

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: P452236

Luminaire Tested: **GALN-SA3A-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10829 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 93
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



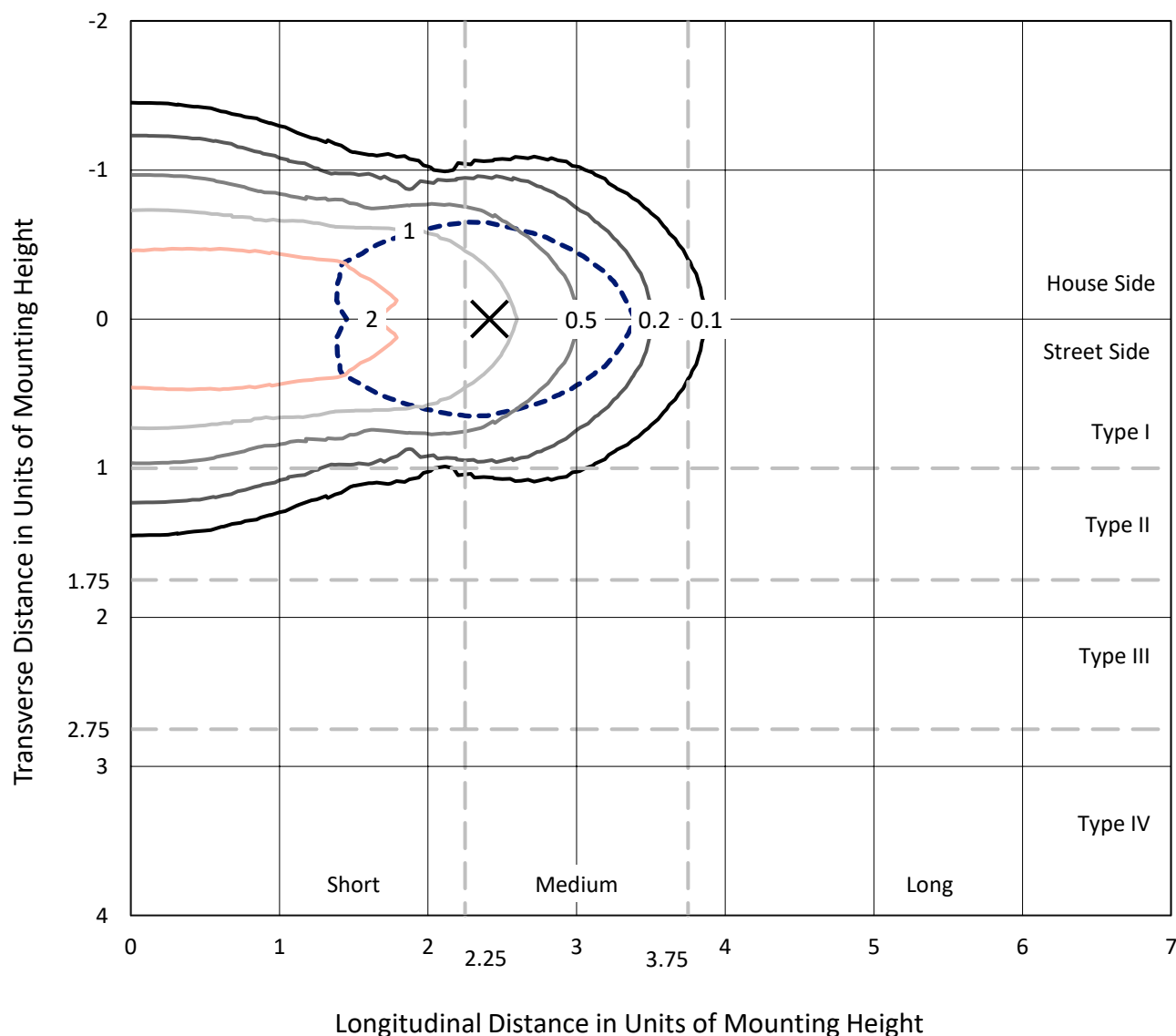
REPORT NUMBER: P452236

CATALOG NUMBER: GALN-SA3A-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



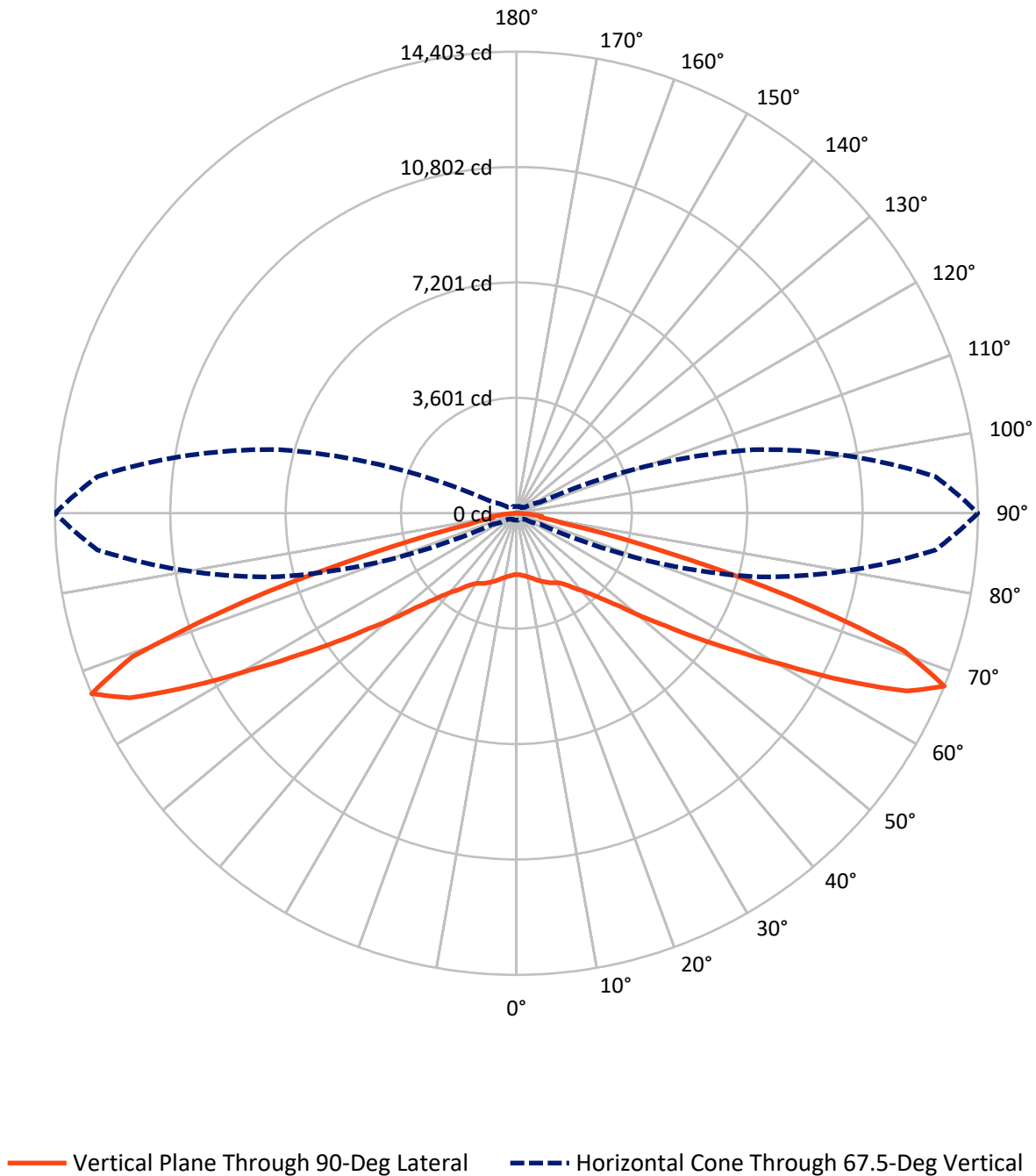
Based on 25 foot mounting height. Maximum calculated value = 3.2 fc

Type I - Short - N/A

REPORT NUMBER: P452236

CATALOG NUMBER: GALN-SA3A-830-U-T1

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5414.5	0.0	5414.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5414.5	0.0	5414.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10829.0	0.0	10829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	1.8
10°-20°	611.5	5.6
20°-30°	1023.5	9.5
30°-40°	1386.6	12.8
40°-50°	1756.4	16.2
50°-60°	2194.1	20.3
60°-70°	2579.1	23.8
70°-80°	986.6	9.1
80°-90°	100.0	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°	10829.0	100.0
0°-180°	10829.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452236

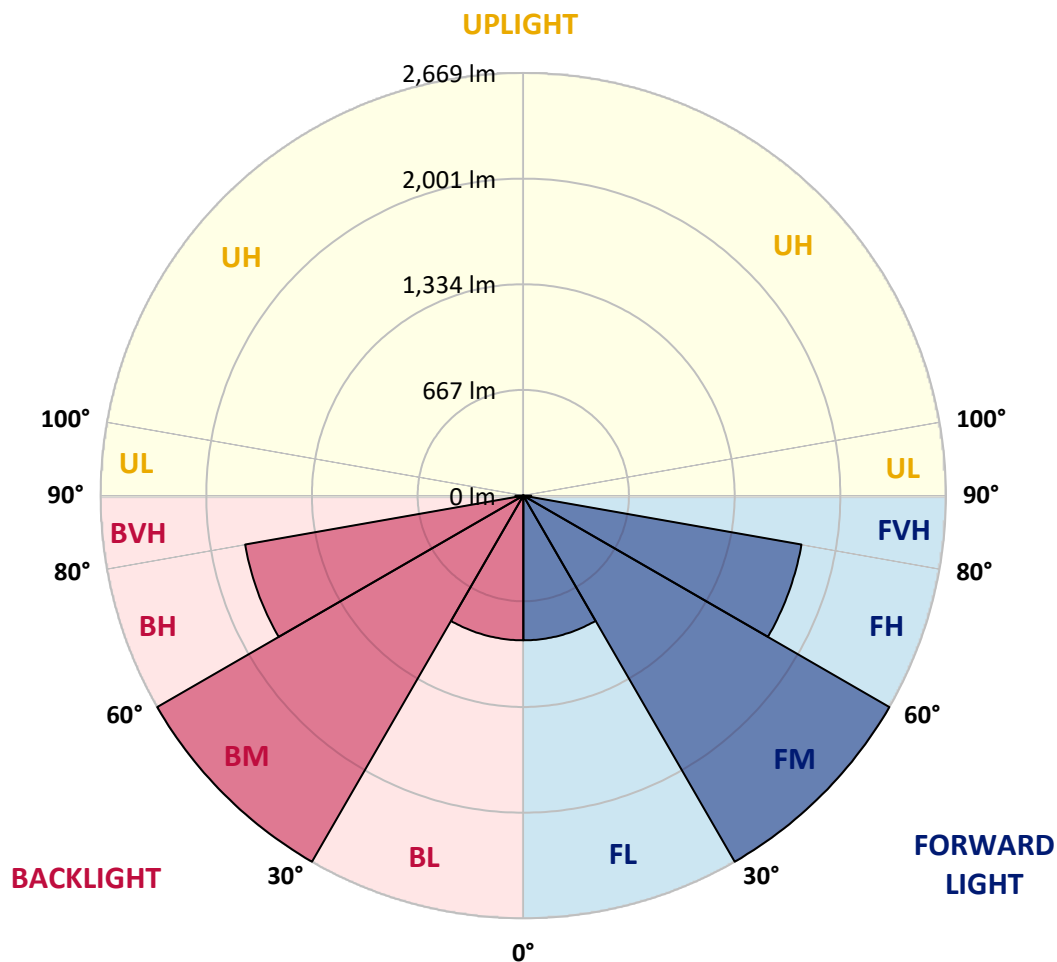
CATALOG NUMBER: GALN-SA3A-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	913.1	8.4			
FM	(30°-60°)	2668.6	24.6			
FH	(60°-80°)	1782.9	16.5			G1/1800
FVH	(80°-90°)	50.0	0.5			G1/100
BL	(0°-30°)	913.1	8.4	B2/1000		
BM	(30°-60°)	2668.6	24.6	B3/5000		
BH	(60°-80°)	1782.9	16.5	B3/2500		G3/2500
BVH	(80°-90°)	50.0	0.5			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 I Short





REPORT NUMBER: P452236

CATALOG NUMBER: GALN-SA3A-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1917.1	1917.1	1917.1	1917.1	1917.1	1917.1	1917.1	1917.1	1917.1	1917.1	1917.1
2.5°	1941.7	1940.5	1941.1	1940.5	1942.3	1941.1	1933.9	1927.9	1923.1	1923.7	1921.9
5°	1983.0	1983.6	1984.2	1981.2	1985.4	1983.0	1971.6	1962.0	1952.4	1948.9	1947.7
7.5°	2017.2	2020.2	2022.0	2025.0	2032.2	2032.2	2026.2	2012.4	1991.4	1979.4	1978.8
10°	2051.4	2053.8	2059.2	2068.8	2080.8	2092.2	2089.8	2071.2	2044.2	2023.8	2019.0
12.5°	2063.4	2066.4	2084.4	2112.0	2138.9	2161.1	2161.1	2146.1	2111.4	2080.2	2071.2
15°	2021.4	2026.8	2059.2	2118.0	2188.7	2237.3	2248.1	2227.1	2189.9	2141.9	2131.1
17.5°	1938.1	1951.3	1998.6	2085.6	2203.1	2303.8	2335.0	2324.8	2276.9	2215.7	2203.1
20°	1848.7	1863.1	1913.5	2028.6	2191.1	2342.8	2433.4	2435.8	2376.4	2287.7	2269.1
22.5°	1750.4	1761.2	1825.9	1960.8	2155.1	2351.8	2517.9	2559.3	2478.9	2359.6	2333.2
25°	1640.0	1652.0	1719.8	1865.5	2087.4	2341.6	2595.3	2686.4	2586.3	2436.4	2402.8
27.5°	1534.5	1539.3	1611.9	1760.0	1998.0	2315.2	2652.2	2803.3	2705.0	2499.9	2457.4
30°	1433.2	1444.5	1508.7	1655.0	1895.5	2263.7	2701.4	2936.5	2832.7	2566.5	2511.9
32.5°	1325.8	1339.6	1409.2	1557.3	1792.9	2186.3	2731.4	3082.2	3010.8	2674.4	2616.3
35°	1222.7	1231.7	1301.8	1445.7	1692.8	2096.4	2736.8	3246.5	3240.5	2838.1	2760.8
37.5°	1117.1	1130.3	1201.1	1339.0	1586.7	2001.0	2709.8	3421.0	3517.5	3065.4	2982.0
40°	1015.8	1027.2	1096.8	1235.9	1466.1	1884.7	2645.6	3580.5	3840.7	3299.3	3181.1
42.5°	905.5	908.5	984.6	1126.1	1348.0	1749.8	2553.3	3722.6	4201.1	3612.9	3466.0
45°	780.1	787.9	858.7	997.8	1212.5	1598.7	2428.0	3840.1	4658.1	4047.6	3847.3
47.5°	654.8	661.4	726.2	863.5	1064.4	1425.4	2234.9	3943.3	5127.0	4599.9	4337.2
50°	532.5	536.1	588.9	710.6	897.7	1243.1	1995.6	3976.3	5657.1	5381.8	5046.6
52.5°	421.0	426.3	466.5	561.9	719.6	1027.8	1737.2	3894.7	6275.9	6308.9	5836.4
55°	341.2	343.0	373.0	443.1	562.5	802.3	1425.4	3667.4	6941.5	7496.8	6894.1
57.5°	293.8	295.0	311.8	350.8	432.9	605.0	1105.7	3237.5	7539.4	8888.6	8113.8
60°	266.8	267.4	277.0	299.8	343.0	464.1	792.1	2630.6	8129.4	10437.4	9629.7
62.5°	250.1	250.1	256.6	269.2	290.2	356.2	573.9	1897.9	8533.6	12009.1	11498.2
65°	233.9	233.9	238.7	247.7	259.0	291.4	424.0	1237.7	8523.4	13153.8	13377.5
67.5°	215.3	215.3	218.9	227.9	234.5	250.7	327.4	810.7	7656.3	13128.7	14402.9
70°	193.1	193.1	197.9	205.7	211.1	221.3	258.4	554.7	5624.7	11209.8	12809.1
72.5°	170.9	171.5	174.5	182.3	186.5	192.5	214.7	388.6	3450.4	7632.9	8956.3
75°	146.3	147.5	150.5	158.3	161.9	164.3	181.1	277.0	1745.6	4115.4	4685.6
77.5°	118.1	120.5	122.3	130.7	133.1	136.7	149.3	200.3	766.3	1478.7	1491.9
80°	86.3	89.3	94.7	102.5	104.3	106.7	113.9	142.1	347.2	675.2	733.4
82.5°	63.6	67.8	61.2	71.4	71.4	68.4	80.4	95.3	159.5	668.6	799.9
85°	34.8	35.4	31.8	36.6	39.0	38.4	42.6	46.8	77.4	446.1	459.9
87.5°	8.4	9.0	9.6	11.4	13.8	13.8	15.0	13.2	25.2	144.5	82.8
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)