

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: P647749

Luminaire Tested: **GALN-SA2A-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6355.6 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

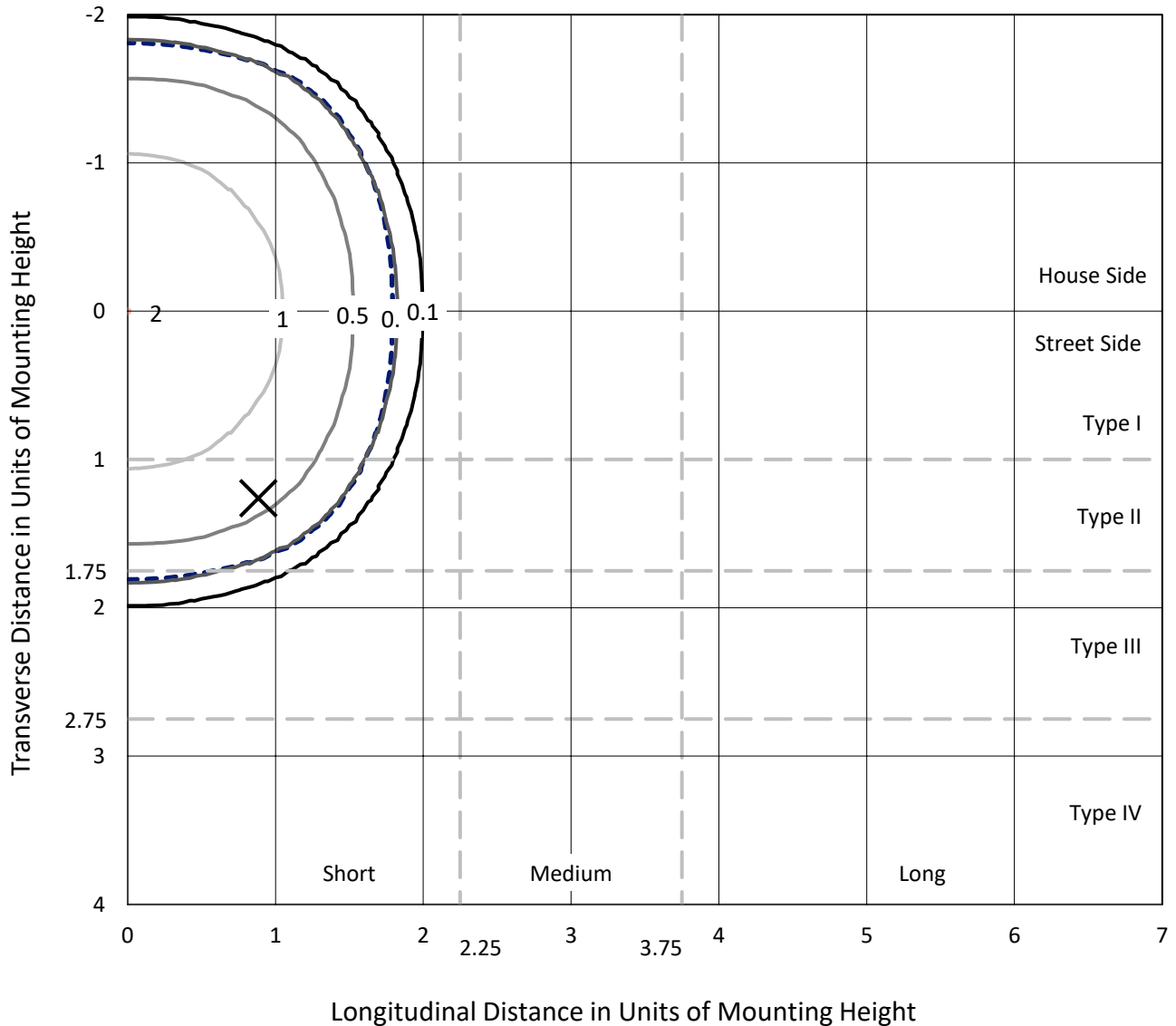
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

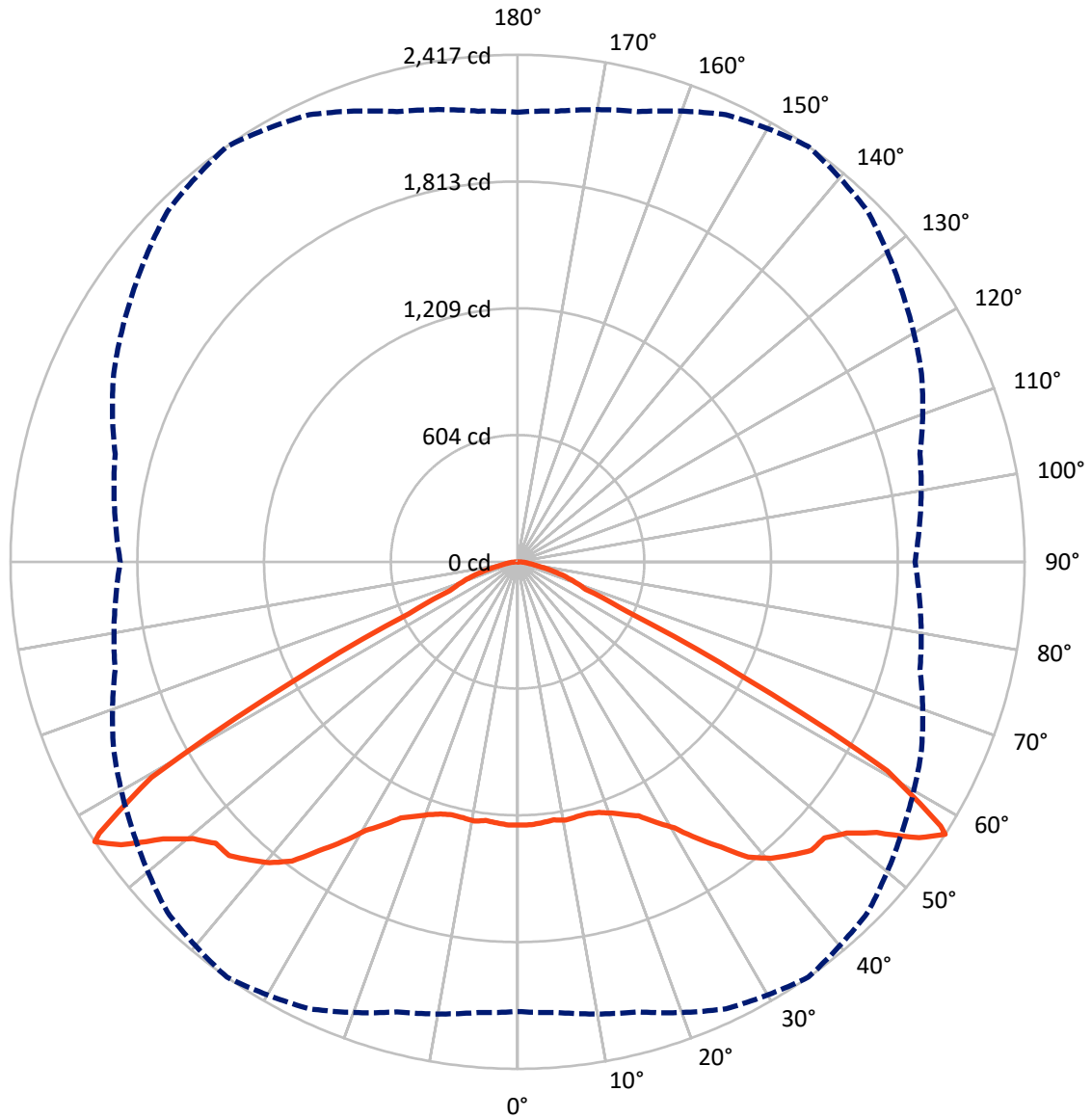
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3177.8	0.0	3177.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3177.8	0.0	3177.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6355.6	0.0	6355.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	1.9
10°-20°	352.4	5.5
20°-30°	615.5	9.7
30°-40°	1008.6	15.9
40°-50°	1478.8	23.3
50°-60°	1862.6	29.3
60°-70°	700.5	11.0
70°-80°	186.3	2.9
80°-90°	31.9	0.5
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°	6355.6	100.0
0°-180°	6355.6	100.0



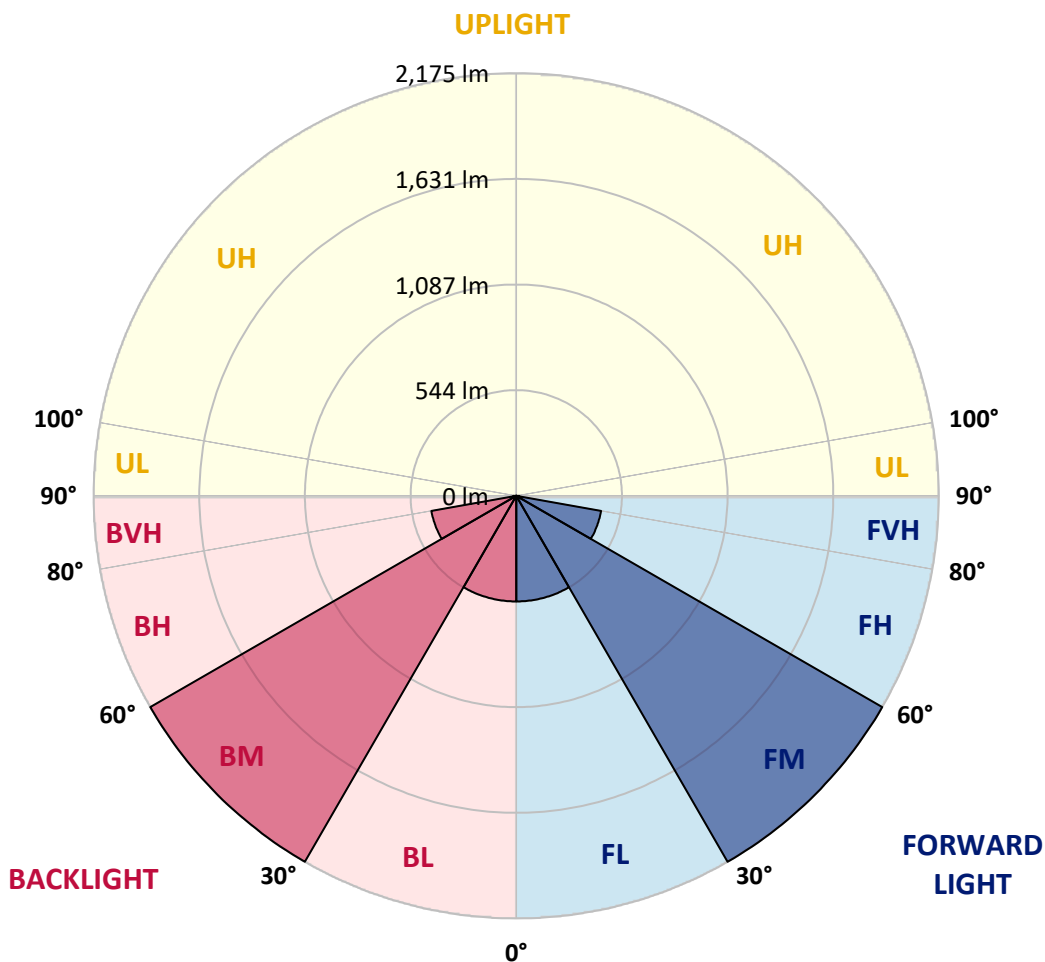
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.5	8.6			
FM (30°-60°)	2175.0	34.2			
FH (60°-80°)	443.4	7.0			G0/660
FVH (80°-90°)	16.0	0.3			G1/100
BL (0°-30°)	543.5	8.6	B2/1000		
BM (30°-60°)	2175.0	34.2	B2/2500		
BH (60°-80°)	443.4	7.0	B1/500		G0/660
BVH (80°-90°)	16.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1
2.5°	1248.9	1261.4	1255.9	1252.8	1255.1	1251.2	1245.0	1252.0	1250.5	1244.2	1241.8
5°	1245.8	1255.1	1248.9	1255.1	1248.9	1259.8	1256.7	1245.0	1259.1	1245.8	1250.5
7.5°	1243.4	1246.5	1248.1	1245.0	1242.6	1255.9	1248.9	1243.4	1235.6	1233.2	1237.1
10°	1237.9	1245.8	1234.0	1249.7	1252.8	1243.4	1243.4	1233.2	1227.0	1223.0	1236.4
12.5°	1252.0	1238.7	1237.1	1245.0	1247.3	1251.2	1240.3	1234.8	1223.0	1224.6	1222.3
15°	1235.6	1241.1	1241.8	1243.4	1245.8	1255.1	1245.0	1233.2	1228.5	1212.1	1213.6
17.5°	1241.8	1236.4	1241.8	1259.8	1256.7	1263.8	1252.8	1234.8	1223.8	1214.4	1227.0
20°	1252.8	1250.5	1252.8	1274.7	1278.6	1284.9	1275.5	1259.1	1237.9	1227.0	1233.2
22.5°	1264.5	1263.0	1264.5	1285.7	1308.4	1316.3	1306.8	1268.5	1257.5	1237.1	1230.1
25°	1285.7	1287.3	1303.7	1327.3	1342.1	1357.0	1339.8	1312.3	1277.1	1264.5	1249.7
27.5°	1332.7	1336.7	1346.1	1380.5	1406.3	1419.7	1395.4	1357.8	1335.9	1310.0	1306.0
30°	1390.7	1390.7	1407.1	1436.9	1472.1	1492.5	1462.7	1418.1	1391.5	1377.4	1368.8
32.5°	1467.4	1458.8	1465.1	1517.5	1572.3	1589.6	1549.6	1494.8	1452.5	1433.8	1427.5
35°	1533.2	1538.7	1552.8	1609.1	1670.2	1710.2	1647.5	1576.3	1533.2	1516.0	1512.8
37.5°	1618.5	1627.9	1635.0	1712.5	1786.1	1801.0	1740.7	1683.5	1631.1	1617.0	1609.1
40°	1739.1	1732.9	1735.2	1792.4	1858.9	1868.3	1808.8	1768.1	1725.0	1716.4	1716.4
42.5°	1838.6	1831.5	1839.3	1860.5	1911.4	1904.3	1871.4	1841.7	1823.7	1814.3	1823.7
45°	1898.9	1897.3	1911.4	1927.0	1963.1	1939.6	1913.7	1918.4	1901.2	1885.5	1884.8
47.5°	1964.6	1954.4	1971.7	1995.2	1967.8	1956.8	1955.2	1965.4	1959.9	1932.5	1923.9
50°	1996.7	1992.8	2020.2	2047.6	2032.7	2007.7	2013.2	2029.6	1959.1	1922.3	1901.2
52.5°	2082.9	2083.6	2136.1	2151.0	2144.7	2107.9	2119.7	2075.0	1992.0	1940.4	1942.7
55°	2218.3	2212.8	2271.6	2315.4	2322.5	2275.5	2219.1	2156.5	2052.3	1999.9	1984.2
57°	2143.9	2156.5	2221.4	2351.4	2417.2	2361.6	2238.7	2124.4	1985.8	1922.3	1894.2
57.5°	2044.5	2064.8	2177.6	2308.4	2377.3	2372.6	2214.4	2064.8	1941.1	1842.5	1844.8
60°	1498.0	1501.9	1603.7	1811.2	2026.5	2031.2	1838.6	1640.5	1502.7	1395.4	1410.3
62.5°	790.0	808.1	848.8	1015.6	1201.9	1247.3	1130.7	1028.9	909.8	828.4	836.2
65°	418.1	415.8	435.3	482.3	573.9	597.4	581.8	501.1	459.6	446.3	447.1
67.5°	339.8	343.7	341.4	343.7	350.0	360.2	357.8	361.0	363.3	367.2	366.4
70°	288.1	288.1	289.7	290.5	290.5	295.2	300.7	310.9	311.6	315.5	317.1
72.5°	227.1	225.5	227.9	233.3	234.1	238.0	245.9	252.1	254.5	254.5	249.8
75°	154.3	155.8	158.9	163.6	168.3	175.4	181.7	185.6	187.1	184.8	182.4
77.5°	86.9	88.5	90.8	97.9	103.4	109.6	116.7	120.6	124.5	125.3	120.6
80°	51.7	51.7	55.6	61.1	67.3	73.6	79.9	84.6	86.1	86.1	83.8
82.5°	31.3	32.1	35.2	40.7	46.2	50.1	55.6	59.5	62.6	61.9	60.3
85°	16.4	16.4	19.6	24.3	28.2	32.1	32.1	29.8	28.2	24.3	22.7
87.5°	5.5	4.7	6.3	6.3	5.5	6.3	6.3	7.0	7.0	7.0	7.0
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)