

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: P651715

Luminaire Tested: **GALN-SA2A-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6561.6 lumens
Efficiency: N/A
Efficacy: 104.2 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

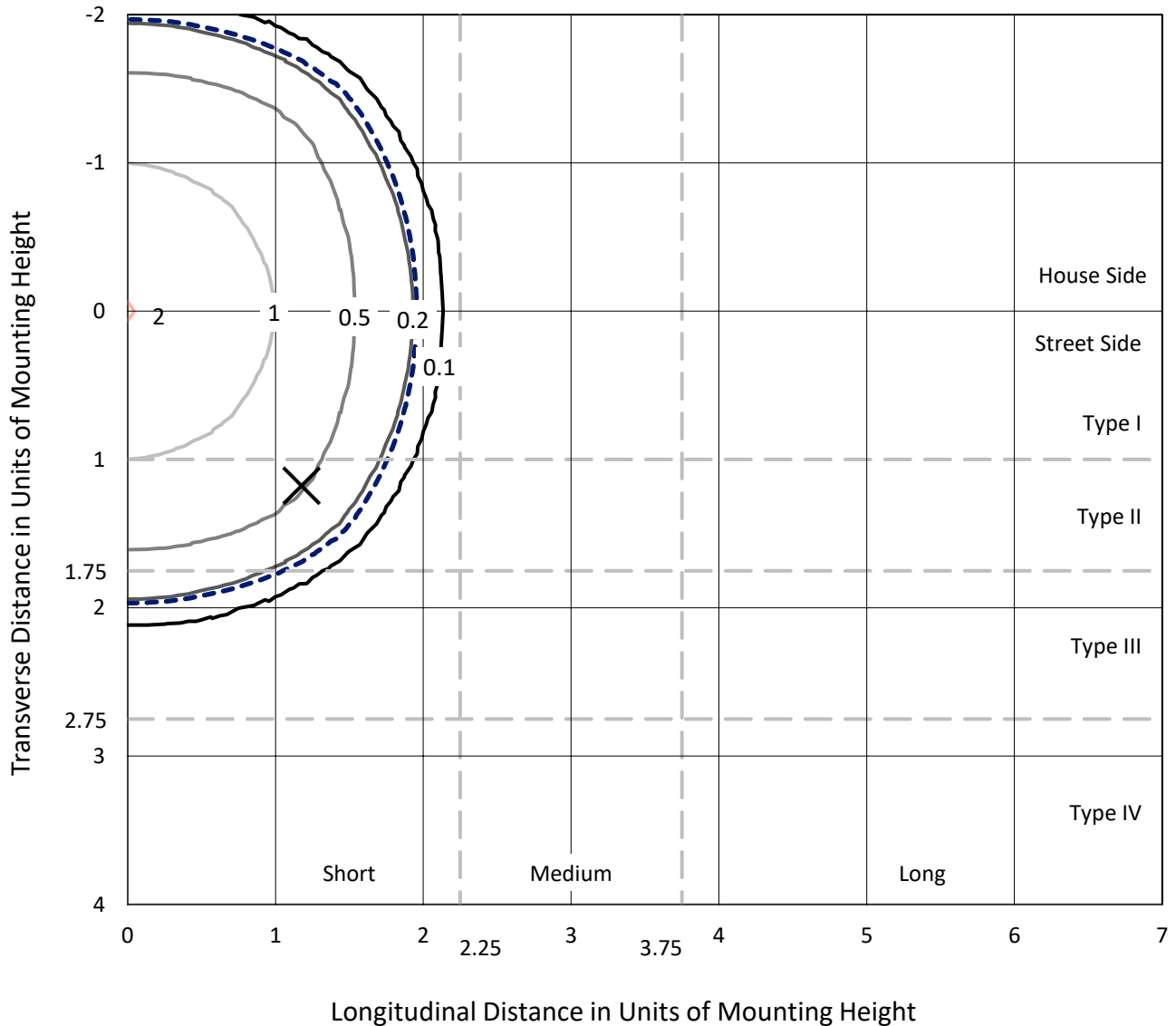




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Iso-Footcandle Lines of Horizontal Illumination

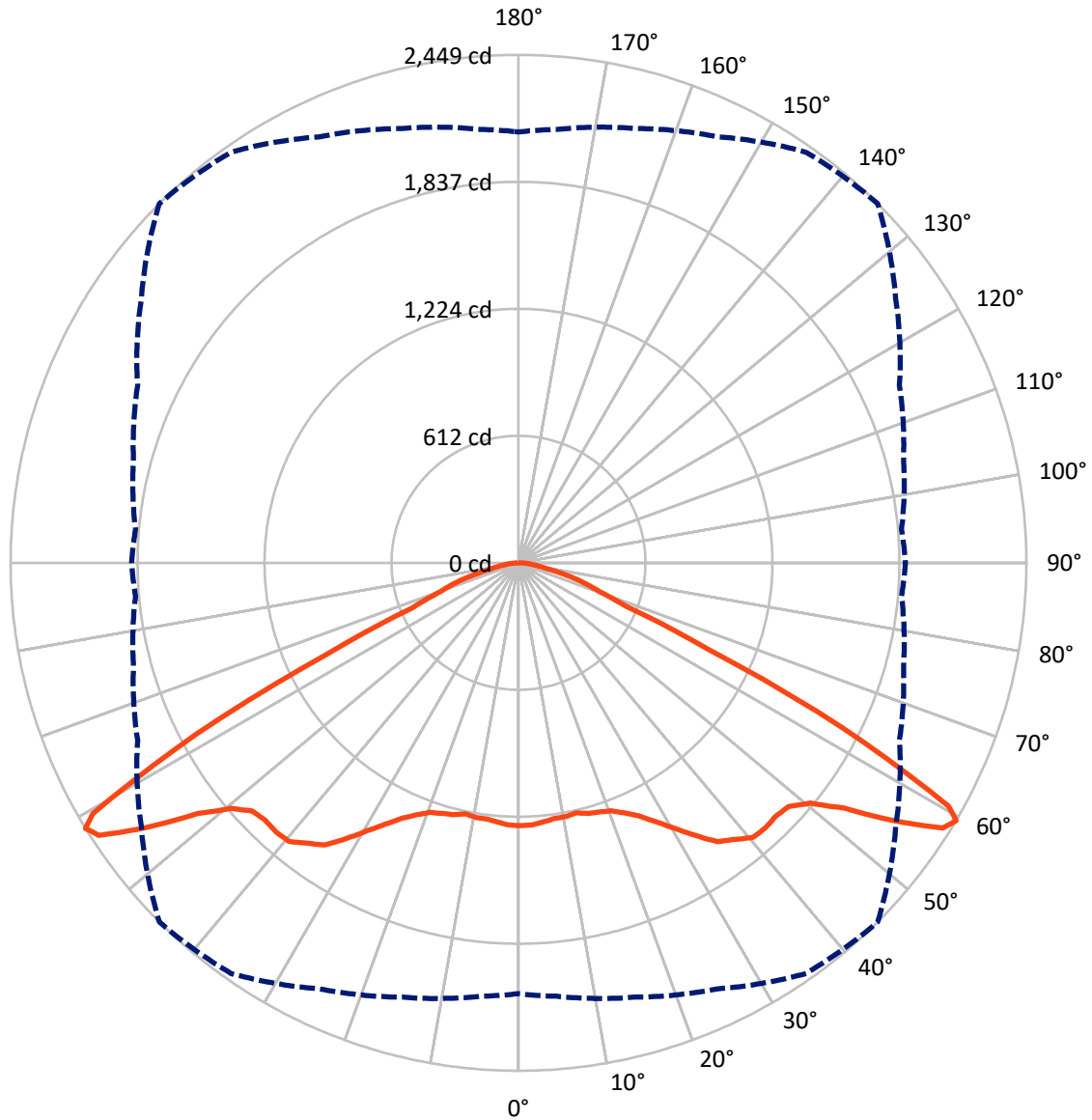
× Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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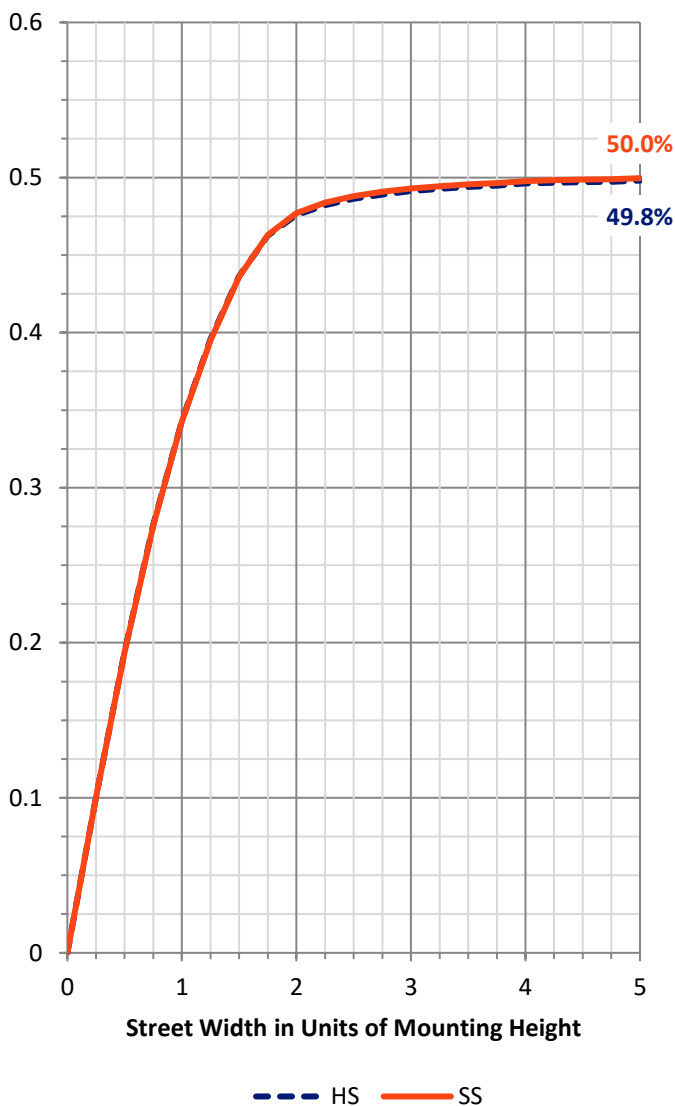
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3280.8	0.0	3280.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3280.8	0.0	3280.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6561.6	0.0	6561.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	1.8
10°-20°	355.3	5.4
20°-30°	620.4	9.5
30°-40°	990.8	15.1
40°-50°	1349.7	20.6
50°-60°	1825.2	27.8
60°-70°	1000.9	15.3
70°-80°	256.1	3.9
80°-90°	43.7	0.7
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°	6561.6	100.0
0°-180°	6561.6	100.0

Coefficient of Utilization



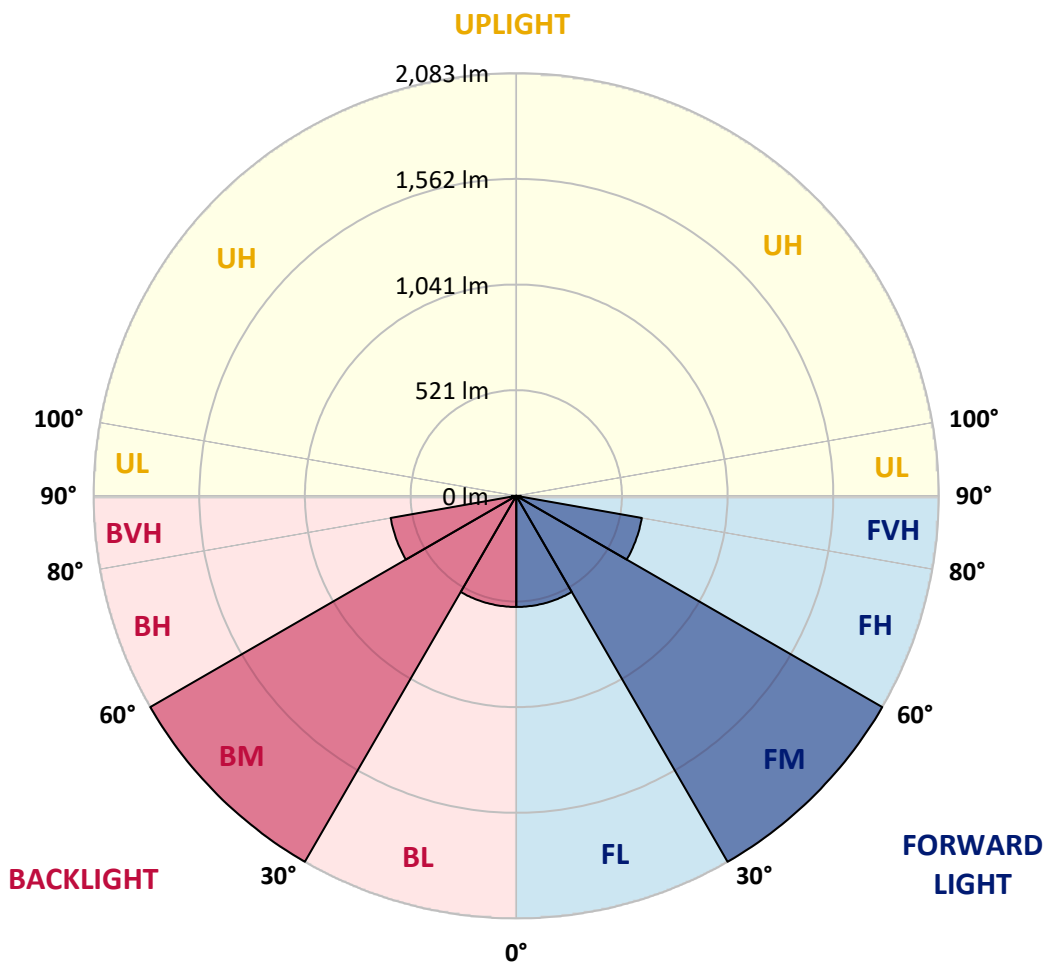
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	547.6	8.3			
FM (30°-60°)	2082.9	31.7			
FH (60°-80°)	628.5	9.6			G0/660
FVH (80°-90°)	21.8	0.3			G1/100
BL (0°-30°)	547.6	8.3	B2/1000		
BM (30°-60°)	2082.9	31.7	B2/2500		
BH (60°-80°)	628.5	9.6	B2/1000		G0/660
BVH (80°-90°)	21.8	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°	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4
2.5°	1259.8	1269.1	1262.3	1268.2	1267.4	1264.9	1260.7	1258.1	1254.8	1259.8	1251.4
5°	1254.8	1262.3	1269.9	1259.8	1259.8	1254.8	1252.2	1247.2	1247.2	1246.4	1245.5
7.5°	1263.2	1255.6	1252.2	1253.9	1255.6	1244.7	1252.2	1242.2	1233.7	1239.6	1246.4
10°	1255.6	1259.0	1246.4	1252.2	1243.0	1244.7	1239.6	1246.4	1237.1	1237.1	1237.1
12.5°	1263.2	1253.9	1258.1	1253.9	1251.4	1237.1	1243.8	1236.3	1235.4	1243.8	1236.3
15°	1278.3	1263.2	1259.8	1251.4	1253.9	1253.9	1247.2	1248.0	1238.8	1243.8	1245.5
17.5°	1273.3	1264.9	1262.3	1252.2	1260.7	1263.2	1250.6	1242.2	1248.0	1247.2	1246.4
20°	1277.5	1280.8	1278.3	1280.0	1283.4	1276.6	1264.9	1253.1	1245.5	1256.5	1255.6
22.5°	1304.4	1301.0	1299.3	1297.7	1303.6	1310.3	1294.3	1275.8	1275.8	1283.4	1286.7
25°	1326.3	1325.4	1324.6	1332.1	1352.3	1352.3	1332.1	1308.6	1302.7	1307.8	1303.6
27.5°	1358.2	1367.5	1364.1	1377.6	1407.0	1413.7	1386.8	1359.1	1343.1	1337.2	1344.8
30°	1431.4	1420.4	1423.0	1437.3	1463.3	1485.2	1444.0	1414.6	1392.7	1391.9	1395.2
32.5°	1480.2	1488.6	1496.1	1509.6	1550.8	1567.6	1518.0	1470.1	1456.6	1449.0	1451.6
35°	1577.7	1570.1	1568.5	1581.9	1623.1	1650.9	1588.6	1546.6	1528.9	1545.8	1545.8
37.5°	1670.2	1649.2	1633.2	1650.9	1688.7	1692.1	1639.1	1616.4	1607.2	1626.5	1625.7
40°	1714.0	1712.3	1675.3	1685.4	1735.8	1740.9	1691.3	1664.3	1662.7	1687.9	1713.1
42.5°	1759.4	1743.4	1706.4	1713.1	1744.2	1745.9	1698.8	1691.3	1709.8	1734.1	1735.8
45°	1766.9	1753.5	1729.9	1713.1	1735.8	1740.9	1713.1	1718.2	1719.8	1749.3	1749.3
47.5°	1782.1	1780.4	1766.9	1754.3	1758.5	1754.3	1736.7	1744.2	1769.5	1783.8	1777.0
50°	1824.1	1806.5	1819.9	1809.0	1809.8	1821.6	1805.6	1813.2	1808.2	1795.5	1787.1
52.5°	1916.6	1908.2	1920.0	1927.6	1936.0	1962.9	1944.4	1904.0	1866.2	1832.5	1831.7
55°	2052.0	2057.9	2080.6	2119.3	2152.1	2195.0	2105.9	2009.1	1948.6	1895.6	1899.0
57.5°	2179.9	2175.7	2206.8	2295.1	2390.9	2412.7	2237.9	2100.0	2001.6	1967.9	1953.6
59°	2077.3	2097.5	2168.1	2266.5	2416.9	2448.9	2220.2	2026.0	1921.7	1853.6	1865.3
60°	1915.8	1923.4	1986.4	2123.5	2327.0	2381.6	2101.7	1911.6	1772.8	1733.3	1751.0
62.5°	1354.0	1348.1	1393.5	1505.4	1687.9	1761.9	1562.6	1428.9	1341.4	1297.7	1307.8
65°	719.9	746.8	765.3	835.1	931.8	1010.0	927.6	869.6	820.8	784.7	783.8
67.5°	486.1	482.7	486.9	502.9	535.7	557.6	555.9	526.5	522.3	515.5	523.1
70°	409.6	407.9	400.3	400.3	407.0	412.1	418.0	421.3	428.1	436.5	435.6
72.5°	332.2	328.0	322.9	320.4	328.8	331.4	338.9	342.3	348.2	347.3	354.9
75°	219.5	219.5	225.4	232.1	234.6	239.7	240.5	250.6	250.6	252.3	245.6
77.5°	122.8	119.4	123.6	130.4	136.2	145.5	154.7	162.3	166.5	164.8	164.8
80°	71.5	71.5	75.7	83.3	90.8	99.2	106.0	111.9	116.1	114.4	111.0
82.5°	44.6	44.6	48.8	56.3	62.2	67.3	76.5	84.1	89.1	87.5	83.3
85°	22.7	22.7	27.8	32.8	40.4	43.7	42.9	39.5	38.7	34.5	34.5
87.5°	5.9	5.9	8.4	9.3	7.6	8.4	8.4	8.4	8.4	8.4	9.3
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)