

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: P458576

Luminaire Tested: **GALN-SA1C-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458576
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-SA1C-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6837 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 57
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

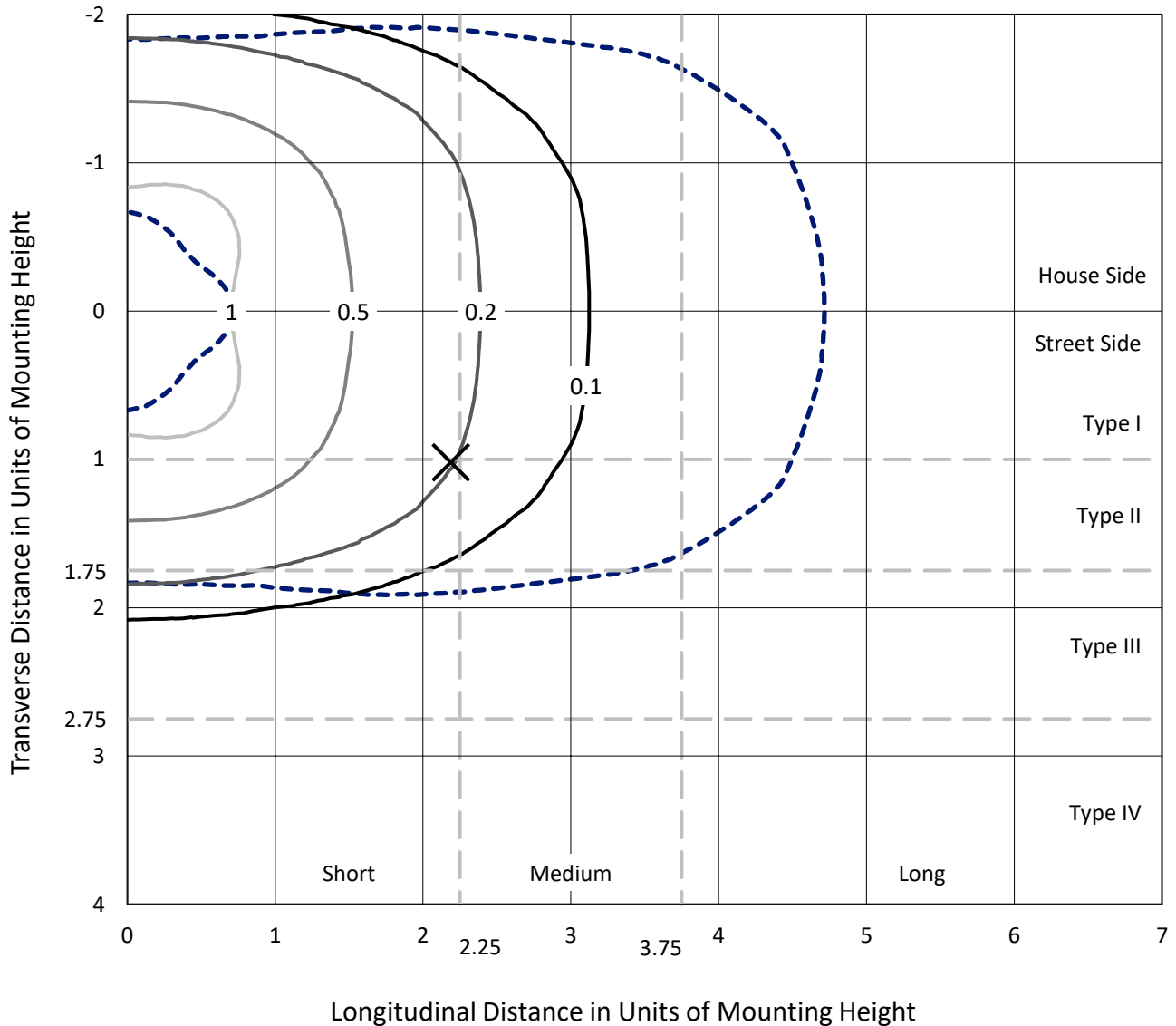




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Iso-Footcandle Lines of Horizontal Illumination

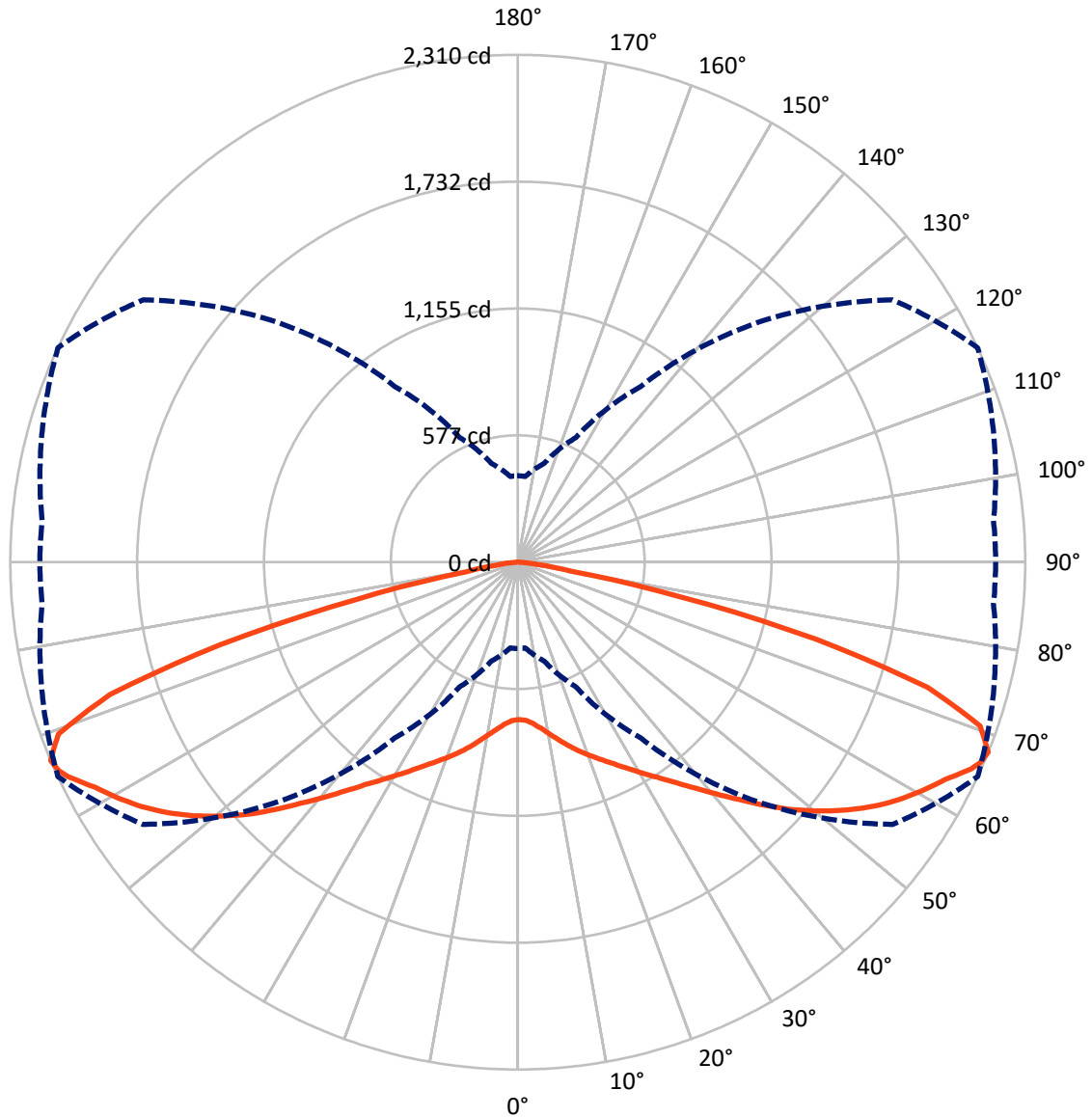
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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
House Side	Lumens	3418.5	0.0	3418.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3418.5	0.0	3418.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6837.0	0.0	6837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.0
10°-20°	236.4	3.5
20°-30°	462.4	6.8
30°-40°	786.5	11.5
40°-50°	1244.7	18.2
50°-60°	1650.5	24.1
60°-70°	1556.9	22.8
70°-80°	769.7	11.3
80°-90°	59.3	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°	6837.0	100.0
0°-180°	6837.0	100.0

Coefficient of Utilization



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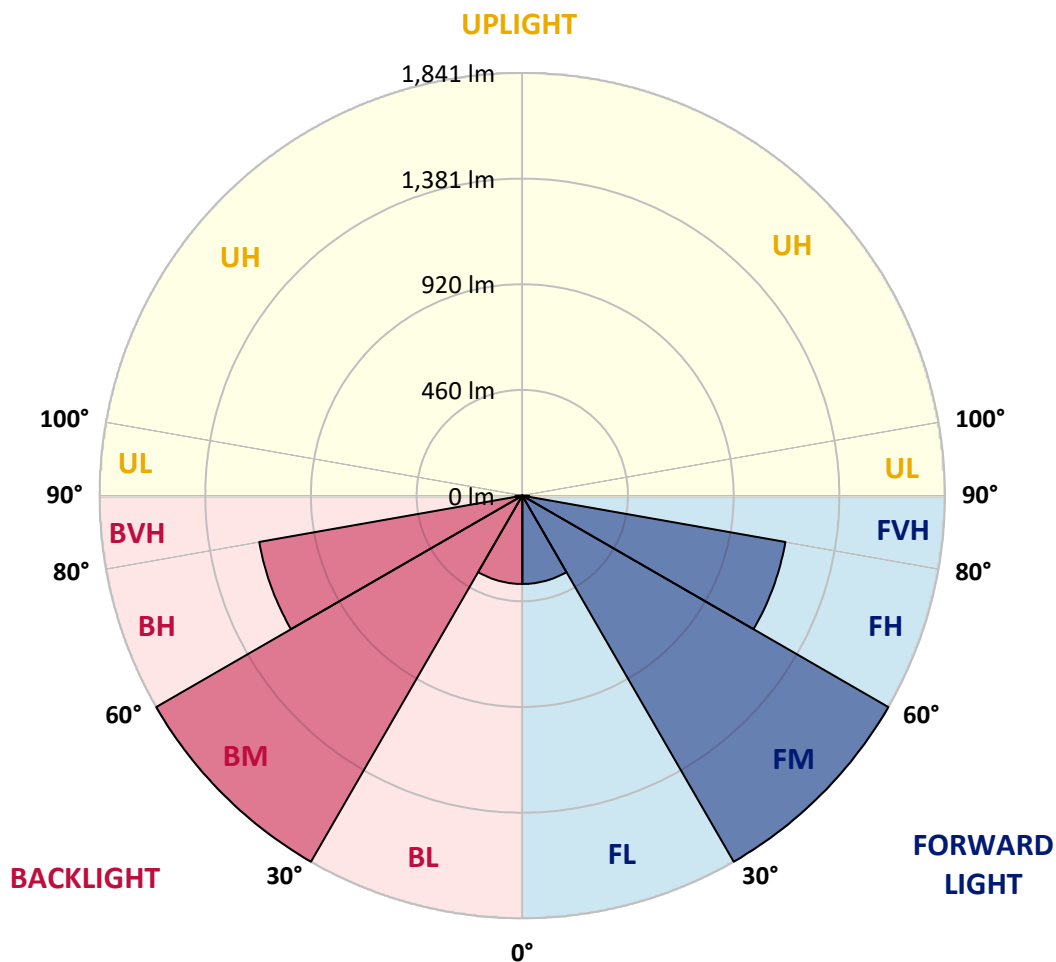
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.7	5.6			
FM (30°-60°)	1840.8	26.9			
FH (60°-80°)	1163.3	17.0			G1/1800
FVH (80°-90°)	29.7	0.4			G1/100
BL (0°-30°)	384.7	5.6	B1/500		
BM (30°-60°)	1840.8	26.9	B2/2500		
BH (60°-80°)	1163.3	17.0	B3/2500		G3/2500
BVH (80°-90°)	29.7	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°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1
2.5°	712.5	713.2	713.9	715.0	716.5	718.7	720.1	721.2	724.2	724.5	724.2
5°	709.9	710.6	712.5	715.7	720.5	727.1	732.2	738.5	743.2	746.5	745.8
7.5°	709.5	711.0	713.9	720.9	730.0	741.4	753.1	763.7	772.9	780.2	779.1
10°	715.4	717.2	722.0	732.2	746.5	763.0	779.5	795.2	808.4	817.9	821.2
12.5°	725.3	726.7	735.5	750.9	771.4	791.9	810.6	830.0	848.3	864.5	864.5
15°	742.5	745.1	756.0	778.4	803.7	827.5	846.5	867.0	886.8	905.1	910.6
17.5°	766.3	770.0	786.4	815.0	847.3	869.2	887.2	904.0	921.2	938.8	941.4
20°	798.9	802.6	824.5	859.0	897.1	923.4	935.5	939.6	948.0	964.8	967.0
22.5°	843.2	846.9	871.4	910.3	952.7	981.3	986.4	976.9	974.7	987.9	989.4
25°	893.4	896.7	924.9	966.7	1010.6	1041.8	1040.3	1016.8	1003.7	1011.7	1013.9
27.5°	949.8	954.6	983.1	1026.4	1074.0	1101.5	1097.1	1063.0	1034.8	1033.3	1034.1
30°	1022.0	1027.1	1054.2	1095.6	1142.5	1167.8	1158.6	1112.8	1069.2	1054.6	1054.6
32.5°	1098.2	1111.0	1138.5	1181.7	1218.3	1236.6	1222.7	1167.8	1109.9	1089.4	1088.3
35°	1197.4	1204.4	1231.5	1273.6	1301.1	1315.4	1288.6	1229.7	1163.0	1138.8	1135.5
37.5°	1294.5	1300.4	1331.9	1372.2	1405.5	1404.8	1368.5	1303.3	1228.9	1201.8	1199.6
40°	1393.8	1400.0	1435.9	1472.9	1506.2	1503.3	1459.3	1386.4	1307.3	1276.9	1282.8
42.5°	1479.8	1486.8	1527.5	1580.2	1610.3	1609.5	1558.6	1476.6	1394.1	1367.0	1372.2
45°	1558.2	1564.5	1611.7	1672.2	1716.1	1721.6	1665.9	1579.1	1494.5	1459.7	1461.2
47.5°	1613.5	1625.3	1674.7	1744.0	1803.7	1823.1	1768.5	1683.5	1586.1	1549.8	1552.0
50°	1655.7	1663.0	1716.8	1795.6	1871.1	1911.4	1867.4	1780.2	1677.7	1639.2	1644.3
52.5°	1660.8	1669.6	1728.2	1819.0	1915.7	1976.9	1955.3	1874.7	1771.1	1731.5	1742.5
55°	1619.0	1624.2	1694.1	1804.4	1933.3	2025.6	2031.1	1962.6	1860.1	1830.0	1837.4
57.5°	1500.0	1513.2	1601.8	1735.9	1909.2	2051.6	2087.9	2042.5	1950.2	1920.5	1932.2
60°	1304.8	1317.9	1407.0	1576.9	1817.9	2039.6	2134.8	2113.2	2031.9	2008.1	2014.3
62.5°	1022.3	1021.2	1131.5	1339.9	1636.6	1980.2	2169.6	2181.3	2112.4	2082.4	2091.9
65°	662.6	665.9	772.5	997.1	1363.0	1829.3	2177.3	2268.1	2191.6	2146.1	2153.1
66°	533.0	542.9	633.3	840.3	1223.4	1730.4	2154.2	2293.8	2215.7	2160.8	2164.1
67.5°	393.4	391.6	465.9	625.6	976.9	1542.5	2082.0	2309.9	2243.2	2174.0	2175.5
70°	224.5	224.2	250.5	343.6	574.4	1086.1	1754.9	2232.6	2298.9	2221.6	2217.6
72.5°	164.1	163.0	166.7	189.7	280.2	548.4	1210.6	1951.3	2270.3	2213.9	2202.6
75°	137.7	137.0	136.3	139.2	157.1	248.4	642.5	1403.7	1970.0	2078.0	2066.3
77.5°	112.5	112.5	112.8	112.1	112.8	130.8	266.3	752.4	1199.6	1339.2	1371.8
80°	87.9	87.5	93.8	91.2	85.3	83.9	117.9	242.1	398.2	396.0	326.7
82.5°	64.8	60.4	71.4	69.6	63.0	53.5	68.9	103.3	133.0	86.4	64.1
85°	41.0	40.7	50.5	46.2	38.5	25.3	33.0	44.3	54.9	33.3	27.1
87.5°	7.3	7.0	16.1	11.7	11.7	7.3	9.2	12.1	17.9	12.5	9.2
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)