

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: P529243

Luminaire Tested: **GALN-SA4B-827-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529243  
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-827-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 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: 10694 lumens  
Efficiency: N/A  
Efficacy: 65.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

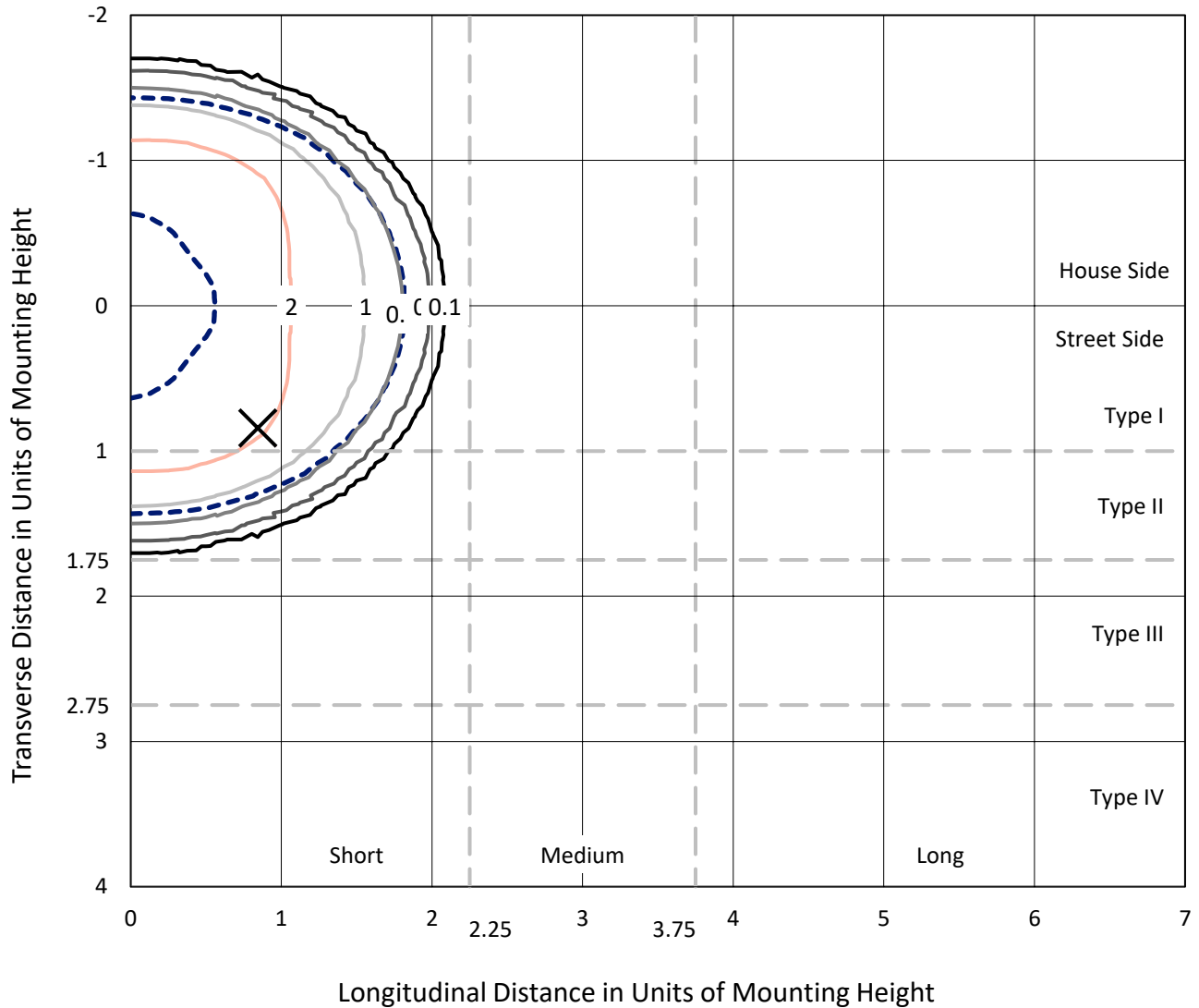
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

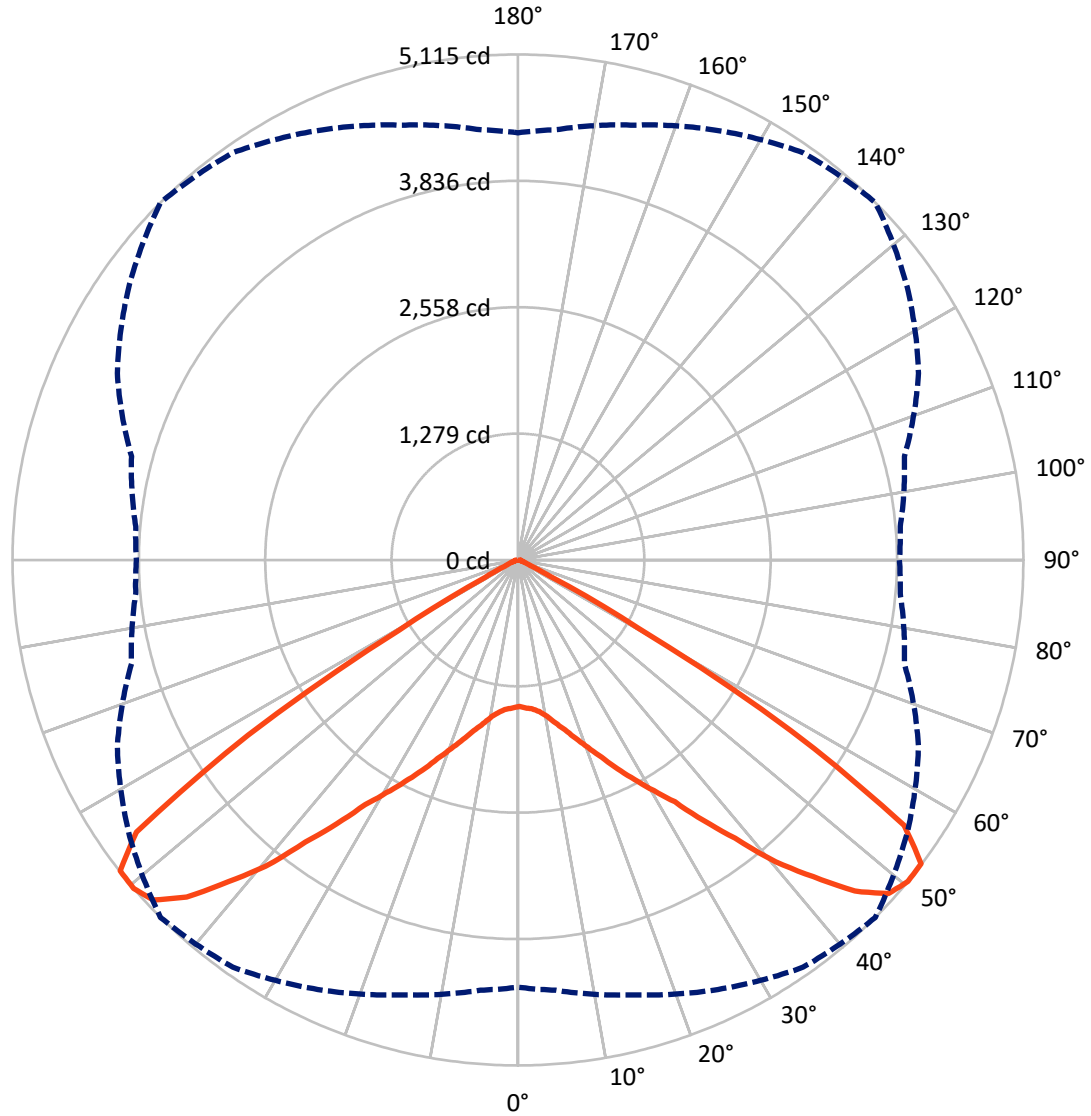
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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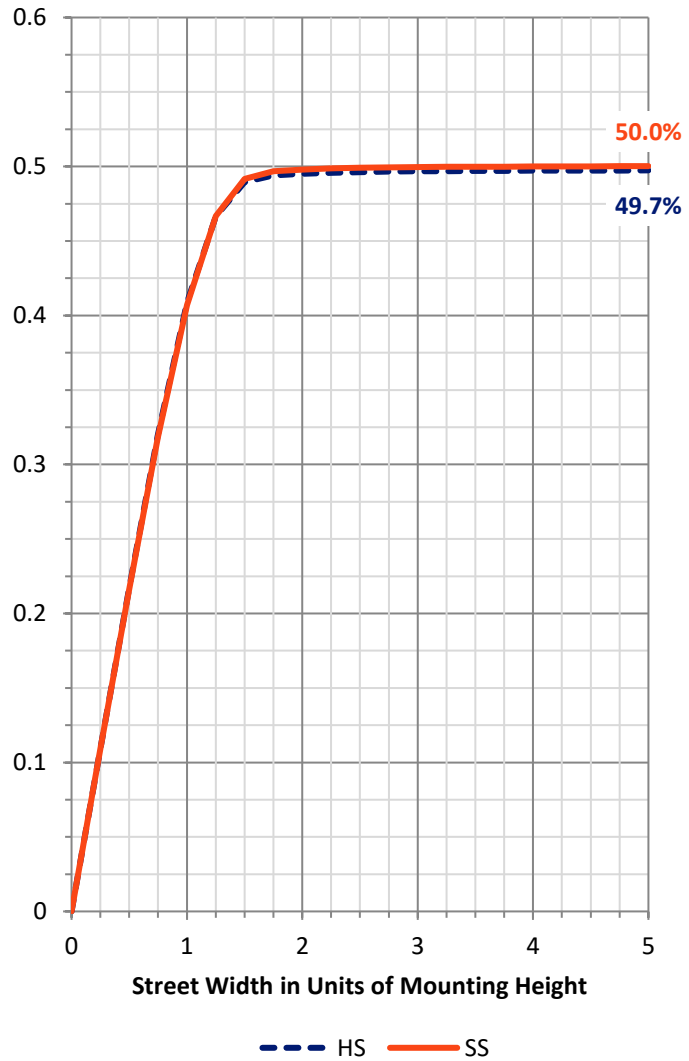
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5347.0	0.0	5347.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5347.0	0.0	5347.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10694.0	0.0	10694.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.5	1.4
10°-20°	508.4	4.8
20°-30°	1038.3	9.7
30°-40°	1980.0	18.5
40°-50°	3336.6	31.2
50°-60°	3182.0	29.8
60°-70°	444.2	4.2
70°-80°	42.5	0.4
80°-90°	14.7	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°	10694.0	100.0
0°-180°	10694.0	100.0

**Coefficient of Utilization**



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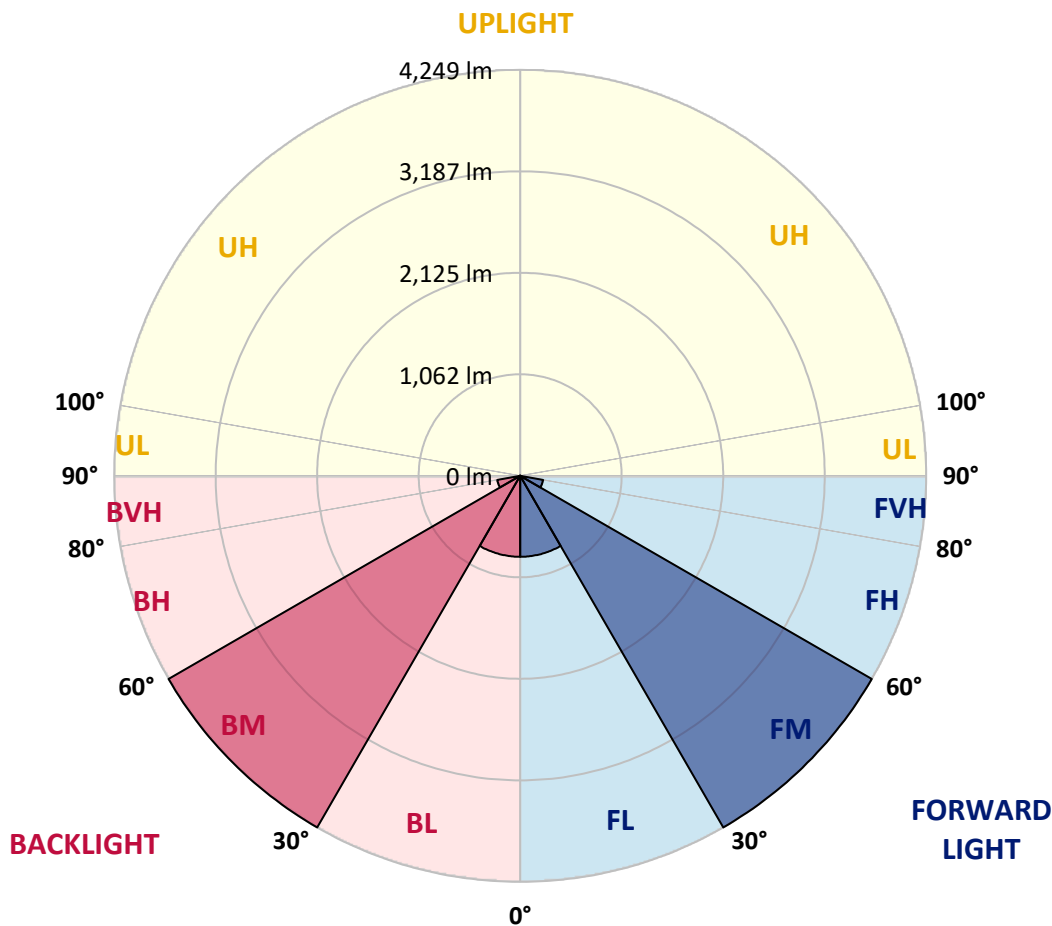
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.1	7.9			
FM (30°-60°)	4249.3	39.7			
FH (60°-80°)	243.3	2.3			G0/660
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	847.1	7.9	B2/1000		
BM (30°-60°)	4249.3	39.7	B3/5000		
BH (60°-80°)	243.3	2.3	B1/500		G0/660
BVH (80°-90°)	7.3	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°	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6
2.5°	1477.2	1477.2	1475.4	1489.8	1482.6	1498.8	1497.0	1502.4	1507.8	1506.0	1520.4
5°	1464.6	1462.8	1462.8	1479.0	1495.2	1513.2	1529.4	1540.2	1558.2	1558.2	1576.2
7.5°	1477.2	1468.2	1480.8	1488.0	1518.6	1549.2	1576.2	1597.8	1639.1	1653.5	1648.1
10°	1480.8	1491.6	1500.6	1522.2	1560.0	1606.8	1630.1	1684.1	1730.9	1763.3	1770.5
12.5°	1504.2	1520.4	1545.6	1597.8	1631.9	1693.1	1725.5	1777.7	1842.5	1878.4	1903.6
15°	1549.2	1554.6	1587.0	1653.5	1727.3	1783.1	1833.5	1871.2	1934.2	1975.6	1977.4
17.5°	1606.8	1630.1	1675.1	1738.1	1815.5	1898.2	1937.8	1979.2	2002.6	2058.4	2071.0
20°	1721.9	1725.5	1768.7	1851.5	1948.6	2024.2	2053.0	2074.6	2065.6	2123.1	2133.9
22.5°	1829.9	1833.5	1887.4	1999.0	2103.4	2168.1	2180.7	2168.1	2141.1	2182.5	2186.1
25°	1939.6	1972.0	2011.6	2123.1	2252.7	2339.1	2340.9	2306.7	2250.9	2258.1	2276.1
27.5°	2110.6	2133.9	2175.3	2277.9	2420.0	2517.2	2501.0	2459.6	2387.6	2393.0	2387.6
30°	2310.3	2331.9	2366.1	2497.4	2601.8	2707.9	2731.3	2691.7	2583.8	2560.4	2587.4
32.5°	2551.4	2582.0	2644.9	2765.5	2853.7	2918.4	2934.6	2920.2	2819.5	2810.5	2828.5
35°	2844.7	2886.0	2943.6	3049.8	3121.7	3238.7	3238.7	3190.1	3098.4	3109.2	3107.4
37.5°	3154.1	3215.3	3305.3	3413.2	3510.4	3573.4	3553.6	3512.2	3420.4	3397.0	3420.4
40°	3542.8	3573.4	3686.7	3827.1	3945.8	4017.8	3933.2	3843.3	3623.7	3657.9	3720.9
42.5°	3897.2	3945.8	4032.2	4186.9	4321.9	4381.2	4280.5	4102.4	3837.9	3810.9	3857.7
45°	4199.5	4251.7	4365.0	4586.4	4728.5	4780.7	4557.6	4269.7	3967.4	3899.0	3918.8
47.5°	4401.0	4428.0	4586.4	4796.9	4926.4	5045.2	4724.9	4384.8	4028.6	3899.0	3891.8
50°	4323.7	4370.4	4555.8	4795.1	5030.8	5115.3	4809.5	4473.0	4048.4	3882.8	3861.3
52.5°	3839.7	3920.6	4127.5	4449.6	4805.9	5108.2	4926.4	4444.2	4041.2	3899.0	3931.4
55°	2671.9	2673.7	2925.6	3400.6	4030.4	4742.9	4755.5	4476.6	4088.0	3999.8	4001.6
57.5°	1074.2	1128.1	1320.7	1797.5	2378.6	3256.7	3872.0	4152.7	4093.4	4071.8	4127.5
60°	271.7	273.5	332.9	507.4	836.7	1396.2	2027.8	2743.9	3159.5	3301.7	3321.5
62.5°	138.5	140.3	154.7	179.9	228.5	374.2	665.7	1056.2	1502.4	1729.1	1788.5
65°	113.4	113.4	122.4	134.9	136.7	143.9	172.7	246.5	358.1	406.6	412.0
67.5°	86.4	86.4	93.6	100.8	104.4	102.6	99.0	102.6	124.2	118.8	115.2
70°	54.0	55.8	59.4	66.6	70.2	72.0	73.8	77.4	88.2	91.8	88.2
72.5°	32.4	32.4	34.2	39.6	45.0	48.6	54.0	57.6	63.0	72.0	70.2
75°	14.4	14.4	18.0	23.4	28.8	34.2	39.6	45.0	48.6	54.0	55.8
77.5°	3.6	5.4	9.0	16.2	21.6	28.8	36.0	41.4	45.0	45.0	43.2
80°	1.8	1.8	7.2	12.6	23.4	30.6	39.6	43.2	48.6	45.0	39.6
82.5°	1.8	1.8	7.2	12.6	21.6	30.6	41.4	46.8	50.4	45.0	37.8
85°	0.0	1.8	5.4	10.8	18.0	21.6	18.0	12.6	7.2	7.2	5.4
87.5°	0.0	0.0	1.8	1.8	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)