

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: P458605

Luminaire Tested: **GALN-SA1D-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458605  
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-SA1D-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7523 lumens  
Efficiency: N/A  
Efficacy: 115.7 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): 65  
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

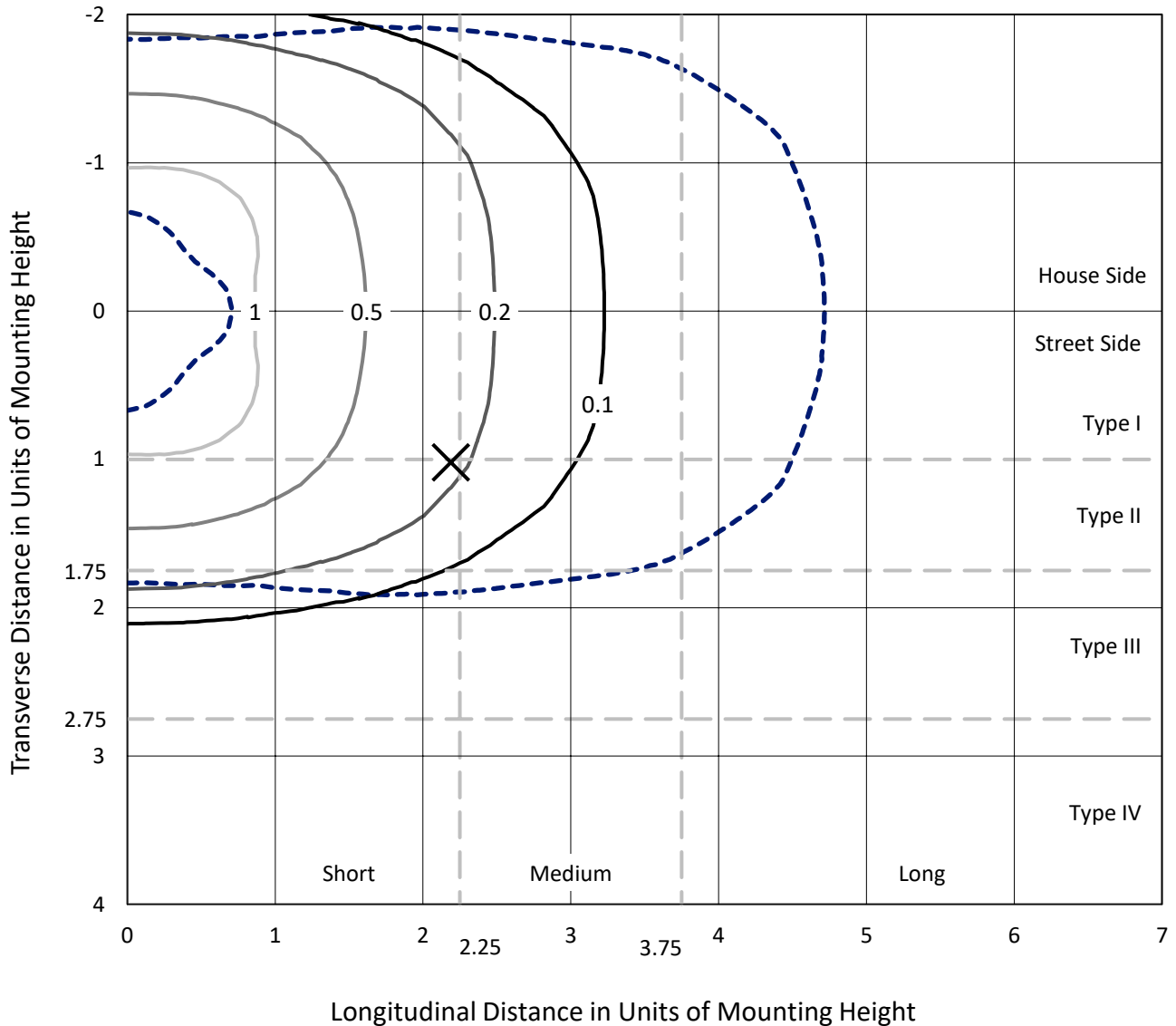




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### Iso-Footcandle Lines of Horizontal Illumination

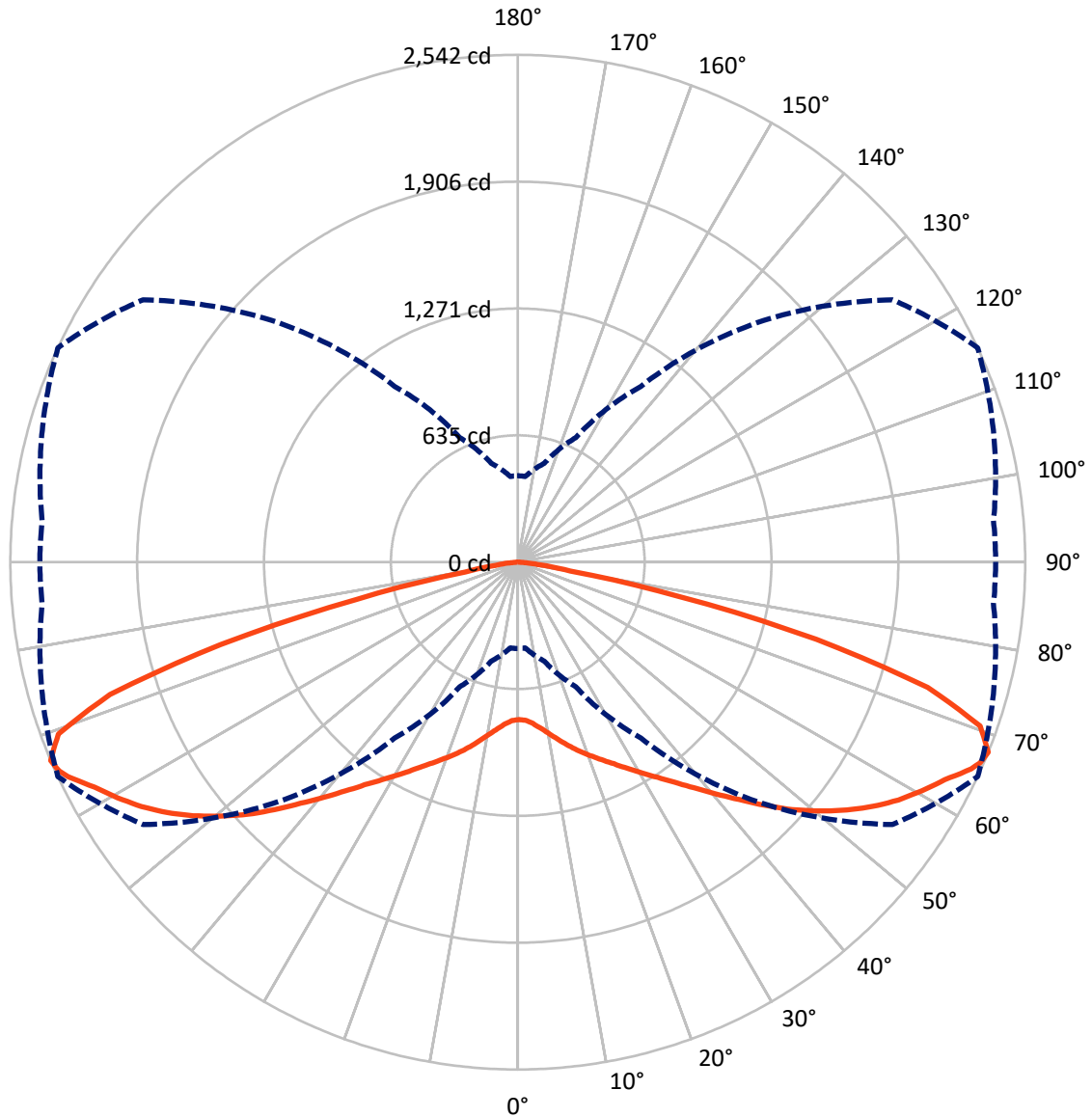
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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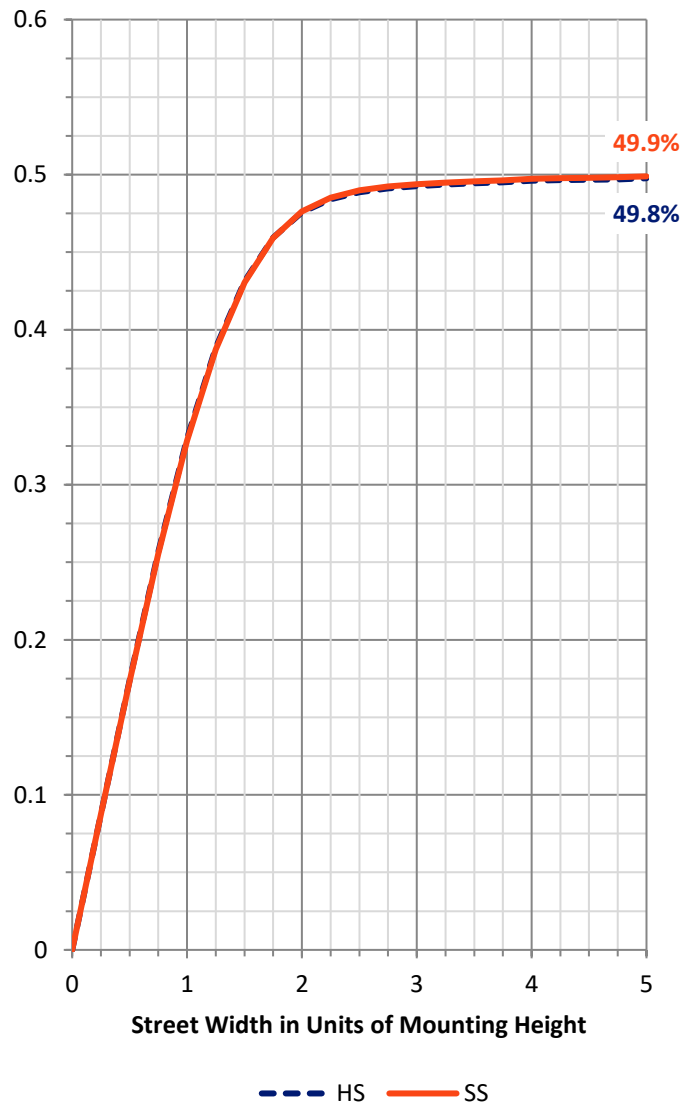
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3761.5	0.0	3761.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3761.5	0.0	3761.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7523.0	0.0	7523.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.7	1.0
10°-20°	260.1	3.5
20°-30°	508.8	6.8
30°-40°	865.4	11.5
40°-50°	1369.6	18.2
50°-60°	1816.1	24.1
60°-70°	1713.1	22.8
70°-80°	846.9	11.3
80°-90°	65.3	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°	7523.0	100.0
0°-180°	7523.0	100.0

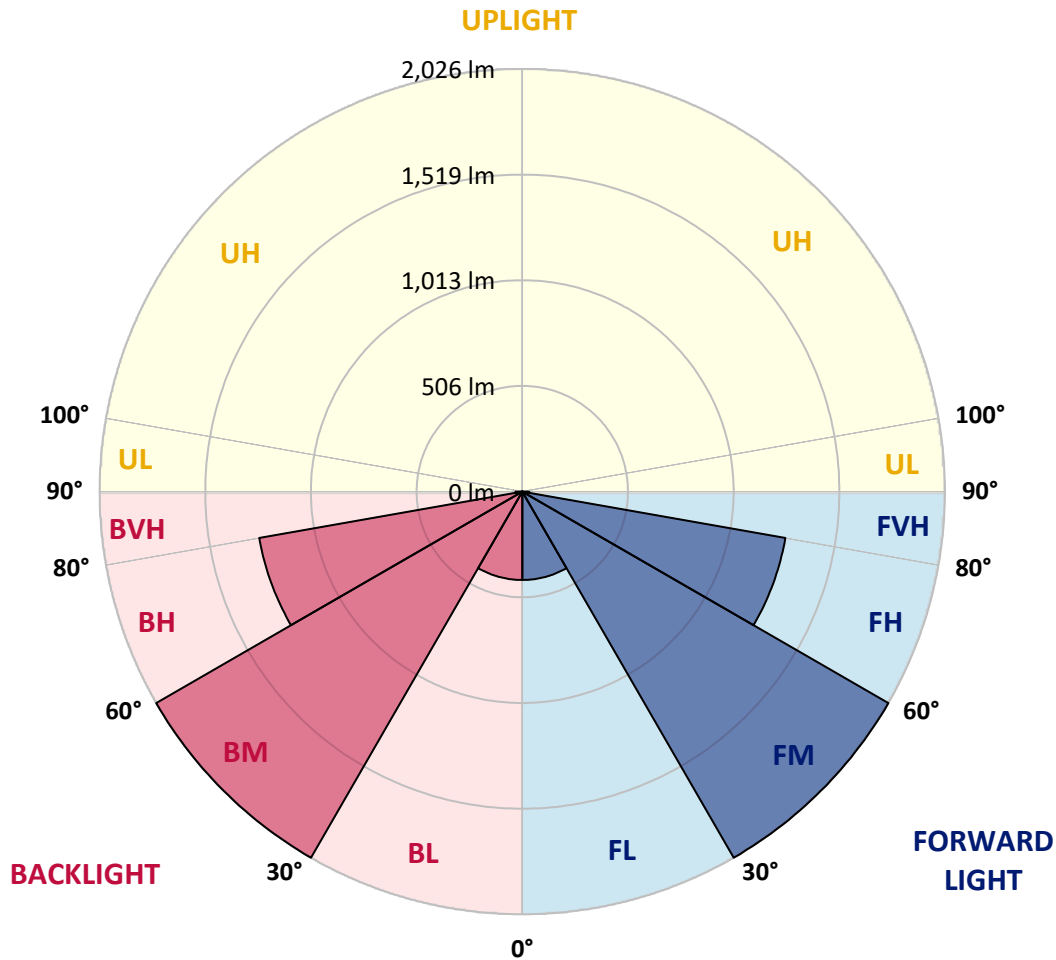


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.3	5.6			
FM	(30°-60°)	2025.5	26.9			
FH	(60°-80°)	1280.0	17.0			G1/1800
FVH	(80°-90°)	32.6	0.4			G1/100
BL	(0°-30°)	423.3	5.6	B1/500		
BM	(30°-60°)	2025.5	26.9	B2/2500		
BH	(60°-80°)	1280.0	17.0	B3/2500		G3/2500
BVH	(80°-90°)	32.6	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°	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0
2.5°	783.9	784.7	785.5	786.8	788.4	790.8	792.4	793.6	796.8	797.2	796.8
5°	781.1	781.9	783.9	787.6	792.8	800.1	805.7	812.6	817.8	821.4	820.6
7.5°	780.7	782.3	785.5	793.2	803.3	815.8	828.7	840.4	850.4	858.5	857.3
10°	787.2	789.2	794.4	805.7	821.4	839.6	857.7	875.0	889.5	900.0	903.6
12.5°	798.0	799.7	809.3	826.3	848.8	871.4	892.0	913.3	933.5	951.2	951.2
15°	817.0	819.8	831.9	856.5	884.3	910.5	931.5	954.0	975.8	995.9	1002.0
17.5°	843.2	847.2	865.4	896.8	932.3	956.4	976.2	994.7	1013.7	1033.0	1035.8
20°	879.1	883.1	907.3	945.2	987.1	1016.1	1029.4	1033.8	1043.1	1061.6	1064.1
22.5°	927.8	931.9	958.9	1001.6	1048.3	1079.8	1085.4	1074.9	1072.5	1087.0	1088.6
25°	983.0	986.7	1017.7	1063.7	1112.0	1146.3	1144.7	1118.9	1104.4	1113.2	1115.6
27.5°	1045.1	1050.4	1081.8	1129.4	1181.8	1212.0	1207.1	1169.7	1138.6	1137.0	1137.8
30°	1124.5	1130.2	1160.0	1205.5	1257.1	1284.9	1274.9	1224.5	1176.5	1160.4	1160.4
32.5°	1208.4	1222.5	1252.7	1300.2	1340.6	1360.7	1345.4	1284.9	1221.2	1198.7	1197.5
35°	1317.6	1325.2	1355.1	1401.4	1431.6	1447.4	1417.9	1353.0	1279.7	1253.1	1249.5
37.5°	1424.4	1430.8	1465.5	1509.8	1546.5	1545.7	1505.8	1434.1	1352.2	1322.4	1320.0
40°	1533.6	1540.5	1580.0	1620.7	1657.4	1654.1	1605.8	1525.6	1438.5	1405.0	1411.5
42.5°	1628.3	1636.0	1680.7	1738.8	1771.8	1771.0	1715.0	1624.7	1534.0	1504.2	1509.8
45°	1714.6	1721.4	1773.4	1839.9	1888.3	1894.3	1833.1	1737.6	1644.5	1606.2	1607.8
47.5°	1775.4	1788.3	1842.8	1918.9	1984.6	2006.0	1945.9	1852.4	1745.2	1705.3	1707.7
50°	1821.8	1829.9	1889.1	1975.8	2058.8	2103.1	2054.8	1958.8	1846.0	1803.7	1809.3
52.5°	1827.4	1837.1	1901.6	2001.6	2108.0	2175.3	2151.5	2062.8	1948.8	1905.2	1917.3
55°	1781.5	1787.1	1864.1	1985.4	2127.3	2228.9	2234.9	2159.6	2046.7	2013.7	2021.7
57.5°	1650.5	1665.0	1762.5	1910.1	2100.7	2257.5	2297.4	2247.4	2145.9	2113.2	2126.1
60°	1435.7	1450.2	1548.1	1735.1	2000.4	2244.2	2349.0	2325.2	2235.7	2209.5	2216.4
62.5°	1124.9	1123.7	1245.0	1474.4	1800.8	2178.9	2387.3	2400.2	2324.4	2291.4	2301.8
65°	729.1	732.7	850.0	1097.1	1499.8	2012.8	2395.7	2495.7	2411.5	2361.5	2369.1
66°	586.4	597.3	696.9	924.6	1346.2	1904.0	2370.4	2523.9	2438.1	2377.6	2381.2
67.5°	432.9	430.9	512.7	688.4	1074.9	1697.3	2291.0	2541.6	2468.3	2392.1	2393.7
70°	247.1	246.7	275.7	378.1	632.0	1195.1	1931.0	2456.6	2529.6	2444.5	2440.1
72.5°	180.6	179.4	183.4	208.8	308.3	603.4	1332.1	2147.1	2498.1	2436.1	2423.6
75°	151.5	150.7	149.9	153.2	172.9	273.3	707.0	1544.5	2167.6	2286.5	2273.6
77.5°	123.7	123.7	124.1	123.3	124.1	143.9	293.0	827.9	1320.0	1473.6	1509.4
80°	96.7	96.3	103.2	100.4	93.9	92.3	129.8	266.4	438.1	435.7	359.5
82.5°	71.3	66.5	78.6	76.6	69.3	58.8	75.8	113.7	146.3	95.1	70.5
85°	45.1	44.7	55.6	50.8	42.3	27.8	36.3	48.8	60.5	36.7	29.8
87.5°	8.1	7.7	17.7	12.9	12.9	8.1	10.1	13.3	19.7	13.7	10.1
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)