

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: P451616

Luminaire Tested: **GALN-SA2C-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451616  
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-730-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13284 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

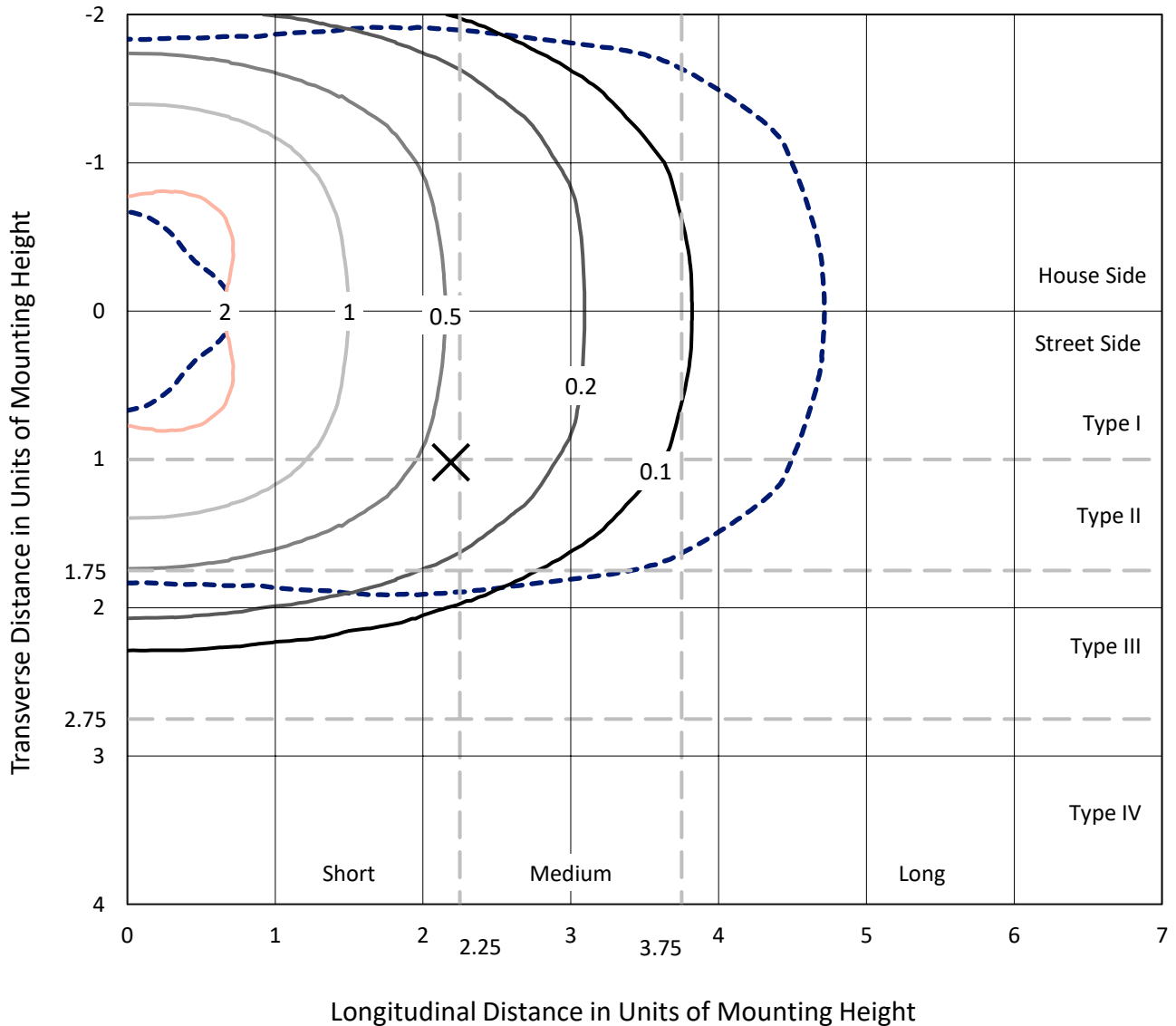
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

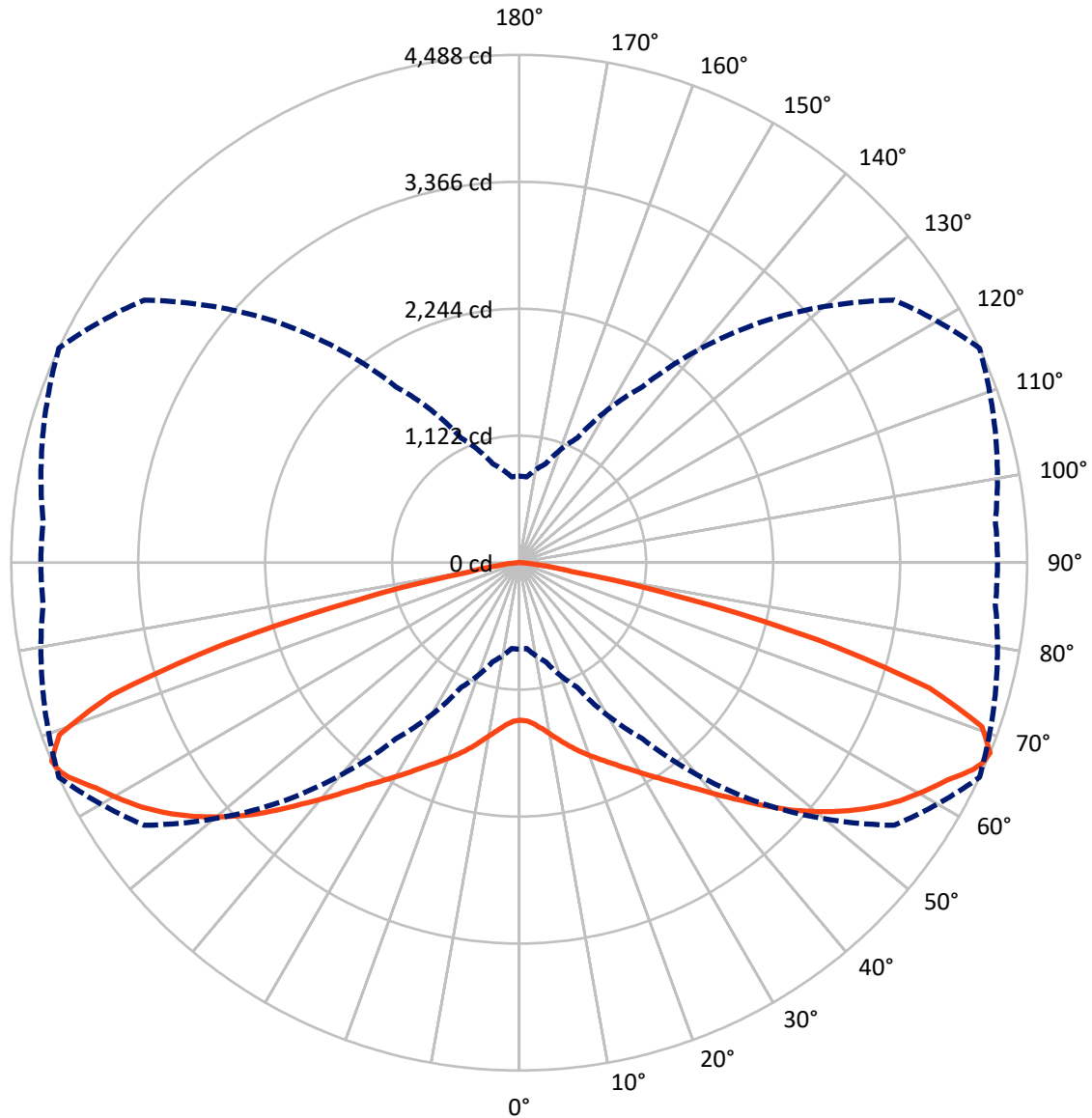
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	6642.0	0.0	6642.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6642.0	0.0	6642.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13284.0	0.0	13284.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.2	1.0
10°-20°	459.3	3.5
20°-30°	898.4	6.8
30°-40°	1528.1	11.5
40°-50°	2418.5	18.2
50°-60°	3206.8	24.1
60°-70°	3025.0	22.8
70°-80°	1495.4	11.3
80°-90°	115.2	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°	13284.0	100.0
0°-180°	13284.0	100.0



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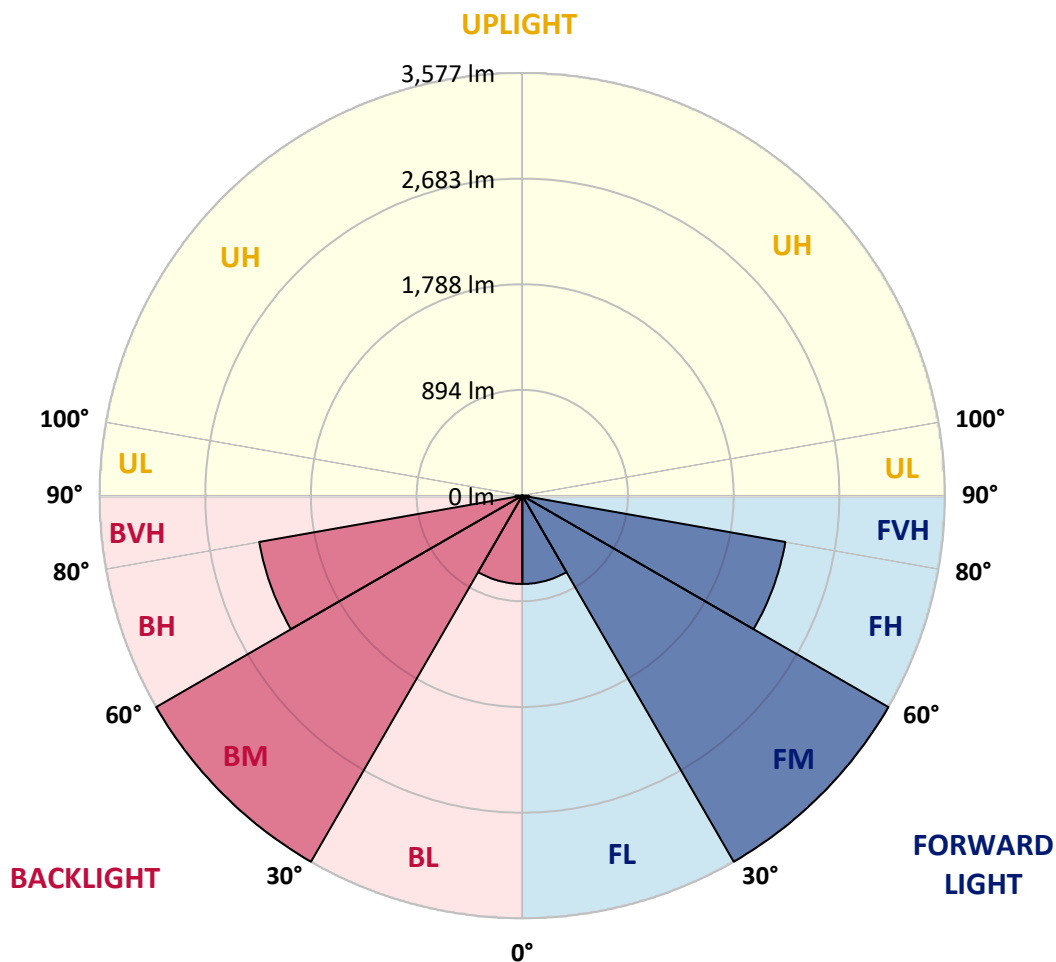
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	747.5	5.6			
FM	(30°-60°)	3576.7	26.9			
FH	(60°-80°)	2260.2	17.0			G2/5000
FVH	(80°-90°)	57.6	0.4			G1/100
BL	(0°-30°)	747.5	5.6	B2/1000		
BM	(30°-60°)	3576.7	26.9	B3/5000		
BH	(60°-80°)	2260.2	17.0	B3/2500		G3/2500
BVH	(80°-90°)	57.6	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°	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4
2.5°	1384.3	1385.7	1387.1	1389.2	1392.1	1396.4	1399.2	1401.3	1407.0	1407.8	1407.0
5°	1379.3	1380.7	1384.3	1390.7	1399.9	1412.7	1422.7	1434.8	1444.0	1450.5	1449.0
7.5°	1378.6	1381.4	1387.1	1400.6	1418.4	1440.5	1463.3	1483.9	1501.7	1515.9	1513.8
10°	1390.0	1393.5	1402.8	1422.7	1450.5	1482.5	1514.5	1545.1	1570.7	1589.2	1595.6
12.5°	1409.2	1412.0	1429.1	1459.0	1498.8	1538.7	1575.0	1612.7	1648.3	1679.6	1679.6
15°	1442.6	1447.6	1469.0	1512.4	1561.5	1607.7	1644.7	1684.6	1723.0	1758.6	1769.3
17.5°	1488.9	1496.0	1528.0	1583.5	1646.2	1688.9	1723.7	1756.5	1789.9	1824.1	1829.1
20°	1552.2	1559.3	1602.0	1668.9	1743.0	1794.2	1817.7	1825.5	1841.9	1874.6	1878.9
22.5°	1638.3	1645.5	1693.1	1768.6	1851.1	1906.7	1916.6	1898.1	1893.8	1919.5	1922.3
25°	1735.8	1742.3	1797.1	1878.2	1963.6	2024.1	2021.2	1975.7	1950.1	1965.7	1970.0
27.5°	1845.4	1854.7	1910.2	1994.2	2086.7	2140.1	2131.6	2065.4	2010.6	2007.7	2009.1
30°	1985.7	1995.6	2048.3	2128.7	2219.8	2268.9	2251.1	2162.2	2077.5	2049.0	2049.0
32.5°	2133.7	2158.6	2212.0	2296.0	2367.1	2402.7	2375.7	2268.9	2156.5	2116.6	2114.5
35°	2326.6	2340.1	2392.7	2474.6	2528.0	2555.7	2503.8	2389.2	2259.7	2212.7	2206.3
37.5°	2515.2	2526.6	2587.8	2666.0	2730.8	2729.4	2658.9	2532.2	2387.8	2335.1	2330.8
40°	2708.0	2720.1	2789.9	2861.8	2926.5	2920.8	2835.4	2693.8	2540.1	2481.0	2492.4
42.5°	2875.3	2888.8	2967.8	3070.3	3128.7	3127.2	3028.3	2868.9	2708.7	2656.1	2666.0
45°	3027.6	3039.7	3131.5	3248.9	3334.3	3345.0	3236.8	3068.2	2903.8	2836.1	2839.0
47.5°	3135.1	3157.8	3253.9	3388.4	3504.4	3542.2	3436.1	3271.0	3081.7	3011.2	3015.5
50°	3216.9	3231.1	3335.8	3488.8	3635.4	3713.7	3628.3	3458.9	3259.6	3184.9	3194.8
52.5°	3226.9	3243.9	3357.8	3534.3	3722.2	3841.1	3799.1	3642.5	3441.1	3364.2	3385.6
55°	3145.7	3155.7	3291.6	3505.9	3756.4	3935.7	3946.4	3813.3	3614.0	3555.7	3569.9
57.5°	2914.4	2940.1	3112.3	3372.8	3709.4	3986.3	4056.7	3968.5	3789.1	3731.5	3754.2
60°	2535.1	2560.7	2733.7	3063.9	3532.2	3962.8	4147.8	4105.8	3947.8	3901.6	3913.7
62.5°	1986.4	1984.2	2198.5	2603.4	3179.9	3847.5	4215.4	4238.2	4104.4	4046.0	4064.5
65°	1287.5	1293.9	1501.0	1937.3	2648.3	3554.3	4230.4	4406.9	4258.1	4169.9	4183.4
66°	1035.5	1054.7	1230.5	1632.6	2377.1	3362.1	4185.5	4456.7	4305.1	4198.3	4204.7
67.5°	764.4	760.8	905.3	1215.6	1898.1	2997.0	4045.3	4488.0	4358.5	4224.0	4226.8
70°	436.3	435.6	486.8	667.6	1116.0	2110.2	3409.8	4337.8	4466.7	4316.5	4308.7
72.5°	318.8	316.7	323.8	368.7	544.5	1065.4	2352.2	3791.2	4411.1	4301.5	4279.5
75°	267.6	266.2	264.8	270.4	305.3	482.5	1248.3	2727.3	3827.5	4037.5	4014.7
77.5°	218.5	218.5	219.2	217.8	219.2	254.1	517.4	1461.8	2330.8	2602.0	2665.3
80°	170.8	170.1	182.2	177.2	165.8	163.0	229.2	470.4	773.6	769.4	634.8
82.5°	126.0	117.4	138.8	135.2	122.4	103.9	133.8	200.7	258.3	168.0	124.5
85°	79.7	79.0	98.2	89.7	74.7	49.1	64.1	86.1	106.8	64.8	52.7
87.5°	14.2	13.5	31.3	22.8	22.8	14.2	17.8	23.5	34.9	24.2	17.8
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)