

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: P527680

Luminaire Tested: **GALN-SA2D-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11038 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

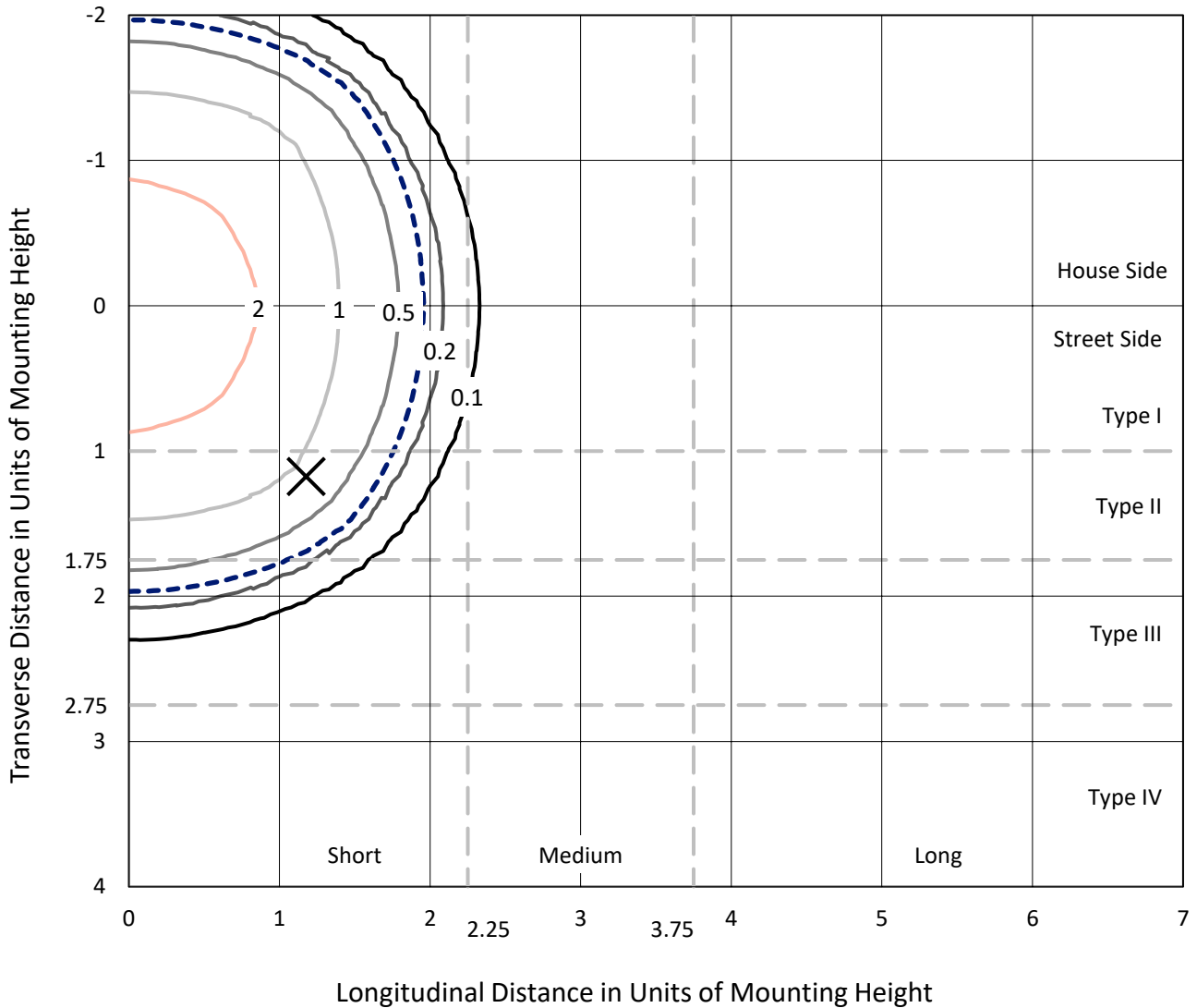
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

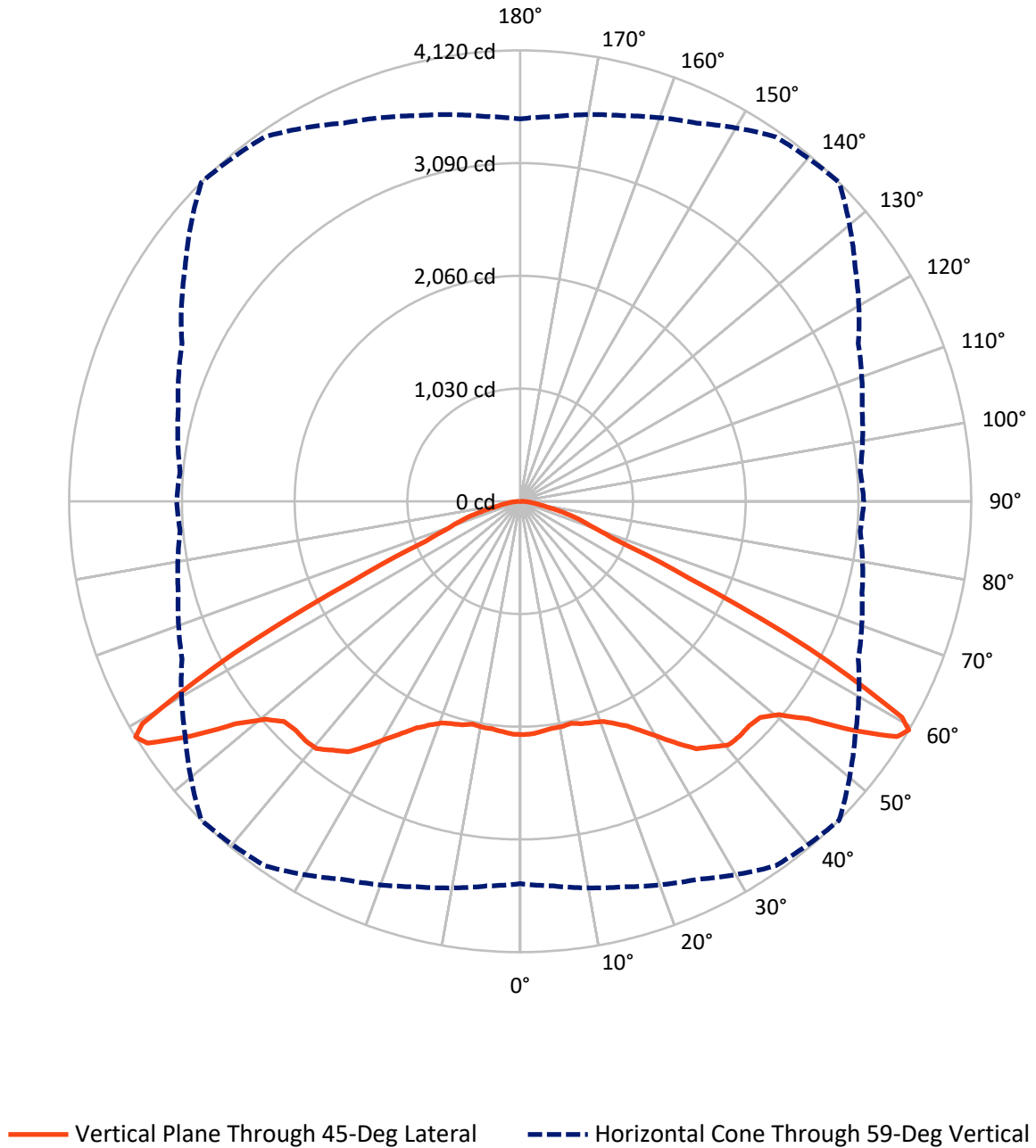
✕ Max cd
 - - - 1/2 Max cd



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	5519.0	0.0	5519.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5519.0	0.0	5519.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11038.0	0.0	11038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	1.8
10°-20°	597.7	5.4
20°-30°	1043.6	9.5
30°-40°	1666.8	15.1
40°-50°	2270.5	20.6
50°-60°	3070.4	27.8
60°-70°	1683.8	15.3
70°-80°	430.8	3.9
80°-90°	73.5	0.7
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°	11038.0	100.0
0°-180°	11038.0	100.0

Coefficient of Utilization



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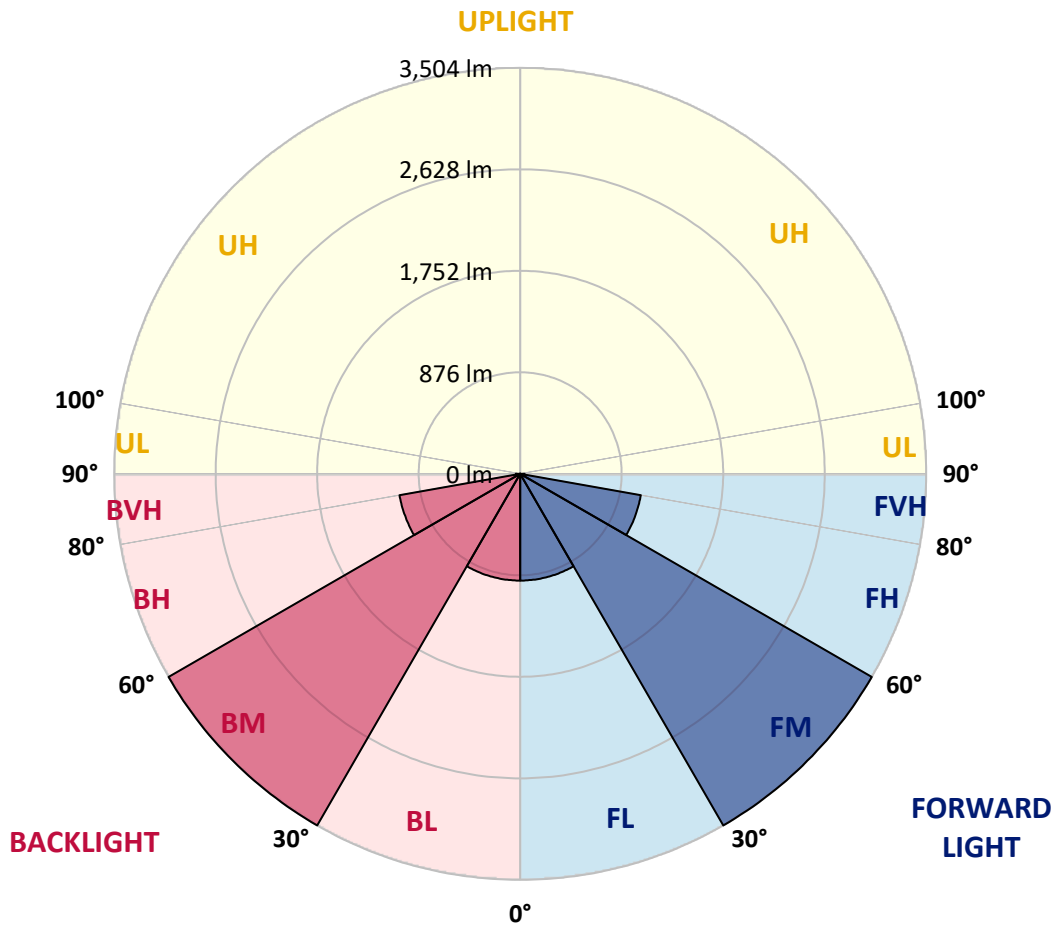
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.1	8.3			
FM (30°-60°)	3503.8	31.7			
FH (60°-80°)	1057.3	9.6			G1/1800
FVH (80°-90°)	36.7	0.3			G1/100
BL (0°-30°)	921.1	8.3	B2/1000		
BM (30°-60°)	3503.8	31.7	B3/5000		
BH (60°-80°)	1057.3	9.6	B3/2500		G1/1800
BVH (80°-90°)	36.7	0.3			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°	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0
2.5°	2119.3	2134.8	2123.5	2133.4	2132.0	2127.8	2120.7	2116.5	2110.8	2119.3	2105.1
5°	2110.8	2123.5	2136.3	2119.3	2119.3	2110.8	2106.5	2098.1	2098.1	2096.6	2095.2
7.5°	2124.9	2112.2	2106.5	2109.4	2112.2	2093.8	2106.5	2089.6	2075.4	2085.3	2096.6
10°	2112.2	2117.9	2096.6	2106.5	2091.0	2093.8	2085.3	2096.6	2081.1	2081.1	2081.1
12.5°	2124.9	2109.4	2116.5	2109.4	2105.1	2081.1	2092.4	2079.7	2078.3	2092.4	2079.7
15°	2150.4	2124.9	2119.3	2105.1	2109.4	2109.4	2098.1	2099.5	2083.9	2092.4	2095.2
17.5°	2141.9	2127.8	2123.5	2106.5	2120.7	2124.9	2103.7	2089.6	2099.5	2098.1	2096.6
20°	2149.0	2154.6	2150.4	2153.2	2158.9	2147.6	2127.8	2108.0	2095.2	2113.6	2112.2
22.5°	2194.3	2188.6	2185.8	2182.9	2192.8	2204.2	2177.3	2146.2	2146.2	2158.9	2164.6
25°	2231.0	2229.6	2228.2	2240.9	2274.9	2274.9	2240.9	2201.3	2191.4	2199.9	2192.8
27.5°	2284.8	2300.4	2294.7	2317.3	2366.9	2378.2	2332.9	2286.2	2259.3	2249.4	2262.2
30°	2407.9	2389.5	2393.7	2417.8	2461.6	2498.4	2429.1	2379.6	2342.8	2341.4	2347.1
32.5°	2489.9	2504.1	2516.8	2539.5	2608.8	2637.1	2553.6	2473.0	2450.3	2437.6	2441.8
35°	2654.1	2641.3	2638.5	2661.1	2730.4	2777.1	2672.4	2601.7	2572.0	2600.3	2600.3
37.5°	2809.7	2774.3	2747.4	2777.1	2840.8	2846.5	2757.3	2719.1	2703.6	2736.1	2734.7
40°	2883.2	2880.4	2818.2	2835.1	2920.0	2928.5	2845.0	2799.8	2796.9	2839.4	2881.8
42.5°	2959.6	2932.8	2870.5	2881.8	2934.2	2937.0	2857.8	2845.0	2876.2	2917.2	2920.0
45°	2972.4	2949.7	2910.1	2881.8	2920.0	2928.5	2881.8	2890.3	2893.1	2942.7	2942.7
47.5°	2997.8	2995.0	2972.4	2951.1	2958.2	2951.1	2921.4	2934.2	2976.6	3000.7	2989.3
50°	3068.6	3038.9	3061.5	3043.1	3044.5	3064.3	3037.4	3050.2	3041.7	3020.5	3006.3
52.5°	3224.2	3210.0	3229.9	3242.6	3256.7	3302.0	3270.9	3203.0	3139.3	3082.7	3081.3
55°	3452.0	3461.9	3500.1	3565.1	3620.3	3692.5	3542.5	3379.8	3278.0	3188.8	3194.5
57.5°	3667.0	3659.9	3712.3	3860.8	4022.1	4058.9	3764.6	3532.6	3367.1	3310.5	3286.4
59°	3494.4	3528.4	3647.2	3812.7	4066.0	4119.7	3734.9	3408.1	3232.7	3118.1	3137.9
60°	3222.8	3235.5	3341.6	3572.2	3914.6	4006.5	3535.4	3215.7	2982.3	2915.8	2945.5
62.5°	2277.7	2267.8	2344.2	2532.4	2839.4	2963.9	2628.6	2403.6	2256.5	2182.9	2199.9
65°	1211.0	1256.3	1287.4	1404.8	1567.5	1699.1	1560.5	1462.8	1380.8	1320.0	1318.5
67.5°	817.7	812.1	819.1	846.0	901.2	938.0	935.1	885.6	878.6	867.2	880.0
70°	689.0	686.1	673.4	673.4	684.7	693.2	703.1	708.8	720.1	734.3	732.8
72.5°	558.8	551.7	543.3	539.0	553.2	557.4	570.1	575.8	585.7	584.3	597.0
75°	369.2	369.2	379.2	390.5	394.7	403.2	404.6	421.6	421.6	424.4	413.1
77.5°	206.6	200.9	208.0	219.3	229.2	244.8	260.3	273.0	280.1	277.3	277.3
80°	120.3	120.3	127.3	140.1	152.8	166.9	178.3	188.2	195.2	192.4	186.7
82.5°	75.0	75.0	82.1	94.8	104.7	113.2	128.7	141.5	150.0	147.1	140.1
85°	38.2	38.2	46.7	55.2	67.9	73.6	72.2	66.5	65.1	58.0	58.0
87.5°	9.9	9.9	14.1	15.6	12.7	14.1	14.1	14.1	14.1	14.1	15.6
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)