

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: P458634

Luminaire Tested: **GALN-SA2A-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458634
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-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8839 lumens
Efficiency: N/A
Efficacy: 140.3 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

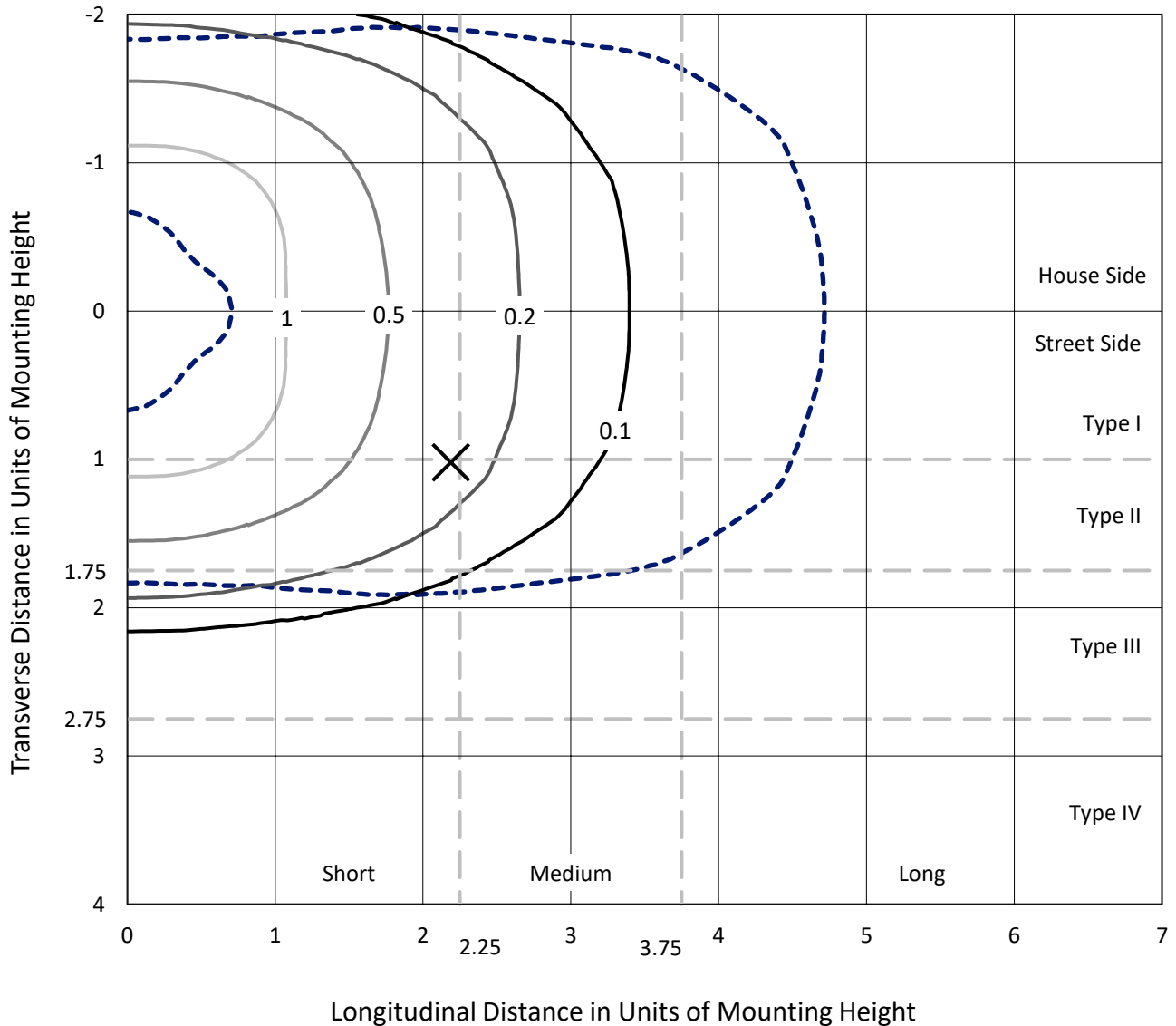




REPORT NUMBER: P458634
 CATALOG NUMBER: GALN-SA2A-735-U-RW

Iso-Footcandle Lines of Horizontal Illumination

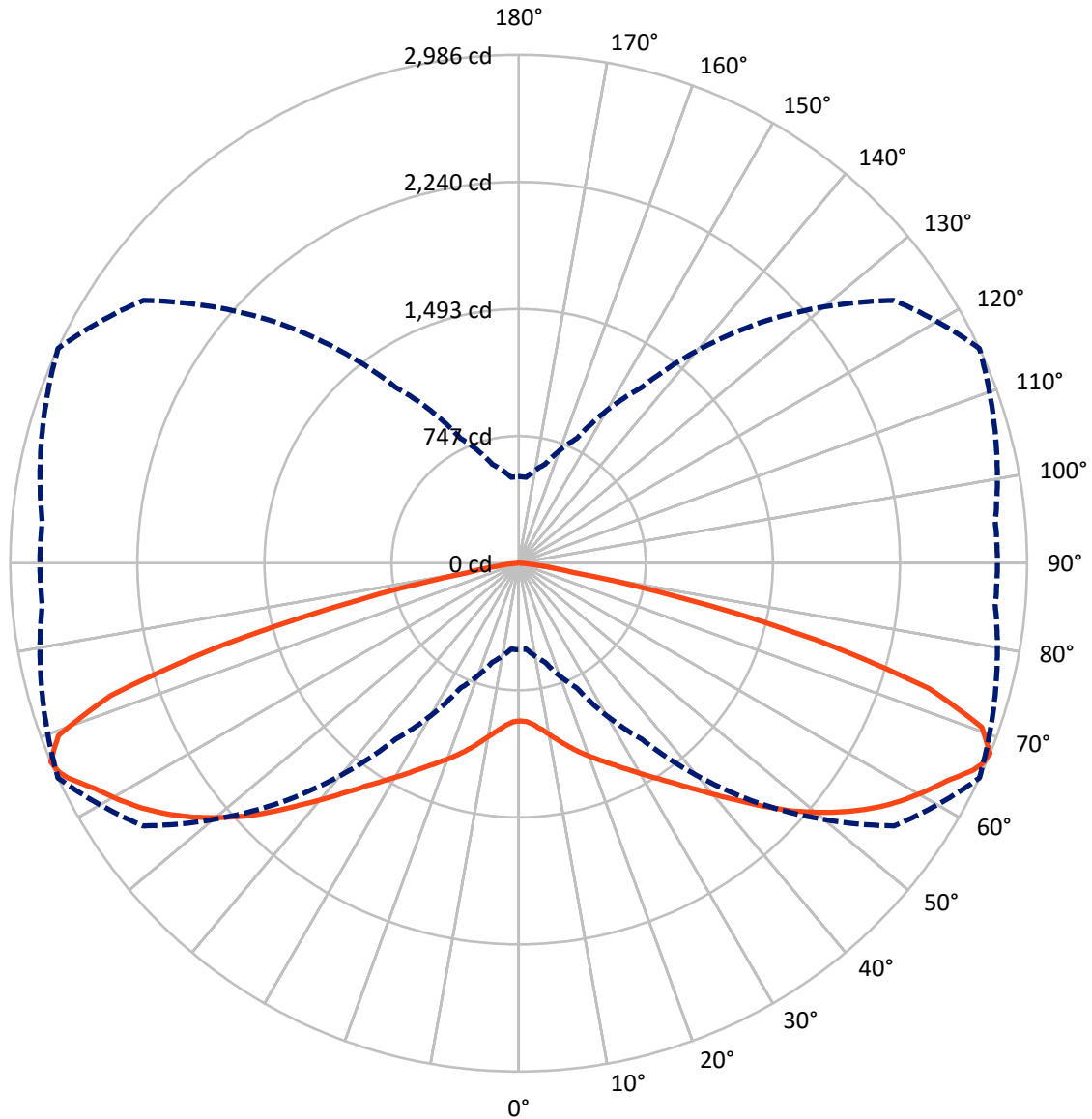
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

REPORT NUMBER: P458634
CATALOG NUMBER: GALN-SA2A-735-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P458634

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4419.5	0.0	4419.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4419.5	0.0	4419.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8839.0	0.0	8839.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	1.0
10°-20°	305.6	3.5
20°-30°	597.8	6.8
30°-40°	1016.8	11.5
40°-50°	1609.2	18.2
50°-60°	2133.8	24.1
60°-70°	2012.8	22.8
70°-80°	995.0	11.3
80°-90°	76.7	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°	8839.0	100.0
0°-180°	8839.0	100.0



REPORT NUMBER: P458634

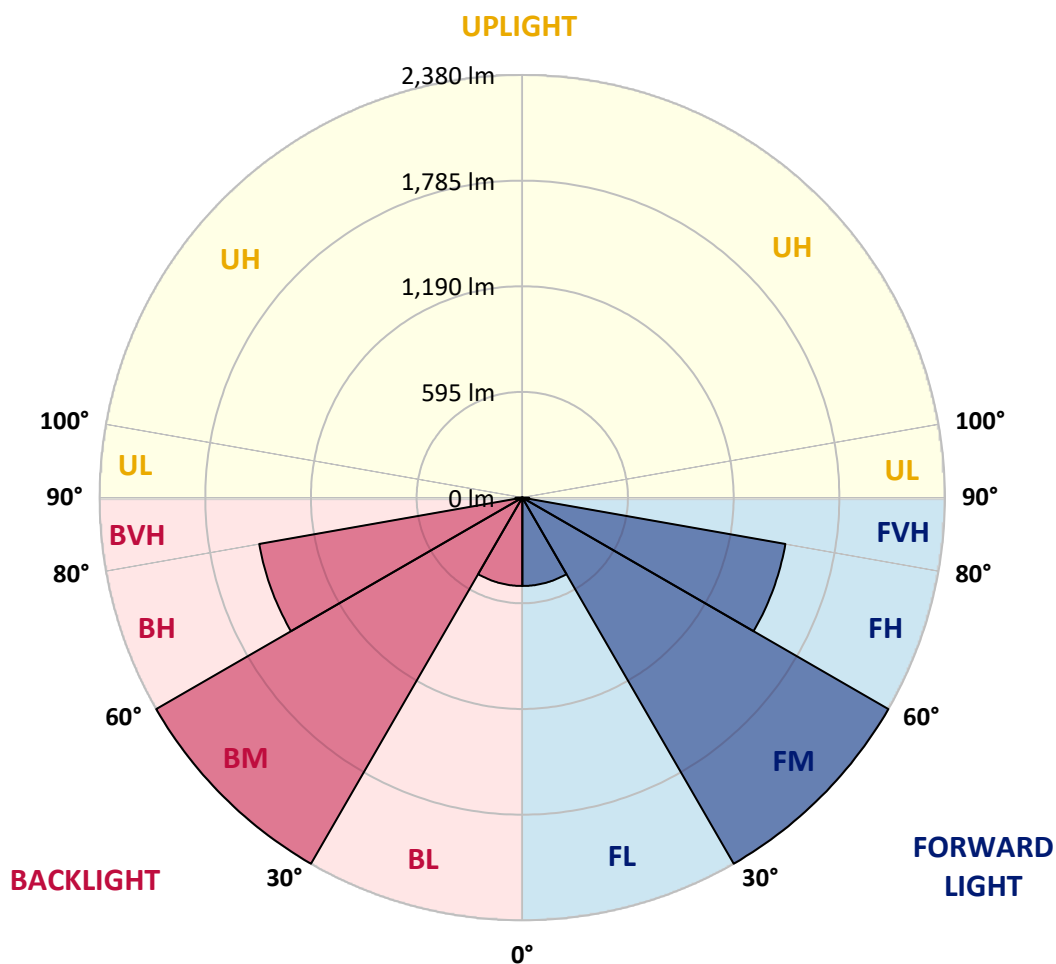
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.4	5.6			
FM (30°-60°)	2379.9	26.9			
FH (60°-80°)	1503.9	17.0			G1/1800
FVH (80°-90°)	38.3	0.4			G1/100
BL (0°-30°)	497.4	5.6	B1/500		
BM (30°-60°)	2379.9	26.9	B2/2500		
BH (60°-80°)	1503.9	17.0	B3/2500		G3/2500
BVH (80°-90°)	38.3	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°	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8
2.5°	921.1	922.0	923.0	924.4	926.3	929.1	931.0	932.4	936.2	936.7	936.2
5°	917.8	918.7	921.1	925.3	931.5	940.0	946.6	954.7	960.9	965.1	964.2
7.5°	917.3	919.2	923.0	932.0	943.8	958.5	973.6	987.4	999.2	1008.7	1007.3
10°	924.9	927.2	933.4	946.6	965.1	986.4	1007.7	1028.1	1045.1	1057.5	1061.7
12.5°	937.6	939.5	950.9	970.8	997.3	1023.8	1048.0	1073.1	1096.8	1117.6	1117.6
15°	959.9	963.2	977.4	1006.3	1039.0	1069.8	1094.4	1120.9	1146.5	1170.2	1177.3
17.5°	990.7	995.4	1016.7	1053.7	1095.3	1123.8	1147.0	1168.7	1191.0	1213.7	1217.0
20°	1032.8	1037.6	1066.0	1110.5	1159.7	1193.8	1209.5	1214.7	1225.6	1247.4	1250.2
22.5°	1090.1	1094.9	1126.6	1176.8	1231.7	1268.7	1275.3	1263.0	1260.1	1277.2	1279.1
25°	1155.0	1159.3	1195.7	1249.7	1306.5	1346.8	1344.9	1314.6	1297.6	1308.0	1310.8
27.5°	1227.9	1234.1	1271.0	1326.9	1388.5	1424.0	1418.3	1374.3	1337.8	1335.9	1336.9
30°	1321.2	1327.9	1362.9	1416.4	1477.0	1509.7	1497.9	1438.7	1382.3	1363.4	1363.4
32.5°	1419.7	1436.3	1471.8	1527.7	1575.1	1598.7	1580.7	1509.7	1434.9	1408.4	1406.9
35°	1548.1	1557.1	1592.1	1646.6	1682.1	1700.5	1666.0	1589.7	1503.5	1472.3	1468.0
37.5°	1673.6	1681.1	1721.9	1774.0	1817.0	1816.1	1769.2	1684.9	1588.8	1553.7	1550.9
40°	1801.9	1809.9	1856.4	1904.2	1947.3	1943.5	1886.7	1792.4	1690.1	1650.8	1658.4
42.5°	1913.2	1922.2	1974.7	2042.9	2081.8	2080.8	2015.0	1908.9	1802.4	1767.3	1774.0
45°	2014.5	2022.6	2083.7	2161.8	2218.6	2225.7	2153.7	2041.5	1932.1	1887.1	1889.0
47.5°	2086.0	2101.2	2165.1	2254.6	2331.8	2356.9	2286.3	2176.5	2050.5	2003.6	2006.5
50°	2140.5	2150.0	2219.6	2321.4	2418.9	2471.0	2414.2	2301.5	2168.9	2119.2	2125.8
52.5°	2147.1	2158.5	2234.2	2351.7	2476.7	2555.8	2527.9	2423.7	2289.7	2238.5	2252.7
55°	2093.1	2099.8	2190.2	2332.8	2499.4	2618.8	2625.9	2537.3	2404.7	2365.9	2375.4
57.5°	1939.2	1956.3	2070.9	2244.2	2468.2	2652.4	2699.3	2640.6	2521.2	2482.9	2498.0
60°	1686.8	1703.9	1818.9	2038.7	2350.3	2636.8	2759.9	2732.0	2626.8	2596.0	2604.1
62.5°	1321.7	1320.3	1462.8	1732.3	2115.9	2560.1	2804.9	2820.0	2731.0	2692.2	2704.5
65°	856.7	860.9	998.7	1289.0	1762.1	2365.0	2814.8	2932.3	2833.3	2774.6	2783.6
66°	689.0	701.8	818.8	1086.3	1581.7	2237.1	2785.0	2965.4	2864.6	2793.5	2797.8
67.5°	508.6	506.2	602.4	808.8	1263.0	1994.2	2691.7	2986.3	2900.1	2810.6	2812.5
70°	290.3	289.8	323.9	444.2	742.5	1404.1	2268.8	2886.3	2972.1	2872.1	2866.9
72.5°	212.2	210.7	215.5	245.3	362.3	708.9	1565.1	2522.6	2935.1	2862.2	2847.5
75°	178.1	177.1	176.2	180.0	203.2	321.1	830.6	1814.7	2546.8	2686.5	2671.3
77.5°	145.4	145.4	145.9	144.9	145.9	169.1	344.3	972.7	1550.9	1731.3	1773.5
80°	113.7	113.2	121.2	117.9	110.3	108.4	152.5	313.0	514.8	511.9	422.4
82.5°	83.8	78.1	92.3	90.0	81.5	69.1	89.0	133.5	171.9	111.8	82.9
85°	53.0	52.6	65.4	59.7	49.7	32.7	42.6	57.3	71.0	43.1	35.0
87.5°	9.5	9.0	20.8	15.2	15.2	9.5	11.8	15.6	23.2	16.1	11.8
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)