

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: P451294

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
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-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7648 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

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

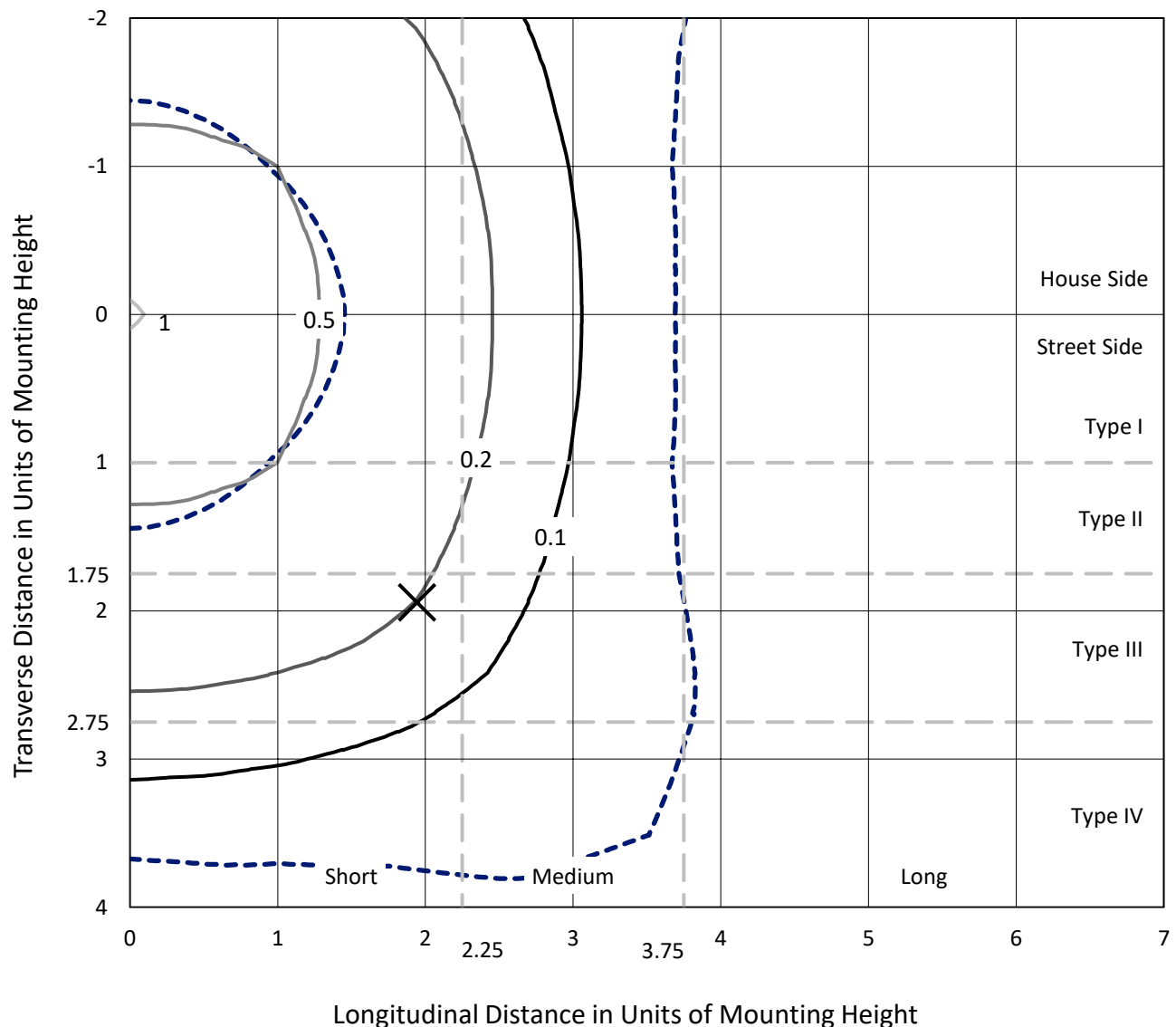


REPORT NUMBER: P451294

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



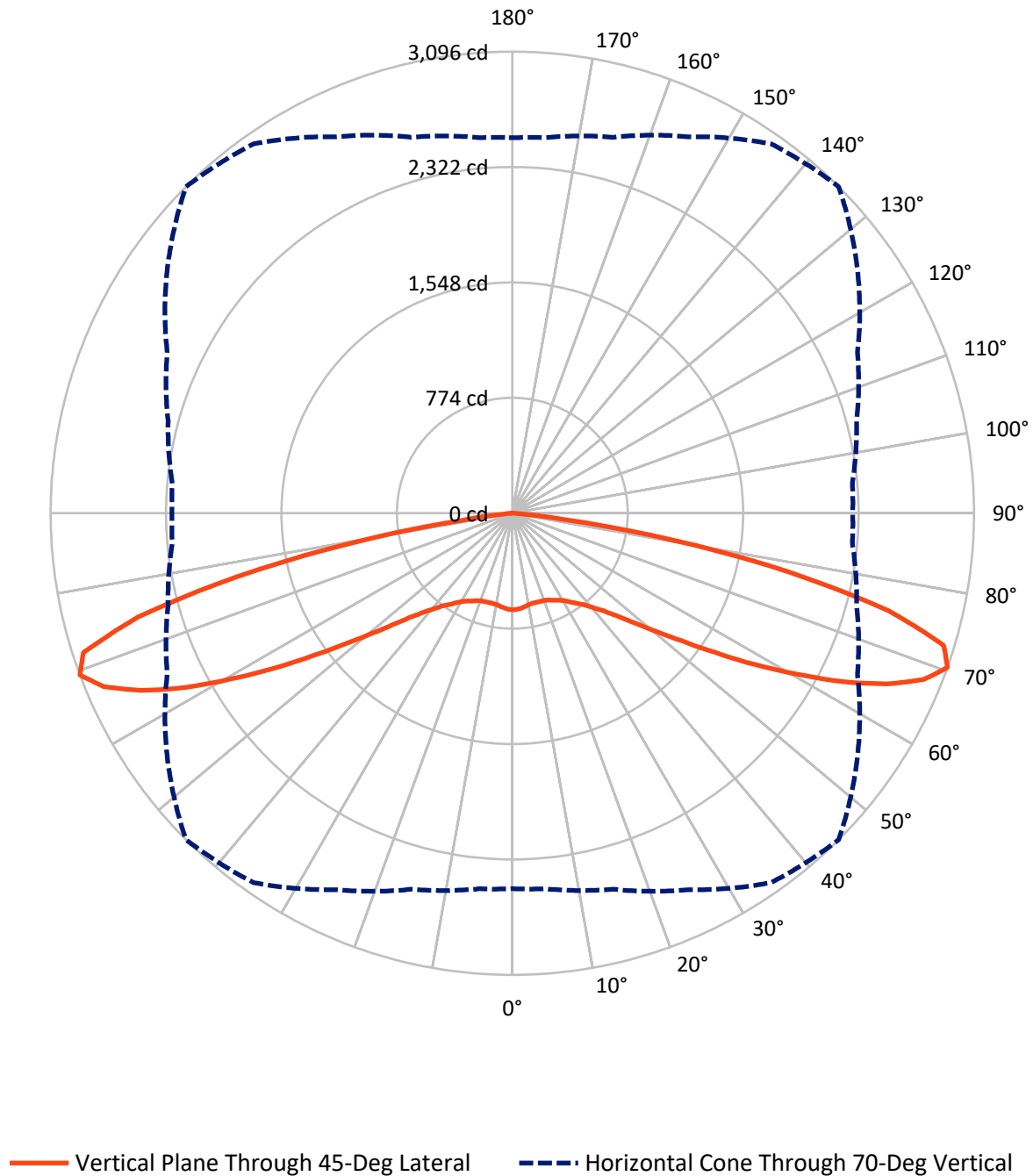
Based on 25 foot mounting height. Maximum calculated value = 1 fc

Type V - Short - N/A

REPORT NUMBER: P451294

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

Luminous Intensity Polar Plot



REPORT NUMBER: P451294

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3824.0	0.0	3824.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3824.0	0.0	3824.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7648.0	0.0	7648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	0.8
10°-20°	177.3	2.3
20°-30°	302.0	3.9
30°-40°	468.1	6.1
40°-50°	788.0	10.3
50°-60°	1433.6	18.7
60°-70°	2427.1	31.7
70°-80°	1878.7	24.6
80°-90°	112.6	1.5
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°	7648.0	100.0
0°-180°	7648.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451294

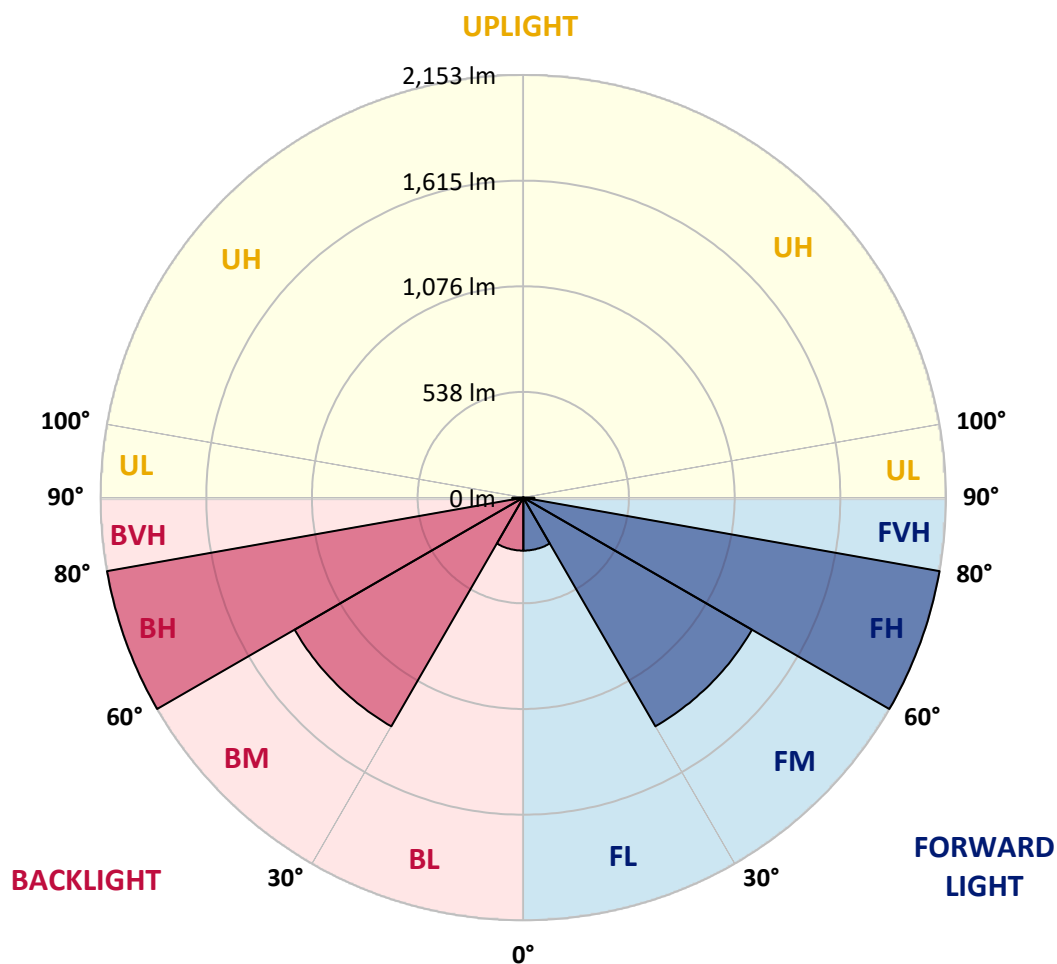
CATALOG NUMBER: GALN-SA2A-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.9	3.5			
FM	(30°-60°)	1344.9	17.6			
FH	(60°-80°)	2152.9	28.1			G2/5000
FVH	(80°-90°)	56.3	0.7			G1/100
BL	(0°-30°)	269.9	3.5	B1/500		
BM	(30°-60°)	1344.9	17.6	B2/2500		
BH	(60°-80°)	2152.9	28.1	B3/2500		G2/5000
BVH	(80°-90°)	56.3	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



REPORT NUMBER: P451294

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5
2.5°	645.9	646.3	646.3	645.5	645.1	645.1	644.7	644.7	645.9	646.3	646.7
5°	640.2	640.2	640.2	639.8	639.0	639.0	638.2	638.2	638.6	639.8	639.0
7.5°	632.6	633.4	633.4	631.7	630.5	630.5	630.1	630.5	630.9	632.1	631.7
10°	630.1	630.5	628.5	625.7	623.7	622.5	622.9	623.7	625.7	626.5	626.9
12.5°	631.7	631.7	628.1	624.1	620.4	618.8	618.4	621.2	624.9	627.3	628.1
15°	633.8	633.0	628.5	623.3	619.6	619.2	618.8	620.8	626.1	630.9	631.3
17.5°	635.0	634.6	628.9	622.5	620.4	620.4	620.0	621.6	627.3	633.4	633.8
20°	639.0	637.8	631.3	624.5	622.9	623.7	622.5	624.5	630.5	637.8	639.4
22.5°	647.1	645.9	639.4	632.6	631.7	631.7	631.3	633.4	639.8	647.5	648.7
25°	656.8	655.6	649.5	644.7	645.5	647.1	646.3	646.7	651.9	658.4	660.4
27.5°	669.7	667.7	662.4	658.4	660.8	660.8	660.8	660.4	663.7	669.7	671.7
30°	685.5	684.7	679.0	678.6	680.6	678.6	678.6	679.0	679.4	685.1	687.1
32.5°	706.1	704.5	701.6	700.8	706.5	708.1	702.4	697.2	700.0	705.7	706.9
35°	740.0	737.6	733.5	729.1	733.5	741.2	729.1	725.1	732.3	740.0	740.8
37.5°	786.0	784.8	778.4	770.3	769.9	778.0	765.4	765.0	778.8	788.1	789.3
40°	843.8	845.0	836.9	829.3	825.2	831.7	822.0	825.6	839.0	849.5	848.7
42.5°	925.0	920.6	908.0	900.8	896.3	893.9	891.5	897.1	912.1	923.4	932.3
45°	1019.9	1018.3	1002.5	993.7	984.0	980.3	979.5	989.6	1007.8	1021.5	1022.7
47.5°	1127.4	1123.7	1113.6	1104.3	1100.7	1096.3	1092.2	1099.9	1118.1	1127.8	1130.6
50°	1238.0	1238.8	1238.8	1237.2	1240.9	1241.7	1230.8	1233.6	1243.7	1242.9	1242.1
52.5°	1364.5	1368.9	1389.9	1391.9	1409.3	1421.0	1401.2	1389.5	1385.9	1364.1	1365.7
55°	1513.1	1517.2	1548.7	1580.2	1627.0	1646.8	1605.2	1568.9	1543.0	1509.9	1511.5
57.5°	1698.5	1700.5	1730.4	1791.0	1865.3	1911.8	1838.7	1766.8	1714.3	1682.8	1670.2
60°	1898.1	1900.1	1943.7	2017.6	2133.1	2189.7	2099.2	1981.7	1915.4	1867.4	1870.6
62.5°	2137.6	2145.7	2184.8	2286.6	2426.8	2490.2	2370.3	2213.1	2123.5	2063.7	2066.1
65°	2394.1	2407.8	2450.6	2562.5	2691.8	2760.0	2613.0	2431.6	2320.2	2247.1	2254.7
67.5°	2560.5	2572.6	2634.4	2758.0	2919.2	2975.7	2785.9	2574.6	2435.3	2348.0	2331.9
70°	2518.1	2528.2	2610.6	2785.9	3024.6	3096.1	2827.1	2553.6	2389.6	2289.1	2282.6
72.5°	2222.8	2201.8	2322.2	2573.8	2904.2	3024.2	2697.4	2332.3	2125.9	2022.5	2010.4
75°	1473.1	1518.8	1696.5	1993.0	2457.1	2605.7	2302.4	1872.6	1612.9	1526.8	1513.5
77.5°	492.4	527.5	685.5	1129.8	1675.1	1898.5	1677.5	1224.7	866.4	698.0	701.2
80°	130.5	128.9	166.8	310.6	723.8	1099.5	842.6	414.8	227.0	164.4	155.9
82.5°	46.9	52.5	67.5	86.0	191.9	341.7	241.1	116.3	85.2	63.0	61.0
85°	20.6	20.2	29.1	34.3	48.1	63.8	56.5	49.3	43.2	28.7	26.7
87.5°	4.4	4.4	6.9	5.3	8.5	8.5	10.5	12.5	12.9	8.5	6.9
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)