

# ARK2

ARCHITECTURAL AREA/SITE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## FEATURES

- TIR Strike Optics
- Available in Monochromatic Amber, 2700K, 3000K, 3500K, 4000K and 5000K
- Type 1, 2, 3, 4, 4W, 5W, 5QM, L, and R distributions
- 0 - 10V dimming drivers standard
- IP65 optical assembly



3000K and warmer CCTs only

## The Archetype®



### RELATED PRODUCTS

[Ouro](#)

[Pavilion](#)

[PGL8](#)

## 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
- All hardware is stainless steel or electro-zinc plated steel
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat

### 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

### OPTICS

- Optical cartridge system consisting of a die cast heat sink, LED Total Internal Reflection (TIR) optics, gasket and bezel plate

### OPTICS (CONTINUED)

- 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
- IP65 Optical assembly
- Type 1, 2, 3, 4, 4W, 5W, 5QM, R, and L standard distributions
- Available in Monochromatic Amber, 2700K, 3000K, 3500K, 4000K and 5000K
- Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level
- Anodized aluminum heat sink modules

### 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
- SF for 120, 277, 347 Line volts  
DF for 208, 240, 480 Line volts

### CERTIFICATIONS AND LISTINGS

- Listed to UL1598 and CSA C22.2#250.0-24 for wet location and 40°C ambient temperatures
- RoHS compliant

### WARRANTY

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

**ORDERING GUIDE**

ARK2											
Model	LED Engine	CCT/CRI <sup>3</sup>		Distribution		Voltage		Fixture Finish			
ARK2 The Archetype 2.0 Large Kit	<b>54L-560</b>	54 LEDs - 11,000 Lumens	<b>AM</b> <sup>1,4</sup>	Monochromatic Amber		<b>1</b>	Type I	<b>UNV</b>	120-277V	<b>BLS</b>	Black Gloss Smooth
	<b>54L-750</b>	54 LEDs - 14,000 Lumens	<b>27K8</b> <sup>2</sup>	2700K, 80CRI		<b>2</b>	Type II	<b>347</b>	347V	<b>BLT</b>	Black Matte Textured
	<b>81L-700</b>	81 LEDs - 19,500 Lumens	<b>27K9</b> <sup>2</sup>	2700K, 90CRI		<b>3</b>	Type III	<b>480</b>	480V	<b>DBS</b>	Dark Bronze Gloss Smooth
			<b>3K7</b>	3000K, 70CRI		<b>4</b>	Type IV Forward			<b>DBT</b>	Dark Bronze Matte Textured
			<b>3K8</b> <sup>2</sup>	3000K, 80CRI		<b>4W</b>	Type IV Wide			<b>GTT</b>	Graphite Matte Textured
			<b>3K9</b> <sup>2</sup>	3000K, 90CRI		<b>5W</b>	Type V Wide			<b>LGS</b>	Light Grey Gloss Smooth
			<b>35K8</b> <sup>2</sup>	3500K, 80CRI		<b>5QM</b>	Type V Square Medium			<b>LGT</b>	Light Grey Matte Textured
			<b>35K9</b> <sup>2</sup>	3500K, 90CRI		<b>R</b>	Corner Right			<b>PSS</b>	Platinum Silver Smooth
			<b>4K7</b>	4000K, 70CRI		<b>L</b>	Corner Left			<b>VGT</b>	Verde Green Matte Textured
			<b>4K8</b> <sup>2</sup>	4000K, 80CRI						<b>WHS</b>	White Gloss Smooth
			<b>4K9</b> <sup>2</sup>	4000K, 90CRI						<b>WHT</b>	White Matte Textured
			<b>5K7</b>	5000K, 70CRI						<b>Color Option</b>	
			<b>5K8</b> <sup>2</sup>	5000K, 80CRI						<b>CC</b>	Custom Color
			<b>5K9</b> <sup>2</sup>	5000K, 90CRI							

House Side Shield	Fuse Options
<b>BC</b> <sup>1</sup> Backlight Control	<b>SF</b> 120, 277, 347 Line Volts <b>DF</b> 208, 240, 480 Line Volts

Notes:

- 1 Not available with 5QM and 5W distributions
- 2 See Lumen Multiplier chart on Page 11 for lumen scaling factor. Consult factory for additional details.
- 3 5-step MacAdam Ellipse Binning is standard. Consult factory for 3-step MacAdam Ellipse Binning
- 4 Turtle Friendly.

**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	
54	11,000	560	1	10664	1	0	1	120.2	10802	1	0	1	121.7	11380	1	0	1	128.3
			1-BC	6020	0	0	0	67.8	6098	0	0	0	68.7	6424	0	0	1	72.4
			2	9651	2	0	2	108.8	9776	2	0	2	110.2	10299	2	0	2	116.1
			2-BC	5304	0	0	1	59.8	5373	0	0	1	60.6	5660	0	0	1	63.8
			3	9901	1	0	2	111.6	10029	1	0	2	113.0	10566	1	0	2	119.1
			3-BC	5426	0	0	2	61.2	5496	0	0	2	61.9	5791	0	0	2	65.3
			4	10218	1	0	2	115.2	10350	1	0	2	116.6	10904	1	0	2	122.9
			4-BC	6926	0	0	2	78.1	7016	0	0	2	79.1	7391	0	0	2	83.3
			4W	9545	1	0	2	107.6	9669	1	0	2	109.0	10186	1	0	2	114.8
			4W-BC	5724	0	0	2	64.5	5798	0	0	2	65.3	6108	0	0	2	68.8
			5W	9561	3	0	2	107.7	9685	3	0	2	109.1	10203	3	0	2	115.0
			5QM	10254	3	0	1	115.6	10387	3	0	1	117.1	10943	3	0	1	123.3
			R	10021	2	0	2	112.9	10151	2	0	2	114.4	10695	2	0	2	120.5
L	10021	1	0	2	112.9	10151	1	0	2	114.4	10695	1	0	2	120.5			
54	14,000	750	1	14256	1	0	1	112.9	14441	1	0	1	114.4	15213	1	0	1	120.5
			1-BC	8048	0	0	1	63.7	8152	0	0	1	64.6	8588	0	0	1	68.0
			2	12901	2	0	2	102.2	13069	2	0	2	103.5	13768	2	0	2	109.0
			2-BC	7090	0	0	1	56.2	7183	0	0	1	56.9	7567	0	0	2	59.9
			3	13236	2	0	2	104.8	13407	2	0	2	106.2	14125	2	0	2	111.9
			3-BC	7254	0	0	2	57.4	7348	0	0	2	58.2	7741	0	0	2	61.3
			4	13659	1	0	3	108.2	13837	1	0	3	109.6	14577	1	0	3	115.4
			4-BC	9259	0	0	2	73.3	9379	0	0	2	74.3	9881	0	0	2	78.3
			4W	12760	2	0	3	101.1	12926	4	0	2	102.4	13618	2	0	3	107.8
			4W-BC	7652	0	0	2	60.6	7751	0	0	2	61.4	8166	0	0	2	64.7
			5W	12781	4	0	2	101.2	12947	2	0	3	102.5	13640	4	0	2	108.0
			5QM	13708	3	0	1	108.6	13886	3	0	1	110.0	14629	4	0	1	115.9
			R	13397	2	0	2	106.1	13571	2	0	2	107.5	14297	2	0	3	113.2
L	13397	2	0	2	106.1	13571	2	0	2	107.5	14297	2	0	3	113.2			
81	19,500	700	1	19820	2	0	1	111.2	20077	2	0	1	112.6	21151	2	0	1	118.7
			1-BC	11188	0	0	1	62.8	11334	0	0	1	63.6	11940	0	0	1	67.0
			2	17937	2	0	2	100.6	18169	2	0	2	101.9	19142	3	0	3	107.4
			2-BC	9858	0	0	2	55.3	9986	0	0	2	56.0	10520	0	0	2	59.0
			3	18402	2	0	3	103.2	18640	2	0	3	104.6	19638	2	0	3	110.2
			3-BC	10085	0	0	2	56.6	10216	0	0	2	57.3	10762	0	0	2	60.4
			4	18990	2	0	4	106.5	19237	2	0	4	107.9	20266	2	0	4	113.7
			4-BC	12872	1	0	3	72.2	13039	1	0	3	73.2	13737	1	0	3	77.1
			4W	17741	2	0	4	99.5	17971	2	0	4	100.8	18933	2	0	4	106.2
			4W-BC	10638	1	0	2	59.7	10776	1	0	3	60.5	11353	1	0	3	63.7
			5W	17769	4	0	2	99.7	18000	4	0	2	101.0	18963	4	0	2	106.4
			5QM	19058	4	0	2	106.9	19305	4	0	2	108.3	20338	4	0	2	114.1
			R	18625	2	0	3	104.5	18867	2	0	3	105.9	19877	3	0	3	111.5
L	18625	2	0	3	104.5	18867	2	0	3	105.9	19877	2	0	3	111.5			

**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	
54	11,000	560	1	8907	1	0	1	100.4	9023	1	0	1	101.7	9506	1	0	1	107.1
			1-BC	5028	0	0	0	56.7	5094	0	0	0	57.4	5366	0	0	0	60.5
			2	8061	1	0	2	90.8	8166	1	0	2	92.0	8603	1	0	2	97.0
			2-BC	4430	0	0	1	49.9	4488	0	0	1	50.6	4728	0	0	1	53.3
			3	8270	1	0	2	93.2	8377	1	0	2	94.4	8826	1	0	2	99.5
			3-BC	4532	0	0	1	51.1	4591	0	0	1	51.7	4837	0	0	2	54.5
			4	8535	1	0	2	96.2	8645	1	0	2	97.4	9108	1	0	2	102.6
			4-BC	5785	0	0	2	65.2	5860	0	0	2	66.0	6174	0	0	2	69.6
			4W	7973	1	0	2	89.9	8076	1	0	2	91.0	8509	1	0	2	95.9
			4W-BC	4781	0	0	2	53.9	4843	0	0	2	54.6	5102	0	0	2	57.5
			5W	7986	3	0	1	90.0	8089	3	0	1	91.2	8522	3	0	2	96.0
			5QM	8565	3	0	1	96.5	8676	3	0	1	97.8	9140	3	0	1	103.0
	R	8371	3	0	1	94.3	8479	1	0	2	95.6	8933	1	0	2	100.7		
	L	8371	1	0	2	94.3	8479	1	0	2	95.6	8933	1	0	2	100.7		
	14,000	750	1	11907	1	0	1	94.3	12062	1	0	1	95.5	12708	1	0	1	100.6
			1-BC	6722	0	0	1	53.2	6809	0	0	1	53.9	7174	0	0	1	56.8
			2	10776	2	0	2	85.3	10916	2	0	2	86.4	11500	2	0	2	91.1
			2-BC	5923	0	0	1	46.9	5999	0	0	1	47.5	6321	0	0	1	50.1
			3	11056	1	0	2	87.6	11199	1	0	2	88.7	11798	1	0	2	93.4
			3-BC	6059	0	0	2	48.0	6137	0	0	2	48.6	6466	0	0	2	51.2
			4	11409	1	0	2	90.4	11557	1	0	2	91.5	12176	1	0	2	96.4
			4-BC	7733	0	0	2	61.2	7834	0	0	2	62.0	8253	0	0	2	65.4
			4W	10658	1	0	2	84.4	10797	1	0	2	85.5	11375	1	0	3	90.1
			4W-BC	6391	0	0	2	50.6	6474	0	0	2	51.3	6821	0	0	2	54.0
5W			10676	3	0	2	84.5	10814	3	0	2	85.6	11393	3	0	2	90.2	
5QM			11450	3	0	1	90.7	11598	3	0	1	91.9	12219	3	0	1	96.8	
R	11190	2	0	2	88.6	11335	2	0	2	89.8	11942	2	0	2	94.6			
L	11190	1	0	2	88.6	11335	1	0	2	89.8	11942	1	0	2	94.6			

**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	
54	11,000	560	1	8772	1	0	1	98.9	8886	1	0	1	100.2	9362	1	0	1	105.5
			1-BC	4952	0	0	0	55.8	5016	0	0	0	56.5	5285	0	0	0	59.6
			2	7939	1	0	1	89.5	8042	1	0	2	90.6	8472	1	0	2	95.5
			2-BC	4363	0	0	1	49.2	4420	0	0	1	49.8	4656	0	0	1	52.5
			3	8145	1	0	2	91.8	8251	1	0	2	93.0	8692	1	0	2	98.0
			3-BC	4464	0	0	1	50.3	4522	0	0	1	51.0	4764	0	0	1	53.7
			4	8405	1	0	2	94.7	8515	1	0	2	96.0	8970	1	0	2	101.1
			4-BC	5697	0	0	2	64.2	5771	0	0	2	65.0	6080	0	0	2	68.5
			4W	7852	1	0	2	88.5	7954	1	0	2	89.6	8380	1	0	2	94.4
			4W-BC	4709	0	0	2	53.1	4770	0	0	2	53.8	5025	0	0	2	56.6
			5W	7865	3	0	1	88.6	7967	3	0	1	89.8	8393	3	0	2	94.6
			5QM	8435	3	0	1	95.1	8545	3	0	1	96.3	9002	3	0	1	101.5
			R	8244	1	0	2	92.9	8351	1	0	2	94.1	8798	1	0	2	99.2
			L	8244	1	0	2	92.9	8351	1	0	2	94.1	8798	1	0	2	99.2
	14,000	750	1	11727	1	0	1	92.9	11880	1	0	1	94.1	12515	1	0	1	99.1
			1-BC	6620	0	0	1	52.4	6706	0	0	1	53.1	7065	0	0	1	56.0
			2	10613	2	0	2	84.1	10751	2	0	2	85.1	11326	2	0	2	89.7
			2-BC	5833	0	0	1	46.2	5909	0	0	1	46.8	6225	0	0	1	49.3
			3	10888	1	0	2	86.2	11030	1	0	2	87.3	11620	1	0	2	92.0
			3-BC	5967	0	0	2	47.3	6045	0	0	2	47.9	6368	0	0	2	50.4
			4	11237	1	0	2	89.0	11383	1	0	2	90.1	11992	1	0	2	95.0
			4-BC	7617	0	0	2	60.3	7715	0	0	2	61.1	8128	0	0	2	64.4
			4W	10497	1	0	2	83.1	10633	1	0	2	84.2	11203	1	0	3	88.7
			4W-BC	6295	0	0	2	49.8	6376	0	0	2	50.5	6718	0	0	2	53.2
			5W	10514	3	0	2	83.3	10651	3	0	2	84.3	11221	3	0	2	88.9
			5QM	11277	3	0	1	89.3	11423	3	0	1	90.5	12034	3	0	1	95.3
R	11021	2	0	2	87.3	11164	2	0	2	88.4	11761	2	0	2	93.1			
L	11021	1	0	2	87.3	11164	1	0	2	88.4	11761	1	0	2	93.1			

# ARK2

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

AR2-54L-750-4K7-1

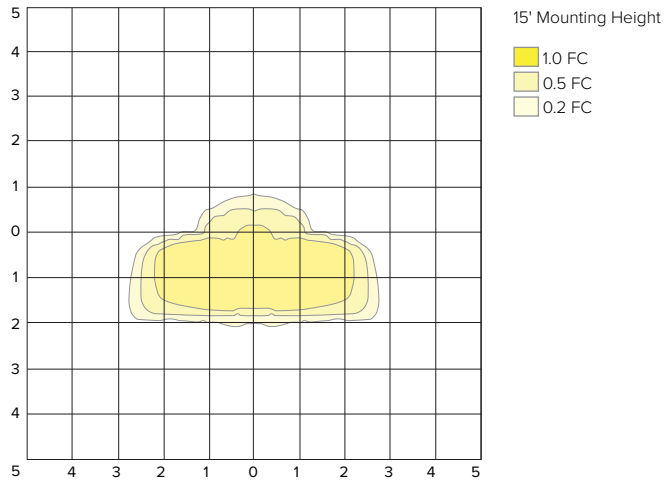
### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>14440</b>
Watts	<b>126.27</b>
Efficacy	<b>114.4</b>
IES Type	<b>1</b>
BUG Rating	<b>B1-U0-G1</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	12851	89.0%
Downward House Side	1589	11.0%
Downward Total	14440	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	14440	100%

### ISOFOOT CANDLE PLOT



AR2-54L-750-4K7-1-BC

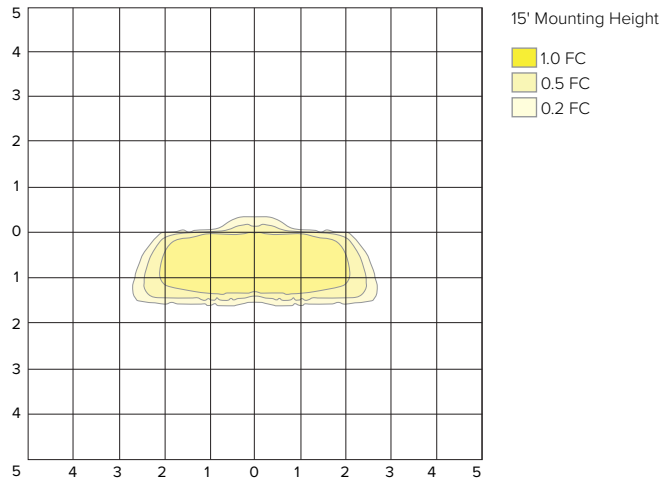
### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>8151</b>
Watts	<b>126.27</b>
Efficacy	<b>64.6</b>
IES Type	<b>1</b>
BUG Rating	<b>B0-U0-G1</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	8033	98.5%
Downward House Side	118	1.5%
Downward Total	8151	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	8151	100%

### ISOFOOT CANDLE PLOT



AR2-54L-750-4K7-2

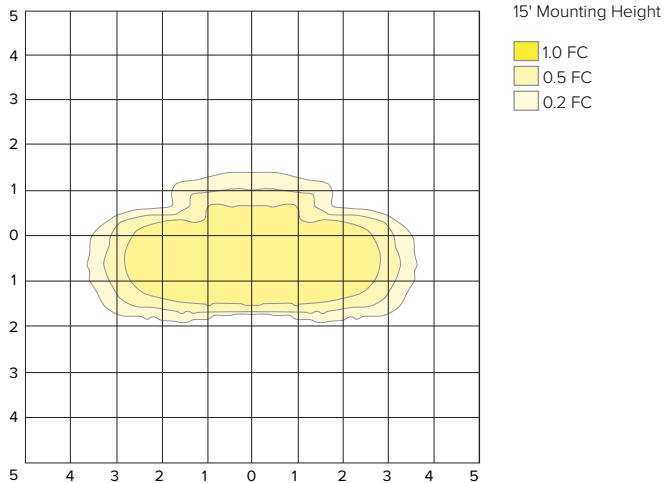
### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>13069</b>
Watts	<b>126.27</b>
Efficacy	<b>103.5</b>
IES Type	<b>2</b>
BUG Rating	<b>B2-U0-G2</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	10825	82.8%
Downward House Side	2245	17.2%
Downward Total	13069	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	13069	100%

### ISOFOOT CANDLE PLOT



# ARK2

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

### AR2-54L-750-4K7-2-BC

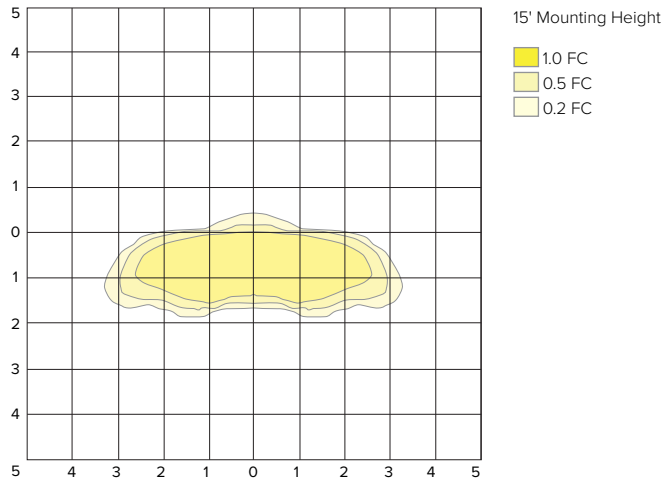
#### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	7182
Watts	126.27
Efficacy	56.9
IES Type	2
BUG Rating	B0-U0-G1
Mounting Height	15 ft
Grid Scale	10 ft

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7019	97.7%
Downward House Side	163	2.3%
Downward Total	7182	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	7182	100%

#### ISOFOOT CANDLE PLOT



### AR2-54L-750-4K7-3

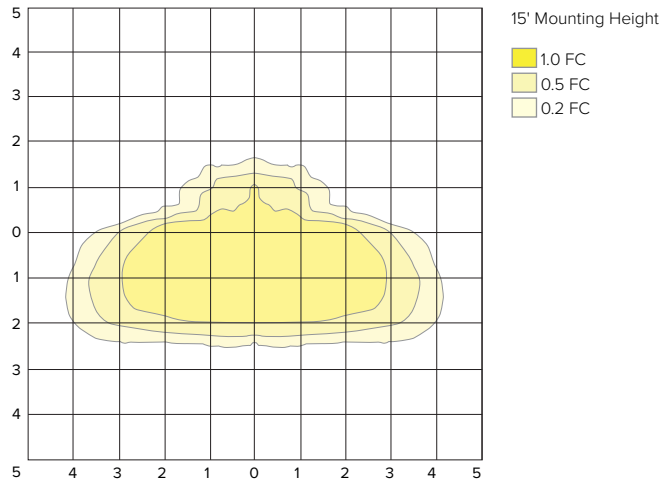
#### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	13406
Watts	126.27
Efficacy	106.2
IES Type	3
BUG Rating	B2-U0-G2
Mounting Height	15 ft
Grid Scale	10 ft

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	11502	85.8%
Downward House Side	1904	14.2%
Downward Total	13406	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	13406	100%

#### ISOFOOT CANDLE PLOT



### AR2-54L-750-4K7-3-BC

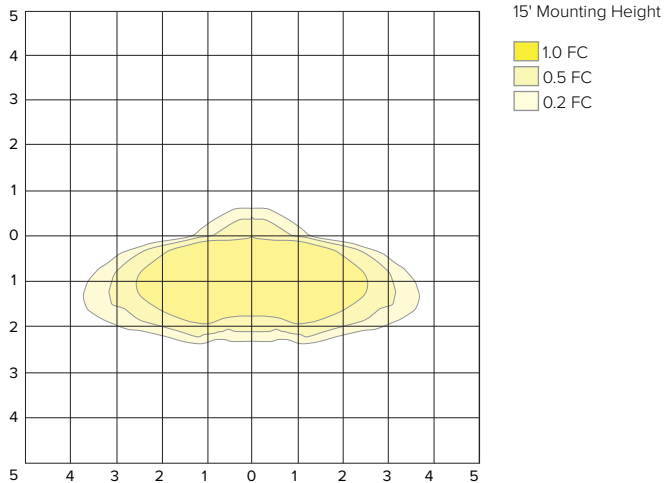
#### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	7347
Watts	126.27
Efficacy	58.2
IES Type	3
BUG Rating	B0-U0-G2
Mounting Height	15 ft
Grid Scale	10 ft

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7108	96.7%
Downward House Side	239	3.3%
Downward Total	7347	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	7347	100%

#### ISOFOOT CANDLE PLOT



# ARK2

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

### AR2-54L-750-4K7-4

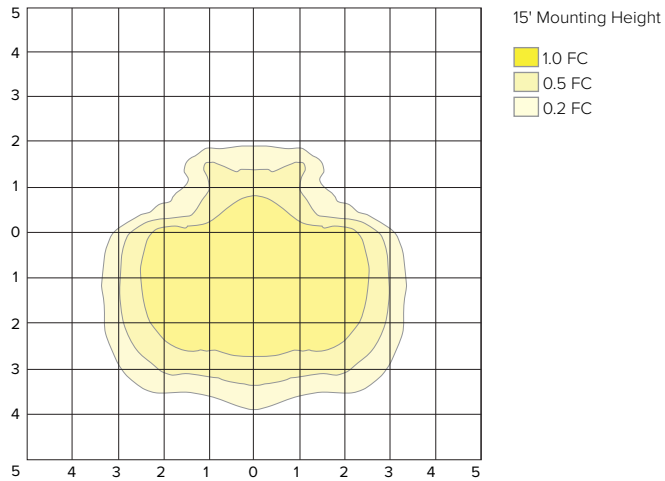
#### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>13836</b>
Watts	<b>126.27</b>
Efficacy	<b>109.6</b>
IES Type	<b>4</b>
BUG Rating	<b>B1-U0-G3</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	12515	90.4%
Downward House Side	1322	9.6%
Downward Total	13837	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	13837	100%

#### ISOFOOT CANDLE PLOT



### AR2-54L-750-4K7-4-BC

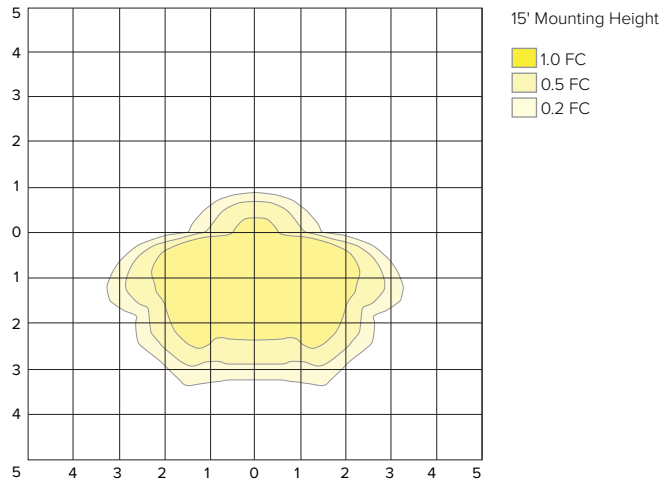
#### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>9381</b>
Watts	<b>126.27</b>
Efficacy	<b>74.3</b>
IES Type	<b>4</b>
BUG Rating	<b>B0-U0-G2</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	9093	96.0%
Downward House Side	289	4.0%
Downward Total	9382	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	9382	100%

#### ISOFOOT CANDLE PLOT



### AR2-54L-750-4K7-4W

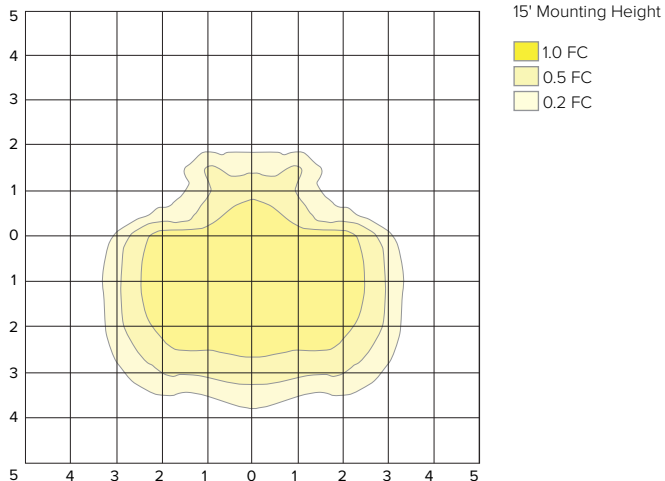
#### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>12926</b>
Watts	<b>126.27</b>
Efficacy	<b>102.4</b>
IES Type	<b>4W</b>
BUG Rating	<b>B2-U0-G3</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	11324	87.6%
Downward House Side	1602	12.4%
Downward Total	12926	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	12926	100%

#### ISOFOOT CANDLE PLOT





# ARK2

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

AR2-54L-750-4K7-4W-BC

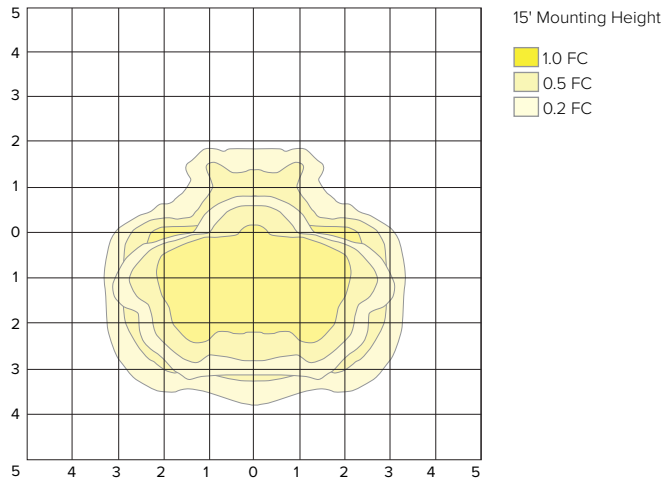
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	7750
Watts	126.27
Efficacy	61.4
IES Type	4W
BUG Rating	B0-U0-G2
Mounting Height	15 ft
Grid Scale	10 ft

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7449	96.0%
Downward House Side	301	4.0%
Downward Total	7750	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	7750	100%

### ISOFOOT CANDLE PLOT



AR2-54L-750-4K7-5QM

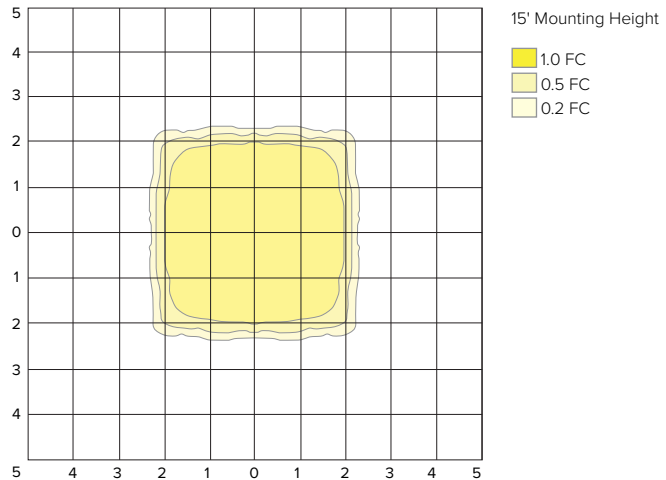
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	13885
Watts	126.27
Efficacy	110.0
IES Type	5
BUG Rating	B3-U0-G1
Mounting Height	15 ft
Grid Scale	10 ft

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6942	50.0%
Downward House Side	6943	50.0%
Downward Total	13885	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	13885	100%

### ISOFOOT CANDLE PLOT



AR2-54L-750-4K7-5W

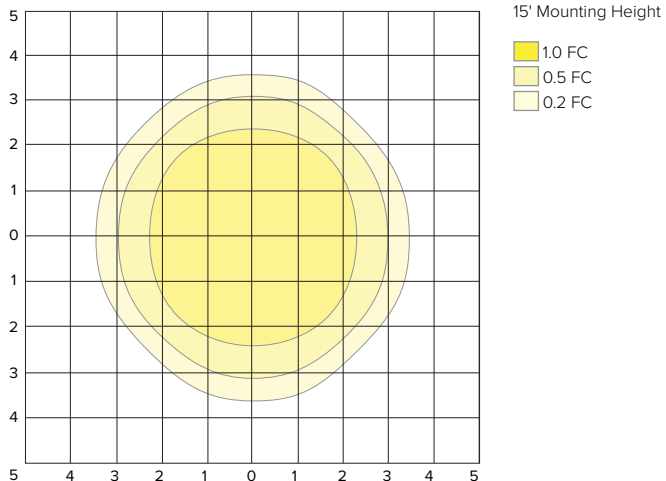
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	12946
Watts	126.27
Efficacy	102.5
IES Type	5
BUG Rating	B4-U0-G2
Mounting Height	15 ft
Grid Scale	10 ft

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6473	50.0%
Downward House Side	6473	50.0%
Downward Total	12946	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	12946	100%

### ISOFOOT CANDLE PLOT



# ARK2

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

AR2-54L-750-4K7-R

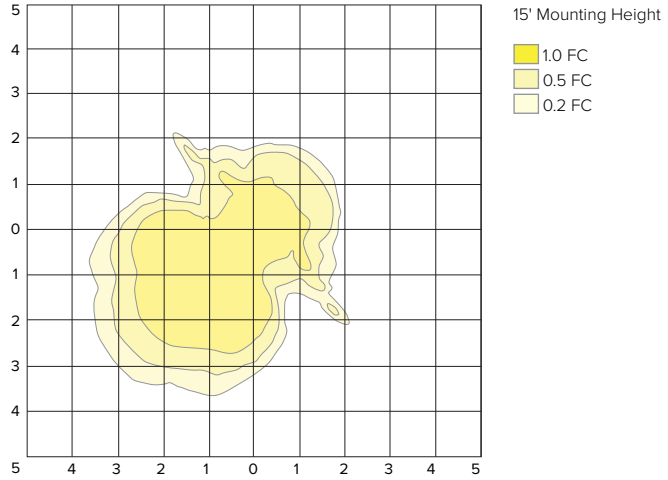
### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>13570</b>
Watts	<b>126.27</b>
Efficacy	<b>107.5</b>
IES Type	<b>R</b>
BUG Rating	<b>B2-U0-G2</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	11231	82.8%
Downward House Side	2339	17.2%
Downward Total	13570	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	13570	100%

### ISOFOOT CANDLE PLOT



AR2-54L-750-4K7-L

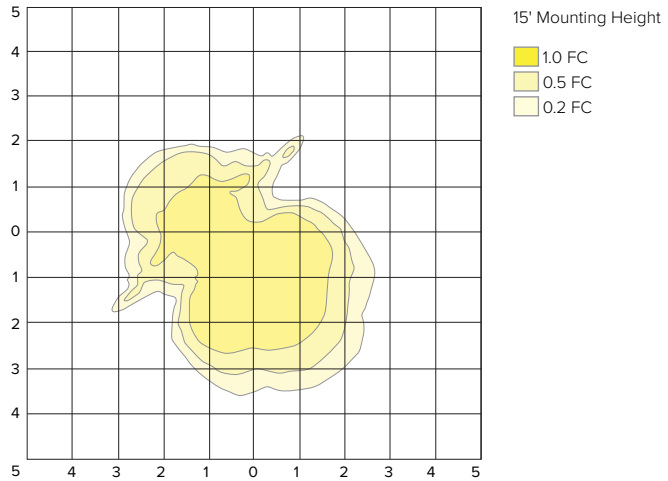
### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>13571</b>
Watts	<b>126.27</b>
Efficacy	<b>107.5</b>
IES Type	<b>L</b>
BUG Rating	<b>B2-U0-G2</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	11523	84.9%
Downward House Side	2048	15.1%
Downward Total	13571	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	13571	100%

### ISOFOOT CANDLE PLOT

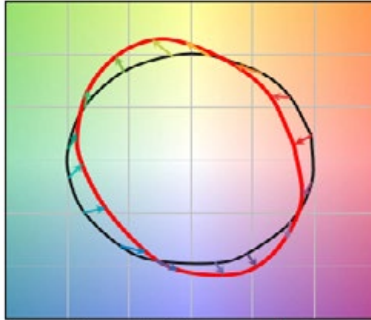


**ARK2**

ARCHITECTURAL AREA/SITE

**TM-30 DATA**

**COLOR VECTOR GRAPHIC**

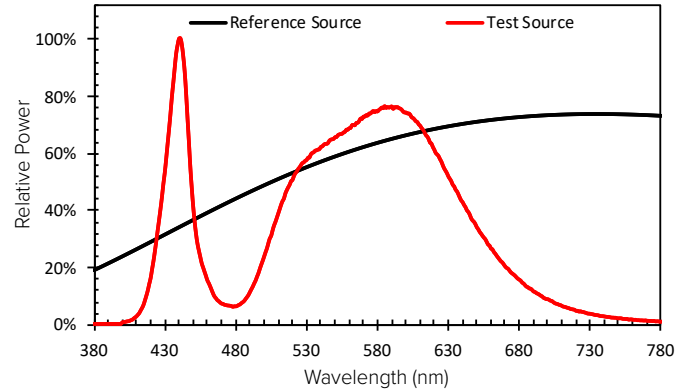


— Reference Illuminant — Test Source

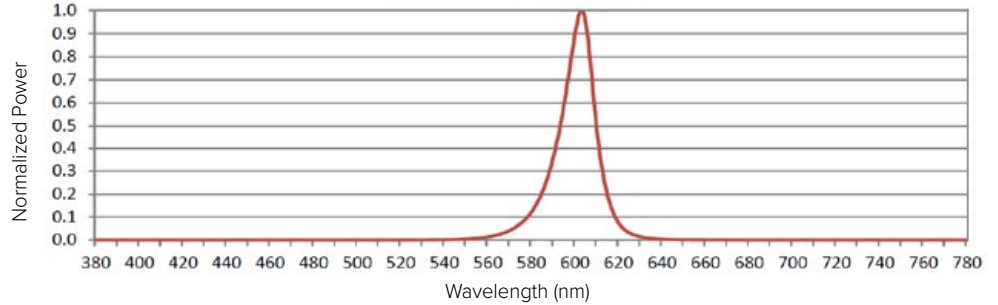
**TEST SOURCE**

R <sub>f</sub>	68
R <sub>a</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**



**AMBER SPECTRAL POWER DISTRIBUTION**



**ELECTRICAL DATA**

LED Count	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
54 LEDs	88.7	560 mA	120-480	50/60	0.74	0.43	0.37	0.32	0.26	0.18	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	126.3	750 mA			1.05	0.61	0.53	0.46	0.36	0.26							
81 LEDs	178.2	700 mA			1.49	0.86	0.74	0.64	0.51	0.37							

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%	94.22%	92.26%	89.84%	81.68%	>60khrs

CRI Lumen Multiplier for 80 and 90 CRI		
CCT	80 CRI	90 CRI
2700K	0.859	0.655
3000K	0.9119	.7033
3500K	0.906	0.732
4000K	0.8941	.734
5000K	0.879	.7712

Scaling factor of 5000K 70CRI lumen packages