

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: P648303

Luminaire Tested: **GALN-SA3B-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13880.2 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

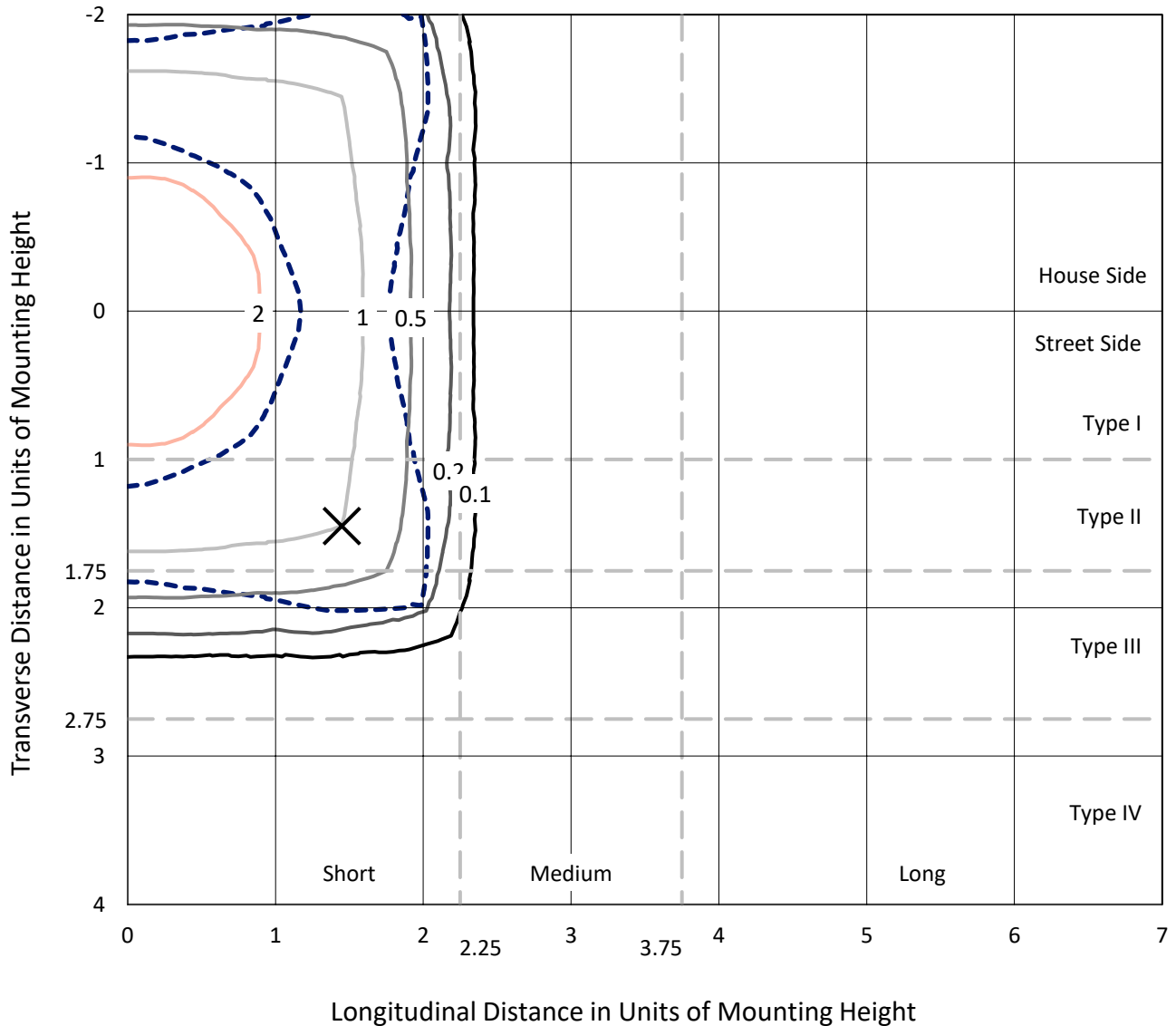
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

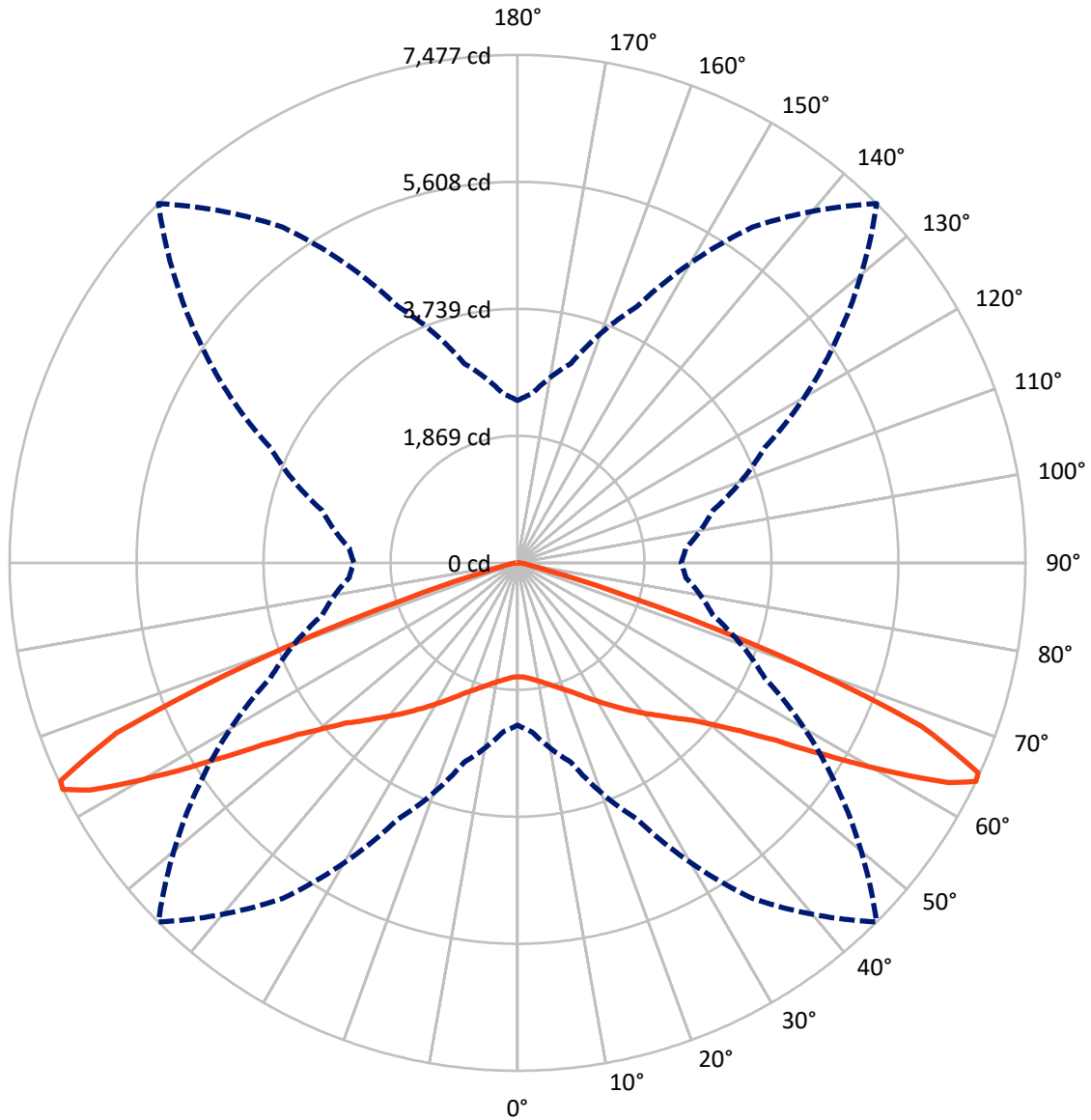
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6940.1	0.0	6940.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6940.1	0.0	6940.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	13880.2	0.0	13880.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	1.2
10°-20°	531.6	3.8
20°-30°	1004.7	7.2
30°-40°	1663.8	12.0
40°-50°	2597.5	18.7
50°-60°	4015.7	28.9
60°-70°	3462.7	24.9
70°-80°	392.4	2.8
80°-90°	47.0	0.3
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°	13880.2	100.0
0°-180°	13880.2	100.0



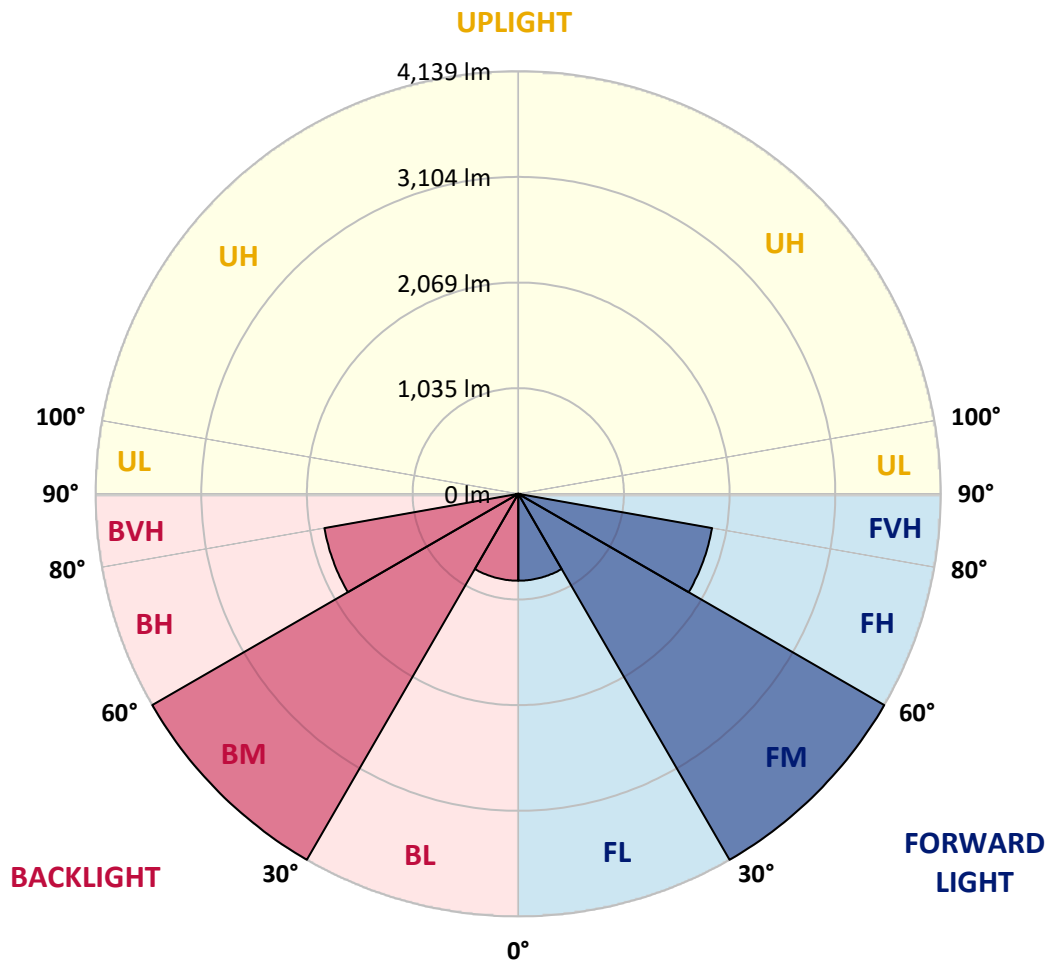
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.6	6.1			
FM (30°-60°)	4138.5	29.8			
FH (60°-80°)	1927.5	13.9			G2/5000
FVH (80°-90°)	23.5	0.2			G1/100
BL (0°-30°)	850.6	6.1	B2/1000		
BM (30°-60°)	4138.5	29.8	B3/5000		
BH (60°-80°)	1927.5	13.9	B3/2500		G2/5000
BVH (80°-90°)	23.5	0.2			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1677.7	1677.7	1677.7	1677.7	1677.7	1677.7	1677.7	1677.7	1677.7	1677.7	1677.7
2.5°	1684.3	1688.0	1685.0	1684.3	1683.5	1683.5	1683.5	1684.3	1687.2	1689.4	1688.0
5°	1705.6	1708.5	1707.1	1706.3	1705.6	1706.3	1704.8	1704.1	1706.3	1706.3	1705.6
7.5°	1732.1	1735.8	1734.3	1735.8	1736.5	1737.2	1733.6	1730.6	1729.9	1732.1	1730.6
10°	1768.1	1771.0	1771.8	1772.5	1774.0	1773.3	1768.8	1763.7	1762.9	1762.2	1761.4
12.5°	1808.5	1810.7	1811.5	1814.4	1816.6	1817.3	1812.2	1807.8	1800.4	1801.9	1798.9
15°	1854.1	1858.5	1857.7	1862.2	1868.1	1869.6	1864.4	1857.0	1850.5	1846.8	1844.5
17.5°	1910.0	1912.9	1911.5	1915.8	1923.2	1926.9	1922.5	1912.9	1906.3	1898.2	1893.8
20°	1976.1	1981.3	1982.8	1982.8	1989.4	1993.0	1986.5	1983.5	1973.2	1967.3	1963.6
22.5°	2051.1	2053.3	2057.7	2062.2	2068.8	2067.3	2065.1	2060.7	2051.1	2046.0	2040.1
25°	2135.7	2137.9	2148.9	2158.5	2160.7	2159.2	2156.2	2154.0	2145.3	2133.4	2129.1
27.5°	2234.2	2238.6	2253.3	2262.1	2262.1	2262.9	2257.0	2264.4	2245.2	2231.2	2229.7
30°	2357.7	2360.7	2373.1	2382.0	2377.6	2373.9	2372.4	2379.8	2359.2	2334.2	2328.3
32.5°	2479.8	2490.0	2501.1	2520.2	2504.7	2498.1	2496.7	2501.8	2478.3	2450.3	2442.3
35°	2610.6	2618.0	2638.6	2654.7	2640.7	2625.3	2631.9	2648.1	2620.2	2582.6	2581.2
37.5°	2755.5	2762.0	2788.5	2805.4	2795.2	2768.7	2779.6	2798.8	2770.9	2724.5	2715.0
40°	2906.1	2920.1	2953.2	2970.9	2953.9	2918.6	2939.2	2959.8	2934.8	2881.1	2859.8
42.5°	3075.2	3097.3	3145.1	3153.8	3121.5	3073.7	3109.8	3142.9	3125.2	3063.5	3055.3
45°	3273.0	3286.3	3345.1	3364.2	3319.3	3259.8	3304.6	3364.9	3351.6	3280.3	3264.9
47.5°	3494.3	3506.7	3567.8	3596.5	3539.9	3459.7	3540.6	3619.3	3611.2	3534.7	3527.3
50°	3756.0	3758.9	3843.5	3875.8	3819.2	3750.1	3822.1	3919.9	3887.6	3789.8	3788.3
52.5°	4042.7	4046.4	4153.0	4215.4	4183.9	4105.9	4191.2	4250.8	4168.5	4040.5	4031.0
55°	4291.2	4309.6	4455.1	4621.3	4664.6	4608.0	4633.8	4605.8	4403.0	4223.6	4195.6
57.5°	4392.6	4428.6	4649.9	4960.2	5242.5	5326.3	5127.8	4861.7	4496.3	4242.7	4215.4
60°	4144.9	4183.9	4527.1	5116.0	5836.6	6200.4	5642.5	4905.0	4283.9	3927.3	3884.6
62.5°	3319.3	3330.3	3835.4	4749.2	6182.8	7125.3	5859.3	4535.3	3665.5	3181.1	3164.2
64°	2388.5	2501.8	3037.0	4164.0	6031.4	7477.4	5734.3	4016.9	2977.4	2487.1	2407.6
65°	1786.5	1817.3	2448.1	3556.0	5764.4	7450.9	5491.7	3521.5	2465.7	1903.4	1815.2
67.5°	674.9	678.5	903.5	1772.5	4103.7	6410.7	4191.2	1915.8	1038.8	751.4	724.1
70°	280.1	285.2	331.6	596.3	1763.7	4116.2	2021.0	691.1	380.1	308.0	303.6
72.5°	205.1	208.0	222.1	264.7	542.5	1690.2	664.6	293.3	222.8	199.2	197.0
75°	161.0	162.5	172.7	194.8	252.9	468.3	276.4	201.5	169.8	152.9	151.4
77.5°	122.8	126.5	133.8	148.5	169.8	222.1	183.1	150.7	130.8	116.9	114.7
80°	84.6	88.9	102.9	108.8	113.9	144.1	125.0	113.9	102.2	85.3	80.1
82.5°	52.2	55.1	69.1	74.2	72.0	80.9	80.1	81.6	72.8	52.9	49.3
85°	27.2	28.7	37.5	39.0	36.0	33.1	41.2	47.8	44.9	30.1	29.4
87.5°	5.9	6.7	8.1	7.4	8.1	8.1	10.3	15.4	16.2	10.3	9.6
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)