	117.3	11242	2	0	2	118.3	11421	2	0	2	120.2
			3-BC	5013	0	0	1	52.8	5057	0	0	1	53.2	5138	0	0	1	54.1
			4W	11475	2	0	3	120.8	11575	2	0	3	121.8	11759	2	0	3	123.8
			4W-BC	4915	0	0	1	51.7	4958	0	0	1	52.2	5037	0	0	1	53.0
			5Q	11822	3	0	1	124.4	11925	3	0	1	125.5	12115	3	0	1	127.5
	5W	11299	4	0	2	118.9	11397	4	0	2	120.0	11578	4	0	2	121.9		
	12,800	615	1	16671	2	0	1	118.6	16816	2	0	1	119.6	17084	2	0	1	121.5
			1-BC	9128	0	0	0	64.9	9207	0	0	0	65.5	9354	0	0	0	66.5
			2	15968	2	0	2	113.6	16107	2	0	2	114.5	16363	2	0	2	116.4
			2-BC	7305	0	0	1	51.9	7368	0	0	1	52.4	7486	0	0	1	53.2
			3	15539	2	0	2	110.5	15674	2	0	2	111.5	15924	2	0	2	113.2
			3-BC	6990	0	0	2	49.7	7051	0	0	2	50.1	7163	0	0	2	50.9
			4W	16000	2	0	4	113.8	16139	2	0	4	114.8	16396	2	0	4	116.6
			4W-BC	6853	1	0	2	48.7	6913	1	0	2	49.2	7023	1	0	2	49.9
			5Q	16484	4	0	2	117.2	16627	4	0	2	118.2	16892	4	0	2	120.1
	5W	15754	4	0	2	112.0	15891	4	0	2	113.0	16144	4	0	2	114.8		
	15,000	700	1	18067	2	0	1	113.6	18225	2	0	1	114.5	18515	2	0	1	116.4
			1-BC	9892	0	0	1	62.2	9978	0	0	1	62.7	10137	0	0	1	63.7
			2	17305	2	0	2	108.8	17456	2	0	2	109.7	17734	2	0	2	111.5
			2-BC	7917	0	0	1	49.8	7986	0	0	1	50.2	8113	1	0	1	51.0
			3	16841	2	0	3	105.8	16988	2	0	3	106.8	17258	2	0	3	108.6
			3-BC	7576	0	0	2	47.6	7642	0	0	2	48.0	7764	0	0	2	48.8
			4W	17340	2	0	4	109.0	17491	2	0	4	109.9	17770	2	0	4	111.7
4W-BC			7427	1	0	2	46.7	7492	1	0	2	47.1	7611	1	0	2	47.8	
5Q			17864	4	0	2	112.3	18020	4	0	2	113.3	18307	4	0	2	115.1	
5W	17073	4	0	2	107.3	17222	4	0	2	108.2	17496	4	0	2	110.0			

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	
72L	9,000	415	1	11712	1	0	1	123.3	11814	1	0	1	124.4	12003	1	0	1	126.3
			1-BC	6413	0	0	0	67.5	6469	0	0	0	68.1	6572	0	0	0	69.2
			2	11218	2	0	2	118.1	11316	2	0	2	119.1	11496	2	0	2	121.0
			2-BC	5132	0	0	1	54.0	5177	0	0	1	54.5	5259	0	0	1	55.4
			3	10917	2	0	2	114.9	11012	2	0	2	115.9	11188	2	0	2	117.8
			3-BC	4911	0	0	1	51.7	4954	0	0	1	52.1	5033	0	0	1	53.0
			4W	11241	2	0	3	118.3	11339	2	0	3	119.4	11519	2	0	3	121.3
			4W-BC	4815	0	0	1	50.7	4857	0	0	1	51.1	4934	0	0	1	51.9
			5Q	11581	3	0	1	121.9	11682	3	0	1	123.0	11868	3	0	1	124.9
	5W	11068	4	0	2	116.5	11165	4	0	2	117.5	11342	4	0	2	119.4		
	1	16331	2	0	1	116.1	16473	2	0	1	117.1	16735	2	0	1	119.0		
	1-BC	8941	0	0	0	63.6	9019	0	0	0	64.1	9163	0	0	0	65.2		
	2	15642	2	0	2	111.2	15778	2	0	2	112.2	16029	2	0	2	114.0		
	2-BC	7156	0	0	1	50.9	7218	0	0	1	51.3	7333	0	0	1	52.1		
	3	15222	2	0	2	108.3	15355	2	0	2	109.2	15599	2	0	2	110.9		
	3-BC	6848	0	0	2	48.7	6907	0	0	2	49.1	7017	0	0	2	49.9		
	4W	15673	2	0	4	111.5	15810	2	0	4	112.4	16062	2	0	4	114.2		
	4W-BC	6713	1	0	2	47.7	6772	1	0	2	48.2	6880	1	0	2	48.9		
	5Q	16147	4	0	2	114.8	16288	4	0	2	115.8	16547	4	0	2	117.7		
	5W	15432	4	0	2	109.7	15567	4	0	2	110.7	15815	4	0	2	112.5		
	1	17699	2	0	1	111.2	17853	2	0	1	112.2	18137	2	0	1	114.0		
	1-BC	9690	0	0	0	60.9	9775	0	0	0	61.4	9930	0	0	1	62.4		
	2	16952	2	0	2	106.5	17100	2	0	2	107.5	17372	2	0	2	109.2		
	2-BC	7755	0	0	1	48.7	7823	0	0	1	49.2	7947	0	0	1	49.9		
	3	16497	2	0	2	103.7	16641	2	0	2	104.6	16906	2	0	2	106.4		
	3-BC	7421	0	0	2	46.6	7486	0	0	2	47.0	7605	0	0	2	47.8		
	4W	16986	2	0	4	106.8	17134	2	0	4	107.7	17407	2	0	4	109.4		
	4W-BC	7276	1	0	2	45.7	7339	1	0	2	46.1	7456	1	0	2	46.9		
5Q	17500	4	0	2	110.0	17652	4	0	2	110.9	17933	4	0	2	112.7			
5W	16725	4	0	2	105.1	16871	4	0	2	106.0	17140	4	0	2	107.7			

RA25K2

LED UPGRADE KIT

PHOTOMETRY

RA252-72L-700-4K7-1

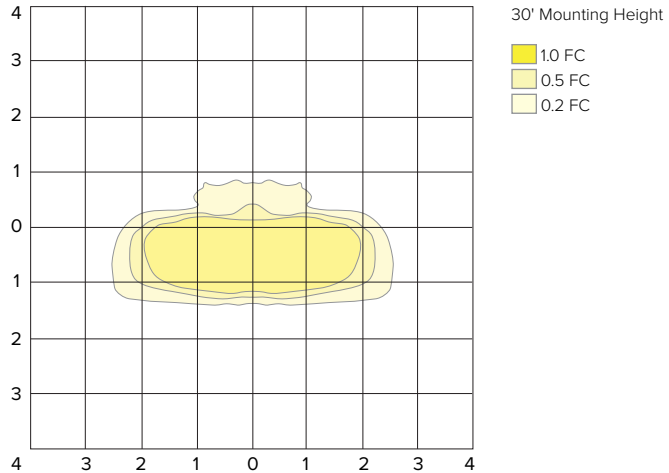
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	19879
Watts	159.1
Efficacy	124.9
IES Type	I
BUG Rating	B2-U0-G2
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	17577	88.4%
Downward House Side	2302	11.6%
Downward Total	19879	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	19879	100%

ISOFOOT CANDLE PLOT



RA252-72L-700-4K7-2

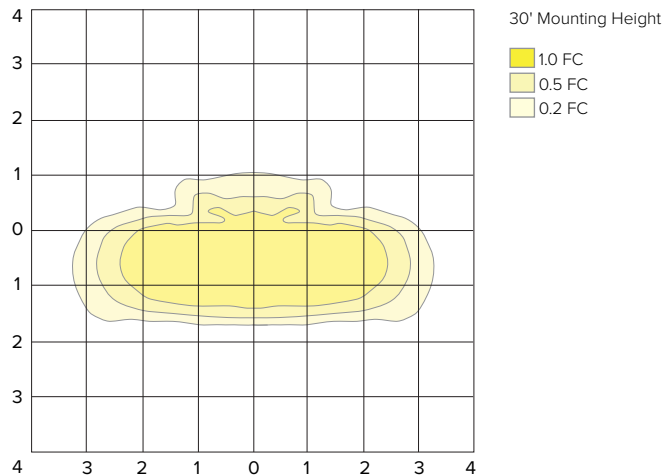
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	19040
Watts	159.1
Efficacy	119.7
IES Type	II
BUG Rating	B3-U0-G3
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	15646	82.2%
Downward House Side	3394	17.8%
Downward Total	19040	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	19040	100%

ISOFOOT CANDLE PLOT



RA252-72L-700-4K7-3

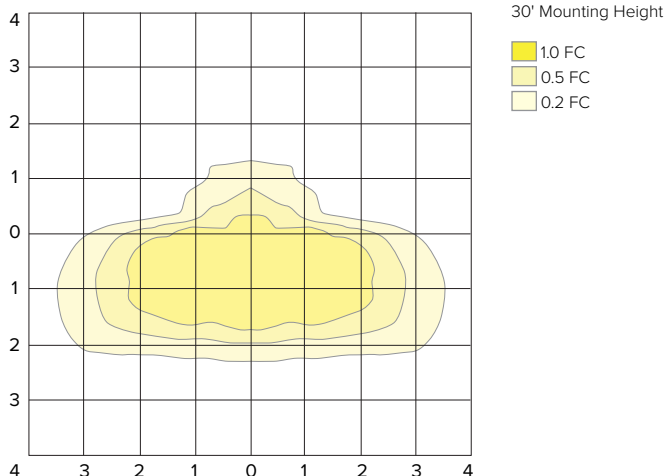
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	18530
Watts	159.1
Efficacy	116.5
IES Type	III
BUG Rating	B2-U0-G3
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	15560	84.0%
Downward House Side	2970	16.0%
Downward Total	18530	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	18530	100%

ISOFOOT CANDLE PLOT



RA25K2
LED UPGRADE KIT

PHOTOMETRY

RA252-72L-700-4K7-4W

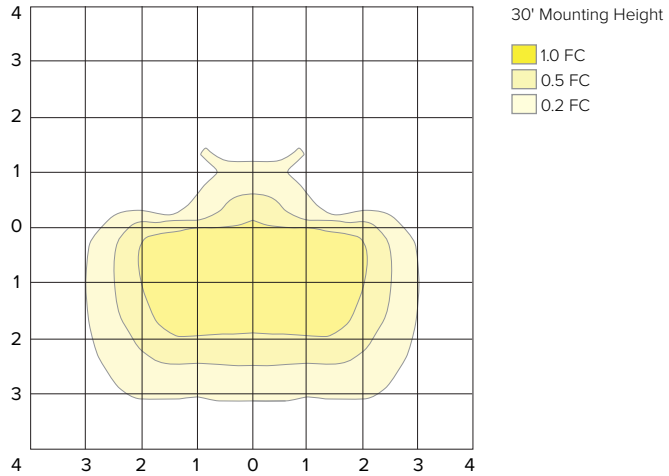
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	19079
Watts	159.1
Efficacy	119.9
IES Type	IV
BUG Rating	B2-U0-G4
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	16649	87.3%
Downward House Side	2430	12.7%
Downward Total	19079	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	19079	100%

ISOFOOT CANDLE PLOT



RA252-72L-700-4K7-5Q

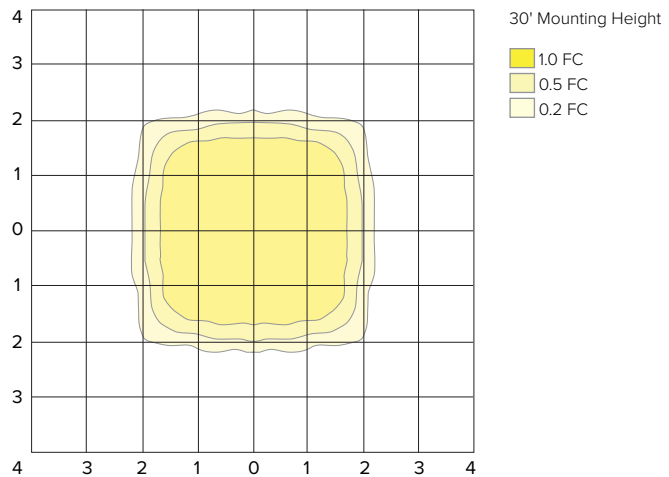
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	19655
Watts	159.1
Efficacy	123.5
IES Type	V
BUG Rating	B4-U0-G2
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	9828	50.0%
Downward House Side	9828	50.0%
Downward Total	19655	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	19655	100%

ISOFOOT CANDLE PLOT



RA252-72L-700-4K7-5W

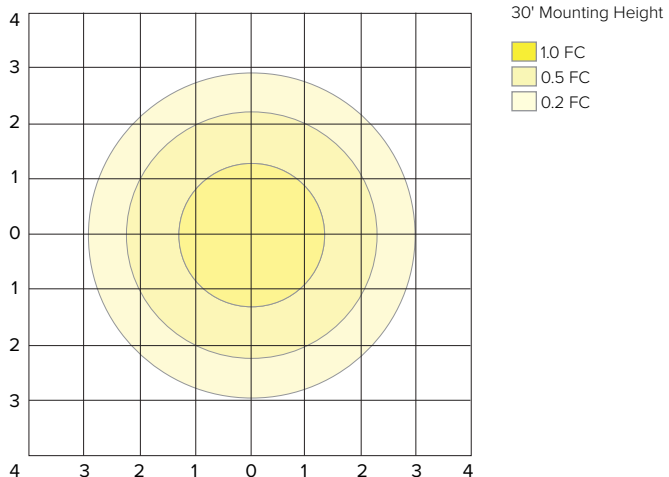
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	18785
Watts	159.1
Efficacy	118.1
IES Type	V
BUG Rating	B3-U0-G2
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	9393	50.0%
Downward House Side	9393	50.0%
Downward Total	18785	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	18785	100%

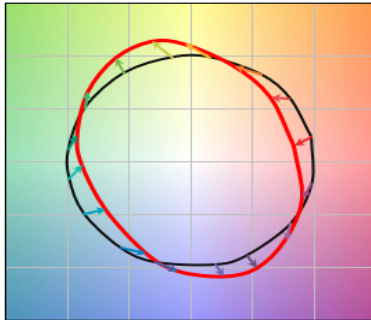
ISOFOOT CANDLE PLOT



RA25K2
LED UPGRADE KIT

TM-30 DATA

COLOR VECTOR GRAPHIC

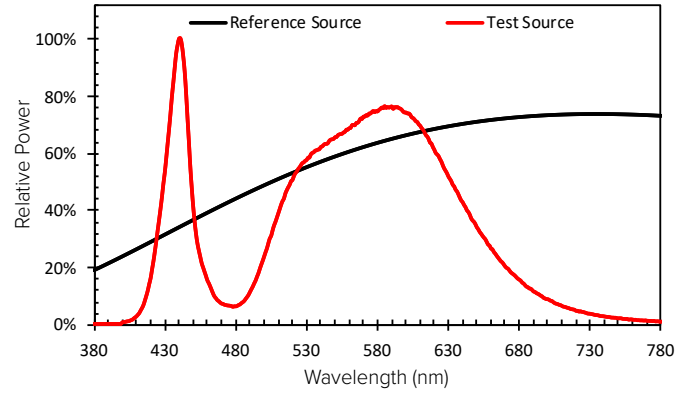


— Reference Illuminant — Test Source

TEST SOURCE

R _f	68
R _a	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
72L	95.0	415 mA	120-480	50/60	0.79	0.46	0.40	0.34	0.27	0.20	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	140.6	615 mA			1.17	0.68	0.59	0.51	0.41	0.29							
	159.1	700 mA			1.33	0.76	0.66	0.57	0.46	0.33							

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%	93.5%	91.7%	89.4%	81.9%	> 60,000