

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: P451587

Luminaire Tested: **GALN-SA2C-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451587  
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-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 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: 12199 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

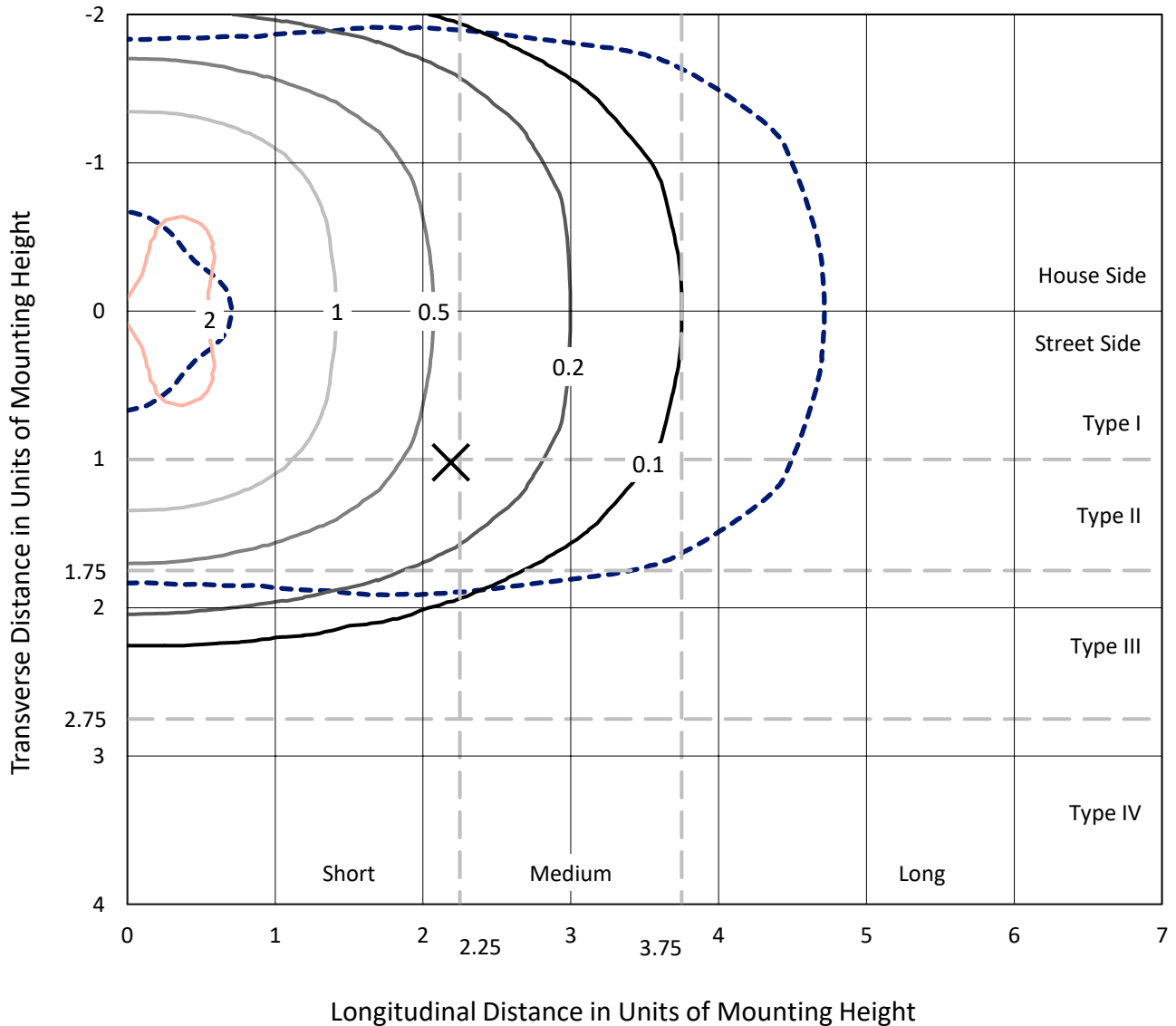
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

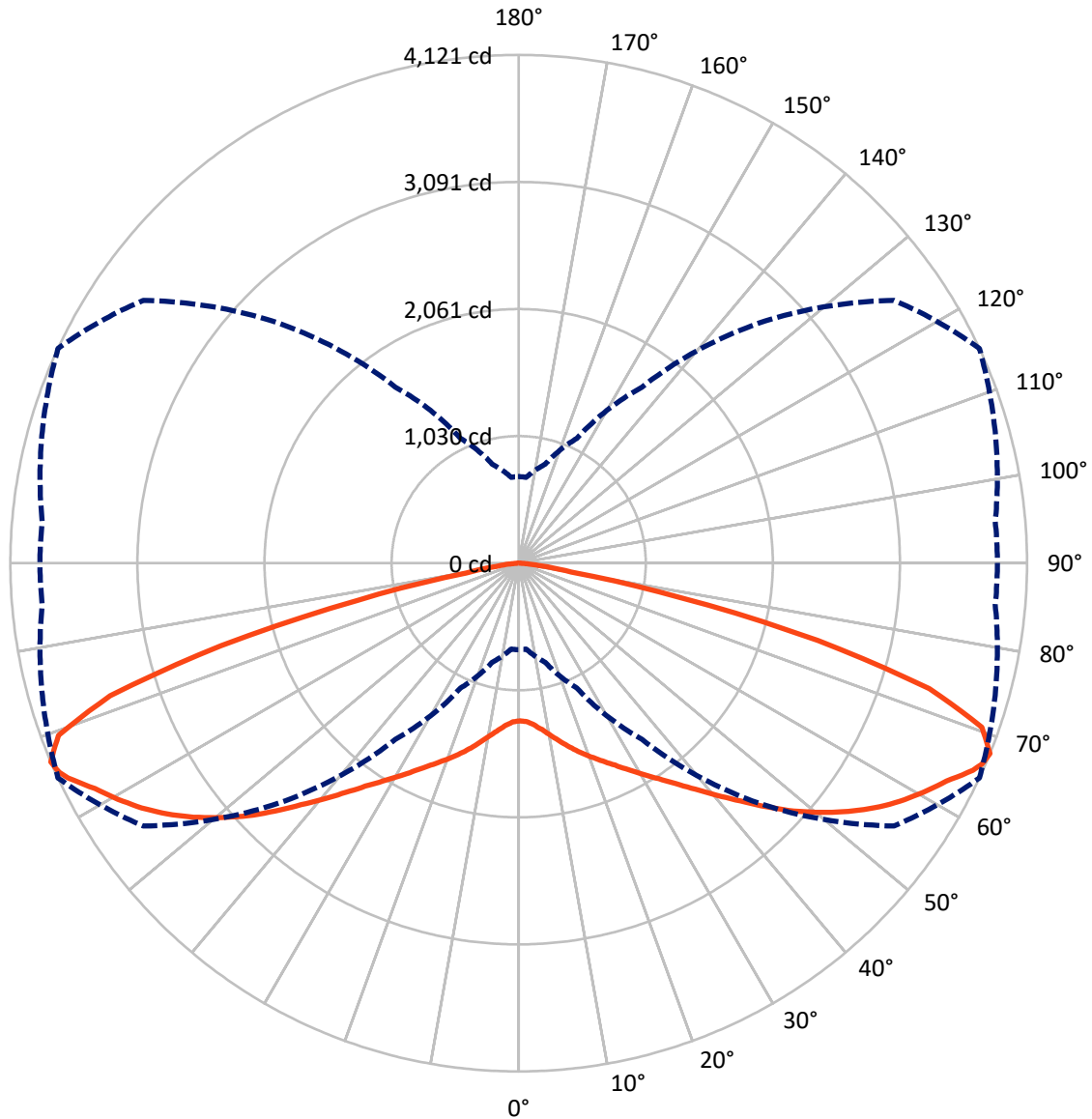
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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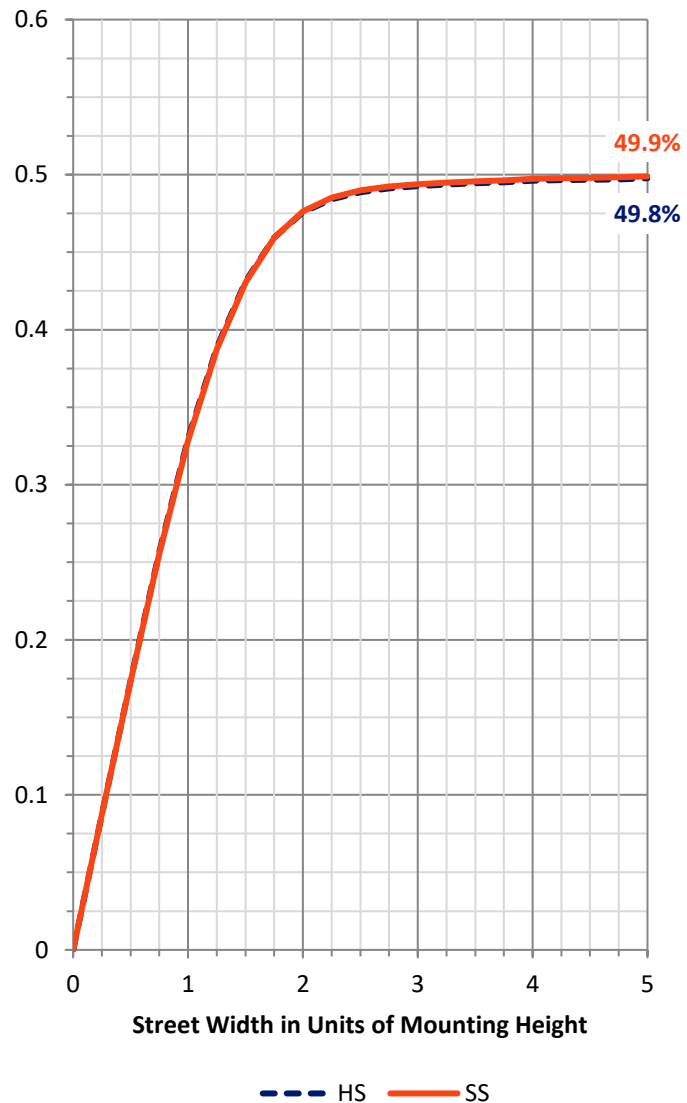
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6099.5	0.0	6099.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6099.5	0.0	6099.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12199.0	0.0	12199.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.0	1.0
10°-20°	421.8	3.5
20°-30°	825.0	6.8
30°-40°	1403.3	11.5
40°-50°	2220.9	18.2
50°-60°	2944.9	24.1
60°-70°	2778.0	22.8
70°-80°	1373.3	11.3
80°-90°	105.8	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°	12199.0	100.0
0°-180°	12199.0	100.0



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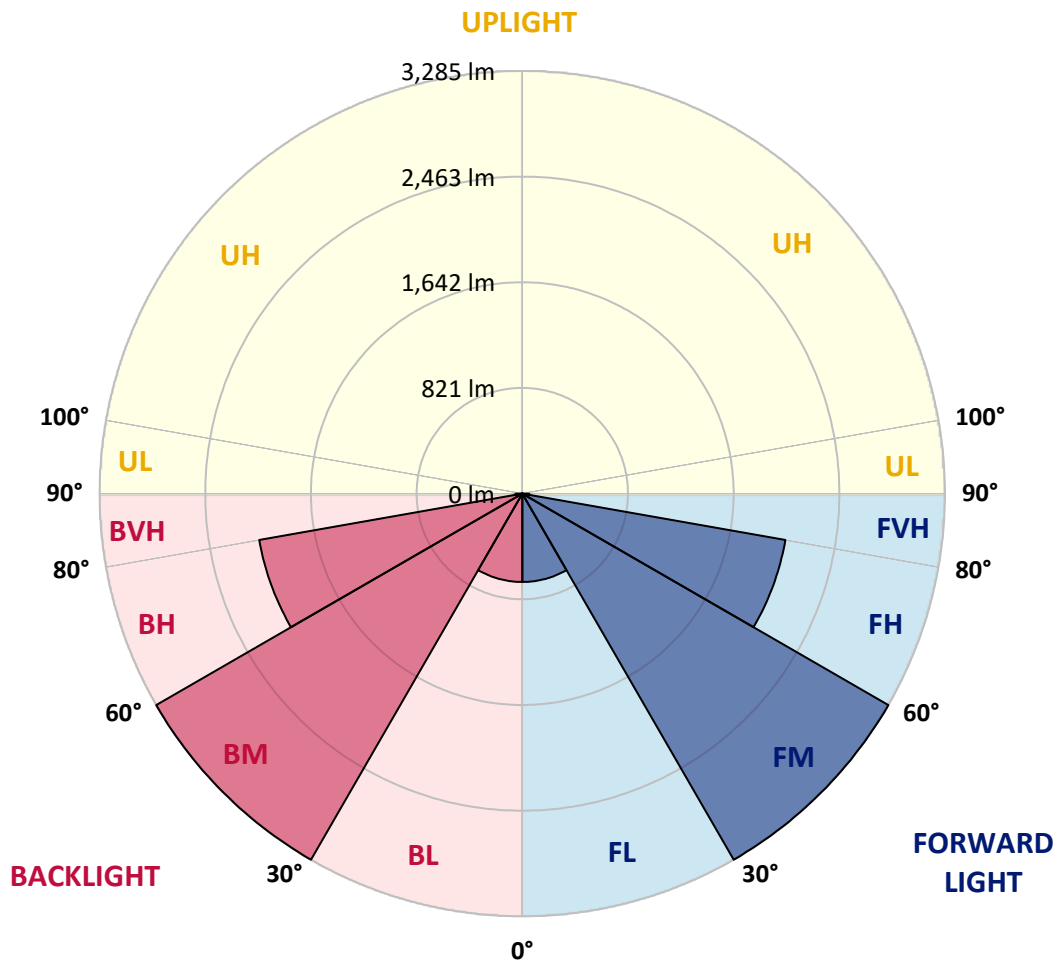
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	686.4	5.6			
FM	(30°-60°)	3284.6	26.9			
FH	(60°-80°)	2075.6	17.0			G2/5000
FVH	(80°-90°)	52.9	0.4			G1/100
BL	(0°-30°)	686.4	5.6	B2/1000		
BM	(30°-60°)	3284.6	26.9	B3/5000		
BH	(60°-80°)	2075.6	17.0	B3/2500		G3/2500
BVH	(80°-90°)	52.9	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°	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7
2.5°	1271.2	1272.5	1273.8	1275.8	1278.4	1282.3	1284.9	1286.9	1292.1	1292.8	1292.1
5°	1266.6	1267.9	1271.2	1277.1	1285.6	1297.3	1306.5	1317.6	1326.1	1332.0	1330.7
7.5°	1266.0	1268.6	1273.8	1286.2	1302.6	1322.8	1343.7	1362.7	1379.0	1392.1	1390.2
10°	1276.4	1279.7	1288.2	1306.5	1332.0	1361.4	1390.8	1418.9	1442.4	1459.4	1465.3
12.5°	1294.1	1296.7	1312.4	1339.8	1376.4	1413.0	1446.4	1481.0	1513.7	1542.4	1542.4
15°	1324.8	1329.4	1349.0	1388.8	1433.9	1476.4	1510.4	1547.0	1582.3	1615.0	1624.8
17.5°	1367.3	1373.8	1403.2	1454.2	1511.7	1550.9	1583.0	1613.0	1643.7	1675.1	1679.7
20°	1425.4	1432.0	1471.2	1532.6	1600.6	1647.7	1669.2	1676.4	1691.5	1721.5	1725.4
22.5°	1504.5	1511.1	1554.9	1624.1	1699.9	1750.9	1760.1	1743.1	1739.2	1762.7	1765.3
25°	1594.1	1599.9	1650.3	1724.8	1803.2	1858.8	1856.2	1814.3	1790.8	1805.2	1809.1
27.5°	1694.7	1703.2	1754.2	1831.3	1916.3	1965.3	1957.5	1896.7	1846.3	1843.7	1845.0
30°	1823.5	1832.6	1881.0	1954.8	2038.5	2083.6	2067.3	1985.6	1907.8	1881.6	1881.6
32.5°	1959.4	1982.3	2031.3	2108.4	2173.8	2206.5	2181.6	2083.6	1980.3	1943.7	1941.8
35°	2136.5	2149.0	2197.3	2272.5	2321.5	2347.0	2299.3	2194.0	2075.1	2032.0	2026.1
37.5°	2309.7	2320.2	2376.4	2448.3	2507.8	2506.5	2441.8	2325.4	2192.7	2144.4	2140.5
40°	2486.8	2498.0	2562.0	2628.0	2687.5	2682.3	2603.8	2473.8	2332.6	2278.4	2288.8
42.5°	2640.4	2652.9	2725.4	2819.5	2873.1	2871.8	2781.0	2634.6	2487.5	2439.1	2448.3
45°	2780.3	2791.4	2875.7	2983.6	3062.0	3071.8	2972.5	2817.6	2666.6	2604.5	2607.1
47.5°	2879.0	2899.9	2988.1	3111.7	3218.2	3252.8	3155.5	3003.8	2830.0	2765.3	2769.2
50°	2954.2	2967.2	3063.3	3203.8	3338.5	3410.4	3331.9	3176.4	2993.4	2924.7	2933.9
52.5°	2963.3	2979.0	3083.6	3245.6	3418.2	3527.3	3488.8	3345.0	3160.0	3089.4	3109.1
55°	2888.8	2897.9	3022.8	3219.5	3449.6	3614.3	3624.1	3501.9	3318.8	3265.3	3278.3
57.5°	2676.4	2699.9	2858.1	3097.3	3406.4	3660.7	3725.4	3644.3	3479.6	3426.7	3447.6
60°	2328.0	2351.6	2510.4	2813.6	3243.7	3639.1	3809.0	3770.5	3625.4	3582.9	3594.0
62.5°	1824.1	1822.2	2018.9	2390.8	2920.2	3533.2	3871.1	3892.0	3769.2	3715.6	3732.6
65°	1182.3	1188.2	1378.4	1779.0	2431.9	3263.9	3884.8	4046.9	3910.3	3829.3	3841.7
66°	951.0	968.6	1130.0	1499.3	2182.9	3087.5	3843.7	4092.7	3953.5	3855.4	3861.3
67.5°	701.9	698.7	831.3	1116.3	1743.1	2752.2	3714.9	4121.4	4002.5	3879.0	3881.6
70°	400.6	400.0	447.0	613.1	1024.8	1937.8	3131.3	3983.5	4101.8	3963.9	3956.7
72.5°	292.8	290.8	297.4	338.6	500.0	978.4	2160.1	3481.6	4050.9	3950.2	3929.9
75°	245.7	244.4	243.1	248.4	280.4	443.1	1146.4	2504.5	3514.9	3707.7	3686.8
77.5°	200.6	200.6	201.3	200.0	201.3	233.3	475.1	1342.4	2140.5	2389.5	2447.6
80°	156.9	156.2	167.3	162.7	152.3	149.7	210.5	432.0	710.4	706.5	583.0
82.5°	115.7	107.8	127.4	124.2	112.4	95.4	122.9	184.3	237.2	154.2	114.4
85°	73.2	72.5	90.2	82.4	68.6	45.1	58.8	79.1	98.0	59.5	48.4
87.5°	13.1	12.4	28.8	20.9	20.9	13.1	16.3	21.6	32.0	22.2	16.3
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)