

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: P451732

Luminaire Tested: **GALN-SA2C-827-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451732  
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-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10723 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

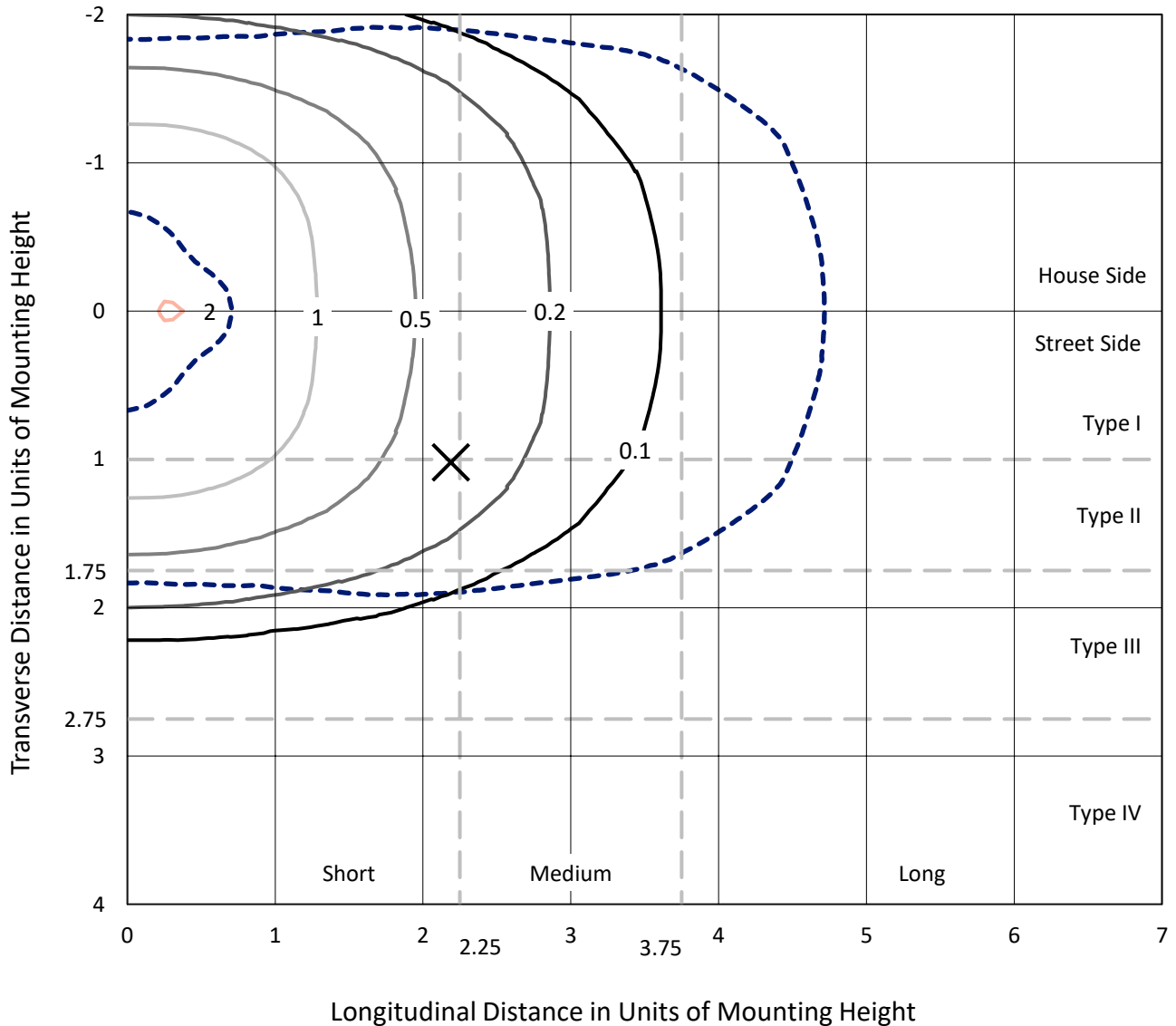
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

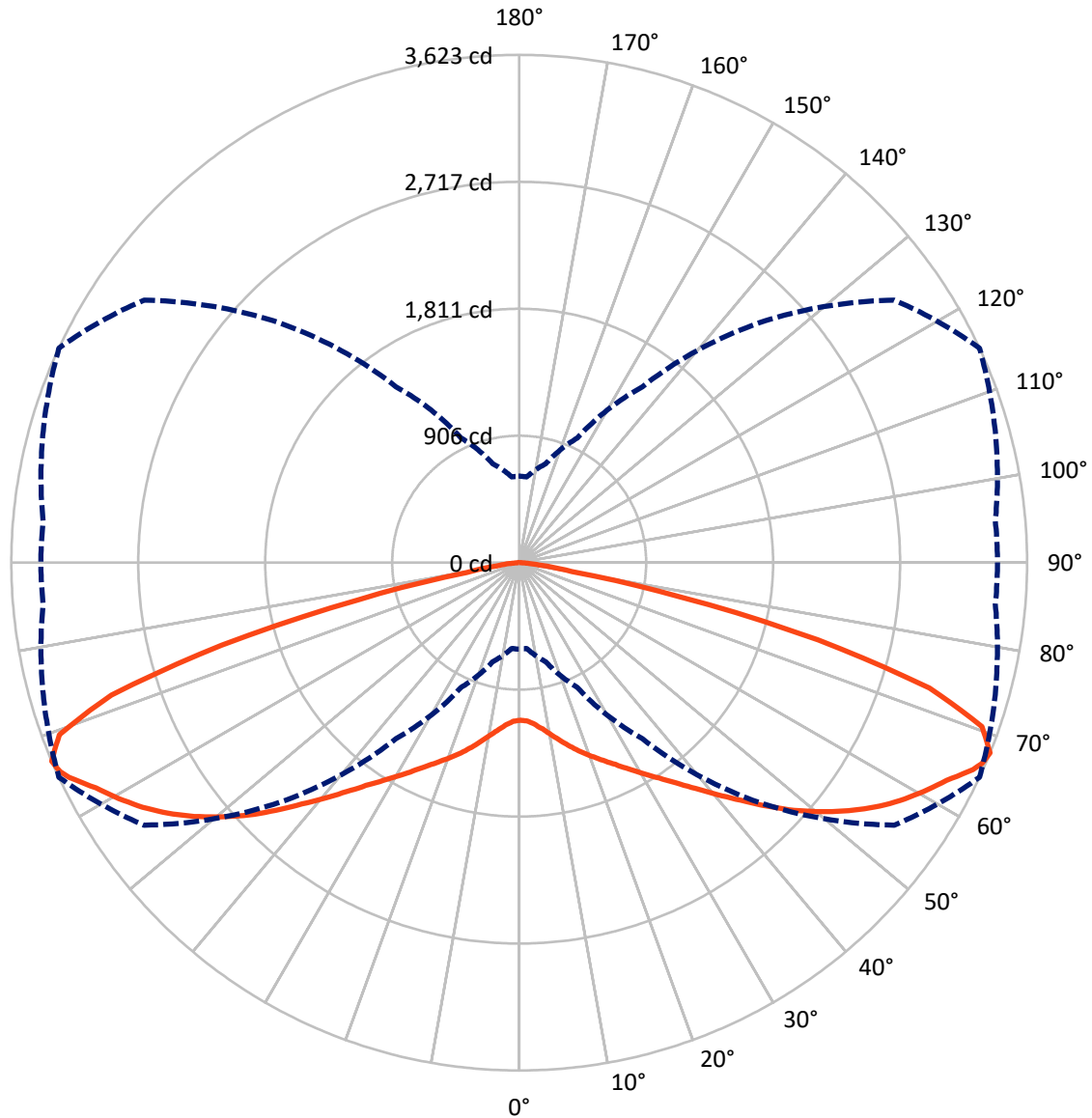
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	5361.5	0.0	5361.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5361.5	0.0	5361.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10723.0	0.0	10723.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.8	1.0
10°-20°	370.7	3.5
20°-30°	725.2	6.8
30°-40°	1233.5	11.5
40°-50°	1952.2	18.2
50°-60°	2588.6	24.1
60°-70°	2441.8	22.8
70°-80°	1207.1	11.3
80°-90°	93.0	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°	10723.0	100.0
0°-180°	10723.0	100.0



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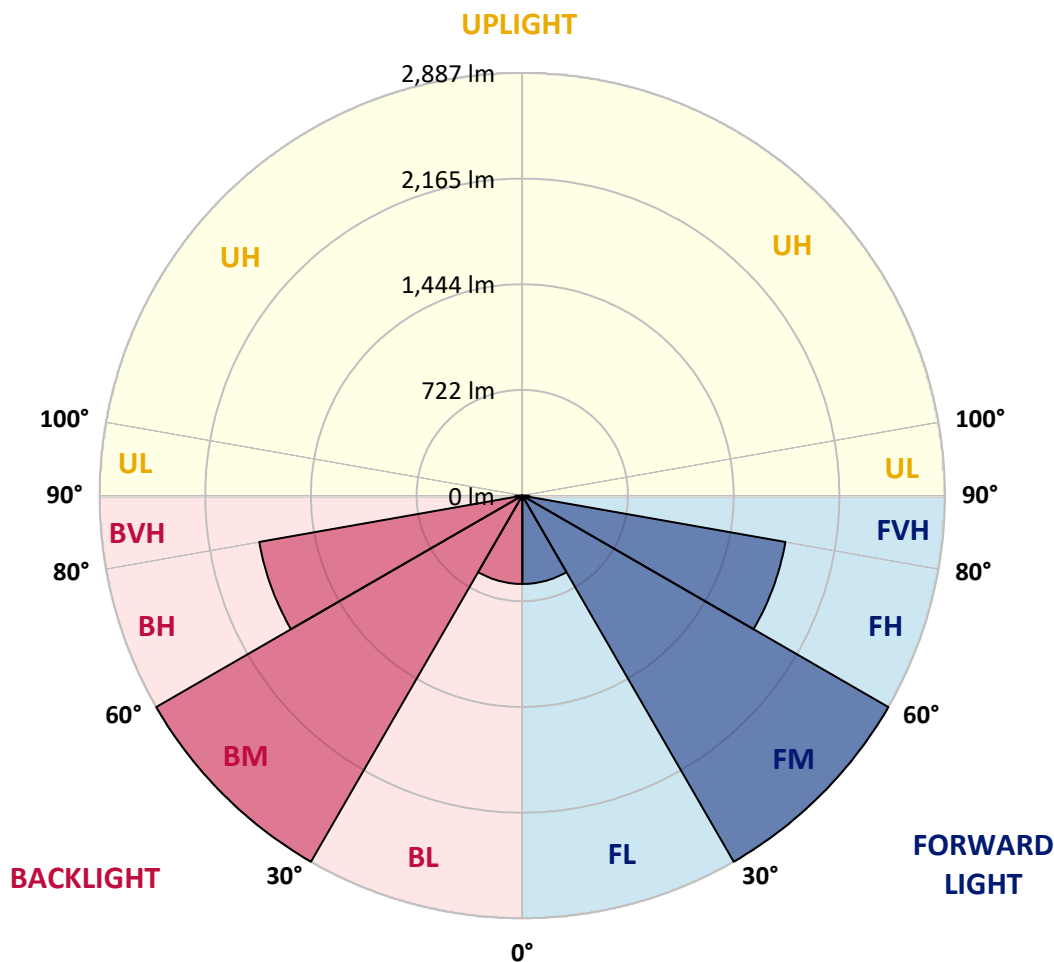
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	603.4	5.6			
FM (30°-60°)	2887.1	26.9			
FH (60°-80°)	1824.5	17.0			G2/5000
FVH (80°-90°)	46.5	0.4			G1/100
BL (0°-30°)	603.4	5.6	B2/1000		
BM (30°-60°)	2887.1	26.9	B3/5000		
BH (60°-80°)	1824.5	17.0	B3/2500		G3/2500
BVH (80°-90°)	46.5	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°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
2.5°	1117.4	1118.5	1119.7	1121.4	1123.7	1127.2	1129.5	1131.2	1135.8	1136.4	1135.8
5°	1113.4	1114.5	1117.4	1122.6	1130.0	1140.4	1148.4	1158.2	1165.7	1170.8	1169.7
7.5°	1112.8	1115.1	1119.7	1130.6	1145.0	1162.8	1181.2	1197.8	1212.2	1223.7	1222.0
10°	1122.0	1124.9	1132.3	1148.4	1170.8	1196.7	1222.5	1247.2	1267.9	1282.8	1288.0
12.5°	1137.5	1139.8	1153.6	1177.7	1209.9	1242.1	1271.4	1301.8	1330.5	1355.8	1355.8
15°	1164.5	1168.5	1185.8	1220.8	1260.4	1297.8	1327.7	1359.8	1390.9	1419.6	1428.2
17.5°	1201.8	1207.6	1233.4	1278.3	1328.8	1363.3	1391.4	1417.9	1444.9	1472.4	1476.5
20°	1253.0	1258.7	1293.2	1347.2	1406.9	1448.3	1467.3	1473.6	1486.8	1513.2	1516.7
22.5°	1322.5	1328.2	1366.7	1427.6	1494.3	1539.1	1547.1	1532.2	1528.7	1549.4	1551.7
25°	1401.2	1406.4	1450.6	1516.1	1585.0	1633.9	1631.6	1594.8	1574.1	1586.8	1590.2
27.5°	1489.7	1497.1	1541.9	1609.7	1684.4	1727.5	1720.6	1667.2	1623.0	1620.7	1621.8
30°	1602.8	1610.9	1653.4	1718.3	1791.9	1831.5	1817.1	1745.3	1677.0	1654.0	1654.0
32.5°	1722.3	1742.4	1785.5	1853.3	1910.8	1939.5	1917.7	1831.5	1740.7	1708.6	1706.8
35°	1878.0	1888.9	1931.5	1997.5	2040.6	2063.0	2021.1	1928.6	1824.0	1786.1	1780.9
37.5°	2030.3	2039.5	2088.9	2152.1	2204.3	2203.2	2146.3	2044.1	1927.4	1884.9	1881.5
40°	2186.0	2195.7	2252.0	2310.0	2362.3	2357.7	2288.8	2174.5	2050.4	2002.7	2011.9
42.5°	2321.0	2331.9	2395.6	2478.4	2525.5	2524.3	2444.5	2315.8	2186.5	2144.0	2152.1
45°	2443.9	2453.7	2527.8	2622.6	2691.5	2700.1	2612.8	2476.7	2343.9	2289.4	2291.7
47.5°	2530.7	2549.0	2626.6	2735.2	2828.8	2859.3	2773.7	2640.4	2487.6	2430.7	2434.1
50°	2596.7	2608.2	2692.7	2816.2	2934.5	2997.7	2928.8	2792.1	2631.2	2570.9	2578.9
52.5°	2604.8	2618.6	2710.5	2852.9	3004.6	3100.6	3066.7	2940.3	2777.7	2715.6	2732.9
55°	2539.3	2547.3	2657.0	2830.0	3032.2	3177.0	3185.6	3078.1	2917.3	2870.2	2881.7
57.5°	2352.6	2373.2	2512.3	2722.5	2994.3	3217.8	3274.6	3203.4	3058.6	3012.1	3030.5
60°	2046.4	2067.0	2206.6	2473.2	2851.2	3198.8	3348.2	3314.3	3186.7	3149.4	3159.2
62.5°	1603.4	1601.7	1774.6	2101.5	2566.8	3105.7	3402.7	3421.1	3313.1	3266.0	3280.9
65°	1039.3	1044.4	1211.6	1563.8	2137.7	2869.0	3414.8	3557.3	3437.2	3366.0	3376.9
66°	835.9	851.4	993.3	1317.9	1918.8	2713.9	3378.6	3597.5	3475.1	3389.0	3394.1
67.5°	617.0	614.1	730.8	981.2	1532.2	2419.2	3265.4	3622.8	3518.2	3409.6	3411.9
70°	352.2	351.6	393.0	538.9	900.8	1703.4	2752.4	3501.6	3605.5	3484.3	3478.0
72.5°	257.4	255.7	261.4	297.6	439.5	860.0	1898.7	3060.3	3560.7	3472.3	3454.4
75°	216.0	214.9	213.7	218.3	246.5	389.5	1007.7	2201.5	3089.6	3259.1	3240.7
77.5°	176.4	176.4	176.9	175.8	176.9	205.1	417.7	1180.0	1881.5	2100.4	2151.5
80°	137.9	137.3	147.1	143.0	133.9	131.6	185.0	379.7	624.5	621.0	512.5
82.5°	101.7	94.8	112.0	109.2	98.8	83.9	108.0	162.0	208.5	135.6	100.5
85°	64.3	63.8	79.3	72.4	60.3	39.6	51.7	69.5	86.2	52.3	42.5
87.5°	11.5	10.9	25.3	18.4	18.4	11.5	14.4	19.0	28.2	19.5	14.4
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)