

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: P451181

Luminaire Tested: **GALN-SA2A-740-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451181  
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-SA2A-740-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9488 lumens  
Efficiency: N/A  
Efficacy: 150.6 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): 63  
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

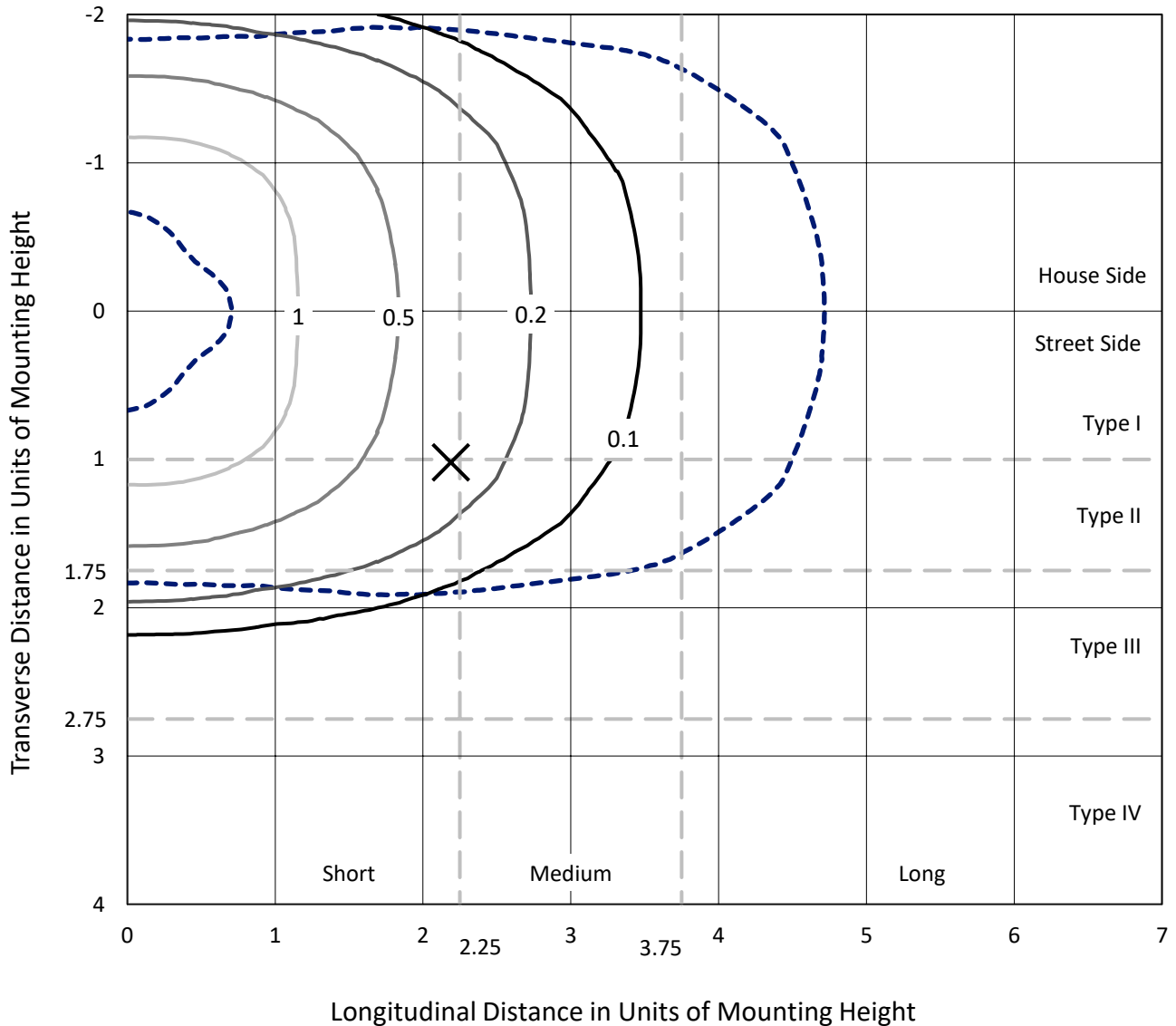




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### Iso-Footcandle Lines of Horizontal Illumination

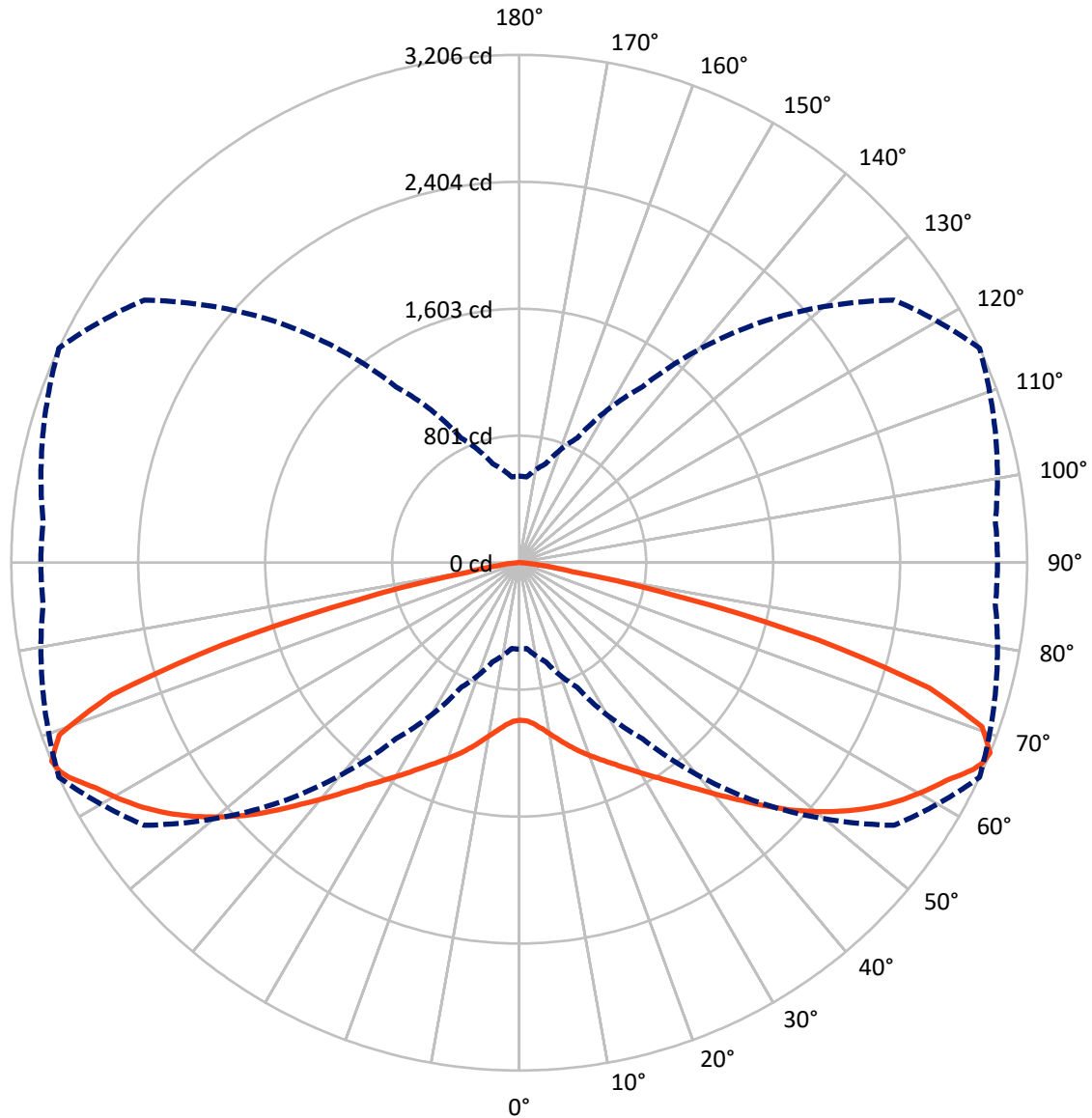
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	4744.0	0.0	4744.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4744.0	0.0	4744.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9488.0	0.0	9488.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.0	1.0
10°-20°	328.0	3.5
20°-30°	641.7	6.8
30°-40°	1091.4	11.5
40°-50°	1727.4	18.2
50°-60°	2290.5	24.1
60°-70°	2160.6	22.8
70°-80°	1068.1	11.3
80°-90°	82.3	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°	9488.0	100.0
0°-180°	9488.0	100.0

**Coefficient of Utilization**



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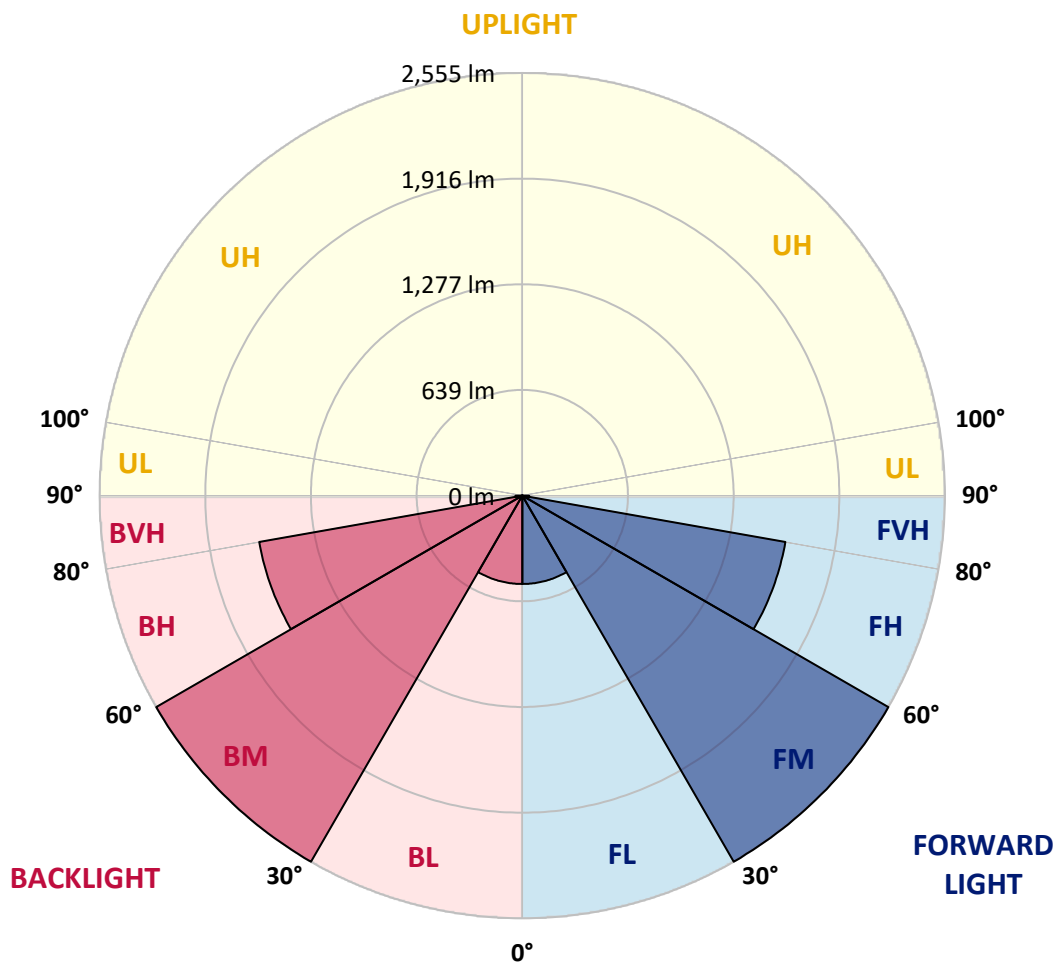
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	533.9	5.6			
FM	(30°-60°)	2554.6	26.9			
FH	(60°-80°)	1614.4	17.0			G1/1800
FVH	(80°-90°)	41.2	0.4			G1/100
BL	(0°-30°)	533.9	5.6	B2/1000		
BM	(30°-60°)	2554.6	26.9	B3/5000		
BH	(60°-80°)	1614.4	17.0	B3/2500		G3/2500
BVH	(80°-90°)	41.2	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°	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8
2.5°	988.7	989.7	990.7	992.3	994.3	997.3	999.4	1000.9	1005.0	1005.5	1005.0
5°	985.1	986.2	988.7	993.3	999.9	1009.0	1016.2	1024.8	1031.4	1036.0	1035.0
7.5°	984.6	986.7	990.7	1000.4	1013.1	1028.9	1045.1	1059.9	1072.6	1082.7	1081.2
10°	992.8	995.3	1001.9	1016.2	1036.0	1058.9	1081.7	1103.6	1121.9	1135.1	1139.7
12.5°	1006.5	1008.5	1020.7	1042.1	1070.5	1099.0	1124.9	1151.9	1177.3	1199.7	1199.7
15°	1030.4	1033.9	1049.2	1080.2	1115.3	1148.3	1174.7	1203.2	1230.7	1256.1	1263.7
17.5°	1063.4	1068.5	1091.4	1131.0	1175.8	1206.3	1231.2	1254.6	1278.4	1302.8	1306.4
20°	1108.7	1113.8	1144.2	1192.0	1244.9	1281.5	1298.3	1303.9	1315.6	1338.9	1342.0
22.5°	1170.2	1175.3	1209.3	1263.2	1322.2	1361.8	1368.9	1355.7	1352.7	1371.0	1373.0
25°	1239.8	1244.4	1283.5	1341.5	1402.5	1445.7	1443.7	1411.1	1392.8	1404.0	1407.1
27.5°	1318.1	1324.7	1364.4	1424.3	1490.4	1528.5	1522.4	1475.2	1436.0	1434.0	1435.0
30°	1418.2	1425.4	1463.0	1520.4	1585.5	1620.6	1607.8	1544.3	1483.8	1463.5	1463.5
32.5°	1524.0	1541.8	1579.9	1639.9	1690.7	1716.1	1696.8	1620.6	1540.2	1511.8	1510.2
35°	1661.7	1671.4	1709.0	1767.5	1805.6	1825.4	1788.3	1706.5	1613.9	1580.4	1575.8
37.5°	1796.4	1804.6	1848.3	1904.2	1950.5	1949.4	1899.1	1808.6	1705.4	1667.8	1664.8
40°	1934.2	1942.8	1992.7	2044.0	2090.3	2086.2	2025.2	1924.0	1814.2	1772.0	1780.2
42.5°	2053.7	2063.3	2119.7	2192.9	2234.6	2233.6	2162.9	2049.1	1934.7	1897.1	1904.2
45°	2162.4	2171.1	2236.7	2320.5	2381.5	2389.1	2311.9	2191.4	2074.0	2025.7	2027.7
47.5°	2239.2	2255.5	2324.1	2420.2	2503.0	2530.0	2454.2	2336.3	2201.1	2150.7	2153.8
50°	2297.6	2307.8	2382.5	2491.8	2596.5	2652.5	2591.5	2470.5	2328.1	2274.8	2281.9
52.5°	2304.8	2317.0	2398.3	2524.4	2658.6	2743.5	2713.5	2601.6	2457.8	2402.9	2418.1
55°	2246.8	2253.9	2351.0	2504.0	2683.0	2811.1	2818.7	2723.6	2581.3	2539.6	2549.8
57.5°	2081.6	2099.9	2222.9	2409.0	2649.4	2847.2	2897.5	2834.4	2706.3	2665.2	2681.4
60°	1810.7	1829.0	1952.5	2188.4	2522.8	2830.4	2962.5	2932.6	2819.7	2786.7	2795.3
62.5°	1418.7	1417.2	1570.2	1859.5	2271.2	2748.0	3010.8	3027.1	2931.5	2889.9	2903.1
65°	919.6	924.1	1072.1	1383.7	1891.5	2538.6	3021.5	3147.6	3041.3	2978.3	2988.0
66°	739.6	753.3	878.9	1166.1	1697.8	2401.3	2989.5	3183.2	3074.9	2998.6	3003.2
67.5°	545.9	543.4	646.6	868.2	1355.7	2140.6	2889.3	3205.5	3113.0	3016.9	3019.0
70°	311.6	311.1	347.7	476.8	797.1	1507.2	2435.4	3098.3	3190.3	3083.0	3077.4
72.5°	227.7	226.2	231.3	263.3	388.9	761.0	1680.0	2707.9	3150.6	3072.3	3056.6
75°	191.1	190.1	189.1	193.2	218.1	344.6	891.6	1947.9	2733.8	2883.8	2867.5
77.5°	156.1	156.1	156.6	155.5	156.6	181.5	369.6	1044.1	1664.8	1858.5	1903.7
80°	122.0	121.5	130.1	126.6	118.4	116.4	163.7	336.0	552.6	549.5	453.4
82.5°	90.0	83.9	99.1	96.6	87.4	74.2	95.6	143.3	184.5	120.0	89.0
85°	56.9	56.4	70.1	64.0	53.4	35.1	45.7	61.5	76.2	46.3	37.6
87.5°	10.2	9.7	22.4	16.3	16.3	10.2	12.7	16.8	24.9	17.3	12.7
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)