

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: P651723

Luminaire Tested: **GALN-SA2A-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651723
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-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7979.4 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

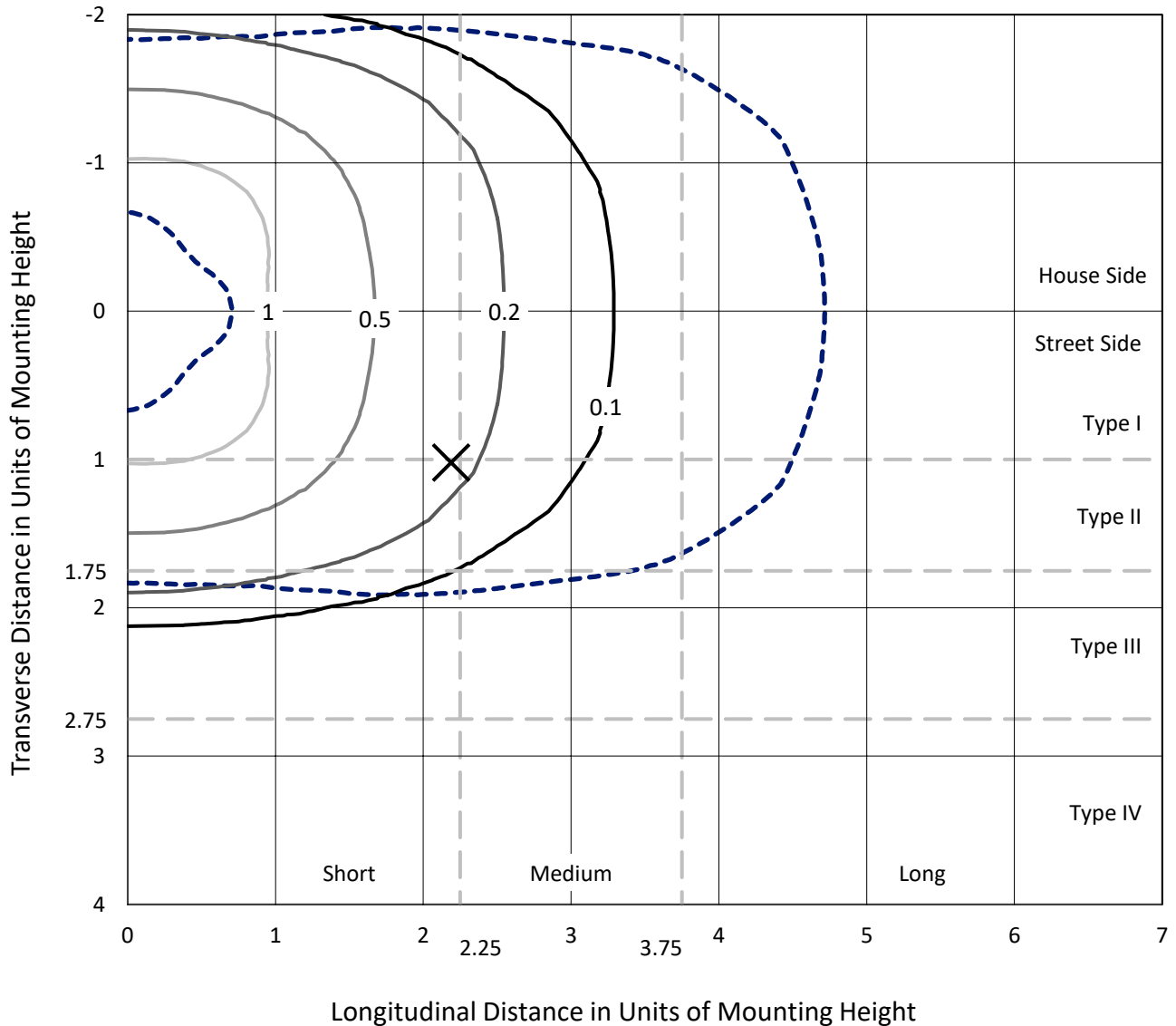
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

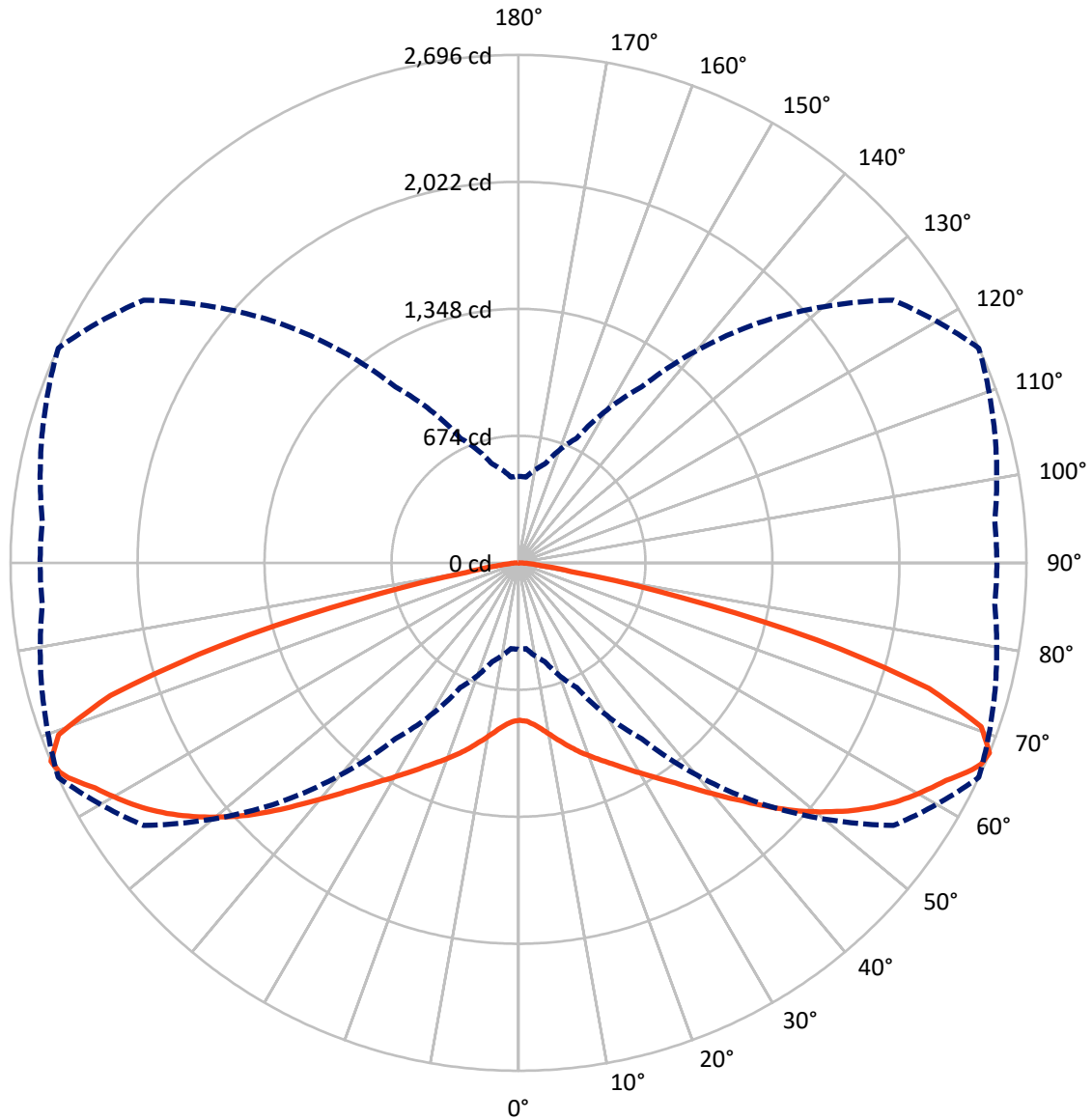
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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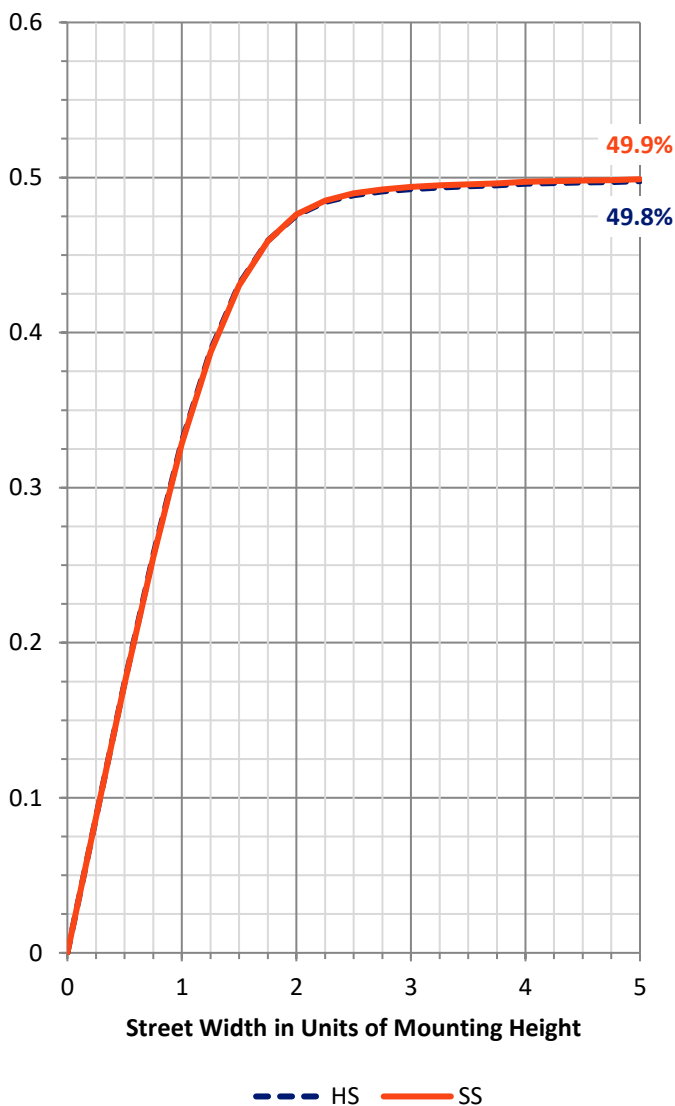
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3989.7	0.0	3989.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3989.7	0.0	3989.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	7979.4	0.0	7979.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	1.0
10°-20°	275.9	3.5
20°-30°	539.6	6.8
30°-40°	917.9	11.5
40°-50°	1452.7	18.2
50°-60°	1926.3	24.1
60°-70°	1817.1	22.8
70°-80°	898.3	11.3
80°-90°	69.2	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°	7979.4	100.0
0°-180°	7979.4	100.0

Coefficient of Utilization



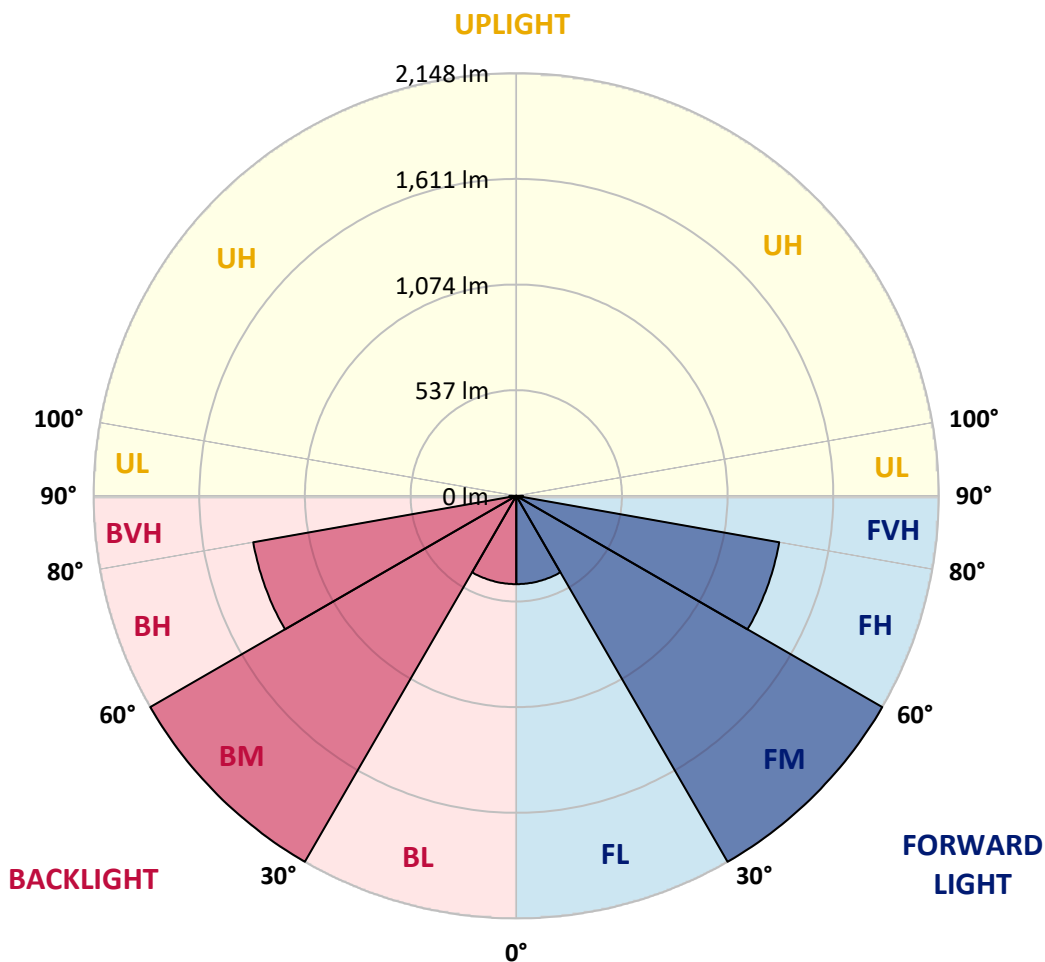
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	449.0	5.6			
FM	(30°-60°)	2148.4	26.9			
FH	(60°-80°)	1357.7	17.0			G1/1800
FVH	(80°-90°)	34.6	0.4			G1/100
BL	(0°-30°)	449.0	5.6	B1/500		
BM	(30°-60°)	2148.4	26.9	B2/2500		
BH	(60°-80°)	1357.7	17.0	B3/2500		G3/2500
BVH	(80°-90°)	34.6	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°	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8
2.5°	831.5	832.3	833.2	834.5	836.2	838.7	840.5	841.8	845.2	845.6	845.2
5°	828.5	829.4	831.5	835.4	840.9	848.6	854.6	861.9	867.4	871.3	870.4
7.5°	828.0	829.8	833.2	841.3	852.0	865.3	878.9	891.4	902.1	910.6	909.3
10°	834.9	837.0	842.6	854.6	871.3	890.5	909.7	928.1	943.5	954.6	958.5
12.5°	846.5	848.1	858.4	876.4	900.3	924.3	946.0	968.7	990.1	1008.9	1008.9
15°	866.6	869.5	882.4	908.4	938.0	965.7	987.9	1011.9	1035.0	1056.4	1062.8
17.5°	894.3	898.6	917.9	951.2	988.8	1014.5	1035.4	1055.1	1075.1	1095.7	1098.7
20°	932.4	936.7	962.3	1002.5	1047.0	1077.7	1091.9	1096.6	1106.4	1126.0	1128.6
22.5°	984.1	988.4	1017.0	1062.4	1112.0	1145.3	1151.2	1140.1	1137.6	1153.0	1154.7
25°	1042.7	1046.5	1079.4	1128.2	1179.5	1215.8	1214.2	1186.7	1171.3	1180.8	1183.4
27.5°	1108.5	1114.1	1147.5	1197.8	1253.4	1285.5	1280.3	1240.6	1207.7	1206.0	1206.8
30°	1192.7	1198.8	1230.4	1278.7	1333.4	1362.9	1352.2	1298.8	1247.9	1230.8	1230.8
32.5°	1281.7	1296.7	1328.7	1379.2	1421.9	1443.2	1427.0	1362.9	1295.3	1271.4	1270.1
35°	1397.5	1405.6	1437.3	1486.5	1518.5	1535.2	1504.0	1435.2	1357.3	1329.1	1325.2
37.5°	1510.8	1517.7	1554.4	1601.4	1640.4	1639.4	1597.1	1521.0	1434.2	1402.6	1400.1
40°	1626.7	1633.9	1675.9	1719.0	1757.9	1754.5	1703.2	1618.1	1525.7	1490.3	1497.1
42.5°	1727.2	1735.2	1782.7	1844.2	1879.3	1878.5	1819.0	1723.3	1627.1	1595.5	1601.4
45°	1818.6	1825.9	1881.1	1951.5	2002.8	2009.2	1944.3	1843.0	1744.2	1703.6	1705.3
47.5°	1883.2	1896.9	1954.6	2035.4	2105.0	2127.7	2064.0	1964.8	1851.1	1808.7	1811.3
50°	1932.3	1940.9	2003.7	2095.6	2183.7	2230.8	2179.5	2077.7	1957.9	1913.1	1919.1
52.5°	1938.3	1948.6	2017.0	2123.0	2235.9	2307.3	2282.1	2187.9	2067.0	2020.8	2033.6
55°	1889.6	1895.5	1977.2	2105.9	2256.4	2364.1	2370.5	2290.5	2170.9	2135.8	2144.4
57.5°	1750.6	1766.0	1869.5	2026.0	2228.1	2394.5	2436.8	2383.7	2276.0	2241.4	2255.1
60°	1522.8	1538.2	1642.1	1840.4	2121.7	2380.4	2491.5	2466.3	2371.4	2343.6	2350.8
62.5°	1193.1	1191.9	1320.5	1563.8	1910.1	2311.1	2532.1	2545.8	2465.4	2430.4	2441.5
65°	773.4	777.2	901.6	1163.7	1590.8	2135.0	2541.1	2647.1	2557.7	2504.8	2512.9
66°	622.0	633.5	739.2	980.7	1427.8	2019.5	2514.2	2677.1	2586.0	2521.8	2525.7
67.5°	459.1	457.0	543.8	730.2	1140.1	1800.2	2429.9	2695.8	2618.0	2537.2	2539.0
70°	262.1	261.6	292.4	401.0	670.4	1267.6	2048.2	2605.7	2683.0	2592.8	2588.1
72.5°	191.5	190.2	194.5	221.4	327.1	640.0	1412.9	2277.3	2649.7	2583.8	2570.6
75°	160.7	159.9	159.0	162.5	183.4	289.8	749.8	1638.2	2299.1	2425.3	2411.6
77.5°	131.3	131.3	131.7	130.8	131.7	152.6	310.8	878.1	1400.1	1563.0	1601.0
80°	102.6	102.2	109.4	106.5	99.6	97.9	137.7	282.6	464.7	462.1	381.3
82.5°	75.7	70.6	83.3	81.2	73.5	62.4	80.4	120.5	155.2	100.9	74.8
85°	47.9	47.4	59.0	53.8	44.9	29.5	38.4	51.7	64.1	38.9	31.6
87.5°	8.6	8.2	18.8	13.7	13.7	8.6	10.7	14.1	20.9	14.5	10.7
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)