

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: P529010

Luminaire Tested: **GALN-SA4A-827-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11653 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

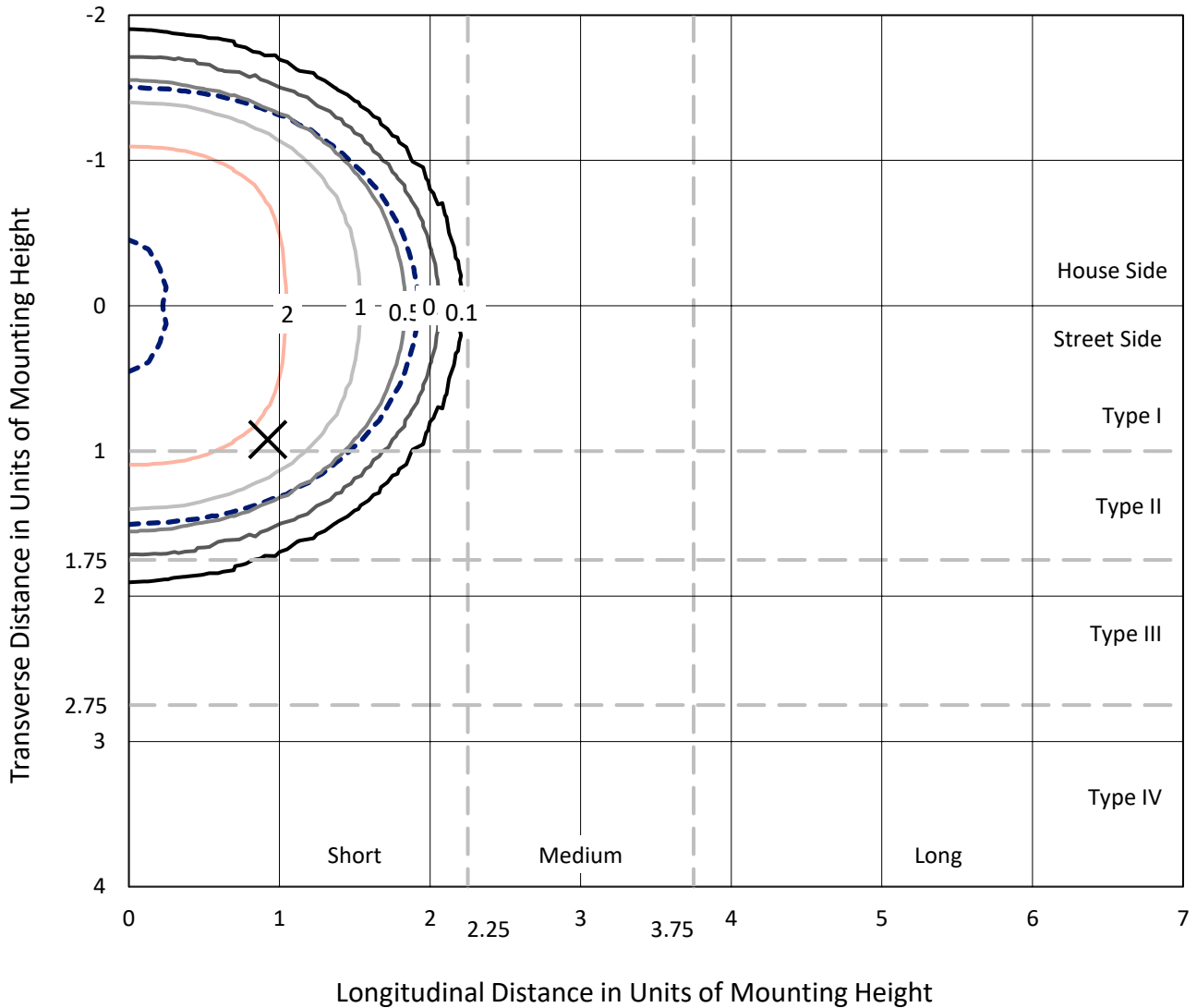
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

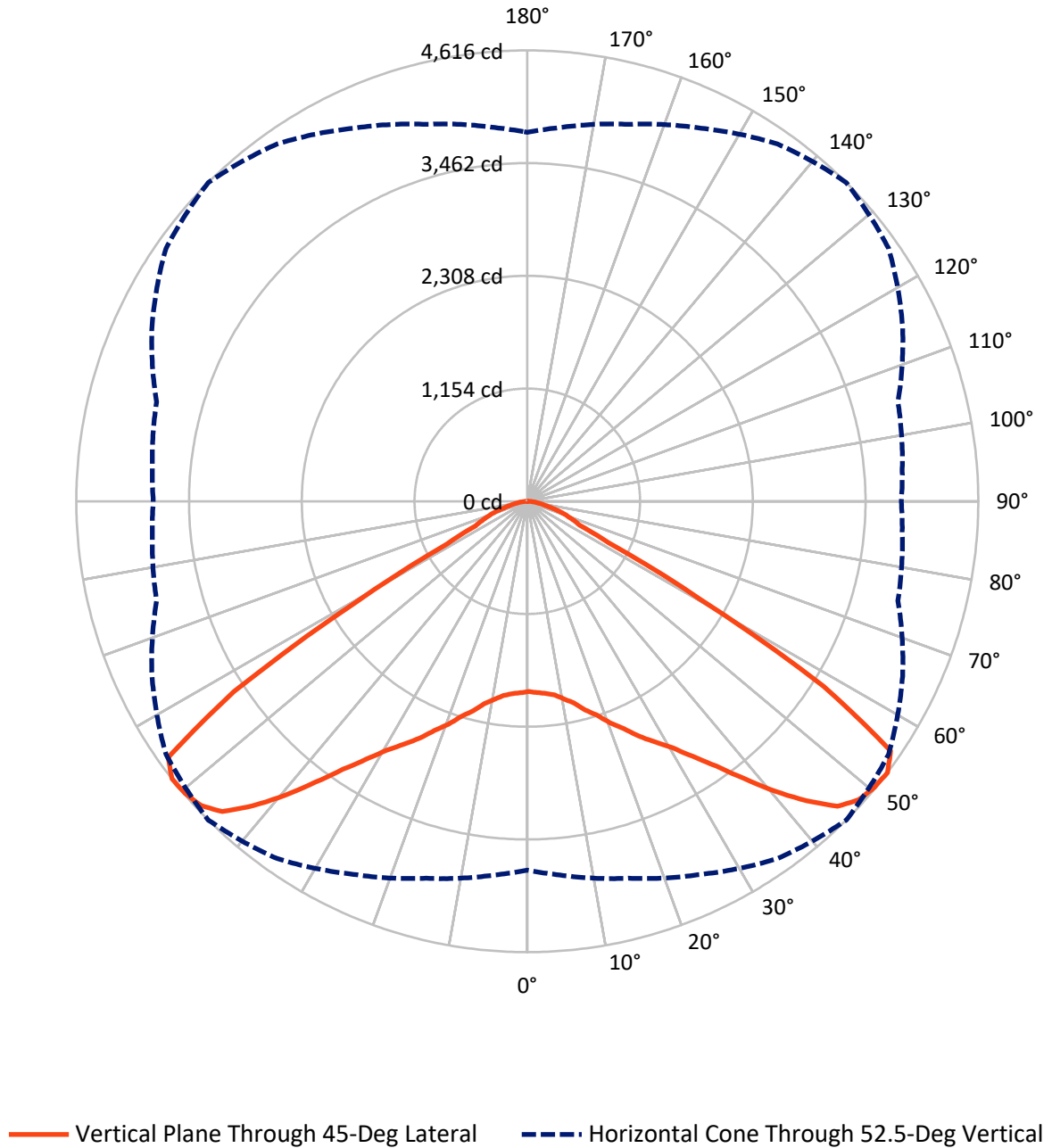
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5826.5	0.0	5826.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5826.5	0.0	5826.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11653.0	0.0	11653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	1.6
10°-20°	628.9	5.4
20°-30°	1197.3	10.3
30°-40°	2055.8	17.6
40°-50°	3159.8	27.1
50°-60°	3208.7	27.5
60°-70°	894.2	7.7
70°-80°	263.8	2.3
80°-90°	53.1	0.5
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°	11653.0	100.0
0°-180°	11653.0	100.0

Coefficient of Utilization



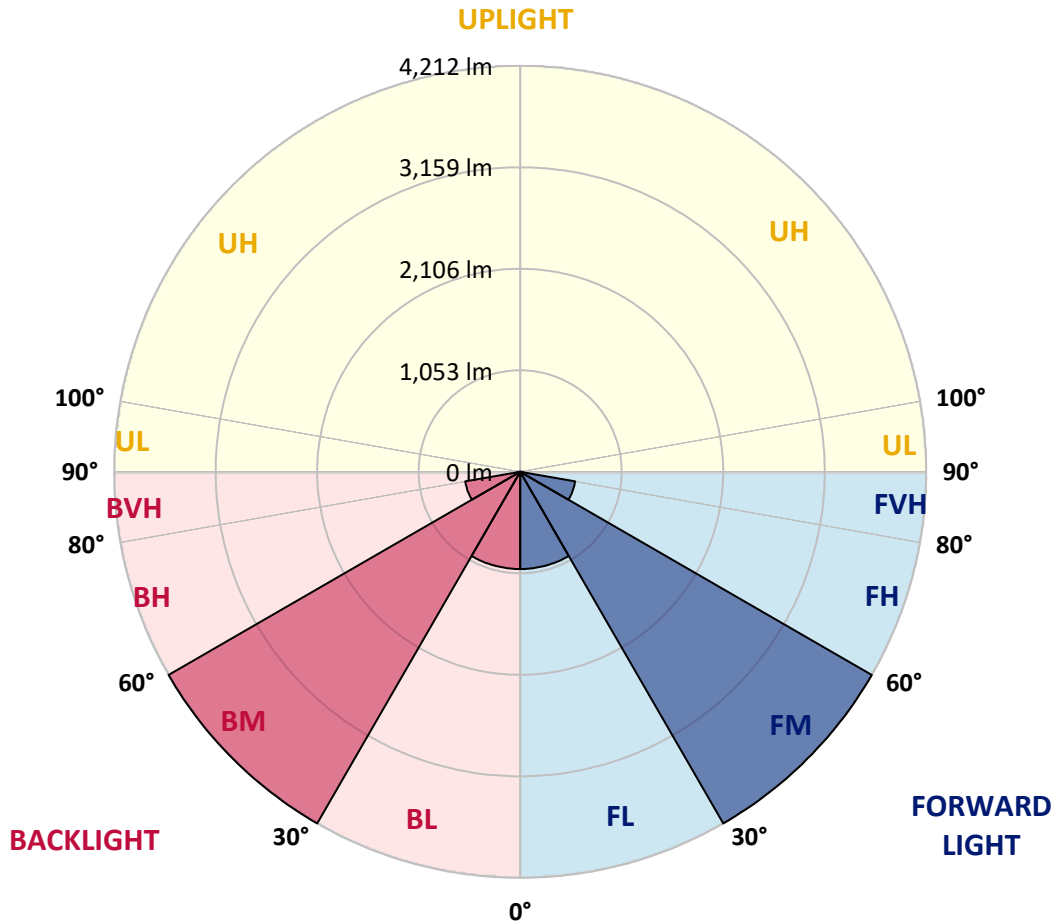
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.8	8.7			
FM (30°-60°)	4212.2	36.1			
FH (60°-80°)	579.0	5.0			G0/660
FVH (80°-90°)	26.6	0.2			G1/100
BL (0°-30°)	1008.8	8.7	B3/2500		
BM (30°-60°)	4212.2	36.1	B3/5000		
BH (60°-80°)	579.0	5.0	B2/1000		G0/660
BVH (80°-90°)	26.6	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1948.0	1948.0	1948.0	1948.0	1948.0	1948.0	1948.0	1948.0	1948.0	1948.0	1948.0
2.5°	1952.3	1932.0	1939.3	1943.6	1962.4	1961.0	1956.6	1962.4	1968.2	1969.6	1966.8
5°	1950.8	1936.4	1942.2	1946.5	1965.3	1975.4	1972.5	1997.1	2014.5	2010.1	2031.8
7.5°	1939.3	1948.0	1940.7	1962.4	1978.3	2002.9	2028.9	2052.1	2073.8	2098.4	2102.7
10°	1965.3	1965.3	1978.3	1995.7	2037.6	2056.4	2094.0	2127.3	2169.2	2198.1	2186.6
12.5°	1992.8	1997.1	1997.1	2042.0	2076.7	2118.6	2153.3	2198.1	2257.4	2292.1	2309.5
15°	2020.3	2023.2	2037.6	2098.4	2150.4	2216.9	2248.7	2289.2	2322.5	2387.6	2389.0
17.5°	2044.8	2060.8	2104.1	2172.1	2237.2	2300.8	2351.4	2393.4	2422.3	2448.3	2442.5
20°	2137.4	2149.0	2193.8	2261.8	2358.7	2420.8	2438.2	2445.4	2464.2	2516.3	2500.4
22.5°	2227.1	2231.4	2273.3	2377.5	2445.4	2527.9	2546.7	2542.3	2549.5	2562.6	2585.7
25°	2319.6	2326.8	2384.7	2472.9	2568.3	2666.7	2682.6	2649.3	2639.2	2653.7	2655.1
27.5°	2438.2	2439.6	2513.4	2590.0	2698.5	2791.1	2815.6	2789.6	2741.9	2753.5	2772.3
30°	2588.6	2578.5	2652.2	2762.1	2876.4	2928.4	2970.4	2957.4	2905.3	2895.2	2879.3
32.5°	2762.1	2765.0	2831.5	2951.6	3026.8	3113.5	3158.4	3136.7	3103.4	3086.1	3096.2
35°	3006.5	3019.5	3064.4	3164.2	3285.6	3329.0	3399.9	3353.6	3266.8	3288.5	3307.3
37.5°	3207.5	3245.1	3329.0	3447.6	3519.9	3599.4	3625.5	3563.3	3499.7	3473.6	3535.8
40°	3515.6	3504.0	3596.6	3715.1	3822.2	3901.7	3868.4	3806.2	3648.6	3650.1	3667.4
42.5°	3780.2	3786.0	3856.9	3998.6	4144.6	4193.8	4088.2	3936.4	3761.4	3742.6	3780.2
45°	4002.9	4026.1	4066.5	4256.0	4399.2	4452.7	4257.4	4078.1	3843.8	3765.8	3827.9
47.5°	4082.5	4120.1	4208.3	4381.8	4523.5	4566.9	4410.7	4153.3	3920.5	3793.2	3826.5
50°	4094.0	4081.0	4225.6	4384.7	4509.1	4603.1	4465.7	4208.3	3901.7	3835.2	3825.0
52.5°	3777.3	3841.0	3995.7	4214.1	4465.7	4616.1	4514.9	4238.6	3927.7	3852.5	3827.9
55°	3057.1	2981.9	3263.9	3631.3	4094.0	4512.0	4497.5	4254.5	3943.6	3881.4	3848.2
57.5°	1706.4	1728.1	1887.2	2286.3	2883.6	3577.8	3998.6	4086.8	3936.4	3900.2	3917.6
60°	789.6	796.8	864.8	1051.3	1421.6	2028.9	2582.8	3145.4	3404.2	3456.3	3456.3
62.5°	588.6	585.7	603.0	636.3	714.4	932.8	1245.1	1692.0	2047.7	2296.5	2361.5
65°	532.2	530.7	539.4	551.0	556.8	587.1	656.5	793.9	909.6	976.1	964.6
67.5°	465.7	464.2	467.1	474.3	484.5	500.4	517.7	546.6	587.1	584.2	577.0
70°	376.0	376.0	380.3	386.1	397.7	416.5	436.7	457.0	491.7	498.9	497.5
72.5°	277.7	273.3	282.0	293.6	305.1	328.3	350.0	368.8	393.4	400.6	397.7
75°	176.4	179.3	185.1	198.1	218.4	234.3	257.4	273.3	289.2	295.0	296.5
77.5°	98.3	101.2	111.4	127.3	147.5	164.9	185.1	198.1	208.2	209.7	211.1
80°	59.3	60.7	70.9	85.3	102.7	121.5	137.4	150.4	159.1	154.7	153.3
82.5°	36.2	37.6	46.3	59.3	73.8	88.2	105.6	117.1	125.8	120.0	114.2
85°	18.8	20.2	27.5	36.2	47.7	55.0	55.0	49.2	47.7	44.8	43.4
87.5°	5.8	5.8	7.2	8.7	7.2	8.7	10.1	11.6	11.6	13.0	11.6
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)