

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: P451152

Luminaire Tested: **GALN-SA2A-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451152
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-SA2A-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8641 lumens
Efficiency: N/A
Efficacy: 137.2 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): 63
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

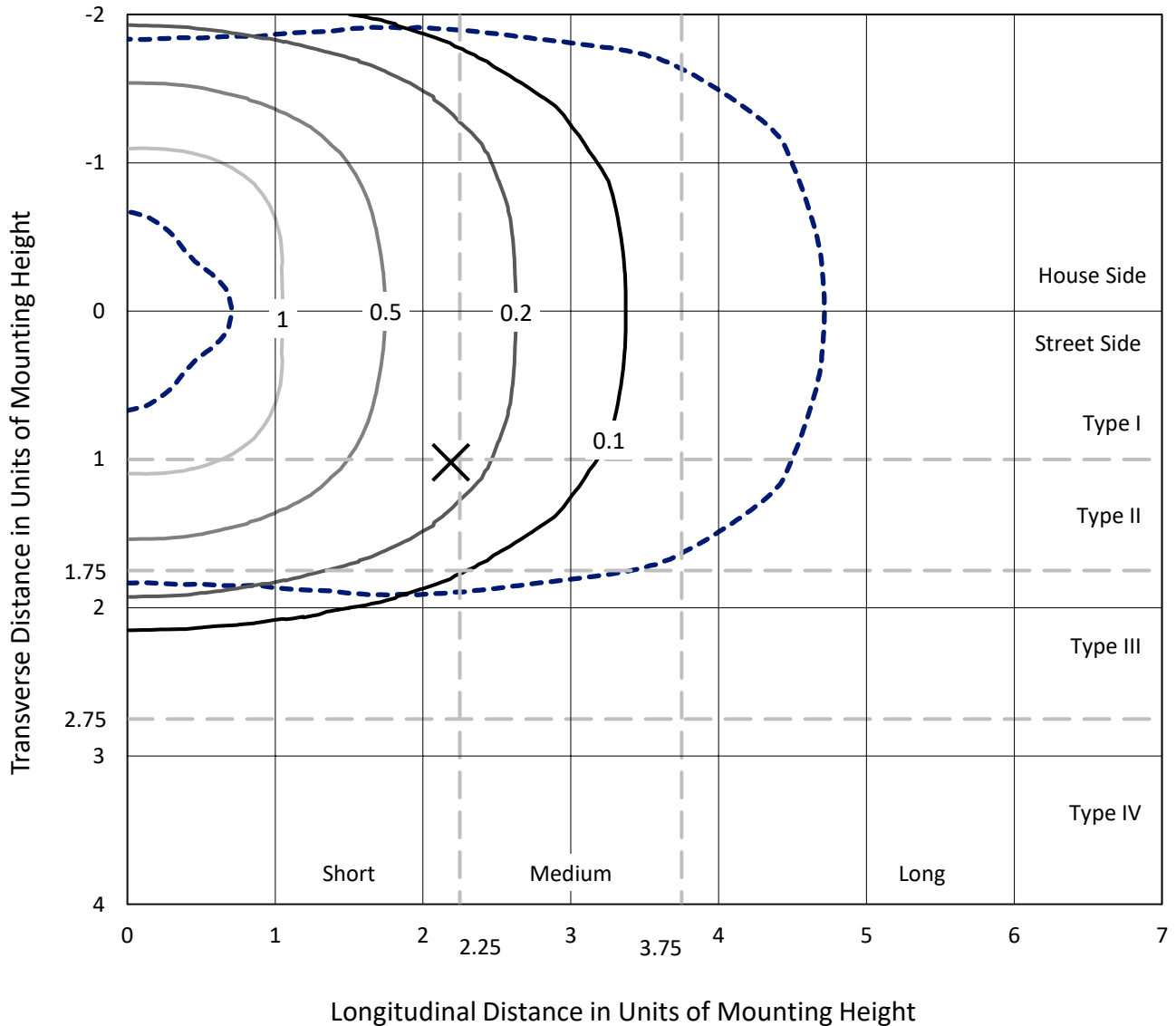




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Iso-Footcandle Lines of Horizontal Illumination

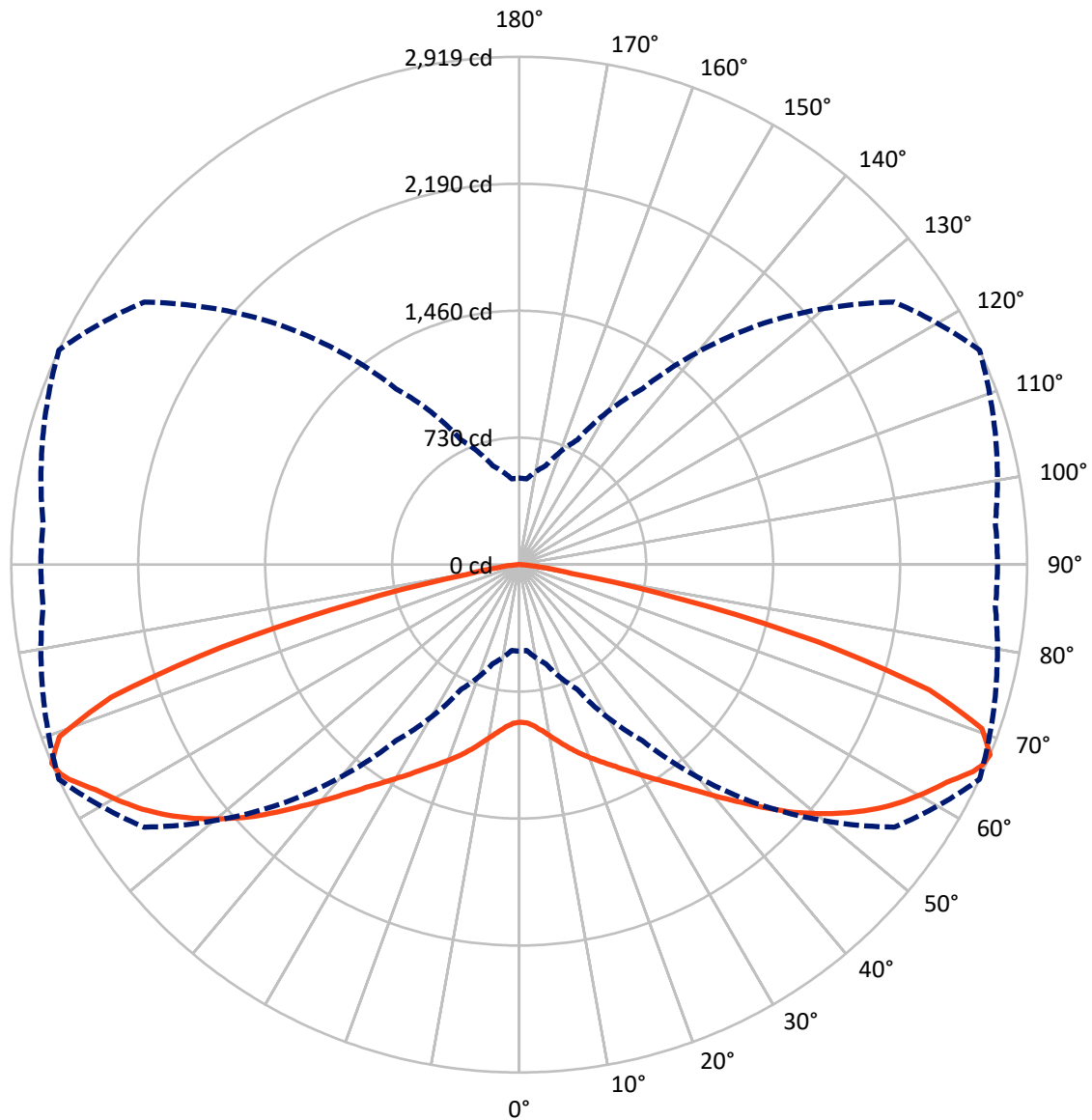
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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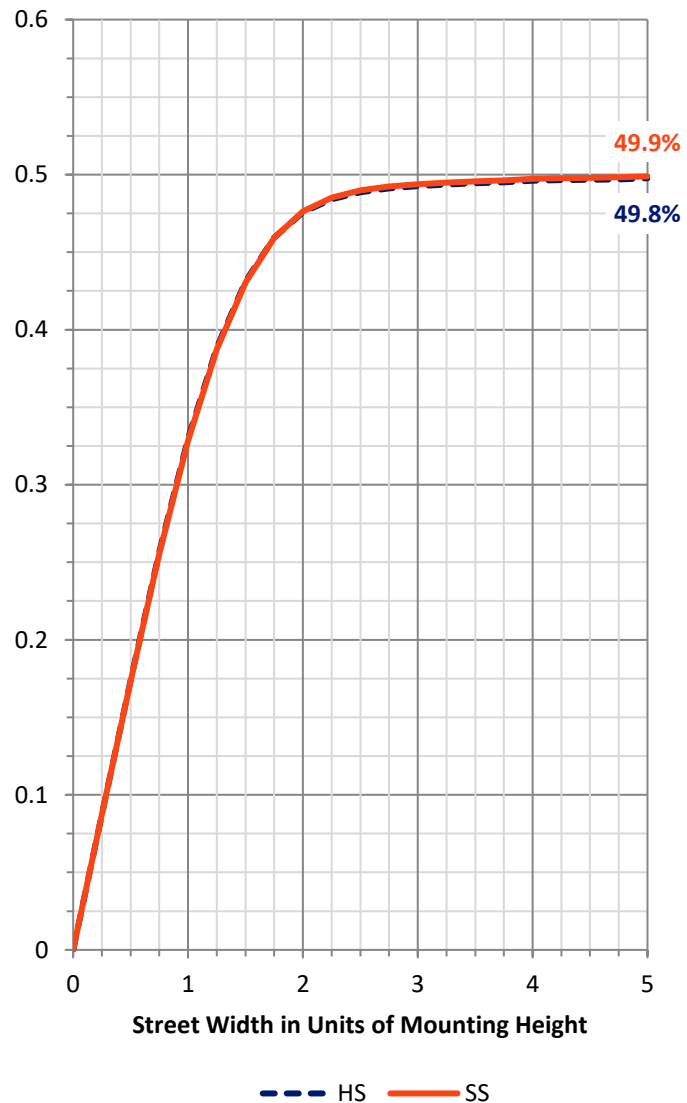
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4320.5	0.0	4320.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4320.5	0.0	4320.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8641.0	0.0	8641.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.0
10°-20°	298.8	3.5
20°-30°	584.4	6.8
30°-40°	994.0	11.5
40°-50°	1573.2	18.2
50°-60°	2086.0	24.1
60°-70°	1967.7	22.8
70°-80°	972.7	11.3
80°-90°	75.0	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°	8641.0	100.0
0°-180°	8641.0	100.0



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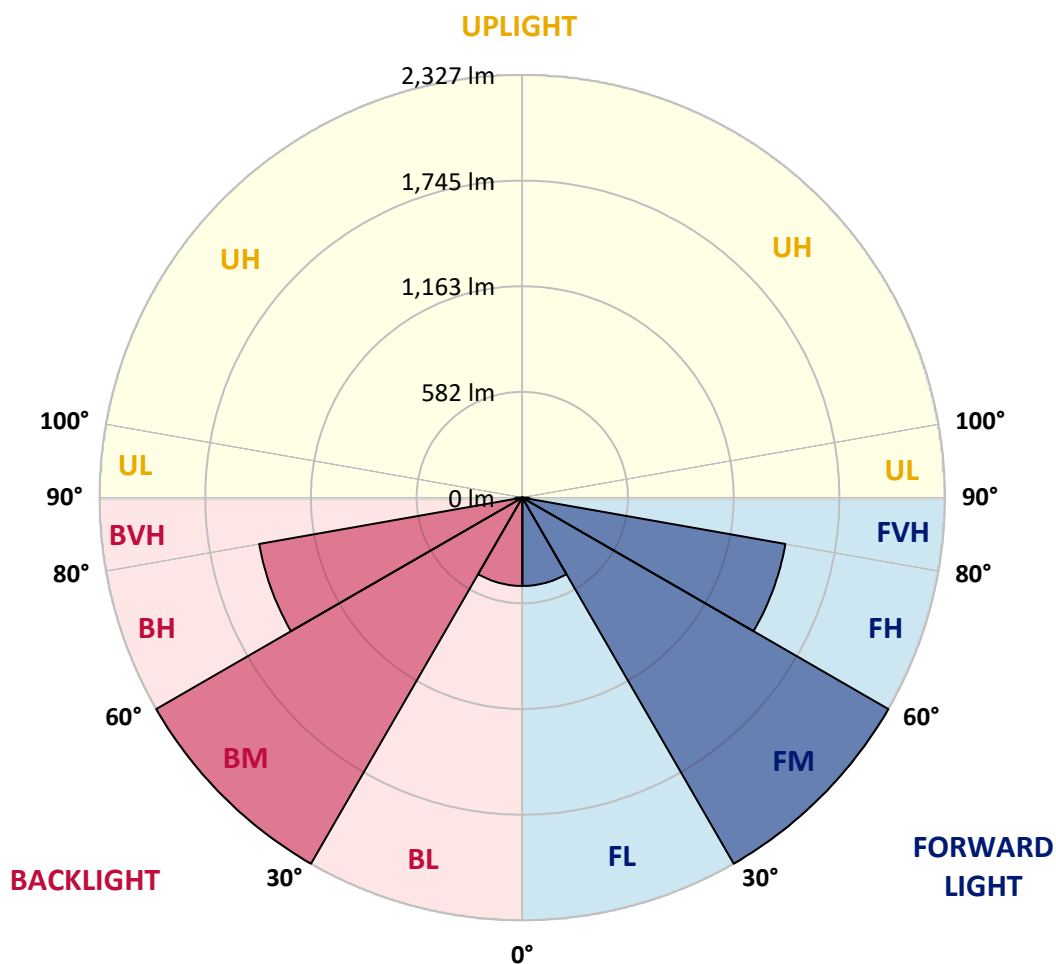
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	486.2	5.6			
FM	(30°-60°)	2326.6	26.9			
FH	(60°-80°)	1470.2	17.0			G1/1800
FVH	(80°-90°)	37.5	0.4			G1/100
BL	(0°-30°)	486.2	5.6	B1/500		
BM	(30°-60°)	2326.6	26.9	B2/2500		
BH	(60°-80°)	1470.2	17.0	B3/2500		G3/2500
BVH	(80°-90°)	37.5	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°	905.1	905.1	905.1	905.1	905.1	905.1	905.1	905.1	905.1	905.1	905.1
2.5°	900.4	901.4	902.3	903.7	905.5	908.3	910.2	911.5	915.3	915.7	915.3
5°	897.2	898.1	900.4	904.6	910.6	919.0	925.4	933.3	939.3	943.5	942.6
7.5°	896.7	898.6	902.3	911.1	922.7	937.0	951.8	965.3	976.8	986.1	984.7
10°	904.1	906.5	912.5	925.4	943.5	964.3	985.2	1005.1	1021.7	1033.8	1037.9
12.5°	916.6	918.5	929.6	949.0	975.0	1000.9	1024.5	1049.0	1072.2	1092.6	1092.6
15°	938.4	941.6	955.5	983.8	1015.7	1045.8	1069.9	1095.8	1120.8	1144.0	1150.9
17.5°	968.5	973.1	994.0	1030.1	1070.8	1098.6	1121.3	1142.6	1164.3	1186.5	1189.8
20°	1009.7	1014.3	1042.1	1085.6	1133.8	1167.1	1182.4	1187.5	1198.1	1219.4	1222.2
22.5°	1065.7	1070.3	1101.4	1150.4	1204.1	1240.2	1246.7	1234.7	1231.9	1248.6	1250.4
25°	1129.1	1133.3	1169.0	1221.7	1277.3	1316.6	1314.8	1285.2	1268.5	1278.7	1281.4
27.5°	1200.4	1206.4	1242.6	1297.2	1357.4	1392.1	1386.5	1343.5	1307.8	1306.0	1306.9
30°	1291.6	1298.1	1332.4	1384.7	1443.9	1475.9	1464.3	1406.4	1351.4	1332.8	1332.8
32.5°	1387.9	1404.1	1438.9	1493.5	1539.8	1562.9	1545.3	1475.9	1402.7	1376.8	1375.4
35°	1513.4	1522.2	1556.4	1609.7	1644.4	1662.5	1628.7	1554.1	1469.9	1439.3	1435.1
37.5°	1636.1	1643.5	1683.3	1734.2	1776.3	1775.4	1729.6	1647.2	1553.2	1518.9	1516.2
40°	1761.5	1769.4	1814.8	1861.5	1903.7	1899.9	1844.4	1752.3	1652.3	1613.8	1621.3
42.5°	1870.3	1879.1	1930.5	1997.2	2035.1	2034.2	1969.9	1866.2	1762.0	1727.7	1734.2
45°	1969.4	1977.3	2037.0	2113.4	2168.9	2175.9	2105.5	1995.8	1888.8	1844.9	1846.7
47.5°	2039.3	2054.1	2116.6	2204.1	2279.6	2304.1	2235.1	2127.7	2004.6	1958.7	1961.5
50°	2092.5	2101.8	2169.8	2269.4	2364.8	2415.7	2360.1	2249.9	2120.3	2071.7	2078.2
52.5°	2099.0	2110.1	2184.2	2299.0	2421.2	2498.5	2471.2	2369.4	2238.4	2188.4	2202.3
55°	2046.2	2052.7	2141.1	2280.5	2443.5	2560.1	2567.1	2480.5	2350.9	2312.9	2322.2
57.5°	1895.8	1912.4	2024.5	2193.9	2412.9	2593.0	2638.8	2581.4	2464.7	2427.3	2442.1
60°	1649.0	1665.7	1778.2	1993.0	2297.6	2577.7	2698.1	2670.8	2568.0	2537.9	2545.8
62.5°	1292.1	1290.7	1430.1	1693.5	2068.5	2502.7	2742.1	2756.9	2669.8	2631.9	2643.9
65°	837.5	841.6	976.4	1260.2	1722.6	2312.0	2751.8	2866.6	2769.8	2712.4	2721.2
66°	673.6	686.1	800.4	1062.0	1546.3	2187.0	2722.6	2899.0	2800.4	2730.9	2735.1
67.5°	497.2	494.9	588.9	790.7	1234.7	1949.5	2631.4	2919.4	2835.1	2747.6	2749.5
70°	283.8	283.3	316.7	434.2	725.9	1372.6	2218.0	2821.7	2905.5	2807.8	2802.7
72.5°	207.4	206.0	210.6	239.8	354.2	693.0	1530.1	2466.1	2869.4	2798.1	2783.7
75°	174.1	173.1	172.2	175.9	198.6	313.9	812.0	1774.0	2489.7	2626.3	2611.5
77.5°	142.1	142.1	142.6	141.7	142.6	165.3	336.6	950.9	1516.2	1692.5	1733.8
80°	111.1	110.6	118.5	115.3	107.9	106.0	149.1	306.0	503.2	500.4	413.0
82.5°	81.9	76.4	90.3	88.0	79.6	67.6	87.0	130.6	168.1	109.3	81.0
85°	51.9	51.4	63.9	58.3	48.6	31.9	41.7	56.0	69.4	42.1	34.3
87.5°	9.3	8.8	20.4	14.8	14.8	9.3	11.6	15.3	22.7	15.7	11.6
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)