

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: P527600

Luminaire Tested: **GALN-SA2C-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-827-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9361 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

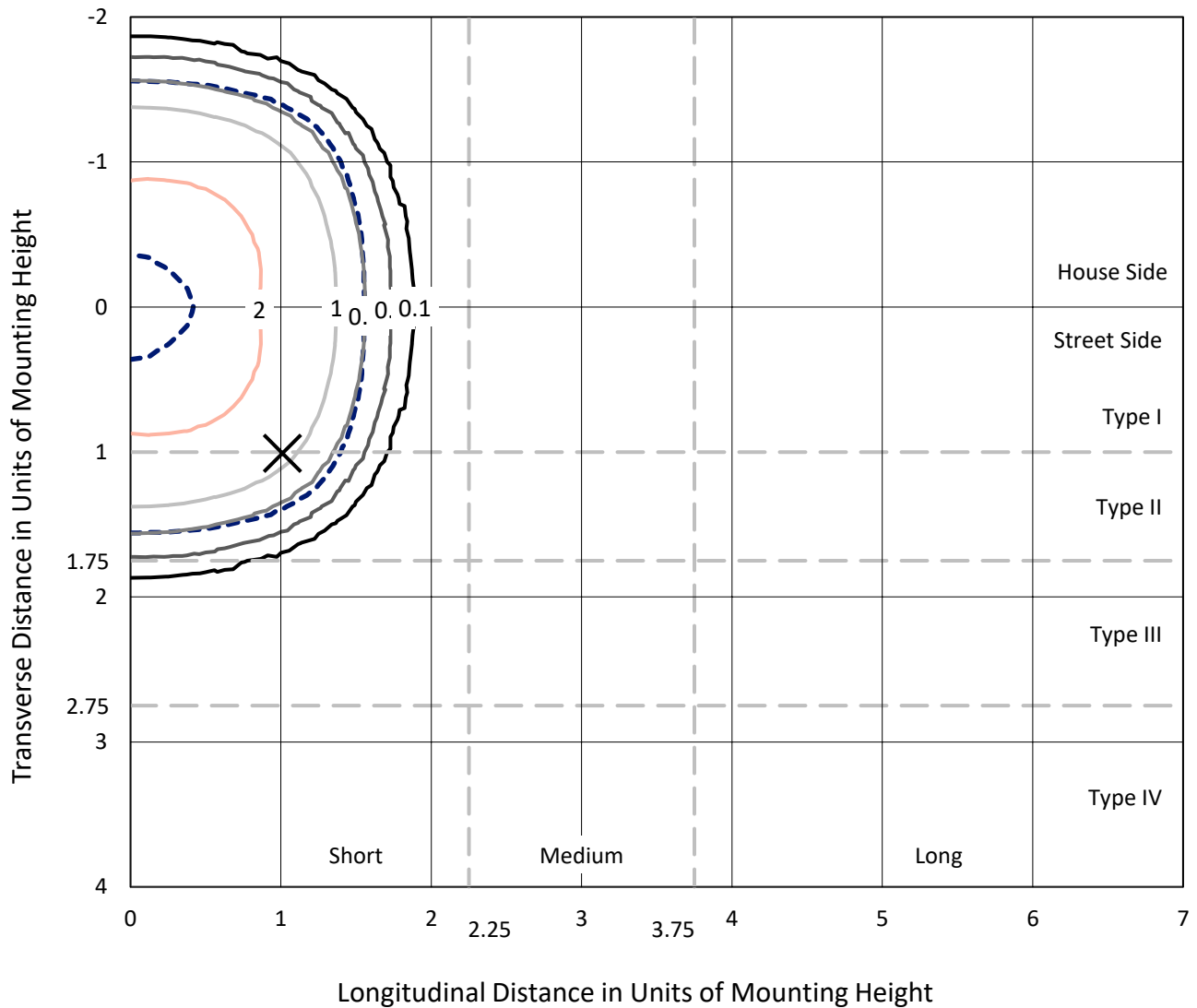
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

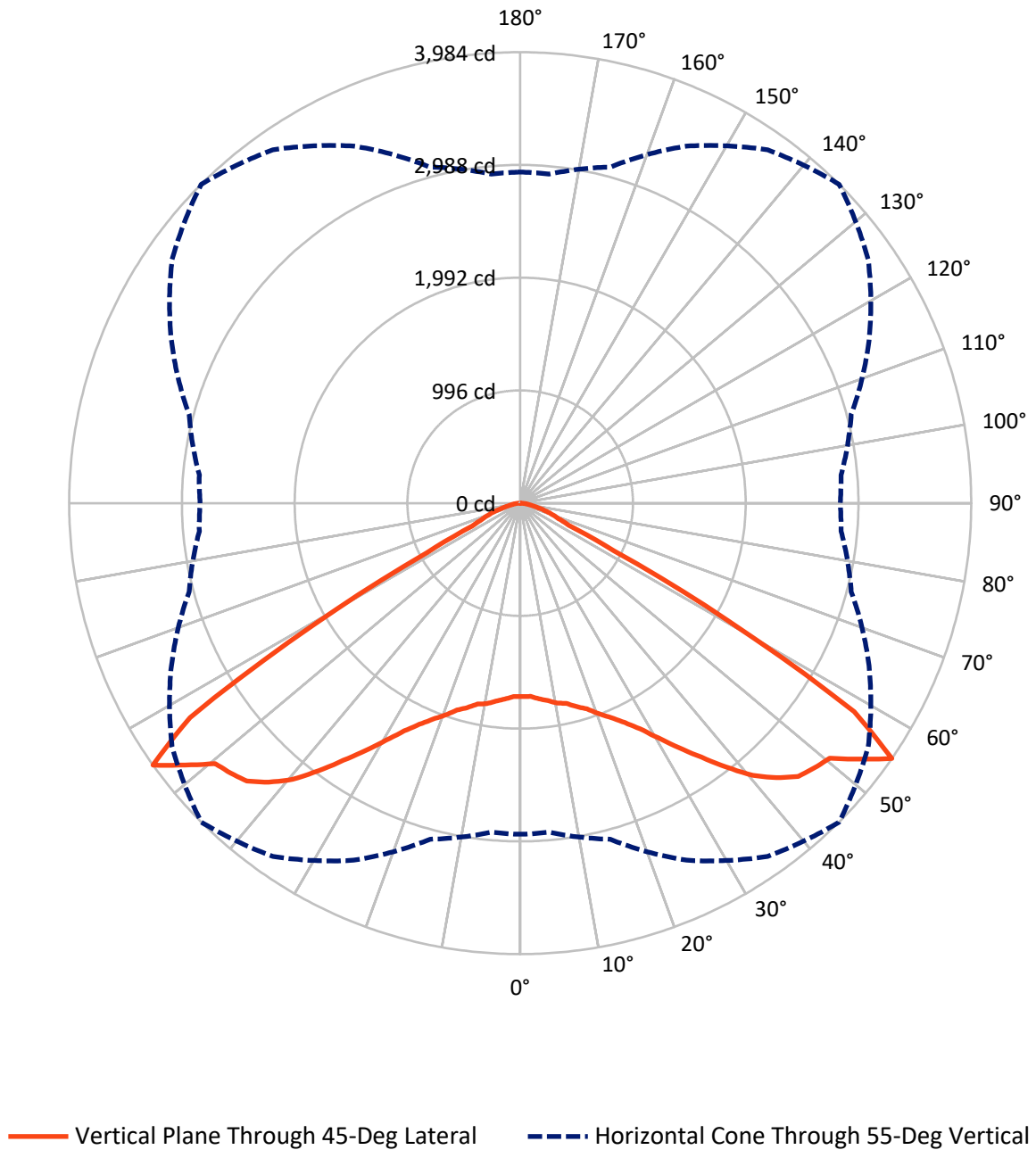
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4680.5	0.0	4680.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4680.5	0.0	4680.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9361.0	0.0	9361.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.0	1.8
10°-20°	529.0	5.7
20°-30°	986.5	10.5
30°-40°	1651.7	17.6
40°-50°	2570.2	27.5
50°-60°	2668.7	28.5
60°-70°	565.9	6.0
70°-80°	186.4	2.0
80°-90°	35.5	0.4
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°	9361.0	100.0
0°-180°	9361.0	100.0

**Coefficient of Utilization**



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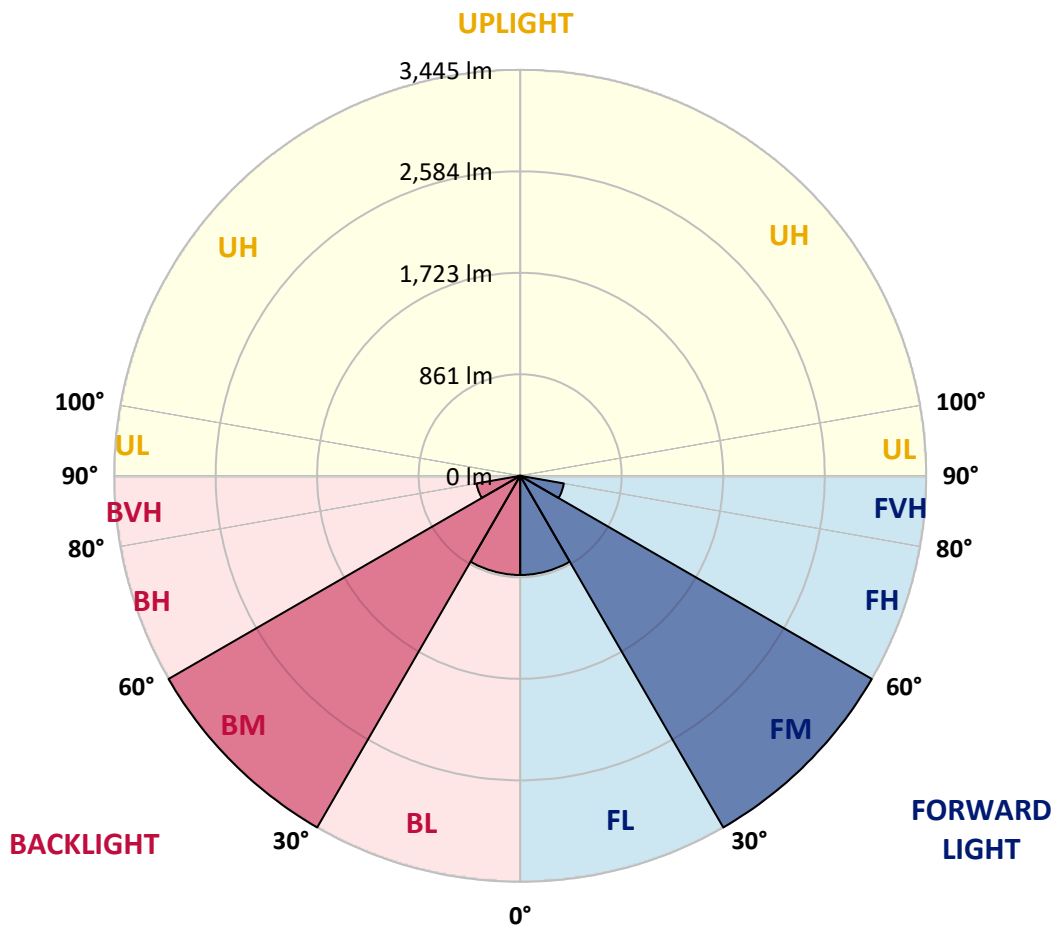
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	841.3	9.0			
FM (30°-60°)	3445.3	36.8			
FH (60°-80°)	376.2	4.0			G0/660
FVH (80°-90°)	17.8	0.2			G1/100
BL (0°-30°)	841.3	9.0	B2/1000		
BM (30°-60°)	3445.3	36.8	B3/5000		
BH (60°-80°)	376.2	4.0	B1/500		G0/660
BVH (80°-90°)	17.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2	1709.2
2.5°	1729.5	1721.6	1708.0	1718.2	1726.1	1709.2	1716.0	1719.4	1717.1	1708.0	1711.4
5°	1754.4	1749.9	1738.6	1746.5	1736.3	1736.3	1729.5	1720.5	1734.1	1731.8	1737.5
7.5°	1754.4	1748.8	1771.4	1756.7	1761.2	1761.2	1749.9	1740.9	1747.6	1737.5	1731.8
10°	1789.5	1797.4	1787.2	1790.6	1788.4	1796.3	1779.3	1773.7	1768.0	1764.6	1757.8
12.5°	1831.3	1825.7	1829.1	1826.8	1834.7	1814.4	1804.2	1791.8	1801.9	1787.2	1797.4
15°	1865.3	1861.9	1865.3	1874.3	1866.4	1865.3	1847.2	1834.7	1818.9	1822.3	1806.5
17.5°	1911.7	1908.3	1909.4	1917.3	1916.2	1910.5	1897.0	1873.2	1867.5	1858.5	1848.3
20°	1980.7	1975.0	1972.7	1976.1	1981.8	1986.3	1959.2	1950.1	1930.9	1916.2	1899.2
22.5°	2039.5	2037.2	2046.3	2031.6	2044.0	2057.6	2031.6	2027.0	1979.5	1971.6	1953.5
25°	2120.9	2117.5	2111.9	2133.4	2148.1	2146.9	2122.1	2097.2	2061.0	2051.9	2051.9
27.5°	2206.9	2187.7	2217.1	2222.7	2248.7	2256.7	2235.2	2199.0	2165.0	2145.8	2150.3
30°	2314.3	2296.2	2303.0	2343.8	2377.7	2407.1	2352.8	2299.6	2252.1	2218.2	2212.5
32.5°	2421.8	2403.7	2424.1	2463.7	2531.5	2575.6	2522.5	2429.7	2374.3	2324.5	2334.7
35°	2508.9	2522.5	2555.3	2615.2	2685.4	2756.6	2671.8	2600.5	2521.4	2465.9	2473.8
37.5°	2649.2	2691.0	2717.0	2786.0	2885.6	2959.1	2870.9	2778.1	2693.3	2620.9	2596.0
40°	2832.4	2860.7	2890.1	2971.6	3089.2	3162.7	3079.0	2958.0	2874.3	2799.6	2796.2
42.5°	3033.8	3060.9	3091.5	3191.0	3261.1	3316.6	3239.6	3175.2	3082.4	3023.6	3020.2
45°	3267.9	3248.7	3282.6	3348.2	3407.0	3443.2	3393.5	3361.8	3295.1	3240.8	3235.1
47.5°	3424.0	3407.0	3468.1	3526.9	3536.0	3496.4	3506.6	3536.0	3465.9	3376.5	3404.8
50°	3514.5	3514.5	3555.2	3609.5	3592.6	3541.7	3622.0	3624.2	3554.1	3474.9	3474.9
52.5°	3357.3	3392.3	3507.7	3685.3	3741.9	3756.6	3738.5	3661.6	3478.3	3316.6	3308.6
55°	2925.2	2917.3	3073.4	3480.6	3809.7	3983.9	3753.2	3399.1	3027.0	2844.9	2826.8
57.5°	1902.6	1911.7	2144.7	2559.8	3153.7	3478.3	3089.2	2591.5	2144.7	1893.6	1917.3
60°	856.3	886.8	1028.2	1338.2	1848.3	2113.0	1852.8	1406.0	1079.1	936.6	949.0
62.5°	492.1	497.7	503.4	597.3	787.3	930.9	817.8	631.2	556.5	531.6	531.6
65°	415.1	411.7	412.9	420.8	441.2	470.6	458.1	441.2	443.4	441.2	437.8
67.5°	352.9	357.4	354.1	359.7	360.8	365.4	373.3	380.1	381.2	383.5	381.2
70°	289.6	290.7	293.0	297.5	298.6	302.0	313.3	319.0	322.4	322.4	326.9
72.5°	221.7	220.6	222.8	227.4	233.0	234.1	244.3	252.2	256.8	251.1	252.2
75°	145.9	147.1	150.4	153.8	161.8	169.7	173.1	181.0	182.1	184.4	178.7
77.5°	87.1	89.4	92.8	99.5	106.3	113.1	121.0	126.7	129.0	126.7	119.9
80°	56.6	56.6	61.1	66.7	74.7	80.3	84.8	89.4	92.8	89.4	87.1
82.5°	35.1	35.1	40.7	47.5	53.2	56.6	63.3	69.0	72.4	70.1	66.7
85°	18.1	19.2	23.8	29.4	33.9	36.2	35.1	31.7	28.3	27.1	24.9
87.5°	5.7	5.7	6.8	6.8	5.7	5.7	6.8	5.7	6.8	6.8	6.8
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)