

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: P458692

Luminaire Tested: **GALN-SA2C-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458692
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-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 13588 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

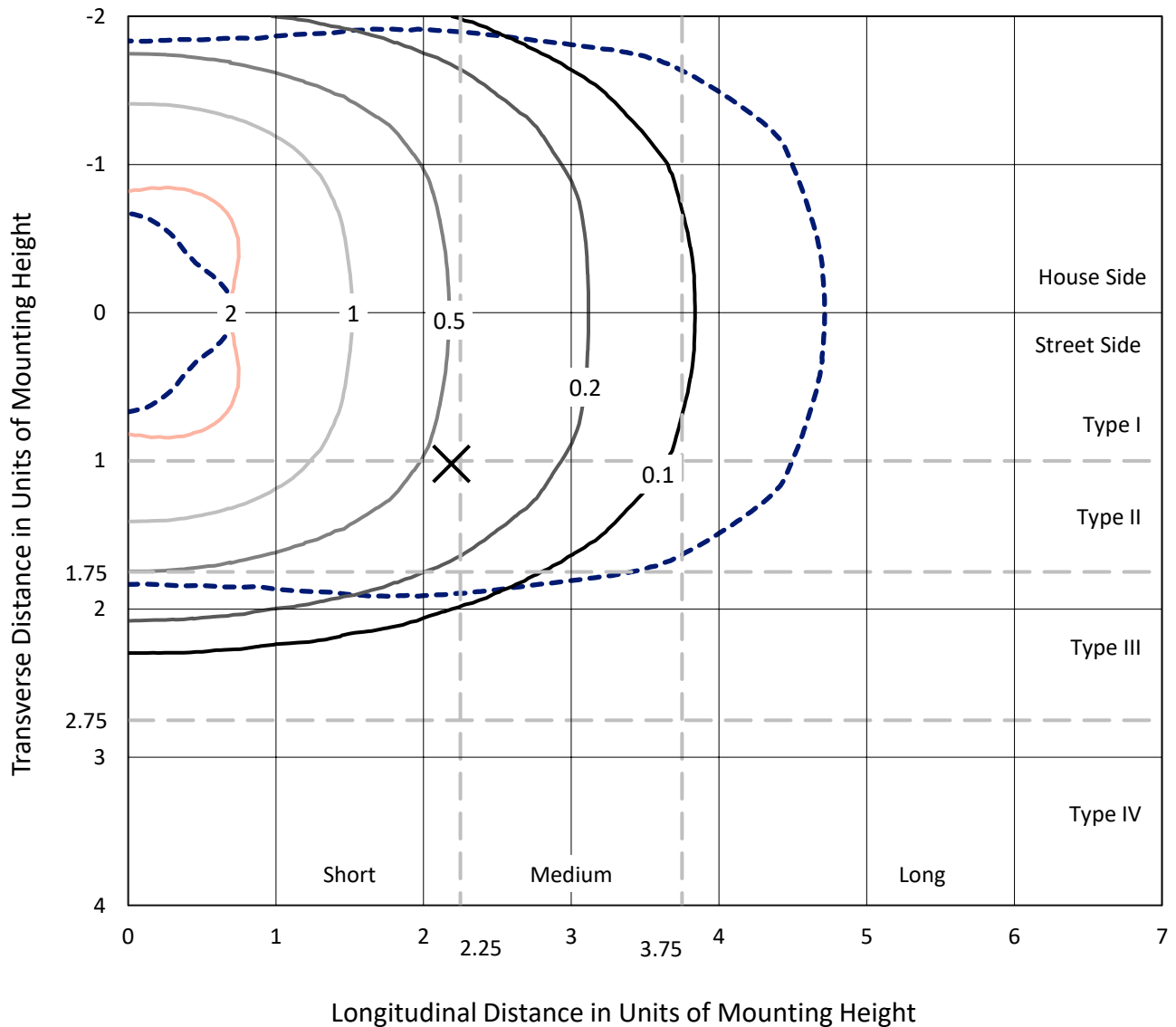
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

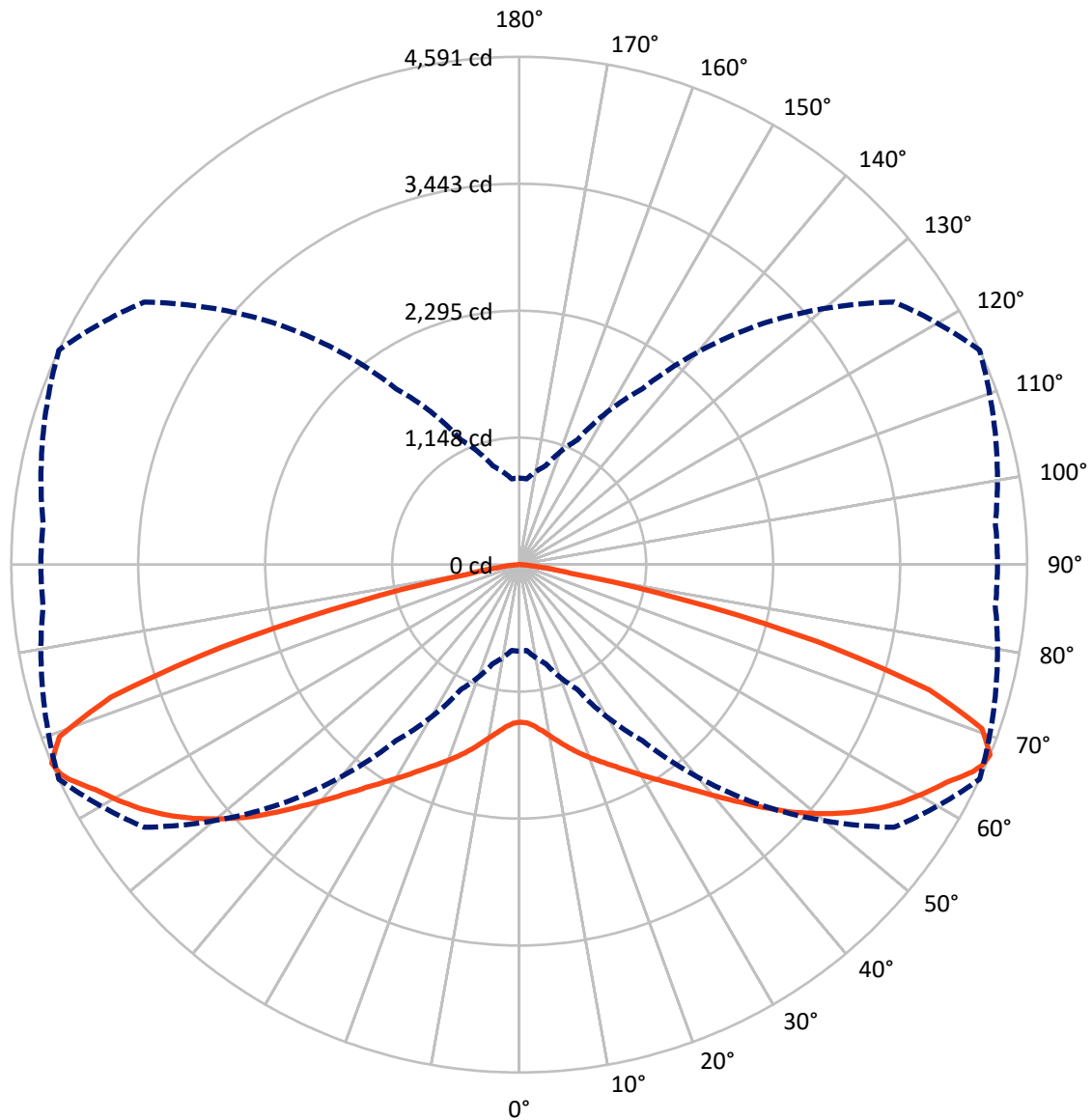
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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
House Side	Lumens	6794.0	0.0	6794.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6794.0	0.0	6794.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13588.0	0.0	13588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	1.0
10°-20°	469.8	3.5
20°-30°	919.0	6.8
30°-40°	1563.0	11.5
40°-50°	2473.8	18.2
50°-60°	3280.2	24.1
60°-70°	3094.3	22.8
70°-80°	1529.6	11.3
80°-90°	117.9	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°	13588.0	100.0
0°-180°	13588.0	100.0

Coefficient of Utilization



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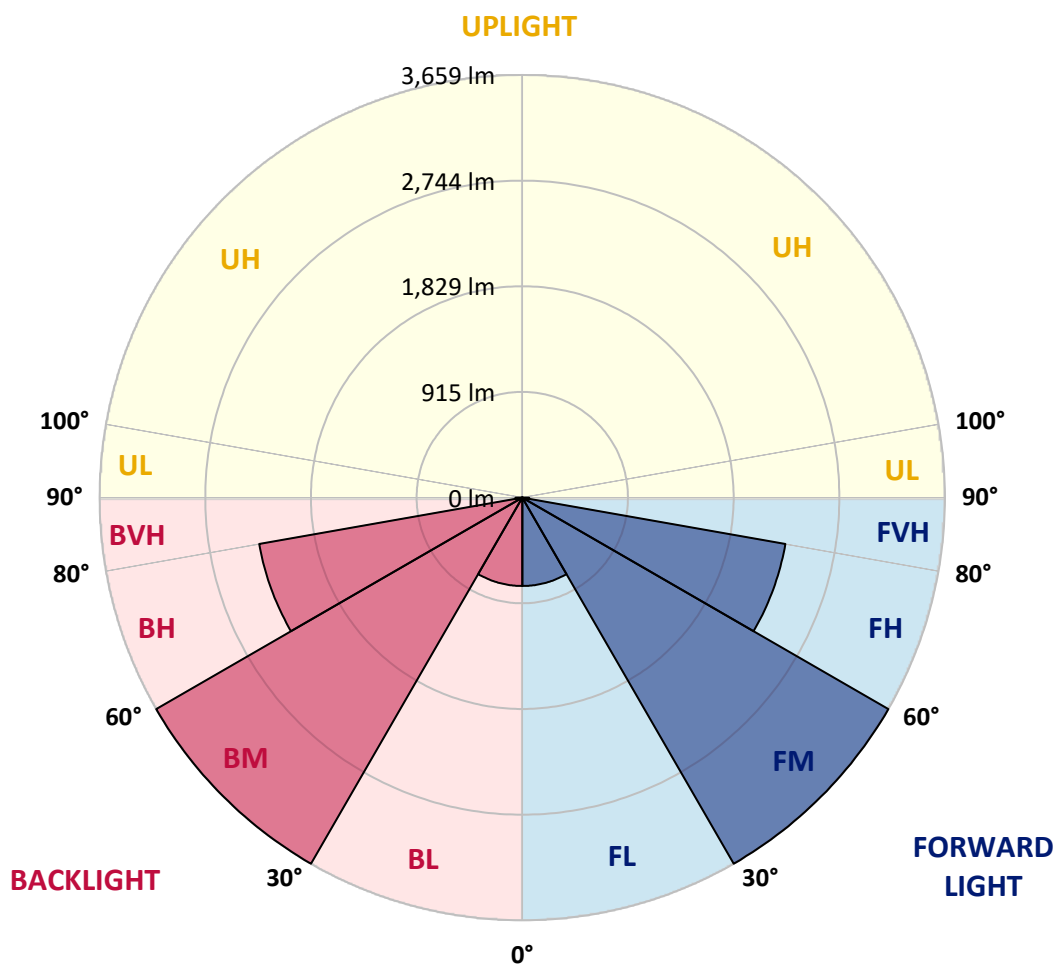
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	764.6	5.6			
FM	(30°-60°)	3658.5	26.9			
FH	(60°-80°)	2312.0	17.0			G2/5000
FVH	(80°-90°)	58.9	0.4			G1/100
BL	(0°-30°)	764.6	5.6	B2/1000		
BM	(30°-60°)	3658.5	26.9	B3/5000		
BH	(60°-80°)	2312.0	17.0	B3/2500		G3/2500
BVH	(80°-90°)	58.9	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°	1423.2	1423.2	1423.2	1423.2	1423.2	1423.2	1423.2	1423.2	1423.2	1423.2	1423.2
2.5°	1415.9	1417.4	1418.9	1421.0	1424.0	1428.3	1431.2	1433.4	1439.2	1440.0	1439.2
5°	1410.8	1412.3	1415.9	1422.5	1432.0	1445.1	1455.3	1467.6	1477.1	1483.6	1482.2
7.5°	1410.1	1413.0	1418.9	1432.7	1450.9	1473.5	1496.8	1517.9	1536.1	1550.6	1548.4
10°	1421.8	1425.4	1434.9	1455.3	1483.6	1516.4	1549.2	1580.5	1606.7	1625.6	1632.2
12.5°	1441.4	1444.3	1461.8	1492.4	1533.1	1573.9	1611.0	1649.6	1686.0	1718.1	1718.1
15°	1475.6	1480.7	1502.6	1547.0	1597.2	1644.5	1682.4	1723.2	1762.5	1798.9	1809.8
17.5°	1523.0	1530.2	1563.0	1619.8	1683.8	1727.5	1763.2	1796.7	1830.9	1865.8	1870.9
20°	1587.7	1595.0	1638.7	1707.1	1782.9	1835.3	1859.3	1867.3	1884.0	1917.5	1921.9
22.5°	1675.8	1683.1	1731.9	1809.1	1893.5	1950.3	1960.5	1941.6	1937.2	1963.4	1966.3
25°	1775.6	1782.1	1838.2	1921.2	2008.5	2070.4	2067.5	2020.9	1994.7	2010.7	2015.1
27.5°	1887.7	1897.1	1953.9	2039.8	2134.5	2189.1	2180.3	2112.6	2056.6	2053.7	2055.1
30°	2031.1	2041.3	2095.2	2177.4	2270.6	2320.8	2302.6	2211.6	2125.0	2095.9	2095.9
32.5°	2182.5	2208.0	2262.6	2348.5	2421.3	2457.7	2430.0	2320.8	2205.8	2165.0	2162.9
35°	2379.8	2393.6	2447.5	2531.2	2585.8	2614.2	2561.1	2443.9	2311.4	2263.3	2256.8
37.5°	2572.7	2584.4	2647.0	2727.1	2793.3	2791.8	2719.8	2590.2	2442.4	2388.5	2384.2
40°	2770.0	2782.4	2853.7	2927.3	2993.5	2987.7	2900.3	2755.4	2598.2	2537.8	2549.4
42.5°	2941.1	2954.9	3035.7	3140.6	3200.3	3198.8	3097.6	2934.5	2770.7	2716.9	2727.1
45°	3096.9	3109.3	3203.2	3323.3	3410.6	3421.6	3310.9	3138.4	2970.2	2901.0	2904.0
47.5°	3206.8	3230.1	3328.4	3466.0	3584.6	3623.2	3514.7	3345.8	3152.2	3080.1	3084.5
50°	3290.5	3305.1	3412.1	3568.6	3718.6	3798.7	3711.3	3538.0	3334.2	3257.8	3268.0
52.5°	3300.7	3318.2	3434.7	3615.2	3807.4	3929.0	3886.0	3725.9	3519.8	3441.2	3463.1
55°	3217.7	3227.9	3367.0	3586.1	3842.3	4025.8	4036.7	3900.6	3696.7	3637.0	3651.6
57.5°	2981.1	3007.3	3183.5	3450.0	3794.3	4077.5	4149.6	4059.3	3875.8	3816.9	3840.2
60°	2593.1	2619.3	2796.2	3134.0	3613.0	4053.5	4242.7	4199.8	4038.2	3990.8	4003.2
62.5°	2031.8	2029.6	2248.8	2663.0	3252.7	3935.5	4311.9	4335.2	4198.3	4138.6	4157.6
65°	1316.9	1323.5	1535.3	1981.6	2708.9	3635.6	4327.2	4507.7	4355.6	4265.3	4279.1
66°	1059.2	1078.9	1258.7	1670.0	2431.5	3439.0	4281.3	4558.7	4403.6	4294.4	4301.0
67.5°	781.9	778.2	926.0	1243.4	1941.6	3065.6	4137.9	4590.7	4458.2	4320.6	4323.5
70°	446.3	445.5	497.9	682.9	1141.5	2158.5	3487.8	4437.1	4568.9	4415.3	4407.3
72.5°	326.1	324.0	331.2	377.1	556.9	1089.8	2406.0	3878.0	4512.1	4400.0	4377.4
75°	273.7	272.3	270.8	276.6	312.3	493.6	1276.9	2789.7	3915.1	4129.9	4106.6
77.5°	223.5	223.5	224.2	222.8	224.2	259.9	529.2	1495.3	2384.2	2661.5	2726.3
80°	174.7	174.0	186.4	181.3	169.6	166.7	234.4	481.2	791.3	787.0	649.4
82.5°	128.9	120.1	142.0	138.3	125.2	106.3	136.9	205.3	264.3	171.8	127.4
85°	81.5	80.8	100.5	91.7	76.4	50.2	65.5	88.1	109.2	66.2	53.9
87.5°	14.6	13.8	32.0	23.3	23.3	14.6	18.2	24.0	35.7	24.8	18.2
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)