

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: P451292

Luminaire Tested: **GALN-SA2A-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7665 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

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



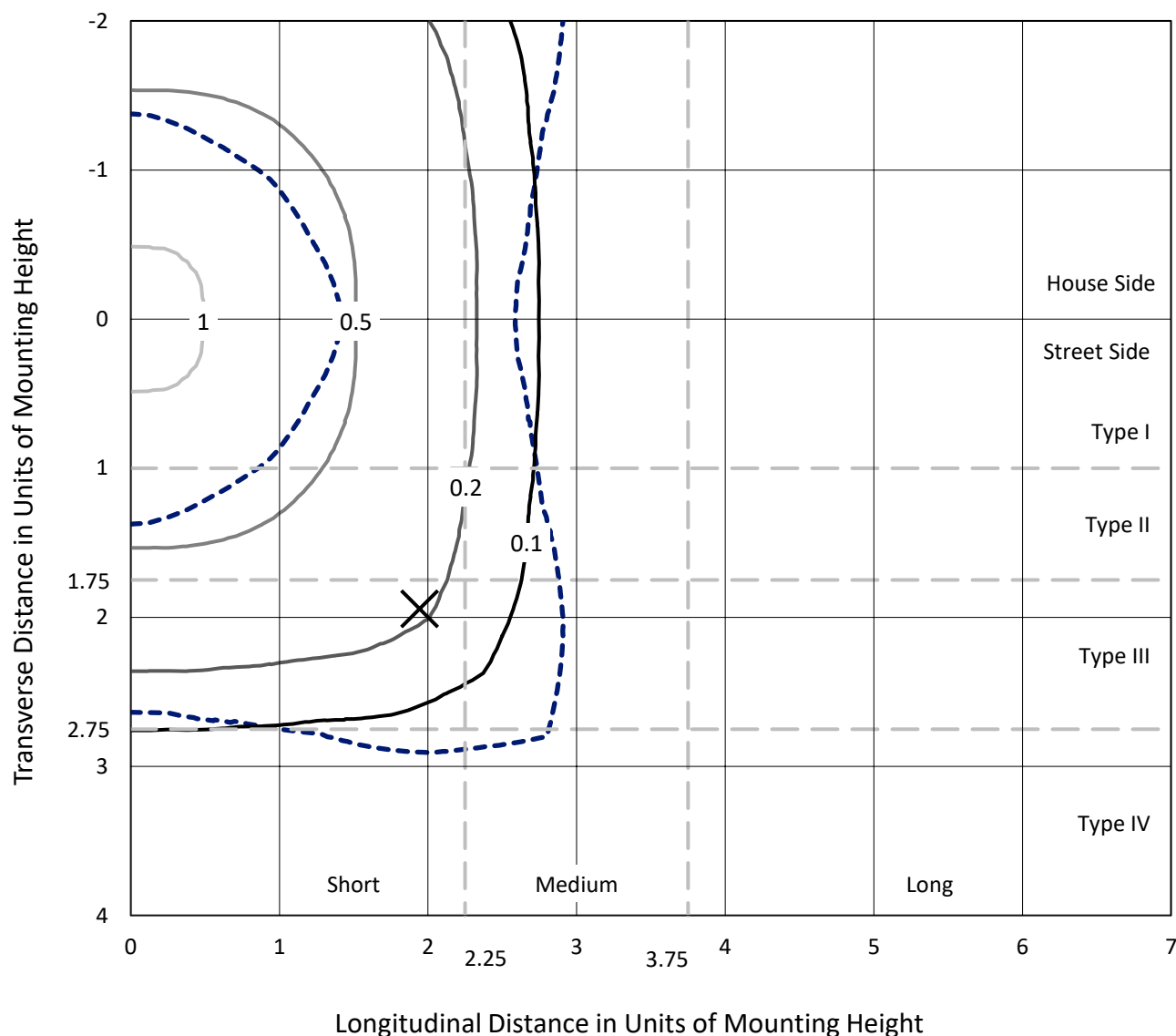
REPORT NUMBER: P451292

CATALOG NUMBER: GALN-SA2A-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



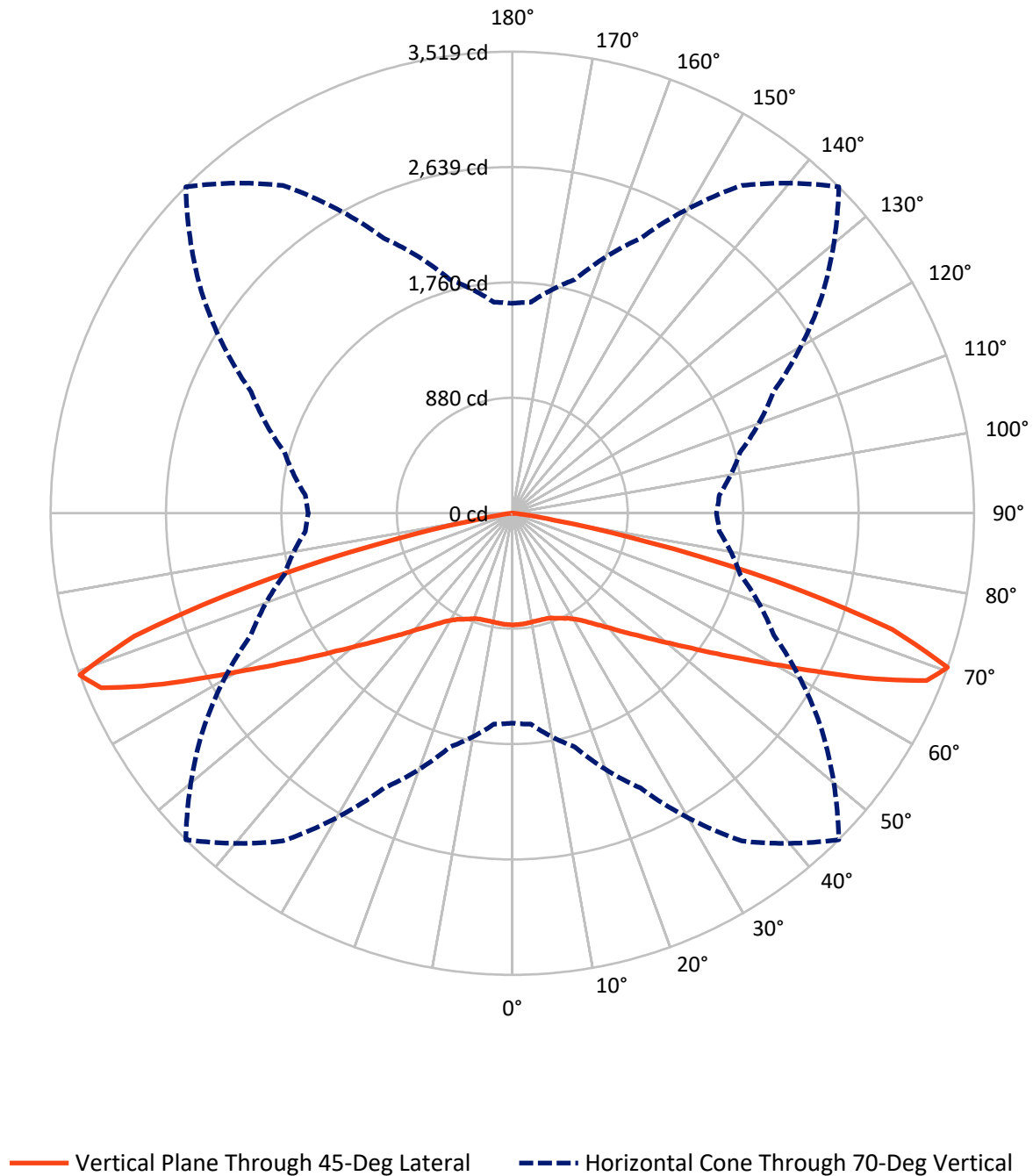
Based on 25 foot mounting height. Maximum calculated value = 1.4 fc

Type V - Short - N/A

REPORT NUMBER: P451292

CATALOG NUMBER: GALN-SA2A-830-U-5MQ

Luminous Intensity Polar Plot



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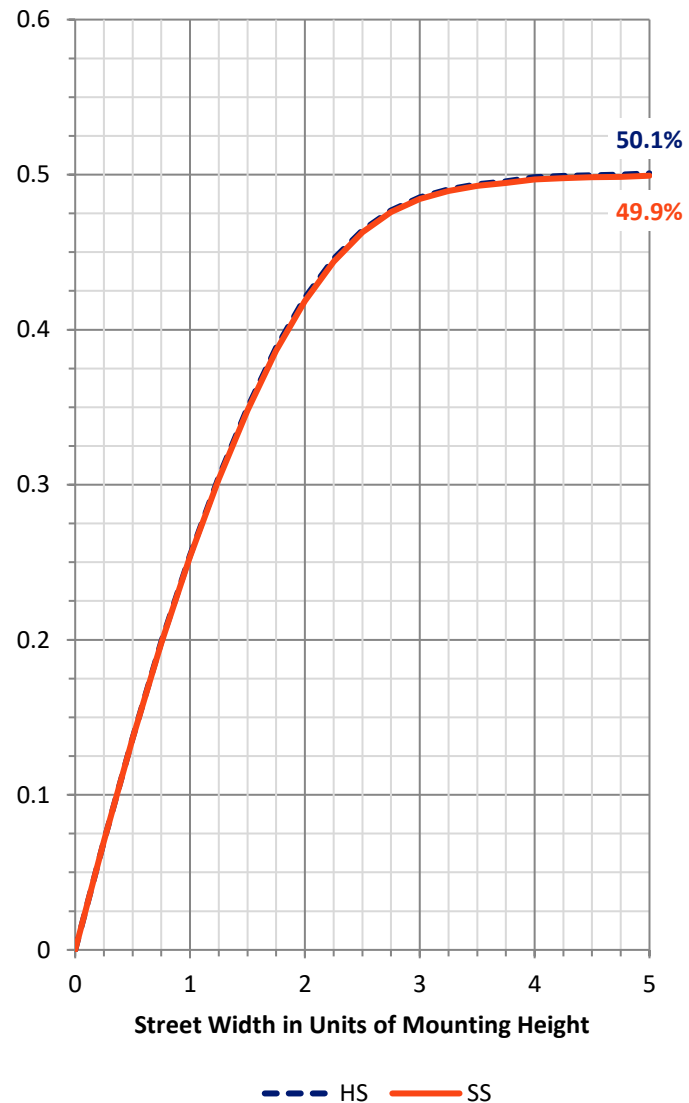
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3832.5	0.0	3832.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3832.5	0.0	3832.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7665.0	0.0	7665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	1.1
10°-20°	236.9	3.1
20°-30°	405.1	5.3
30°-40°	643.0	8.4
40°-50°	1037.3	13.5
50°-60°	1687.7	22.0
60°-70°	2446.5	31.9
70°-80°	1085.2	14.2
80°-90°	42.8	0.6
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°	7665.0	100.0
0°-180°	7665.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451292

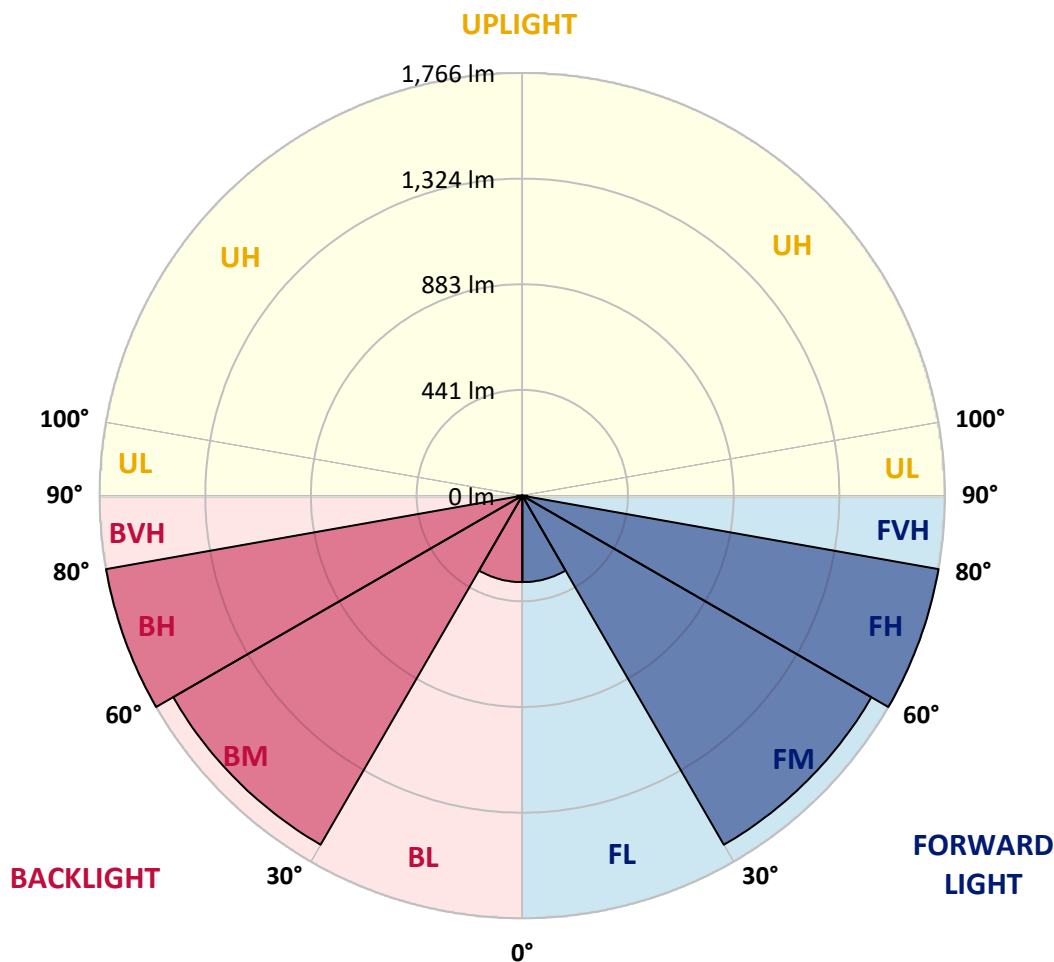
CATALOG NUMBER: GALN-SA2A-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	361.3	4.7			
FM	(30°-60°)	1683.9	22.0			
FH	(60°-80°)	1765.8	23.0			G1/1800
FVH	(80°-90°)	21.4	0.3			G1/100
BL	(0°-30°)	361.3	4.7	B1/500		
BM	(30°-60°)	1683.9	22.0	B2/2500		
BH	(60°-80°)	1765.8	23.0	B3/2500		G1/1800
BVH	(80°-90°)	21.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	851.2	851.2	851.2	851.2	851.2	851.2	851.2	851.2	851.2	851.2	851.2
2.5°	851.2	852.0	850.8	850.0	849.5	849.5	849.1	849.5	852.0	852.4	851.2
5°	848.7	849.5	849.1	848.3	847.9	847.9	847.5	847.1	849.1	850.0	849.5
7.5°	845.5	845.9	845.5	845.1	845.5	845.1	843.9	843.1	844.7	844.7	844.3
10°	839.9	840.7	840.3	840.7	841.5	841.5	839.9	838.2	838.6	837.8	837.8
12.5°	833.0	834.2	834.6	836.2	838.2	840.7	837.0	833.4	832.6	832.2	831.8
15°	828.5	829.8	831.4	833.0	836.6	841.9	836.6	831.0	829.3	827.7	826.9
17.5°	827.3	828.9	831.4	833.8	838.6	843.9	839.4	833.8	829.8	827.3	826.5
20°	830.6	831.8	835.4	839.9	846.7	852.0	847.5	841.5	835.4	831.8	830.6
22.5°	837.0	839.0	843.5	851.6	861.3	868.9	862.9	852.8	843.1	838.2	836.6
25°	851.2	852.8	858.0	868.9	880.2	887.5	881.1	869.3	856.0	849.5	847.5
27.5°	872.6	875.0	880.7	893.6	902.9	906.9	902.5	894.4	884.7	877.8	876.2
30°	902.9	905.7	914.2	927.9	934.0	936.4	934.4	929.1	922.3	915.0	913.4
32.5°	943.7	945.3	955.0	967.9	973.6	974.4	971.9	969.5	958.2	946.1	945.3
35°	989.3	992.1	1003.9	1019.2	1024.5	1024.9	1020.0	1016.4	1003.1	993.4	993.4
37.5°	1049.9	1051.1	1062.4	1079.8	1085.5	1083.8	1081.4	1078.2	1064.1	1051.5	1051.9
40°	1121.0	1123.4	1133.1	1153.3	1153.3	1151.3	1152.9	1150.5	1136.4	1124.2	1124.6
42.5°	1205.4	1206.7	1218.4	1239.8	1238.2	1234.1	1235.7	1232.5	1223.6	1209.9	1205.0
45°	1295.5	1300.4	1320.6	1341.2	1337.9	1325.0	1331.5	1330.7	1322.6	1302.0	1303.2
47.5°	1404.2	1412.3	1431.7	1456.3	1452.7	1432.5	1439.7	1444.6	1433.3	1410.7	1406.6
50°	1526.6	1531.8	1560.5	1583.6	1580.3	1558.9	1575.5	1576.3	1548.0	1516.1	1516.1
52.5°	1657.1	1662.3	1701.1	1737.1	1739.1	1708.0	1721.3	1720.5	1674.5	1632.4	1624.4
55°	1803.3	1805.7	1855.8	1908.8	1920.1	1889.8	1891.4	1875.2	1815.4	1766.6	1762.1
57.5°	1954.4	1963.3	2018.6	2087.3	2120.8	2102.3	2093.8	2050.5	1992.8	1936.6	1933.8
60°	2121.6	2122.0	2194.0	2275.2	2343.0	2355.5	2320.8	2263.0	2188.3	2114.0	2110.7
62.5°	2237.6	2255.0	2345.8	2483.2	2604.8	2675.1	2583.4	2462.2	2315.1	2195.2	2183.0
65°	2261.4	2273.1	2411.7	2644.4	2892.8	3044.3	2832.2	2574.5	2323.6	2163.7	2155.6
67.5°	2068.7	2081.2	2267.9	2625.0	3094.8	3405.5	2993.8	2520.4	2179.8	1981.9	1966.1
70°	1600.1	1614.3	1844.9	2310.7	3050.0	3519.0	2878.7	2198.4	1797.7	1584.0	1555.3
72.5°	850.8	902.9	1100.0	1586.0	2475.5	3029.8	2360.4	1604.2	1159.4	947.7	909.7
75°	310.7	317.1	427.0	703.3	1440.1	2077.6	1495.5	765.1	439.9	339.7	322.4
77.5°	128.5	128.1	140.6	212.5	523.1	1064.1	583.7	224.6	140.2	129.7	128.1
80°	75.9	75.9	83.6	88.5	137.8	321.2	153.9	100.2	84.0	76.8	78.0
82.5°	33.9	36.0	52.9	55.7	66.7	88.1	74.3	63.8	54.9	38.0	34.3
85°	18.6	16.2	27.9	29.1	31.9	32.7	35.1	34.7	31.9	18.6	19.0
87.5°	3.6	4.4	8.1	6.1	6.9	6.1	8.1	11.3	11.7	6.5	5.3
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)