

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529087

Luminaire Tested: **GALN-SA4B-727-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-727-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12166 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

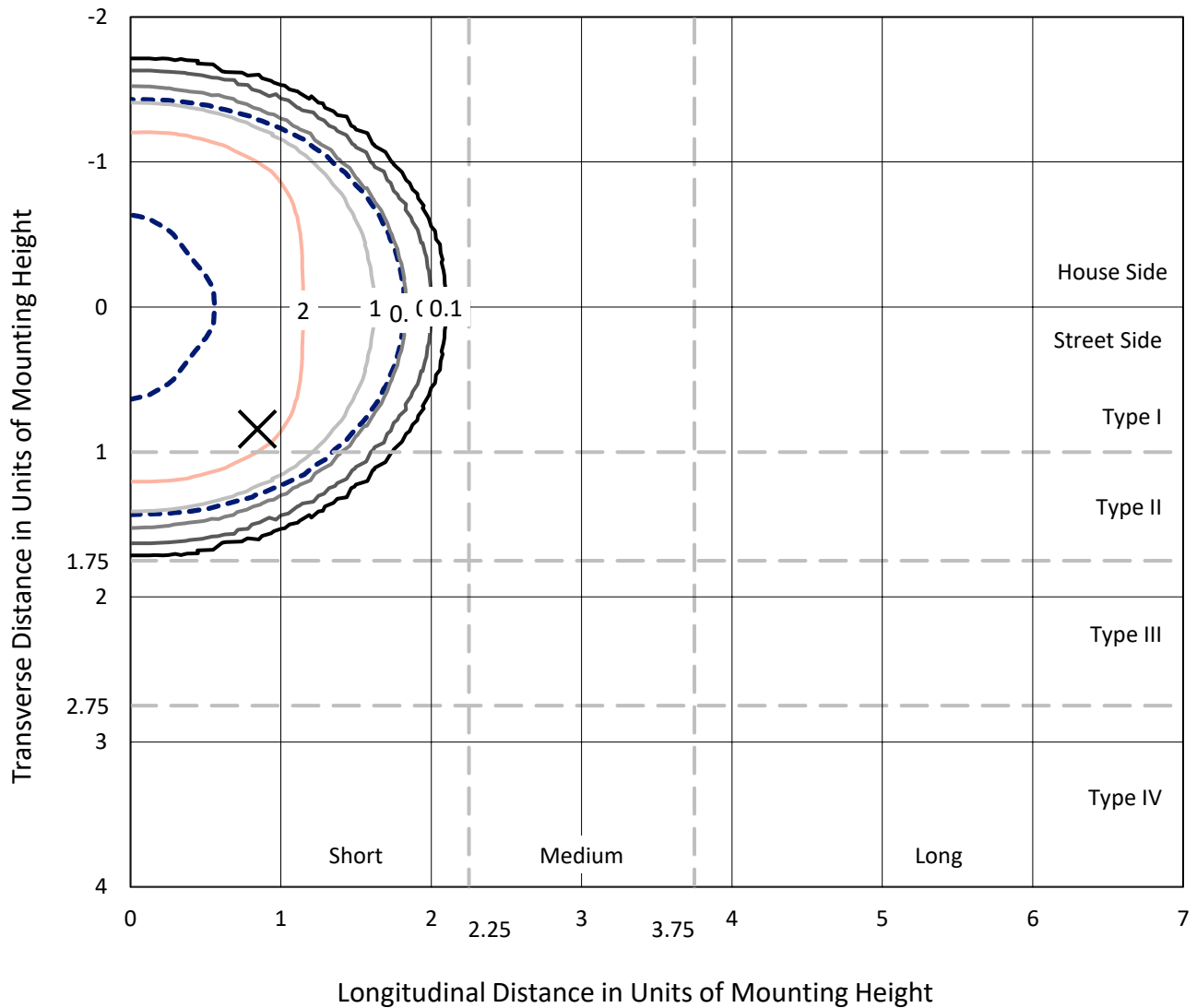
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

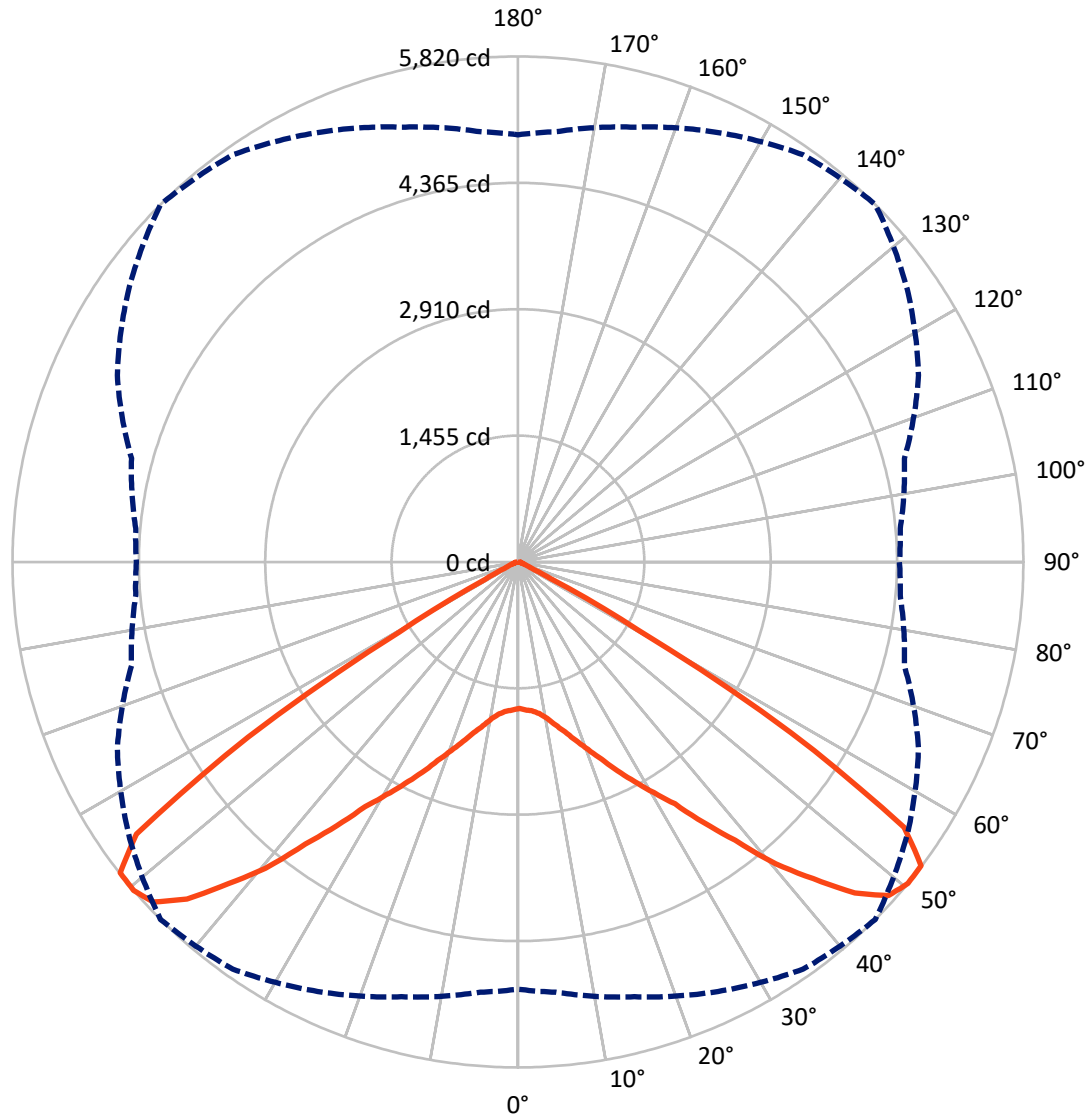
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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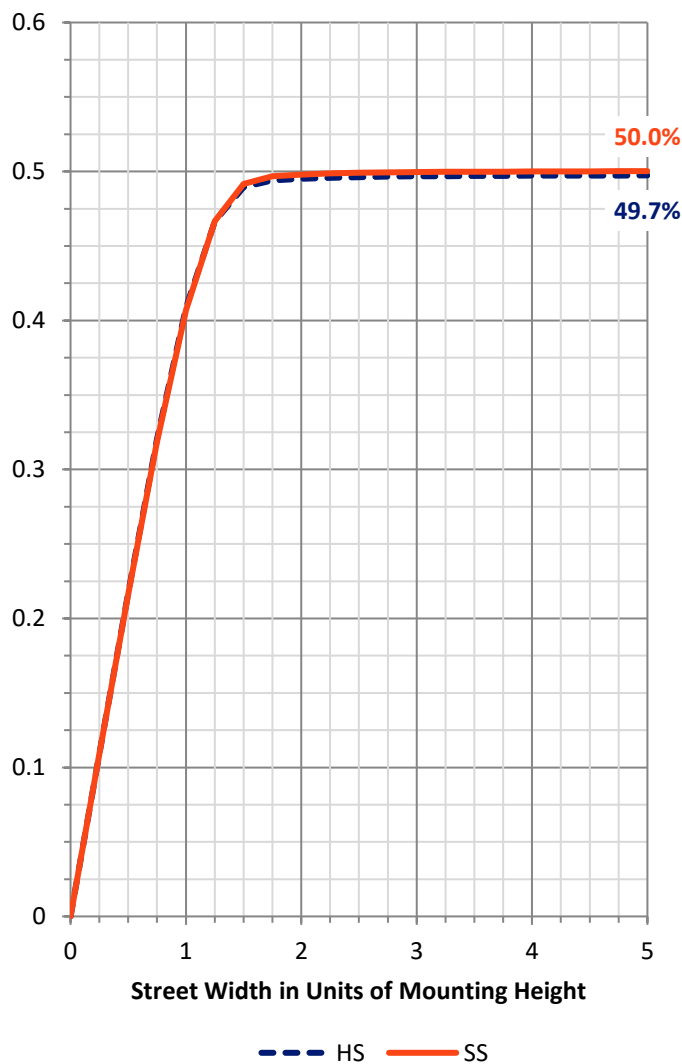
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6083.0	0.0	6083.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6083.0	0.0	6083.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12166.0	0.0	12166.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.8	1.4
10°-20°	578.3	4.8
20°-30°	1181.2	9.7
30°-40°	2252.5	18.5
40°-50°	3795.8	31.2
50°-60°	3620.0	29.8
60°-70°	505.3	4.2
70°-80°	48.3	0.4
80°-90°	16.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12166.0	100.0
0°-180°	12166.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P529087

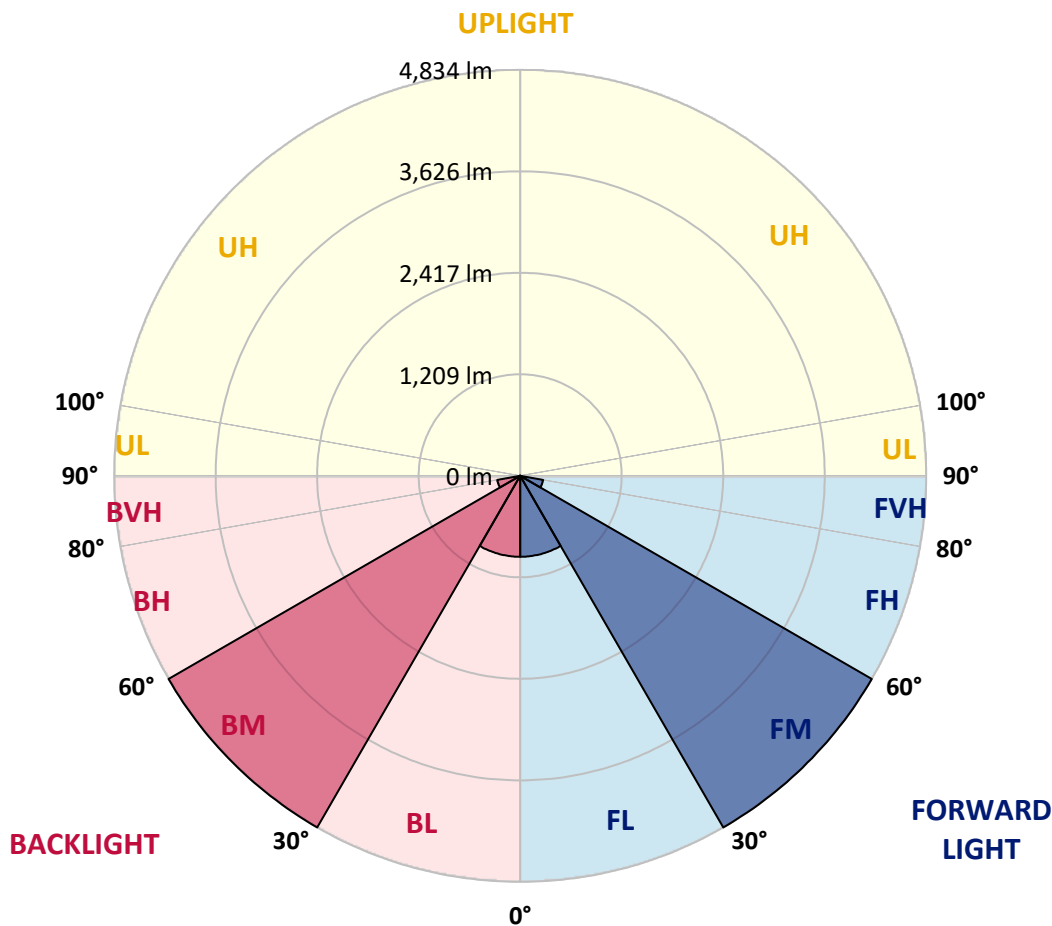
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	963.7	7.9			
FM (30°-60°)	4834.2	39.7			
FH (60°-80°)	276.8	2.3			G0/660
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	963.7	7.9	B2/1000		
BM (30°-60°)	4834.2	39.7	B3/5000		
BH (60°-80°)	276.8	2.3	B1/500		G0/660
BVH (80°-90°)	8.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1680.5	1680.5	1678.5	1694.9	1686.7	1705.1	1703.1	1709.2	1715.3	1713.3	1729.7
5°	1666.2	1664.2	1664.2	1682.6	1701.0	1721.5	1739.9	1752.2	1772.7	1772.7	1793.1
7.5°	1680.5	1670.3	1684.6	1692.8	1727.6	1762.4	1793.1	1817.7	1864.8	1881.1	1875.0
10°	1684.6	1696.9	1707.2	1731.7	1774.7	1827.9	1854.5	1915.9	1969.2	2006.0	2014.2
12.5°	1711.2	1729.7	1758.3	1817.7	1856.6	1926.2	1963.0	2022.4	2096.1	2137.0	2165.7
15°	1762.4	1768.6	1805.4	1881.1	1965.1	2028.5	2085.8	2128.8	2200.5	2247.5	2249.6
17.5°	1827.9	1854.5	1905.7	1977.3	2065.4	2159.5	2204.6	2251.6	2278.2	2341.7	2356.0
20°	1958.9	1963.0	2012.1	2106.3	2216.8	2302.8	2335.6	2360.1	2349.9	2415.4	2427.7
22.5°	2081.7	2085.8	2147.2	2274.2	2392.9	2466.6	2480.9	2466.6	2435.9	2482.9	2487.0
25°	2206.6	2243.5	2288.5	2415.4	2562.8	2661.0	2663.1	2624.2	2560.7	2568.9	2589.4
27.5°	2401.1	2427.7	2474.8	2591.4	2753.1	2863.7	2845.3	2798.2	2716.3	2722.4	2716.3
30°	2628.3	2652.8	2691.7	2841.2	2959.9	3080.7	3107.3	3062.2	2939.4	2912.8	2943.5
32.5°	2902.6	2937.4	3009.0	3146.2	3246.5	3320.1	3338.6	3322.2	3207.6	3197.3	3217.8
35°	3236.2	3283.3	3348.8	3469.6	3551.4	3684.5	3684.5	3629.2	3524.8	3537.1	3535.1
37.5°	3588.3	3657.9	3760.2	3883.1	3993.6	4065.2	4042.7	3995.6	3891.2	3864.6	3891.2
40°	4030.4	4065.2	4194.2	4353.9	4488.9	4570.8	4474.6	4372.3	4122.5	4161.4	4233.1
42.5°	4433.7	4488.9	4587.2	4763.2	4916.8	4984.3	4869.7	4667.0	4366.1	4335.4	4388.6
45°	4777.6	4836.9	4965.9	5217.7	5379.4	5438.7	5184.9	4857.4	4513.5	4435.7	4458.2
47.5°	5006.8	5037.5	5217.7	5457.2	5604.5	5739.6	5375.3	4988.4	4583.1	4435.7	4427.5
50°	4918.8	4972.0	5182.9	5455.1	5723.3	5819.5	5471.5	5088.7	4605.6	4417.3	4392.7
52.5°	4368.2	4460.3	4695.7	5062.1	5467.4	5811.3	5604.5	5056.0	4597.4	4435.7	4472.6
55°	3039.7	3041.8	3328.3	3868.7	4585.2	5395.7	5410.1	5092.8	4650.7	4550.4	4552.4
57.5°	1222.0	1283.4	1502.5	2044.9	2706.1	3705.0	4405.0	4724.3	4656.8	4632.2	4695.7
60°	309.1	311.1	378.7	577.2	951.8	1588.4	2306.9	3121.6	3594.4	3756.1	3778.7
62.5°	157.6	159.7	176.0	204.7	260.0	425.8	757.4	1201.6	1709.2	1967.1	2034.7
65°	129.0	129.0	139.2	153.5	155.6	163.8	196.5	280.4	407.3	462.6	468.8
67.5°	98.3	98.3	106.4	114.6	118.7	116.7	112.6	116.7	141.2	135.1	131.0
70°	61.4	63.5	67.5	75.7	79.8	81.9	83.9	88.0	100.3	104.4	100.3
72.5°	36.8	36.8	38.9	45.0	51.2	55.3	61.4	65.5	71.6	81.9	79.8
75°	16.4	16.4	20.5	26.6	32.8	38.9	45.0	51.2	55.3	61.4	63.5
77.5°	4.1	6.1	10.2	18.4	24.6	32.8	40.9	47.1	51.2	51.2	49.1
80°	2.0	2.0	8.2	14.3	26.6	34.8	45.0	49.1	55.3	51.2	45.0
82.5°	2.0	2.0	8.2	14.3	24.6	34.8	47.1	53.2	57.3	51.2	43.0
85°	0.0	2.0	6.1	12.3	20.5	24.6	20.5	14.3	8.2	8.2	6.1
87.5°	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)