

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: P453356

Luminaire Tested: **GALN-SA4B-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453356
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-SA4B-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17073 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

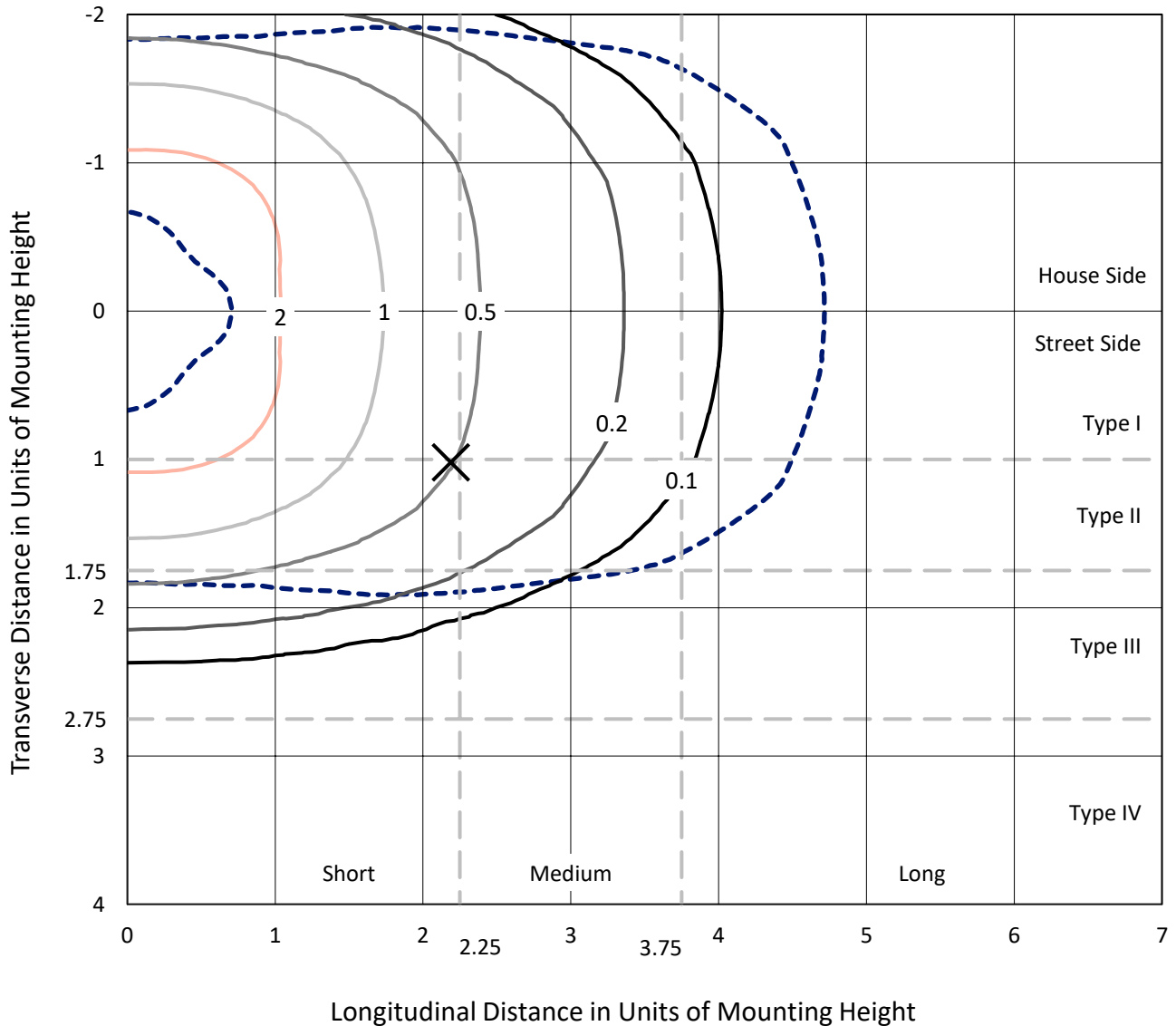
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

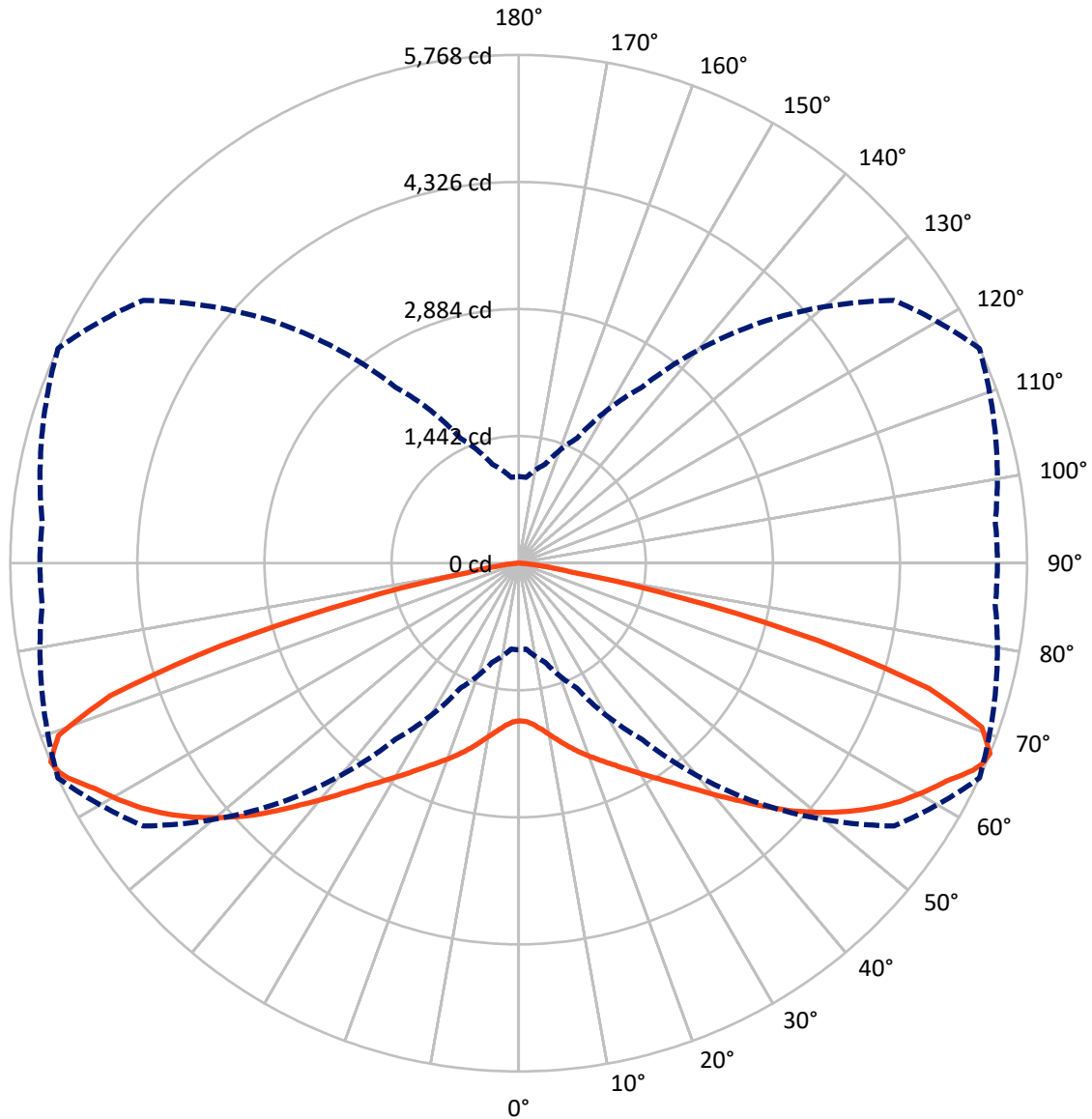
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8536.5	0.0	8536.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8536.5	0.0	8536.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17073.0	0.0	17073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.0
10°-20°	590.3	3.5
20°-30°	1154.7	6.8
30°-40°	1963.9	11.5
40°-50°	3108.3	18.2
50°-60°	4121.5	24.1
60°-70°	3887.9	22.8
70°-80°	1922.0	11.3
80°-90°	148.1	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°	17073.0	100.0
0°-180°	17073.0	100.0

Coefficient of Utilization



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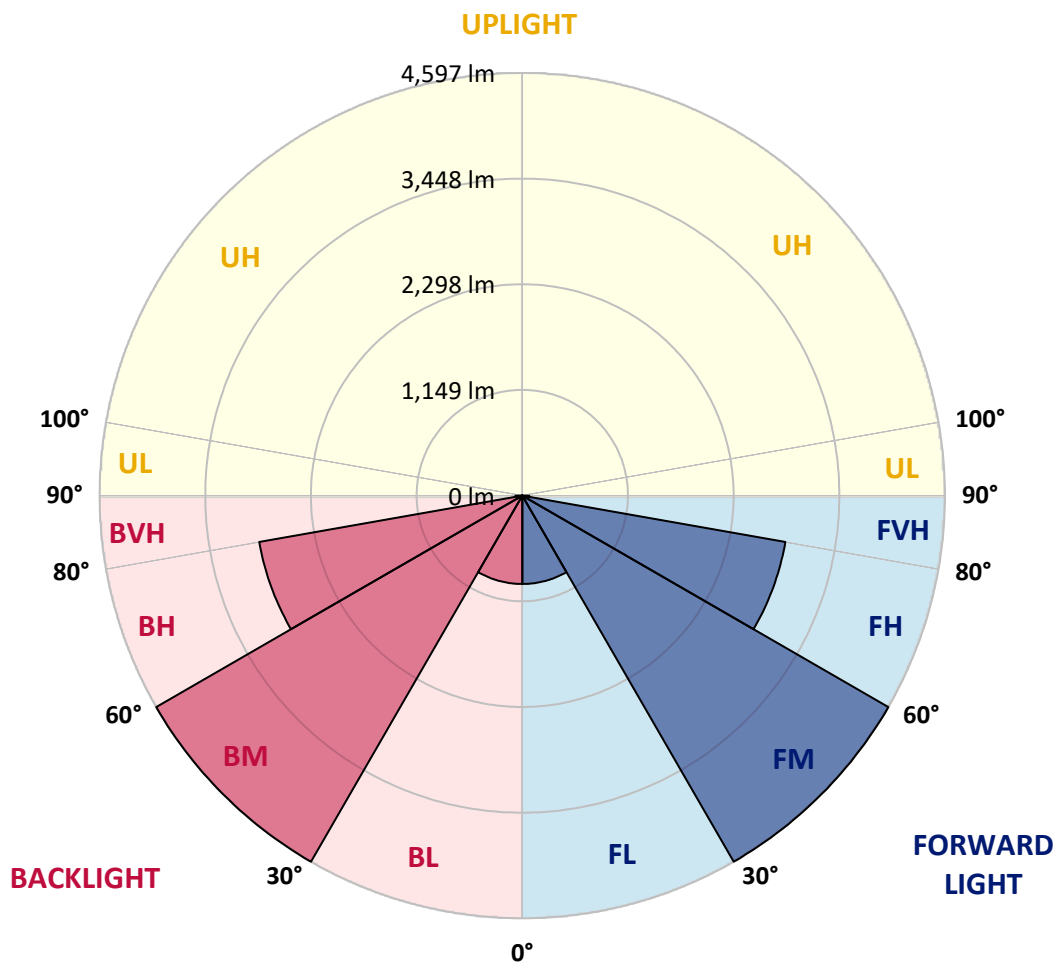
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	960.7	5.6			
FM	(30°-60°)	4596.9	26.9			
FH	(60°-80°)	2904.9	17.0			G2/5000
FVH	(80°-90°)	74.1	0.4			G1/100
BL	(0°-30°)	960.7	5.6	B2/1000		
BM	(30°-60°)	4596.9	26.9	B3/5000		
BH	(60°-80°)	2904.9	17.0	B4/5000		G4/5000
BVH	(80°-90°)	74.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1788.2	1788.2	1788.2	1788.2	1788.2	1788.2	1788.2	1788.2	1788.2	1788.2	1788.2
2.5°	1779.1	1780.9	1782.8	1785.5	1789.2	1794.6	1798.3	1801.1	1808.4	1809.3	1808.4
5°	1772.7	1774.5	1779.1	1787.3	1799.2	1815.7	1828.5	1844.0	1855.9	1864.2	1862.3
7.5°	1771.8	1775.4	1782.8	1800.1	1823.0	1851.4	1880.6	1907.2	1930.0	1948.3	1945.6
10°	1786.4	1791.0	1802.9	1828.5	1864.2	1905.3	1946.5	1985.8	2018.8	2042.5	2050.8
12.5°	1811.1	1814.8	1836.7	1875.1	1926.4	1977.6	2024.2	2072.7	2118.5	2158.7	2158.7
15°	1854.1	1860.5	1887.9	1943.7	2006.9	2066.3	2113.9	2165.1	2214.5	2260.2	2274.0
17.5°	1913.6	1922.7	1963.9	2035.2	2115.7	2170.6	2215.4	2257.5	2300.5	2344.4	2350.8
20°	1995.0	2004.1	2059.0	2145.0	2240.1	2306.0	2336.2	2346.2	2367.3	2409.3	2414.8
22.5°	2105.6	2114.8	2176.1	2273.0	2379.1	2450.5	2463.3	2439.5	2434.0	2467.0	2470.6
25°	2231.0	2239.2	2309.6	2413.9	2523.7	2601.4	2597.8	2539.2	2506.3	2526.4	2531.9
27.5°	2371.8	2383.7	2455.1	2563.0	2681.9	2750.5	2739.5	2654.5	2584.0	2580.4	2582.2
30°	2552.0	2564.8	2632.5	2735.9	2853.0	2916.1	2893.2	2778.9	2670.0	2633.4	2633.4
32.5°	2742.3	2774.3	2842.9	2950.8	3042.3	3088.0	3053.3	2916.1	2771.6	2720.3	2717.6
35°	2990.2	3007.5	3075.2	3180.4	3249.0	3284.7	3217.9	3070.7	2904.2	2843.8	2835.6
37.5°	3232.6	3247.2	3325.9	3426.5	3509.7	3507.9	3417.3	3254.5	3068.8	3001.1	2995.7
40°	3480.4	3496.0	3585.6	3678.0	3761.3	3753.9	3644.2	3462.2	3264.6	3188.7	3203.3
42.5°	3695.4	3712.8	3814.3	3946.0	4021.0	4019.2	3892.1	3687.2	3481.4	3413.7	3426.5
45°	3891.2	3906.7	4024.7	4175.6	4285.4	4299.1	4160.1	3943.3	3732.0	3645.1	3648.8
47.5°	4029.3	4058.5	4182.0	4354.9	4504.0	4552.5	4416.2	4204.0	3960.7	3870.1	3875.6
50°	4134.5	4152.8	4287.2	4483.9	4672.3	4772.9	4663.2	4445.5	4189.3	4093.3	4106.1
52.5°	4147.3	4169.2	4315.6	4542.4	4783.9	4936.7	4882.7	4681.5	4422.6	4323.8	4351.2
55°	4043.0	4055.8	4230.5	4505.8	4827.8	5058.3	5072.0	4901.0	4644.9	4569.9	4588.2
57.5°	3745.7	3778.6	4000.0	4334.8	4767.4	5123.3	5213.8	5100.4	4869.9	4795.8	4825.1
60°	3258.2	3291.1	3513.4	3937.8	4539.7	5093.1	5330.9	5276.9	5073.9	5014.4	5030.0
62.5°	2552.9	2550.2	2825.5	3346.0	4086.9	4944.9	5417.8	5447.1	5275.1	5200.1	5223.9
65°	1654.7	1662.9	1929.1	2489.8	3403.6	4568.0	5437.0	5663.8	5472.7	5359.3	5376.6
66°	1330.9	1355.6	1581.5	2098.3	3055.1	4321.1	5379.4	5727.9	5533.0	5395.8	5404.1
67.5°	982.4	977.8	1163.5	1562.3	2439.5	3851.8	5199.2	5768.1	5601.6	5428.8	5432.4
70°	560.7	559.8	625.7	858.0	1434.3	2712.1	4382.3	5575.1	5740.7	5547.7	5537.6
72.5°	409.8	407.0	416.2	473.8	699.7	1369.3	3023.1	4872.6	5669.3	5528.5	5500.1
75°	343.9	342.1	340.3	347.6	392.4	620.2	1604.4	3505.1	4919.3	5189.1	5159.8
77.5°	280.8	280.8	281.7	279.9	281.7	326.5	665.0	1878.8	2995.7	3344.2	3425.6
80°	219.5	218.6	234.2	227.8	213.1	209.5	294.5	604.6	994.3	988.8	815.9
82.5°	161.9	150.9	178.4	173.8	157.3	133.5	172.0	257.9	332.0	215.9	160.1
85°	102.4	101.5	126.2	115.3	96.0	63.1	82.3	110.7	137.2	83.2	67.7
87.5°	18.3	17.4	40.2	29.3	29.3	18.3	22.9	30.2	44.8	31.1	22.9
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)