

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: P451297

Luminaire Tested: **GALN-SA2A-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451297
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-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 7540 lumens
Efficiency: N/A
Efficacy: 119.7 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

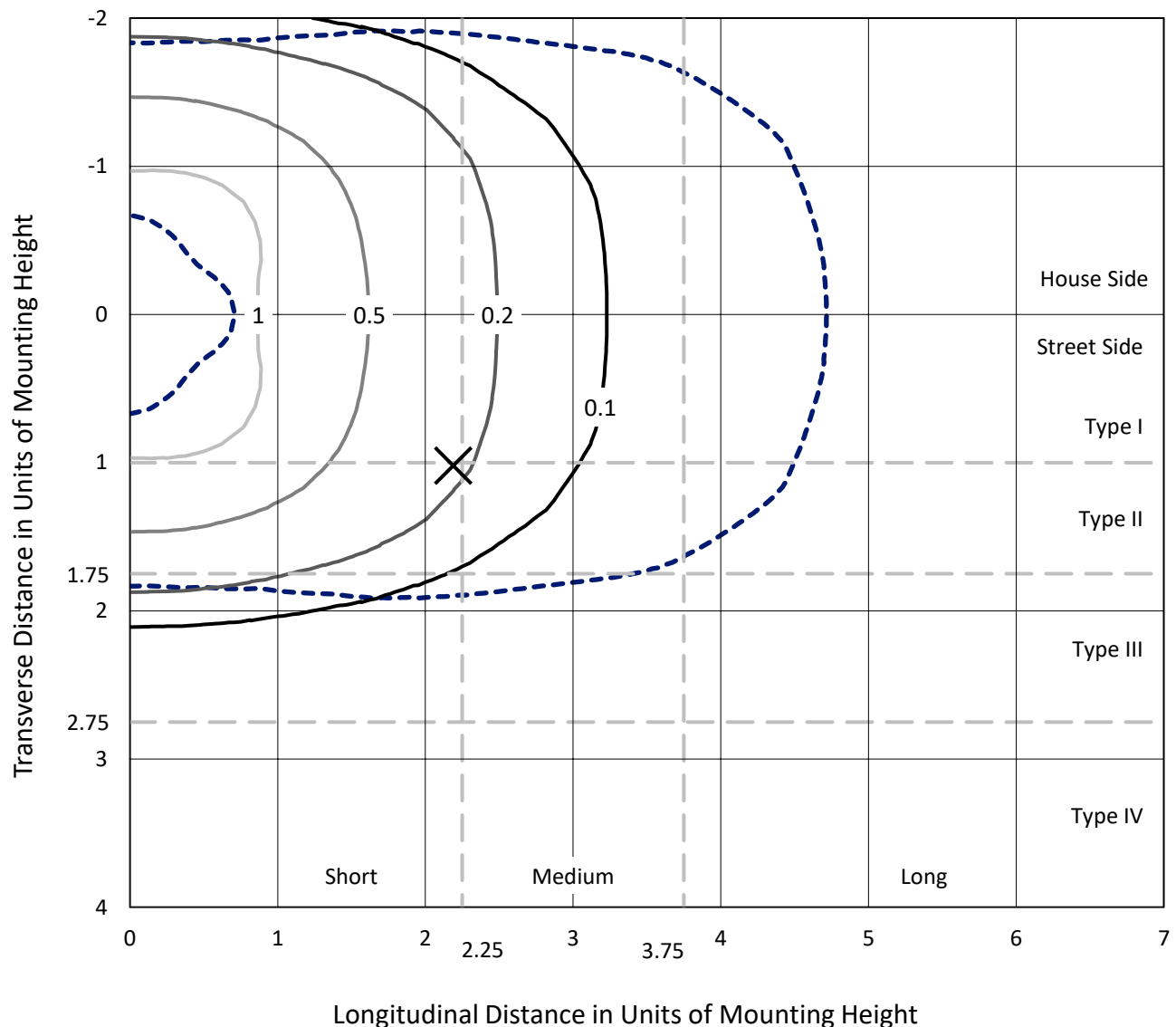


REPORT NUMBER: P451297

CATALOG NUMBER: GALN-SA2A-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

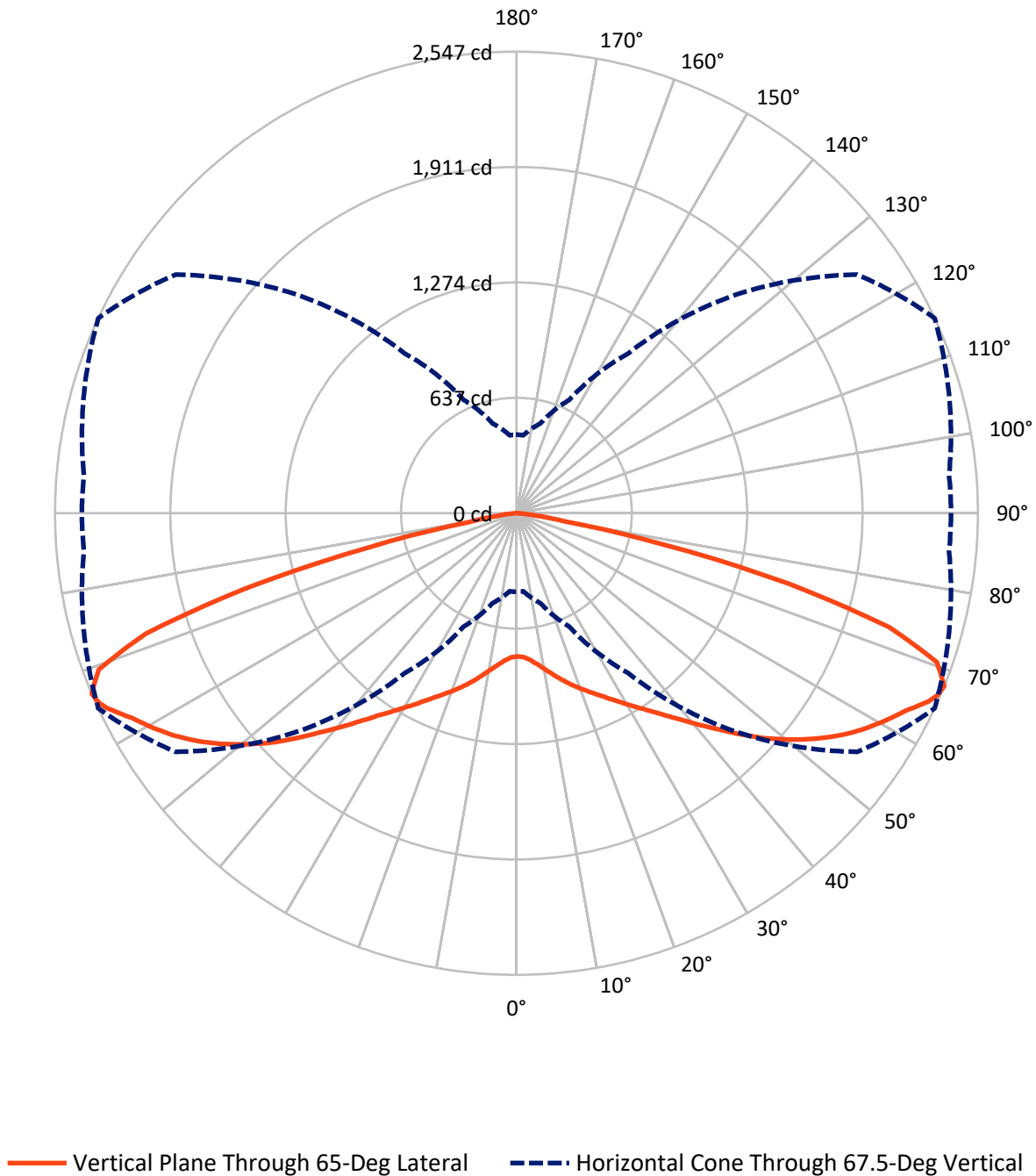


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

REPORT NUMBER: P451297

CATALOG NUMBER: GALN-SA2A-830-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3770.0	0.0	3770.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3770.0	0.0	3770.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7540.0	0.0	7540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.0
10°-20°	260.7	3.5
20°-30°	509.9	6.8
30°-40°	867.3	11.5
40°-50°	1372.7	18.2
50°-60°	1820.2	24.1
60°-70°	1717.0	22.8
70°-80°	848.8	11.3
80°-90°	65.4	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°	7540.0	100.0
0°-180°	7540.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451297

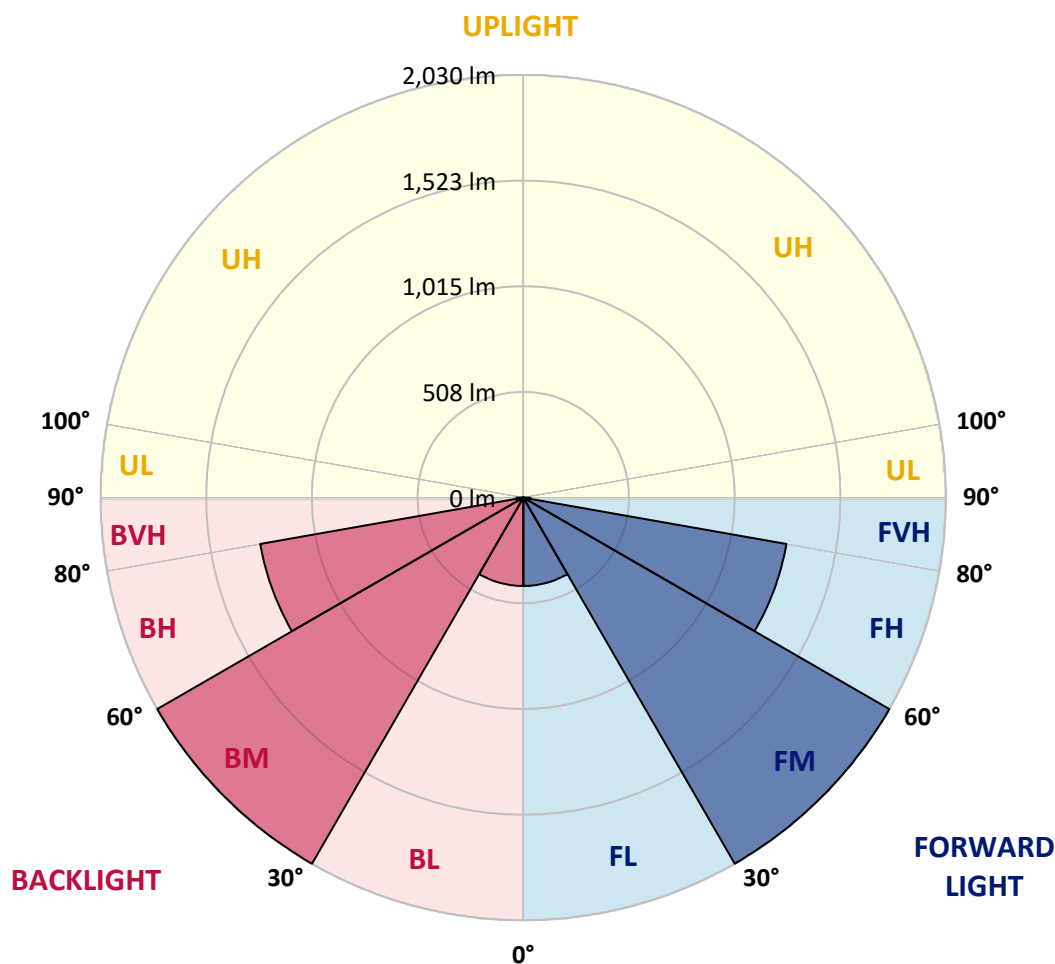
CATALOG NUMBER: GALN-SA2A-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.3	5.6			
FM	(30°-60°)	2030.1	26.9			
FH	(60°-80°)	1282.9	17.0			G1/1800
FVH	(80°-90°)	32.7	0.4			G1/100
BL	(0°-30°)	424.3	5.6	B1/500		
BM	(30°-60°)	2030.1	26.9	B2/2500		
BH	(60°-80°)	1282.9	17.0	B3/2500		G3/2500
BVH	(80°-90°)	32.7	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





REPORT NUMBER: P451297

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7
2.5°	785.7	786.5	787.3	788.5	790.2	792.6	794.2	795.4	798.6	799.0	798.6
5°	782.9	783.7	785.7	789.3	794.6	801.9	807.5	814.4	819.6	823.3	822.5
7.5°	782.5	784.1	787.3	795.0	805.1	817.6	830.5	842.3	852.4	860.4	859.2
10°	788.9	791.0	796.2	807.5	823.3	841.5	859.6	877.0	891.5	902.1	905.7
12.5°	799.8	801.5	811.2	828.1	850.7	873.4	894.0	915.4	935.6	953.4	953.4
15°	818.8	821.7	833.8	858.4	886.3	912.6	933.6	956.2	978.0	998.2	1004.3
17.5°	845.1	849.1	867.3	898.8	934.4	958.6	978.4	997.0	1016.0	1035.4	1038.2
20°	881.0	885.1	909.3	947.3	989.3	1018.4	1031.7	1036.2	1045.5	1064.0	1066.5
22.5°	929.9	934.0	961.0	1003.8	1050.7	1082.2	1087.9	1077.4	1074.9	1089.5	1091.1
25°	985.3	988.9	1020.0	1066.1	1114.5	1148.9	1147.3	1121.4	1106.9	1115.7	1118.2
27.5°	1047.5	1052.7	1084.2	1131.9	1184.4	1214.7	1209.9	1172.3	1141.2	1139.6	1140.4
30°	1127.1	1132.7	1162.6	1208.3	1260.0	1287.8	1277.7	1227.2	1179.2	1163.0	1163.0
32.5°	1211.1	1225.2	1255.5	1303.2	1343.6	1363.8	1348.4	1287.8	1224.0	1201.4	1200.2
35°	1320.6	1328.2	1358.1	1404.6	1434.9	1450.6	1421.1	1356.1	1282.6	1255.9	1252.3
37.5°	1427.6	1434.1	1468.8	1513.2	1550.0	1549.2	1509.2	1437.3	1355.3	1325.4	1323.0
40°	1537.1	1543.9	1583.5	1624.3	1661.1	1657.9	1609.4	1529.0	1441.7	1408.2	1414.7
42.5°	1632.0	1639.7	1684.5	1742.7	1775.8	1775.0	1718.9	1628.4	1537.5	1507.6	1513.2
45°	1718.5	1725.3	1777.4	1844.1	1892.6	1898.6	1837.2	1741.5	1648.2	1609.8	1611.4
47.5°	1779.5	1792.4	1846.9	1923.3	1989.1	2010.5	1950.3	1856.6	1749.2	1709.2	1711.6
50°	1825.9	1834.0	1893.4	1980.2	2063.4	2107.9	2059.4	1963.3	1850.2	1807.7	1813.4
52.5°	1831.6	1841.3	1905.9	2006.1	2112.7	2180.2	2156.4	2067.5	1953.2	1909.5	1921.7
55°	1785.5	1791.2	1868.3	1989.9	2132.1	2233.9	2240.0	2164.4	2051.3	2018.2	2026.3
57.5°	1654.2	1668.8	1766.5	1914.4	2105.5	2262.6	2302.6	2252.5	2150.7	2118.0	2130.9
60°	1438.9	1453.5	1551.6	1739.1	2004.9	2249.3	2354.3	2330.5	2240.8	2214.5	2221.4
62.5°	1127.5	1126.3	1247.8	1477.7	1804.9	2183.8	2392.7	2405.6	2329.7	2296.5	2307.0
65°	730.8	734.4	852.0	1099.6	1503.1	2017.4	2401.2	2501.3	2416.9	2366.8	2374.5
66°	587.8	598.7	698.5	926.7	1349.2	1908.3	2375.7	2529.6	2443.6	2383.0	2386.6
67.5°	433.9	431.8	513.8	690.0	1077.4	1701.1	2296.1	2547.4	2473.9	2397.5	2399.1
70°	247.6	247.2	276.3	378.9	633.4	1197.8	1935.4	2462.2	2535.3	2450.0	2445.6
72.5°	181.0	179.8	183.8	209.3	309.0	604.7	1335.1	2151.9	2503.8	2441.6	2429.0
75°	151.9	151.1	150.3	153.5	173.3	273.9	708.6	1548.0	2172.5	2291.7	2278.8
77.5°	124.0	124.0	124.4	123.6	124.4	144.2	293.7	829.7	1323.0	1476.9	1512.8
80°	97.0	96.5	103.4	100.6	94.1	92.5	130.1	267.0	439.1	436.7	360.3
82.5°	71.5	66.7	78.8	76.8	69.5	59.0	75.9	113.9	146.6	95.3	70.7
85°	45.2	44.8	55.7	50.9	42.4	27.9	36.4	48.9	60.6	36.8	29.9
87.5°	8.1	7.7	17.8	12.9	12.9	8.1	10.1	13.3	19.8	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)