

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: P453120

Luminaire Tested: **GALN-SA4A-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453120
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-SA4A-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13879 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

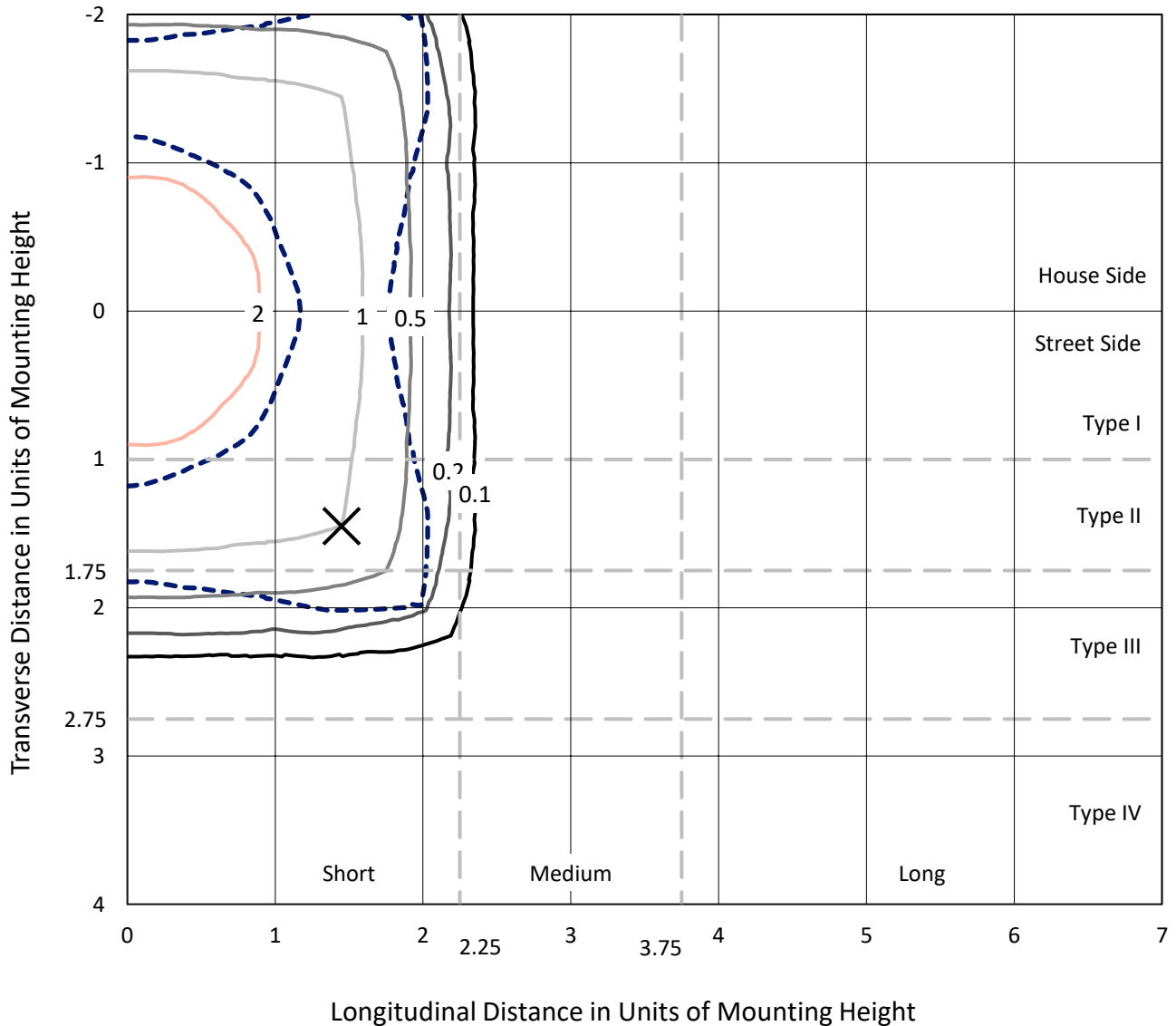
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

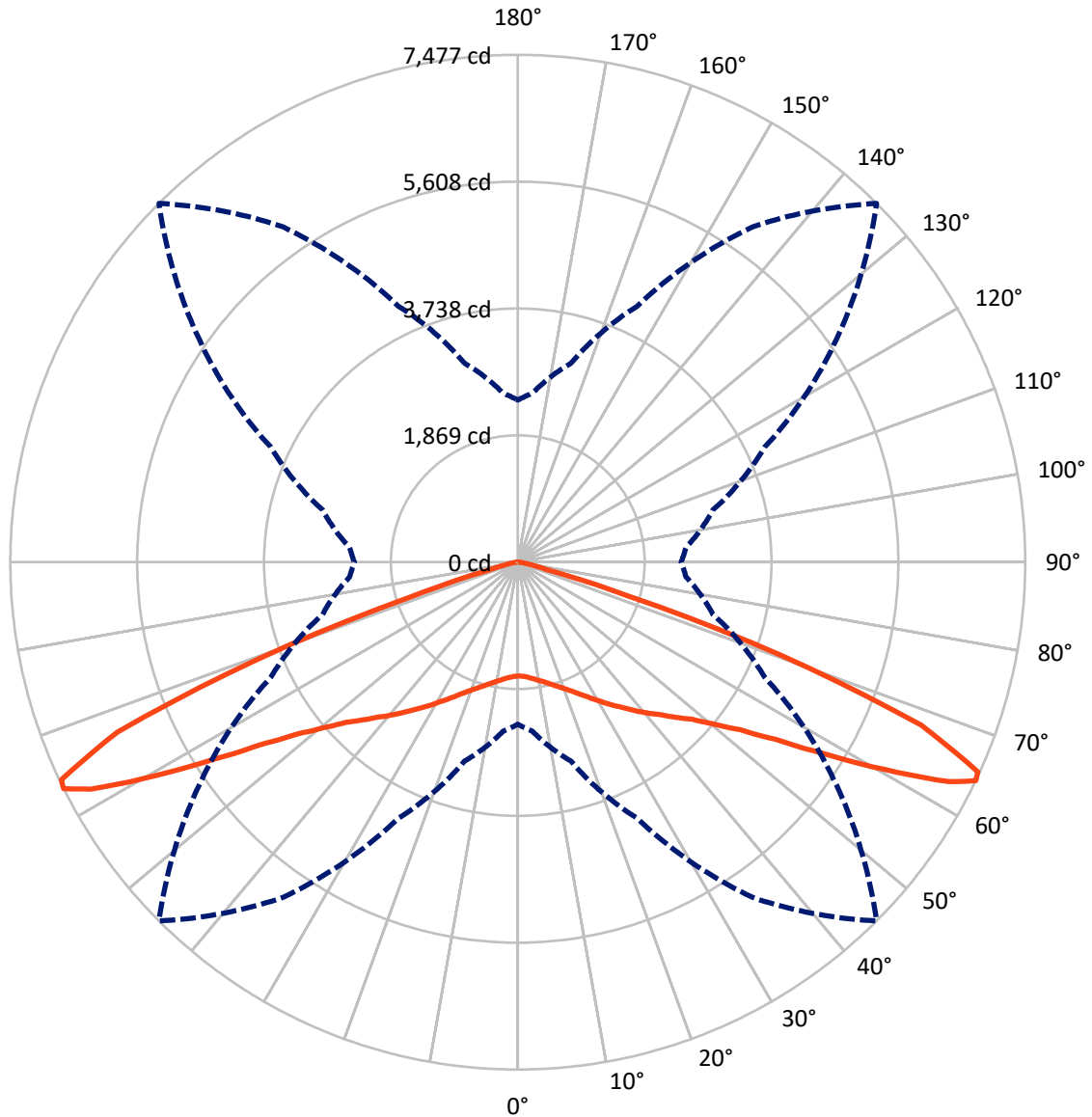
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	6939.5	0.0	6939.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6939.5	0.0	6939.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13879.0	0.0	13879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	1.2
10°-20°	531.6	3.8
20°-30°	1004.6	7.2
30°-40°	1663.7	12.0
40°-50°	2597.3	18.7
50°-60°	4015.3	28.9
60°-70°	3462.4	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°	13879.0	100.0
0°-180°	13879.0	100.0

Coefficient of Utilization



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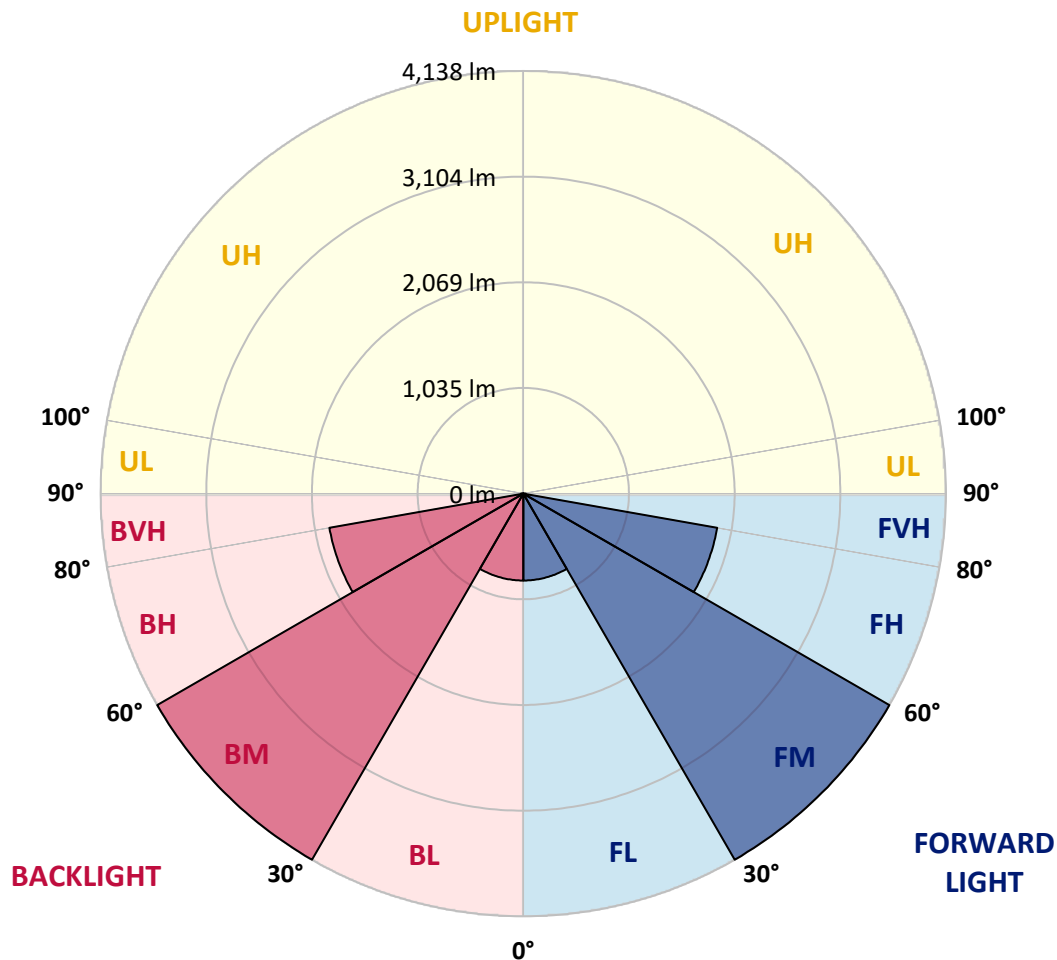
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.5	6.1			
FM	(30°-60°)	4138.1	29.8			
FH	(60°-80°)	1927.4	13.9			G2/5000
FVH	(80°-90°)	23.5	0.2			G1/100
BL	(0°-30°)	850.5	6.1	B2/1000		
BM	(30°-60°)	4138.1	29.8	B3/5000		
BH	(60°-80°)	1927.4	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°	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5
2.5°	1684.1	1687.8	1684.9	1684.1	1683.4	1683.4	1683.4	1684.1	1687.1	1689.3	1687.8
5°	1705.4	1708.4	1706.9	1706.2	1705.4	1706.2	1704.7	1704.0	1706.2	1706.2	1705.4
7.5°	1731.9	1735.6	1734.1	1735.6	1736.3	1737.1	1733.4	1730.4	1729.7	1731.9	1730.4
10°	1767.9	1770.9	1771.6	1772.3	1773.8	1773.1	1768.7	1763.5	1762.8	1762.0	1761.3
12.5°	1808.4	1810.6	1811.3	1814.2	1816.4	1817.2	1812.0	1807.6	1800.3	1801.7	1798.8
15°	1853.9	1858.3	1857.6	1862.0	1867.9	1869.4	1864.2	1856.9	1850.3	1846.6	1844.4
17.5°	1909.8	1912.7	1911.3	1915.7	1923.0	1926.7	1922.3	1912.7	1906.1	1898.0	1893.6
20°	1976.0	1981.1	1982.6	1982.6	1989.2	1992.9	1986.3	1983.3	1973.0	1967.1	1963.5
22.5°	2050.9	2053.1	2057.6	2062.0	2068.6	2067.1	2064.9	2060.5	2050.9	2045.8	2039.9
25°	2135.5	2137.7	2148.7	2158.3	2160.5	2159.0	2156.1	2153.9	2145.0	2133.3	2128.9
27.5°	2234.0	2238.4	2253.1	2261.9	2261.9	2262.7	2256.8	2264.1	2245.0	2231.0	2229.6
30°	2357.5	2360.4	2372.9	2381.7	2377.3	2373.7	2372.2	2379.5	2359.0	2334.0	2328.1
32.5°	2479.5	2489.8	2500.8	2519.9	2504.5	2497.9	2496.4	2501.6	2478.0	2450.1	2442.0
35°	2610.4	2617.7	2638.3	2654.5	2640.5	2625.1	2631.7	2647.8	2619.9	2582.4	2581.0
37.5°	2755.2	2761.8	2788.3	2805.2	2794.9	2768.4	2779.4	2798.5	2770.6	2724.3	2714.7
40°	2905.9	2919.8	2952.9	2970.6	2953.7	2918.4	2939.0	2959.5	2934.5	2880.9	2859.6
42.5°	3074.9	3097.0	3144.8	3153.6	3121.3	3073.5	3109.5	3142.6	3124.9	3063.2	3055.1
45°	3272.7	3285.9	3344.7	3363.8	3319.0	3259.5	3304.3	3364.6	3351.3	3280.0	3264.6
47.5°	3494.0	3506.5	3567.5	3596.1	3539.5	3459.4	3540.3	3618.9	3610.8	3534.4	3527.0
50°	3755.7	3758.6	3843.1	3875.5	3818.9	3749.8	3821.8	3919.6	3887.2	3789.5	3788.0
52.5°	4042.3	4046.0	4152.6	4215.1	4183.5	4105.6	4190.8	4250.4	4168.0	4040.1	4030.6
55°	4290.8	4309.2	4454.7	4620.9	4664.2	4607.6	4633.4	4605.4	4402.5	4223.2	4195.2
57.5°	4392.3	4428.3	4649.5	4959.8	5242.0	5325.8	5127.4	4861.3	4495.9	4242.3	4215.1
60°	4144.5	4183.5	4526.8	5115.6	5836.0	6199.9	5641.9	4904.6	4283.5	3926.9	3884.3
62.5°	3319.0	3330.0	3835.0	4748.8	6182.2	7124.6	5858.8	4534.9	3665.2	3180.8	3163.9
64°	2388.4	2501.6	3036.7	4163.6	6030.8	7476.8	5733.8	4016.6	2977.2	2486.9	2407.5
65°	1786.3	1817.2	2447.9	3555.7	5764.0	7450.3	5491.2	3521.2	2465.5	1903.2	1815.0
67.5°	674.8	678.5	903.4	1772.3	4103.4	6410.1	4190.8	1915.7	1038.7	751.3	724.1
70°	280.1	285.2	331.5	596.2	1763.5	4115.9	2020.8	691.0	380.0	308.0	303.6
72.5°	205.1	208.0	222.0	264.6	542.5	1690.0	664.5	293.3	222.7	199.2	197.0
75°	161.0	162.5	172.7	194.8	252.9	468.3	276.4	201.4	169.8	152.9	151.4
77.5°	122.8	126.4	133.8	148.5	169.8	222.0	183.0	150.7	130.8	116.9	114.7
80°	84.5	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	44.8	30.1	29.4
87.5°	5.9	6.6	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)