

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_  
 CATALOG #: \_\_\_\_\_

# Curvilinear

## FEATURES

- TIR Optics
- Available in 595nm, 3000K, 4000K and 5000K standard CCT
- Type 1, 2, 3, 4, 4W, 5QM, 5QN, 5R, 5W distributions
- 0 - 10V dimming drivers standard
- IP66 optic assembly



## 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, 4, 4W, 5QM, 5QN, 5R, 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

**HOUSING**

Housing	Current	CCT/CRI	Distribution	Fixture Finish	Voltage	Options
<b>CC21K2</b> For CC21 Fixture	<b>72L - 330</b> 9,000lm	<b>AM</b> Amber-595nm Peak <sup>1</sup>	<b>FR</b> Type I/Front Row	<b>BLS</b> Black Gloss Smooth	<b>UNV</b> 120-277V	<b>SF</b> Single Fuse
	<b>72L - 465</b> 12,000lm	<b>3K7</b> 3000K, 70 CRI	<b>2</b> Type II	<b>BLT</b> Black Matte Textured	<b>347</b> 347V	<b>DF</b> Double Fuse
	<b>72L - 570</b> 15,000lm	<b>4K7</b> 4000K, 70 CRI	<b>3</b> Type III	<b>DBS</b> Dark Bronze Gloss Smooth	<b>480</b> 480V	<b>BC</b> Back Light Control <sup>3</sup>
	<b>72L - 700</b> 18,000lm	<b>5K7</b> 5000K, 70 CRI	<b>4</b> Type IV	<b>DBT</b> Dark Bronze Matte Textured		
	<b>72L - 900</b> 22,000lm <sup>1</sup>		<b>4W</b> Type IV Wide <b>5QM</b> Type V Square Medium <b>5QN</b> Type V Square Narrow <b>5R</b> Type V Rectangular <b>5W</b> Type V Wide (Round)	<b>GTT</b> Graphite Matte Textured <b>LGS</b> Light Grey Gloss Smooth <b>LGT</b> Light Grey Matte Textured <b>PSS</b> Platinum Silver Gloss Smooth <b>VGT</b> Verde Green Matte Textured <b>WHS</b> White Gloss Smooth <b>WHT</b> White Matte Textured		
				<b>Color Option</b>		
				<b>CC</b> <sup>2</sup> Custom Color		

Notes:  
 1 Turtle friendly  
 2 Consult factory for custom color, marine and corrosive finish options  
 3 Not available for Type 5

**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. Please contact factory for feasibility. <sup>1</sup>

**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

**CC21K2**  
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	330	FR	9670	1	0	1	130.5	9872	1	0	1	133.2	10310	1	0	1	139.1
			FR-BC	6048	0	0	0	81.6	6174	0	0	0	83.3	6448	0	0	0	87.0
			2	9152	1	0	2	123.5	9343	1	0	2	126.1	9757	2	0	2	131.6
			2-BC	5217	0	0	1	70.4	5326	0	0	1	71.9	5562	0	0	1	75.0
			3	8827	1	0	2	119.1	9011	1	0	2	121.6	9411	1	0	2	127.0
			3-BC	5081	0	0	2	68.5	5187	0	0	2	70.0	5417	0	0	2	73.1
			4	8787	1	0	2	118.6	8971	1	0	2	121.0	9369	1	0	2	126.4
			4-BC	6065	0	0	2	81.8	6192	0	0	2	83.5	6467	0	0	2	87.2
			4W	9218	1	0	2	124.4	9411	1	0	2	127.0	9828	1	0	3	132.6
			4W-BC	5268	0	0	2	71.1	5378	0	0	2	72.6	5617	0	0	2	75.8
			5R	9161	3	0	3	123.6	9352	3	0	3	126.2	9767	3	0	3	131.8
			5QM	9147	3	0	1	123.4	9338	3	0	1	126.0	9753	3	0	1	131.6
	5QN	9639	3	0	0	130.1	9841	3	0	0	132.8	10277	3	0	0	138.7		
	5W	8146	3	0	2	109.9	8316	3	0	2	112.2	8685	3	0	2	117.2		
	12,000	465	FR	13285	1	0	1	125.3	13563	1	0	1	128.0	14164	2	0	1	133.6
			FR-BC	8308	0	0	1	78.4	8482	0	0	1	80.0	8858	0	0	1	83.6
			2	12573	2	0	2	118.6	12835	2	0	2	121.1	13405	2	0	2	126.5
			2-BC	7167	0	0	1	67.6	7317	0	0	1	69.0	7642	0	0	1	72.1
			3	12126	2	0	2	114.4	12380	2	0	2	116.8	12929	2	0	2	122.0
			3-BC	6980	0	0	2	65.9	7126	0	0	2	67.2	7442	0	0	2	70.2
			4	12072	1	0	2	113.9	12325	1	0	2	116.3	12871	1	0	3	121.4
			4-BC	8333	0	0	2	78.6	8507	0	0	2	80.3	8884	0	0	2	83.8
			4W	12664	2	0	3	119.5	12929	2	0	3	122.0	13502	2	0	3	127.4
			4W-BC	7238	1	0	2	68.3	7389	1	0	2	69.7	7717	1	0	2	72.8
			5R	12585	3	0	3	118.7	12848	3	0	3	121.2	13418	4	0	4	126.6
			5QM	12566	3	0	1	118.6	12829	3	0	1	121.0	13398	3	0	1	126.4
	5QN	13243	3	0	0	124.9	13520	4	0	0	127.6	14119	4	0	1	133.2		
	5W	11191	4	0	2	105.6	11425	4	0	2	107.8	11932	4	0	2	112.6		
	15,000	570	FR	15708	2	0	1	121.5	16036	2	0	0	124.1	16748	2	0	1	129.6
			FR-BC	9824	0	0	1	76.0	10029	0	0	1	77.6	10474	0	0	1	81.0
			2	14866	2	0	2	115.0	15176	2	0	2	117.4	15850	2	0	2	122.6
			2-BC	8474	0	0	1	65.6	8652	0	0	2	66.9	9035	0	0	2	69.9
			3	14338	2	0	3	110.9	14638	2	0	3	113.2	15287	2	0	3	118.3
			3-BC	8253	1	0	2	63.8	8426	1	0	2	65.2	8799	1	0	2	68.1
			4	14274	1	0	3	110.4	14572	1	0	3	112.7	15219	1	0	3	117.7
			4-BC	9852	0	0	2	76.2	10058	0	0	2	77.8	10505	1	0	2	81.3
4W			14974	2	0	4	115.8	15287	2	0	4	118.3	15965	2	0	4	123.5	
4W-BC			8558	1	0	2	66.2	8737	1	0	2	67.6	9124	1	0	2	70.6	
5R			14880	4	0	4	115.1	15191	4	0	4	117.5	15865	4	0	4	122.7	
5QM			14858	3	0	2	114.9	15169	4	0	2	117.3	15842	4	0	2	122.5	
5QN	15658	4	0	1	121.1	15985	4	0	1	123.7	16694	4	0	1	129.1			
5W	13232	4	0	2	102.4	13509	4	0	2	104.5	14108	4	0	2	109.1			

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

**DELIVERED LUMENS (CONTINUED)**

**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	18,000	700	FR	18363	2	0	2	115.8	18747	2	0	2	118.2	19579	2	0	2	123.5
			FR-BC	11484	0	0	1	72.4	11724	1	0	1	73.9	12245	1	0	1	77.2
			2	17378	2	0	2	109.6	17742	2	0	2	111.9	18529	2	0	2	116.9
			2-BC	9907	1	0	2	62.5	10114	1	0	2	63.8	10563	1	0	2	66.6
			3	16761	2	0	3	105.7	17112	2	0	3	107.9	17871	2	0	3	112.7
			3-BC	9648	1	0	2	60.8	9850	1	0	2	62.1	10287	1	0	2	64.9
			4	16687	2	0	3	105.2	17035	2	0	3	107.4	17791	2	0	3	112.2
			4-BC	11518	1	0	2	72.6	11759	1	0	2	74.2	12280	1	0	3	77.4
			4W	17505	4	0	4	110.4	17871	2	0	4	112.7	18663	2	0	4	117.7
			4W-BC	10004	1	0	2	63.1	10213	1	0	2	64.4	10666	1	0	2	67.3
			5R	17395	4	0	4	109.7	17759	4	0	4	112.0	18547	4	0	4	117.0
			5QM	17370	4	0	2	109.5	17733	4	0	2	111.8	18520	4	0	2	116.8
	5QN	18305	4	0	1	115.4	18687	4	0	1	117.9	19516	4	0	1	123.1		
	5W	15469	4	0	2	97.6	15792	4	0	2	99.6	16493	4	0	2	104.0		
	22,000	900	FR	22108	2	0	2	106.1	22571	2	0	2	108.3	23572	2	0	2	113.1
			FR-BC	13827	1	0	1	66.4	14116	1	0	1	67.8	14742	1	0	1	70.9
			2	20923	3	0	3	100.4	21360	3	0	3	102.5	22308	3	0	3	106.8
			2-BC	11927	1	0	2	57.3	12177	1	0	2	58.5	12717	1	0	2	61.1
			3	20180	2	0	4	96.9	20602	2	0	4	99.6	21516	3	0	4	103.3
			3-BC	11616	1	0	2	55.8	11859	1	0	2	56.9	12385	1	0	2	59.3
			4	20090	2	0	4	96.4	20510	2	0	4	98.5	21420	2	0	4	102.8
			4-BC	13867	1	0	3	66.6	14157	1	0	3	68.0	14785	1	0	3	71.1
			4W	21075	2	0	4	101.2	21515	2	0	4	103.3	22470	2	0	4	107.4
			4W-BC	12045	1	0	3	57.8	12296	1	0	3	59.0	12842	1	0	3	61.7
5R			20943	4	0	4	100.5	21381	4	0	4	102.6	22330	4	0	4	107.3	
5QM			20913	4	0	2	100.4	21350	4	0	2	102.5	22297	4	0	2	106.8	
5QN	22038	4	0	1	105.8	22499	4	0	1	108.0	23497	5	0	1	112.5			
5W	18624	4	0	2	89.4	19013	4	0	2	91.3	19857	4	0	2	95.2			

**CC21K2**  
LED UPGRADE KIT

**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	330	FR	8657	1	0	1	116.8	8838	1	0	1	119.2	9230	1	0	1	124.5
			FR-BC	5414	0	0	0	73.0	5527	0	0	0	74.6	5772	0	0	0	77.9
			2	8192	1	0	2	110.5	8364	1	0	2	112.8	8735	1	0	2	117.8
			2-BC	4670	0	0	1	63.0	4768	0	0	1	64.3	4979	0	0	1	67.2
			3	7902	1	0	2	106.6	8067	1	0	2	108.8	8425	1	0	2	113.7
			3-BC	4548	0	0	1	61.4	4643	0	0	1	62.6	4849	0	0	1	65.4
			4	7866	1	0	2	106.1	8031	1	0	2	108.3	8387	1	0	2	113.2
			4-BC	5430	0	0	2	73.3	5543	0	0	2	74.8	5789	0	0	2	78.1
			4W	8252	1	0	2	111.3	8424	1	0	2	113.7	8798	1	0	2	118.7
			4W-BC	4716	0	0	2	63.6	4815	0	0	2	65.0	5028	0	0	2	67.8
			5R	8200	3	0	3	110.6	8372	3	0	3	113.0	8743	3	0	3	118.0
			5QM	8188	3	0	1	110.5	8360	3	0	1	112.8	8730	3	0	1	117.8
	5QN	8629	3	0	0	116.4	8810	3	0	0	118.9	9200	3	0	0	124.1		
	5W	7292	3	0	1	98.4	7445	3	0	1	100.4	7775	3	0	2	104.9		
	12,000	465	FR	11893	1	0	1	112.2	12141	1	0	1	114.6	12680	1	0	1	119.6
			FR-BC	7438	0	0	0	70.2	7593	0	0	1	71.6	7930	0	0	1	74.8
			2	11255	2	0	2	106.2	11490	2	0	2	108.4	12000	2	0	2	113.2
			2-BC	6416	0	0	1	60.5	6550	0	0	1	61.8	6841	0	0	1	64.5
			3	10855	2	0	2	102.4	11082	2	0	2	104.6	11574	2	0	2	109.2
			3-BC	6249	0	0	2	59.0	6379	0	0	2	60.2	6662	0	0	2	62.9
			4	10807	1	0	2	102.0	11033	1	0	2	104.1	11522	1	0	2	108.7
			4-BC	7459	0	0	2	70.4	7615	0	0	2	71.8	7953	0	0	2	75.0
			4W	11337	2	0	3	107.0	11574	2	0	3	109.2	12087	2	0	3	114.0
			4W-BC	6479	1	0	2	61.1	6615	1	0	2	62.4	6908	1	0	2	65.2
			5R	11266	3	0	3	106.3	11502	3	0	3	108.5	12012	3	0	3	113.3
			5QM	11249	3	0	1	106.1	11485	3	0	1	108.4	11994	3	0	1	113.2
	5QN	11855	3	0	0	111.8	12103	3	0	0	114.2	12640	3	0	0	119.3		
	5W	10018	3	0	2	94.5	10228	3	0	2	96.5	10682	4	0	2	100.8		
	15,000	570	FR	14062	2	0	1	108.8	14356	2	0	1	111.1	14993	2	0	1	116.0
			FR-BC	8794	0	0	1	68.0	8978	0	0	1	69.5	9376	0	0	1	72.5
			2	13308	2	0	2	102.9	13586	2	0	2	105.1	14189	2	0	2	109.8
			2-BC	7586	0	0	1	58.7	7745	0	0	1	59.9	8088	0	0	1	62.6
			3	12835	2	0	2	99.3	13104	2	0	2	101.4	13685	2	0	3	105.9
			3-BC	7388	0	0	2	57.2	7543	0	0	2	58.3	7877	1	0	2	60.9
			4	12778	1	0	3	98.8	13045	1	0	3	100.9	13624	1	0	3	105.4
			4-BC	8820	0	0	2	68.2	9004	0	0	2	69.7	9404	0	0	2	72.7
4W			13404	2	0	3	103.7	13685	2	0	3	105.9	14292	2	0	3	110.6	
4W-BC			7661	1	0	2	59.3	7821	1	0	2	60.5	8168	1	0	2	63.2	
5R			13321	3	0	3	103.0	13599	4	0	4	105.2	14203	4	0	4	109.9	
5QM			13301	3	0	1	102.9	13579	3	0	1	105.0	14182	3	0	2	109.7	
5QN	14017	4	0	1	108.4	14310	4	0	1	110.7	14945	4	0	1	115.6			
5W	11845	4	0	2	91.6	12093	4	0	2	93.5	12630	4	0	2	97.7			

**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	18,000	700	FR	16438	2	0	1	103.7	16782	2	0	1	105.8	17527	2	0	1	110.5
			FR-BC	10281	0	0	1	64.8	10496	0	0	1	66.2	10961	0	0	1	69.1
			2	15557	2	0	2	98.1	15882	2	0	2	100.2	16587	2	0	2	104.6
			2-BC	8868	0	0	2	55.9	9054	0	0	2	57.1	9456	0	0	2	59.6
			3	15005	2	0	2	94.6	15318	2	0	2	96.6	15998	2	0	3	100.9
			3-BC	8637	1	0	2	54.5	8818	1	0	2	55.6	9209	1	0	2	58.1
			4	14938	1	0	3	94.2	15250	1	0	3	96.2	15927	1	0	3	100.4
			4-BC	10311	0	0	2	65.0	10526	1	0	2	66.4	10993	1	0	2	69.3
			4W	15670	2	0	4	98.8	15998	2	0	4	100.9	16707	2	0	4	105.4
			4W-BC	8956	1	0	2	56.5	9143	1	0	2	57.7	9549	1	0	2	60.2
			5R	15572	4	0	4	98.2	15898	4	0	4	100.3	16603	4	0	4	104.7
			5QM	15549	4	0	2	98.1	15874	4	0	2	100.1	16579	4	0	2	104.6
			5QN	16386	4	0	1	103.3	16729	4	0	1	105.5	17471	4	0	1	110.2
5W	13848	4	0	2	87.3	14137	4	0	2	89.2	14764	4	0	2	93.1			

**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	330	FR	8123	1	0	1	109.6	8293	1	0	1	111.9	8660	1	0	1	116.8
			FR-BC	5080	0	0	0	68.5	5186	0	0	0	70.0	5416	0	0	0	73.1
			2	7687	1	0	2	103.7	7848	1	0	2	105.9	8196	1	0	2	110.6
			2-BC	4382	0	0	1	59.1	4474	0	0	1	60.4	4672	0	0	1	63.0
			3	7414	1	0	2	100.0	7569	1	0	2	102.1	7905	1	0	2	106.7
			3-BC	4268	0	0	1	57.6	4357	0	0	1	58.8	4550	0	0	1	61.4
			4	7381	1	0	2	99.6	7535	1	0	2	101.7	7870	1	0	2	106.2
			4-BC	5095	0	0	2	68.7	5201	0	0	2	70.2	5432	0	0	2	73.3
			4W	7743	1	0	2	104.5	7905	1	0	2	106.6	8256	1	0	2	111.4
			4W-BC	4425	0	0	2	59.7	4518	0	0	2	61.0	4718	0	0	2	63.7
			5R	7695	3	0	3	103.8	7856	3	0	3	106.0	8204	3	0	3	110.7
			5QM	7683	3	0	1	103.7	7844	3	0	1	105.8	8192	3	0	1	110.5
	5QN	8097	3	0	0	109.2	8266	3	0	0	111.5	8633	3	0	0	116.5		
	5W	6843	3	0	1	92.3	6986	3	0	1	94.2	7296	3	0	1	98.4		
	12,000	465	FR	11159	1	0	1	105.3	11392	1	0	1	107.5	11898	1	0	1	112.3
			FR-BC	6979	0	0	0	65.8	7125	0	0	0	67.2	7441	0	0	0	70.2
			2	10561	2	0	2	99.6	10782	2	0	2	101.7	11260	2	0	2	106.2
			2-BC	6020	0	0	1	56.8	6146	0	0	1	58.0	6419	0	0	1	60.6
			3	10186	2	0	2	96.1	10399	2	0	2	98.1	10860	2	0	2	102.5
			3-BC	5863	0	0	2	55.3	5986	0	0	2	56.5	6251	0	0	2	59.0
			4	10140	1	0	2	95.7	10352	1	0	2	97.7	10812	1	0	2	102.0
			4-BC	6999	0	0	2	66.0	7146	1	0	2	67.4	7463	0	0	2	70.4
			4W	10637	1	0	3	100.4	10860	1	0	3	102.5	11342	2	0	3	107.0
			4W-BC	6079	0	0	2	57.4	6207	0	0	2	58.6	6482	1	0	2	61.2
5R			10571	3	0	3	99.7	10792	3	0	3	101.8	11271	3	0	3	106.3	
5QM			10555	3	0	1	99.6	10776	3	0	1	101.7	11254	3	0	1	106.2	
5QN	11124	3	0	0	104.9	11356	3	0	0	107.1	11860	3	0	0	111.9			
5W	9400	3	0	2	88.7	9597	3	0	2	90.5	10023	3	0	2	94.6			

**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	15,000	570	FR	13194	1	0	1	102.1	13470	1	0	1	104.2	14068	2	0	1	108.8
			FR-BC	8252	0	0	1	63.8	8424	0	0	1	65.2	8798	0	0	1	68.1
			2	12487	2	0	2	96.6	12748	2	0	2	98.6	13313	2	0	2	103.0
			2-BC	7118	0	0	1	55.1	7267	0	0	1	56.2	7590	0	0	1	58.7
			3	12043	2	0	2	93.2	12295	2	0	2	95.1	12841	2	0	2	99.3
			3-BC	6932	0	0	2	53.6	7077	0	0	2	54.7	7391	0	0	2	57.2
			4	11990	1	0	2	92.7	12240	1	0	2	94.7	12783	1	0	3	98.9
			4-BC	8276	0	0	2	64.0	8449	0	0	2	65.4	8824	0	0	2	68.3
			4W	12577	2	0	3	97.3	12840	2	0	3	99.3	13410	2	0	3	103.7
			4W-BC	7188	1	0	2	55.6	7339	1	0	2	56.8	7664	1	0	2	59.3
			5R	12499	3	0	3	96.7	12760	3	0	3	98.7	13327	3	0	3	103.1
			5QM	12481	3	0	1	96.5	12742	3	0	1	98.6	13307	3	0	1	102.9
			5QN	13152	3	0	0	101.7	13427	4	0	0	103.9	14023	4	0	1	108.5
			5W	11115	4	0	2	86.0	11347	4	0	2	87.8	11851	4	0	2	91.7
	18,000	700	FR	15425	2	0	1	97.3	15747	2	0	1	99.3	16446	2	0	1	103.7
			FR-BC	9647	0	0	1	60.8	9848	0	0	1	62.1	10285	0	0	1	64.9
			2	14597	2	0	2	92.1	14903	2	0	2	94.0	15564	2	0	2	98.2
			2-BC	8321	0	0	1	52.5	8495	0	0	1	53.6	8872	0	0	2	56.0
			3	14079	2	0	2	88.8	14374	2	0	2	90.7	15011	2	0	2	94.7
			3-BC	8104	1	0	2	51.1	8274	1	0	2	52.2	8641	1	0	2	54.5
			4	14016	1	0	3	88.4	14309	1	0	3	90.2	14944	1	0	3	94.3
			4-BC	9675	0	0	2	61.0	9877	0	0	2	62.3	10315	0	0	2	65.1
			4W	14703	2	0	4	92.7	15011	2	0	4	94.7	15677	2	0	4	98.9
			4W-BC	8403	1	0	2	53.0	8579	1	0	2	54.1	8960	1	0	2	56.5
			5R	14612	4	0	4	92.2	14917	4	0	4	94.1	15579	4	0	4	98.3
			5QM	14590	3	0	2	92.0	14895	3	0	2	93.9	15556	4	0	2	98.1
			5QN	15375	4	0	1	97.0	15697	4	0	1	99.0	16393	4	0	1	103.4
			5W	12994	4	0	2	81.9	13265	4	0	2	83.7	13854	4	0	2	87.4

**CC21K2**  
LED UPGRADE KIT  
**PHOTOMETRY**

CC21x2-72L-900-4K7-FR

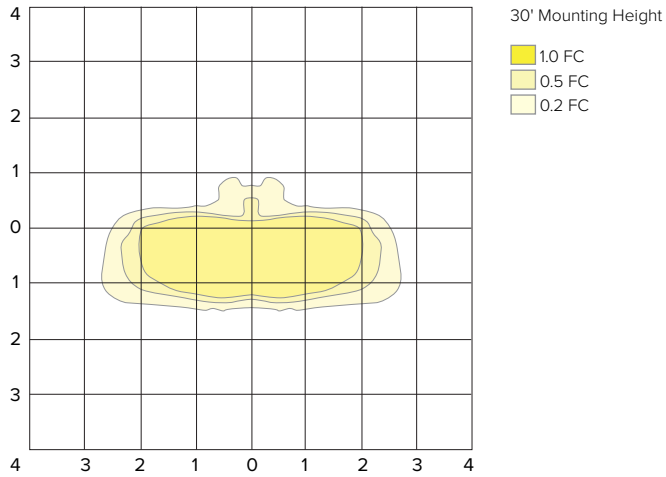
**LUMINAIRE DATA**

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>22571</b>
Watts	<b>208.3</b>
Efficacy	<b>108.4</b>
IES Type	<b>I</b>
BUG Rating	<b>B2-U0-G2</b>
Mounting Height	<b>30 ft</b>
Grid Scale	<b>30 ft</b>

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	19733	87.4%
Downward House Side	2838	12.6%
Downward Total	22571	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	22571	100%

**ISOFOOT CANDLE PLOT**



CC21x2-72L-900-4K7-2

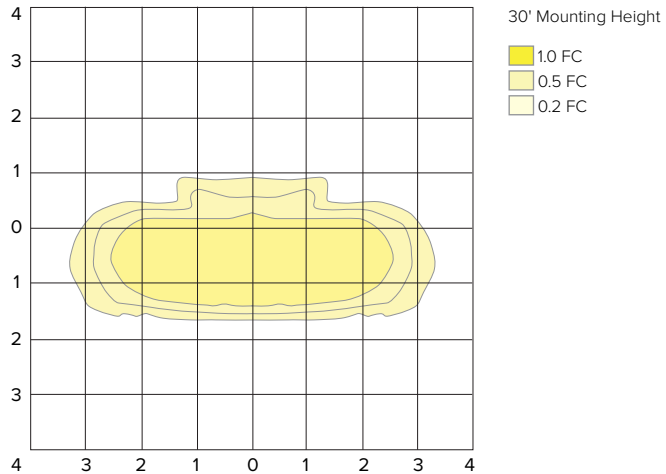
**LUMINAIRE DATA**

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>21360</b>
Watts	<b>208.79</b>
Efficacy	<b>102.3</b>
IES Type	<b>II</b>
BUG Rating	<b>B3-U0-G3</b>
Mounting Height	<b>30 ft</b>
Grid Scale	<b>30 ft</b>

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	17906	83.8%
Downward House Side	3454	16.2%
Downward Total	21360	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	21360	100%

**ISOFOOT CANDLE PLOT**



CC21x2-72L-900-4K7-3

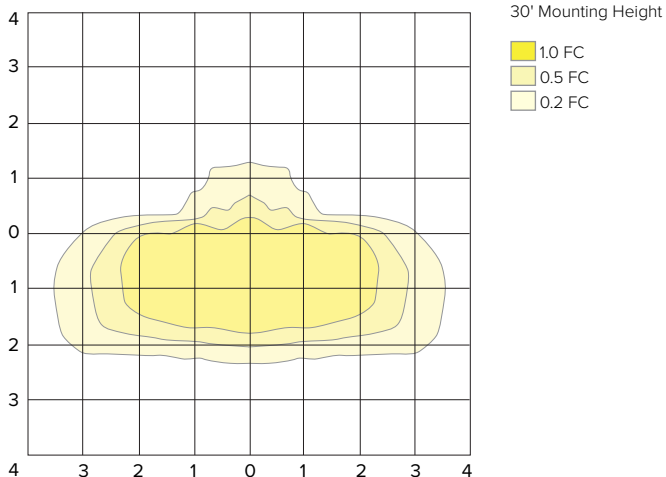
**LUMINAIRE DATA**

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>20603</b>
Watts	<b>206.8</b>
Efficacy	<b>99.6</b>
IES Type	<b>III</b>
BUG Rating	<b>B2-U0-G4</b>
Mounting Height	<b>30 ft</b>
Grid Scale	<b>30 ft</b>

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	17604	85.4%
Downward House Side	2999	14.6%
Downward Total	20603	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	20603	100%

**ISOFOOT CANDLE PLOT**





# CC21K2

## LED UPGRADE KIT PHOTOMETRY

CC21x2-72L-900-4K7-4

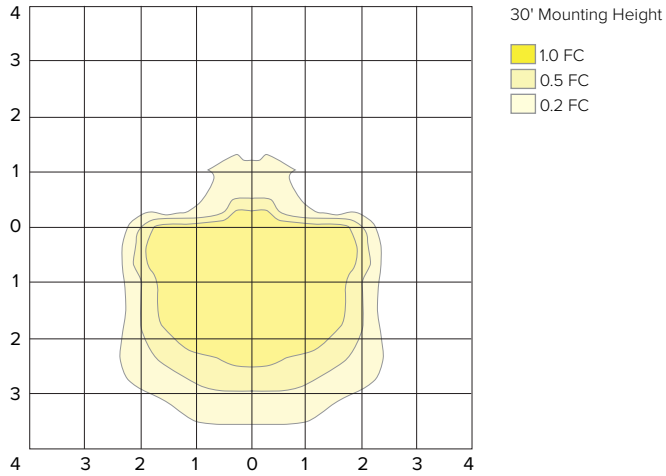
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	20510
Watts	208.3
Efficacy	98.5
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	18232	88.9%
Downward House Side	2278	11.1%
Downward Total	20510	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	20510	100%

### ISOFOOT CANDLE PLOT



CC21x2-72L-900-4K7-4W

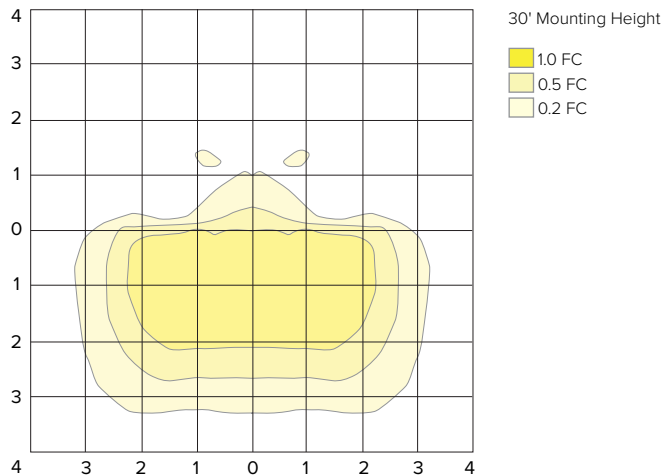
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	21516
Watts	208.3
Efficacy	103.3
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	19250	89.5%
Downward House Side	2266	10.5%
Downward Total	21516	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	21516	100%

### ISOFOOT CANDLE PLOT



CC21x2-72L-900-4K7-5QM

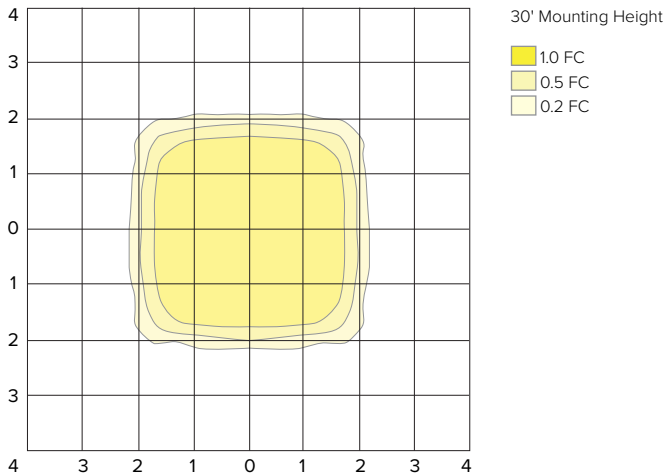
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	21351
Watts	208.3
Efficacy	102.5
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	10676	50.0%
Downward House Side	10676	50.0%
Downward Total	21351	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	21351	100%

### ISOFOOT CANDLE PLOT



**CC21K2**

LED UPGRADE KIT

**PHOTOMETRY**

CC21x2-72L-900-4K7-5QN

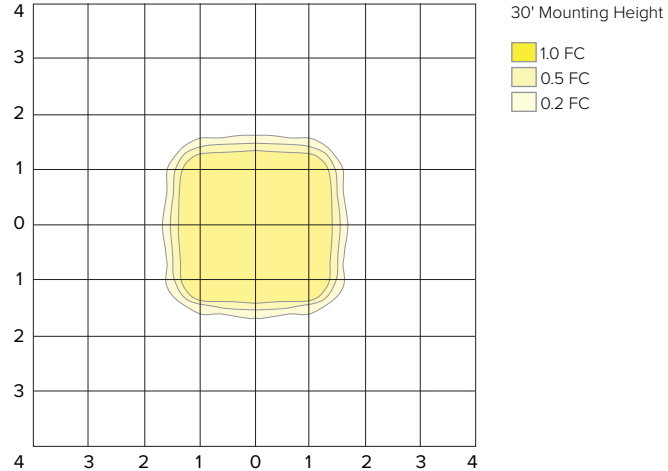
**LUMINAIRE DATA**

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>22499</b>
Watts	<b>208.3</b>
Efficacy	<b>108.0</b>
IES Type	<b>V</b>
BUG Rating	<b>B4-U0-G1</b>
Mounting Height	<b>30 ft</b>
Grid Scale	<b>30 ft</b>

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	11250	50.0%
Downward House Side	11250	50.0%
Downward Total	22499	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	22499	100%

**ISOFOOT CANDLE PLOT**



CC21x2-72L-900-4K7-5R

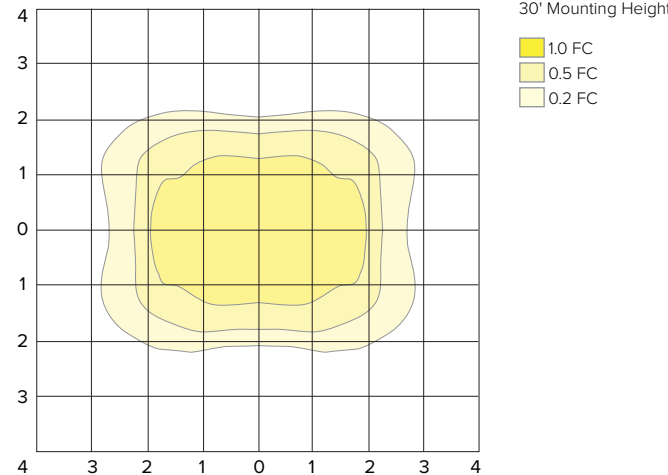
**LUMINAIRE DATA**

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>21382</b>
Watts	<b>208.3</b>
Efficacy	<b>102.7</b>
IES Type	<b>V</b>
BUG Rating	<b>B4-U0-G4</b>
Mounting Height	<b>30 ft</b>
Grid Scale	<b>30 ft</b>

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	10691	50.0%
Downward House Side	10691	50.0%
Downward Total	21382	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	21382	100%

**ISOFOOT CANDLE PLOT**



CC21x2-72L-900-4K7-5W

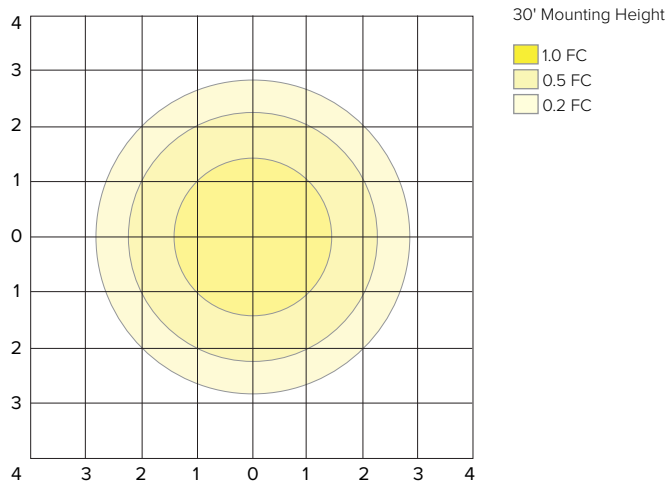
**LUMINAIRE DATA**

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>19013</b>
Watts	<b>208.3</b>
Efficacy	<b>91.3</b>
IES Type	<b>V</b>
BUG Rating	<b>B4-U0-G2</b>
Mounting Height	<b>30 ft</b>
Grid Scale	<b>30 ft</b>

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	9507	50.0%
Downward House Side	9507	50.0%
Downward Total	19013	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	19013	100%

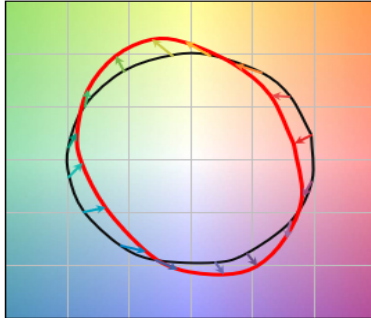
**ISOFOOT CANDLE PLOT**



**CC21K2**  
LED UPGRADE KIT

**TM-30 DATA**

**COLOR VECTOR GRAPHIC**

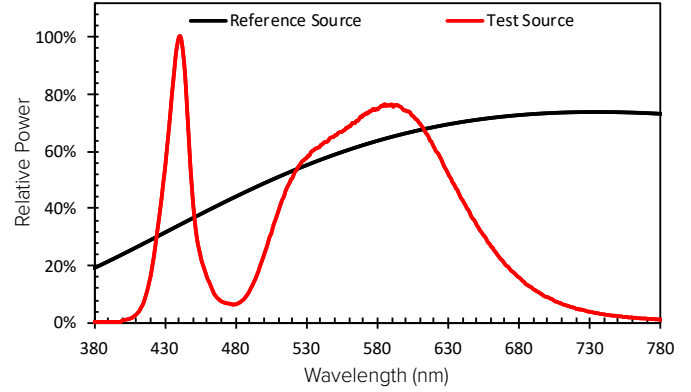


— Reference Illuminant — Test Source

**TEST SOURCE**

R <sub>f</sub>	68
R <sub>g</sub>	99
CCT(K)	3947
D <sub>uv</sub>	0.0004
x	0.3831
y	0.3793
CIE R <sub>a</sub>	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	74.1	330	120-480	50/60	0.62	0.36	0.31	0.27	0.21	0.15	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	106.0	465			0.88	0.51	0.44	0.38	0.31	0.22							
	129.3	570			1.08	0.62	0.54	0.47	0.37	0.27							
	158.6	700			1.32	0.76	0.66	0.57	0.46	0.33							
	208.3	900			1.74	1.00	0.87	0.75	0.60	0.43							

**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%	90.8%	88.0%	84.5%	73.0%	>60000