

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: P646773

Luminaire Tested: **GALN-SA2C-835-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11421.6 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

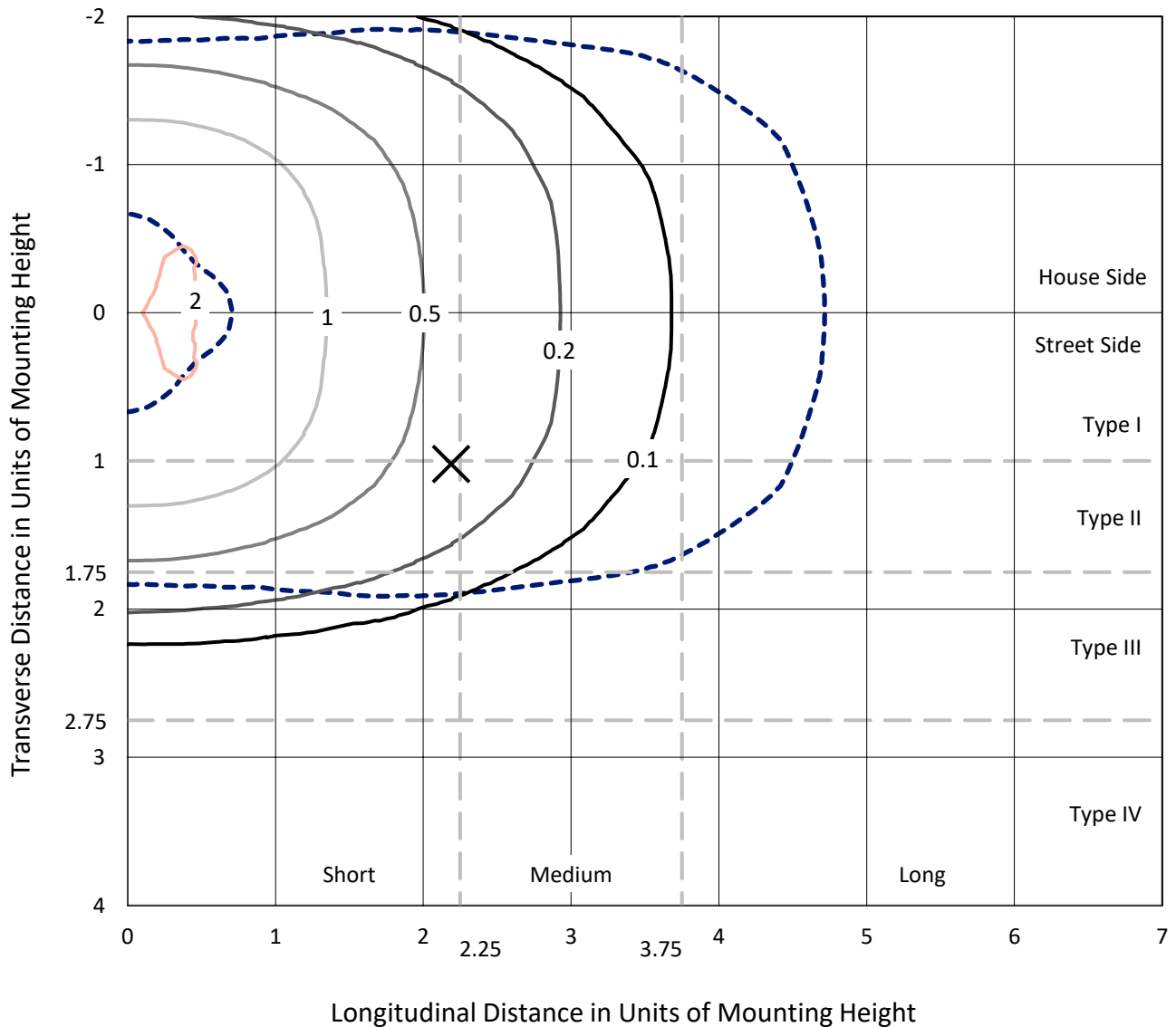
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

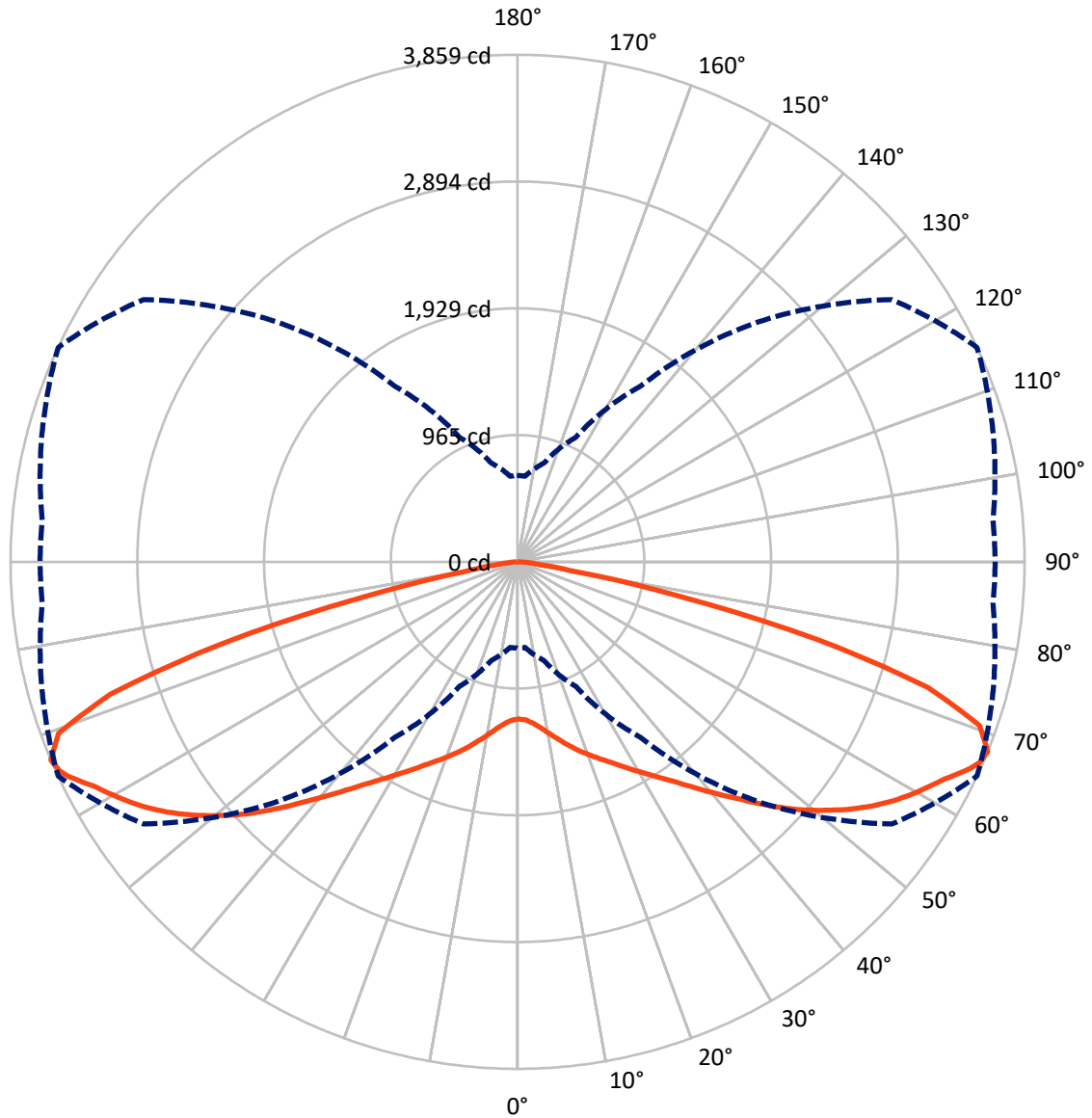
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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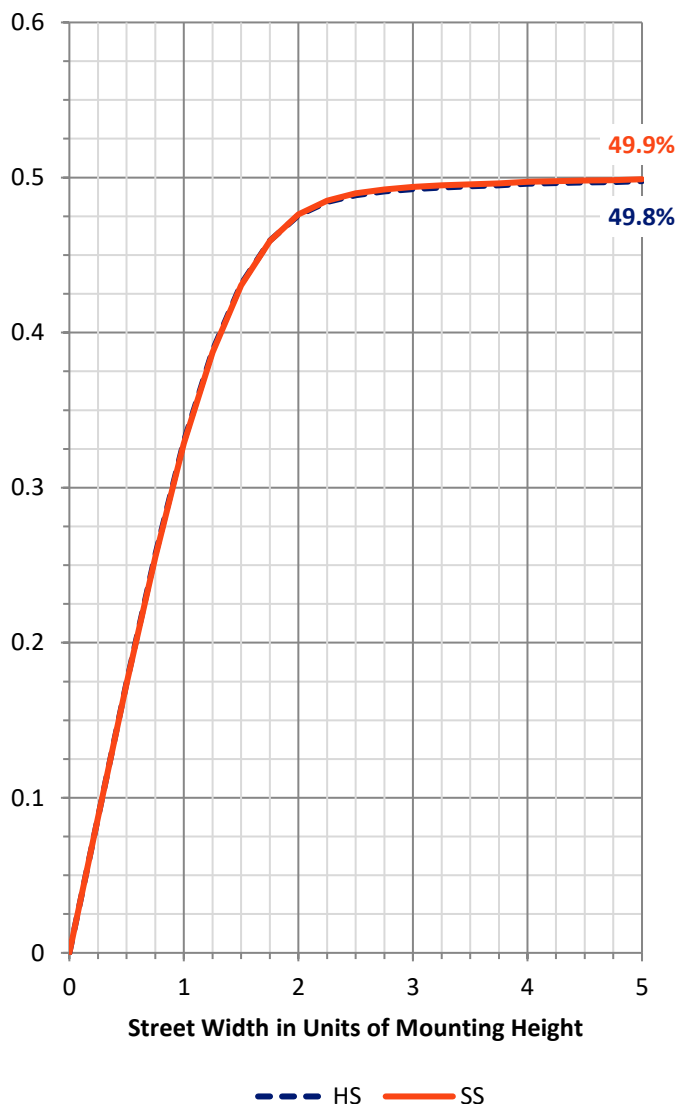
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5710.8	0.0	5710.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5710.8	0.0	5710.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11421.6	0.0	11421.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.0	1.0
10°-20°	394.9	3.5
20°-30°	772.4	6.8
30°-40°	1313.8	11.5
40°-50°	2079.4	18.2
50°-60°	2757.2	24.1
60°-70°	2600.9	22.8
70°-80°	1285.8	11.3
80°-90°	99.1	0.9
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°	11421.6	100.0
0°-180°	11421.6	100.0

**Coefficient of Utilization**

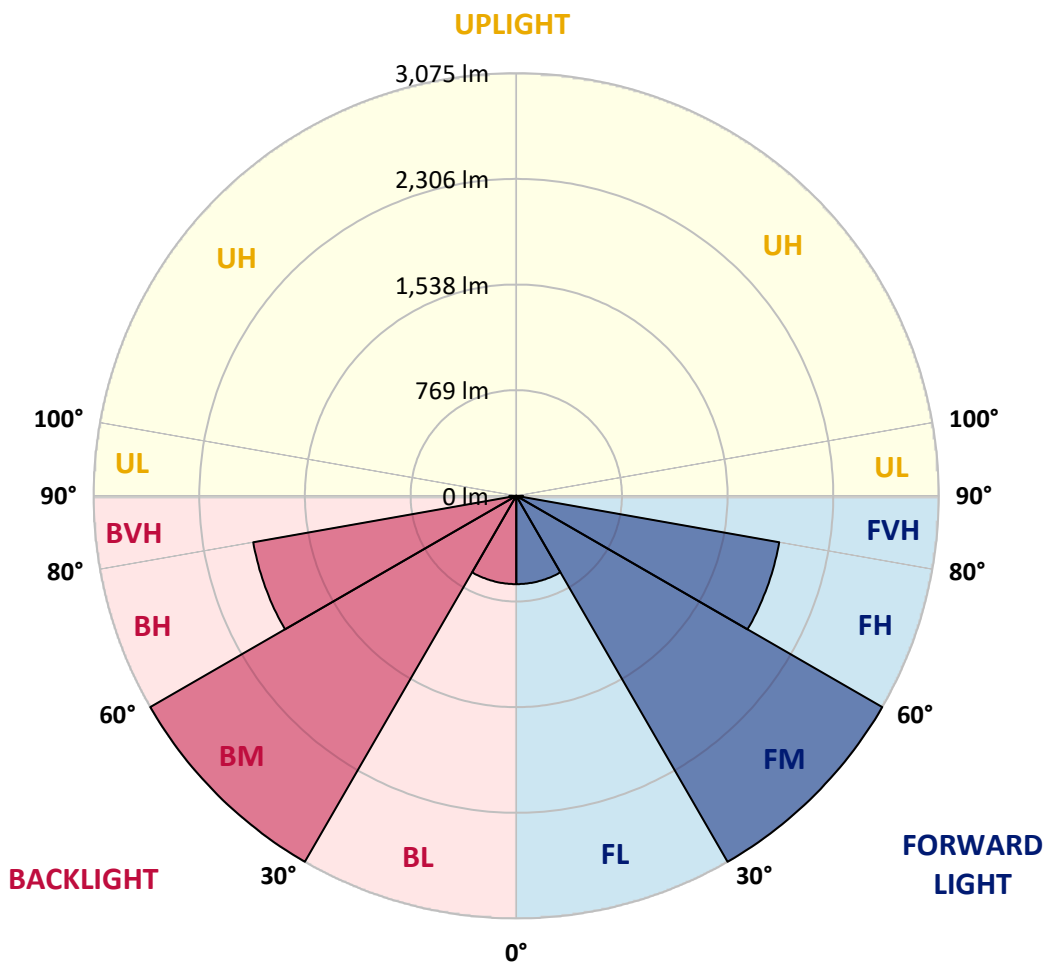


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	642.7	5.6			
FM (30°-60°)	3075.2	26.9			
FH (60°-80°)	1943.4	17.0			G2/5000
FVH (80°-90°)	49.5	0.4			G1/100
BL (0°-30°)	642.7	5.6	B2/1000		
BM (30°-60°)	3075.2	26.9	B3/5000		
BH (60°-80°)	1943.4	17.0	B3/2500		G3/2500
BVH (80°-90°)	49.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1196.3	1196.3	1196.3	1196.3	1196.3	1196.3	1196.3	1196.3	1196.3	1196.3	1196.3
2.5°	1190.2	1191.4	1192.7	1194.5	1196.9	1200.6	1203.1	1204.9	1209.8	1210.4	1209.8
5°	1185.9	1187.1	1190.2	1195.7	1203.6	1214.7	1223.2	1233.6	1241.6	1247.1	1245.9
7.5°	1185.3	1187.7	1192.7	1204.3	1219.6	1238.5	1258.1	1275.9	1291.2	1303.4	1301.6
10°	1195.1	1198.1	1206.1	1223.2	1247.1	1274.6	1302.2	1328.5	1350.5	1366.4	1372.0
12.5°	1211.6	1214.0	1228.8	1254.4	1288.7	1323.0	1354.2	1386.6	1417.2	1444.2	1444.2
15°	1240.4	1244.7	1263.0	1300.3	1342.5	1382.3	1414.2	1448.4	1481.4	1512.1	1521.2
17.5°	1280.1	1286.2	1313.8	1361.6	1415.4	1452.1	1482.1	1510.3	1539.0	1568.3	1572.7
20°	1334.6	1340.7	1377.5	1434.9	1498.6	1542.7	1562.9	1569.6	1583.7	1611.8	1615.5
22.5°	1408.6	1414.8	1455.8	1520.7	1591.6	1639.4	1647.9	1632.0	1628.3	1650.3	1652.8
25°	1492.5	1498.0	1545.1	1614.9	1688.3	1740.3	1737.9	1698.7	1676.6	1690.1	1693.8
27.5°	1586.7	1594.7	1642.4	1714.6	1794.2	1840.0	1832.7	1775.8	1728.7	1726.3	1727.5
30°	1707.3	1715.9	1761.1	1830.3	1908.6	1950.8	1935.5	1859.0	1786.2	1761.8	1761.8
32.5°	1834.6	1855.9	1901.8	1974.1	2035.3	2065.9	2042.6	1950.8	1854.1	1819.8	1818.0
35°	2000.4	2012.0	2057.3	2127.6	2173.5	2197.4	2152.8	2054.2	1942.9	1902.5	1897.0
37.5°	2162.6	2172.4	2225.0	2292.3	2348.0	2346.7	2286.1	2177.2	2053.0	2007.7	2004.1
40°	2328.4	2338.7	2398.7	2460.6	2516.2	2511.3	2437.9	2316.1	2183.9	2133.2	2143.0
42.5°	2472.2	2483.8	2551.7	2639.9	2690.0	2688.8	2603.7	2466.7	2329.0	2283.7	2292.3
45°	2603.2	2613.5	2692.5	2793.4	2866.9	2876.0	2783.0	2638.0	2496.7	2438.5	2441.0
47.5°	2695.6	2715.1	2797.7	2913.4	3013.1	3045.6	2954.3	2812.4	2649.7	2589.1	2592.7
50°	2765.9	2778.2	2868.1	2999.7	3125.7	3193.0	3119.6	2974.0	2802.6	2738.4	2746.9
52.5°	2774.5	2789.1	2887.1	3038.8	3200.4	3302.5	3266.4	3131.8	2958.6	2892.6	2911.0
55°	2704.7	2713.3	2830.2	3014.3	3229.7	3384.0	3393.1	3278.7	3107.3	3057.1	3069.4
57.5°	2505.8	2527.8	2676.0	2899.9	3189.4	3427.4	3488.0	3412.1	3257.9	3208.3	3227.9
60°	2179.7	2201.7	2350.4	2634.3	3037.0	3407.2	3566.3	3530.2	3394.4	3354.6	3364.9
62.5°	1707.9	1706.1	1890.2	2238.4	2734.1	3308.1	3624.4	3644.0	3529.0	3478.8	3494.7
65°	1107.0	1112.5	1290.5	1665.7	2277.0	3056.0	3637.3	3789.0	3661.2	3585.3	3596.9
66°	890.3	906.9	1058.0	1403.8	2043.9	2890.8	3598.7	3831.8	3701.6	3609.8	3615.3
67.5°	657.2	654.1	778.4	1045.1	1632.0	2576.9	3478.2	3858.8	3747.4	3631.8	3634.2
70°	375.1	374.5	418.6	574.0	959.5	1814.4	2931.7	3729.7	3840.5	3711.3	3704.6
72.5°	274.1	272.3	278.4	317.0	468.2	916.0	2022.4	3259.7	3792.7	3698.5	3679.5
75°	230.0	228.9	227.6	232.6	262.5	414.9	1073.3	2344.9	3290.9	3471.4	3451.9
77.5°	187.8	187.8	188.5	187.2	188.5	218.5	444.9	1256.9	2004.1	2237.2	2291.7
80°	146.9	146.3	156.7	152.4	142.6	140.2	197.0	404.5	665.2	661.5	545.8
82.5°	108.3	100.9	119.3	116.3	105.2	89.3	115.0	172.6	222.1	144.4	107.1
85°	68.5	67.9	84.4	77.1	64.3	42.2	55.0	74.1	91.8	55.7	45.3
87.5°	12.2	11.6	26.9	19.6	19.6	12.2	15.3	20.2	30.0	20.8	15.3
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)