

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: P527758

Luminaire Tested: **GALN-SA2D-740-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527758
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-740-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 13198 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

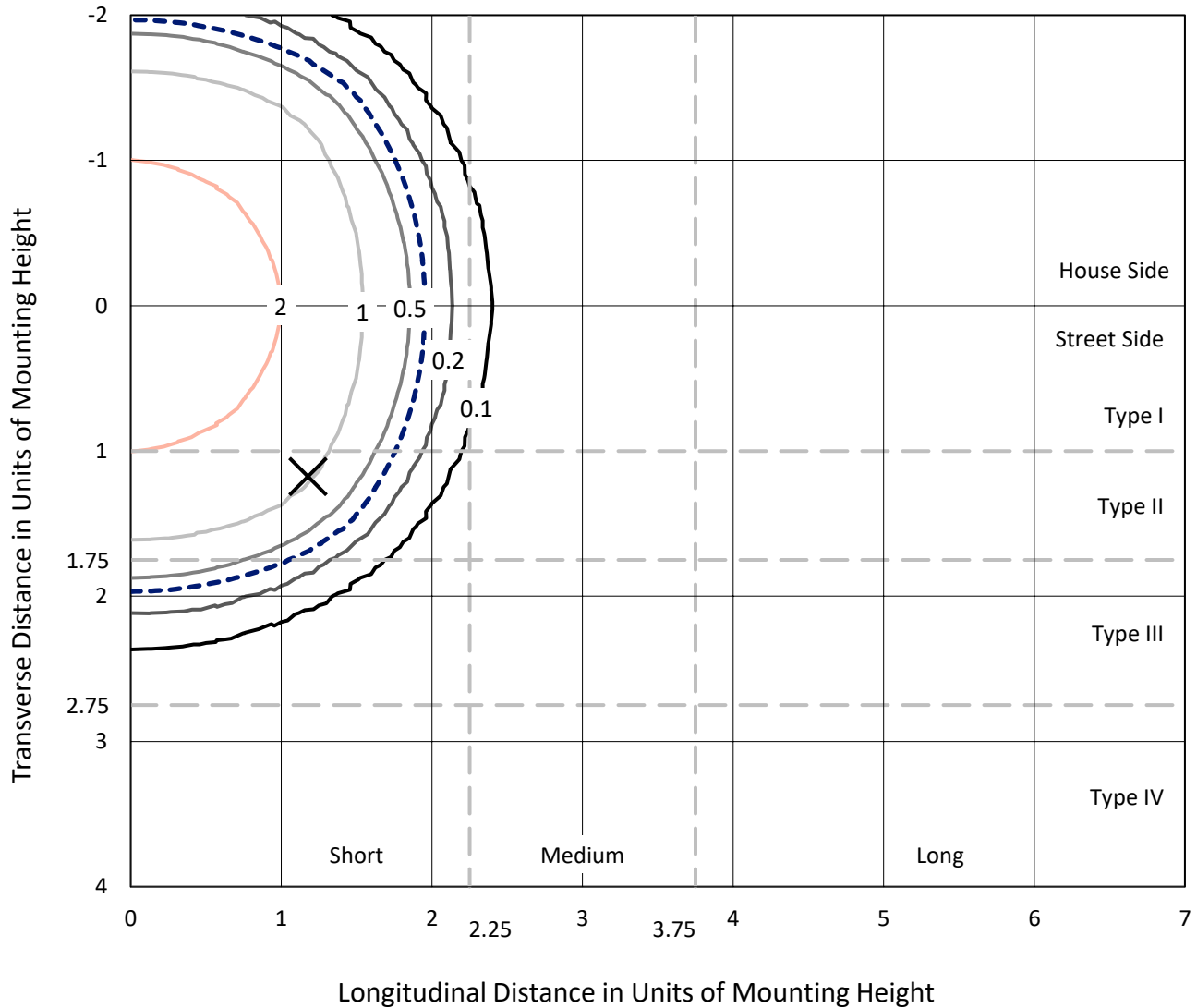
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

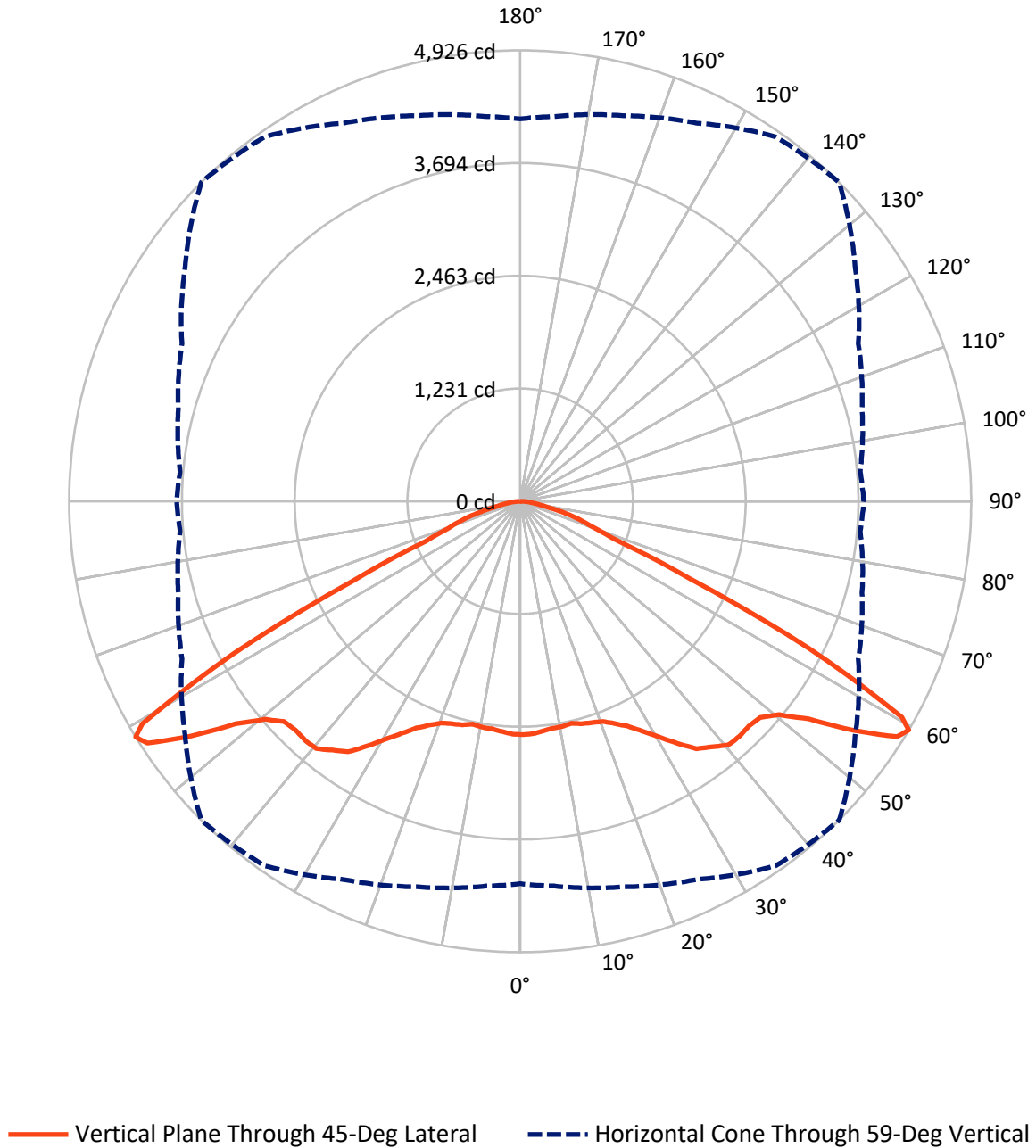
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	6599.0	0.0	6599.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6599.0	0.0	6599.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13198.0	0.0	13198.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	1.8
10°-20°	714.6	5.4
20°-30°	1247.8	9.5
30°-40°	1993.0	15.1
40°-50°	2714.8	20.6
50°-60°	3671.2	27.8
60°-70°	2013.3	15.3
70°-80°	515.1	3.9
80°-90°	87.8	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°	13198.0	100.0
0°-180°	13198.0	100.0



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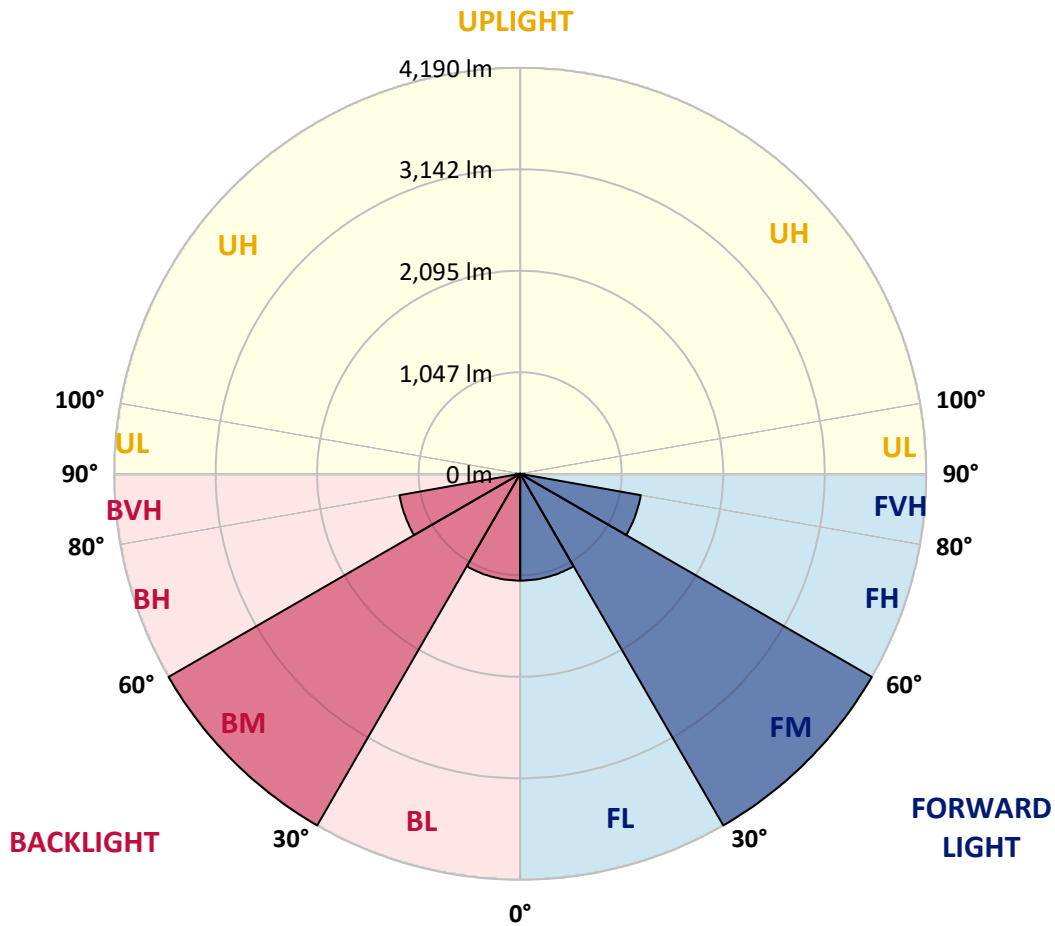
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1101.4	8.3			
FM (30°-60°)	4189.5	31.7			
FH (60°-80°)	1264.2	9.6			G1/1800
FVH (80°-90°)	43.9	0.3			G1/100
BL (0°-30°)	1101.4	8.3	B3/2500		
BM (30°-60°)	4189.5	31.7	B3/5000		
BH (60°-80°)	1264.2	9.6	B3/2500		G1/1800
BVH (80°-90°)	43.9	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°	2549.2	2549.2	2549.2	2549.2	2549.2	2549.2	2549.2	2549.2	2549.2	2549.2	2549.2
2.5°	2534.0	2552.6	2539.1	2550.9	2549.2	2544.1	2535.7	2530.6	2523.8	2534.0	2517.1
5°	2523.8	2539.1	2554.3	2534.0	2534.0	2523.8	2518.8	2508.6	2508.6	2506.9	2505.2
7.5°	2540.8	2525.5	2518.8	2522.2	2525.5	2503.5	2518.8	2498.5	2481.6	2493.4	2506.9
10°	2525.5	2532.3	2506.9	2518.8	2500.2	2503.5	2493.4	2506.9	2488.3	2488.3	2488.3
12.5°	2540.8	2522.2	2530.6	2522.2	2517.1	2488.3	2501.9	2486.6	2484.9	2501.9	2486.6
15°	2571.2	2540.8	2534.0	2517.1	2522.2	2522.2	2508.6	2510.3	2491.7	2501.9	2505.2
17.5°	2561.1	2544.1	2539.1	2518.8	2535.7	2540.8	2515.4	2498.5	2510.3	2508.6	2506.9
20°	2569.5	2576.3	2571.2	2574.6	2581.4	2567.8	2544.1	2520.5	2505.2	2527.2	2525.5
22.5°	2623.7	2616.9	2613.5	2610.1	2622.0	2635.5	2603.4	2566.1	2566.1	2581.4	2588.1
25°	2667.6	2665.9	2664.3	2679.5	2720.1	2720.1	2679.5	2632.1	2620.3	2630.4	2622.0
27.5°	2731.9	2750.5	2743.8	2770.8	2830.0	2843.6	2789.4	2733.6	2701.5	2689.6	2704.8
30°	2879.1	2857.1	2862.2	2890.9	2943.4	2987.3	2904.5	2845.3	2801.3	2799.6	2806.3
32.5°	2977.2	2994.1	3009.3	3036.4	3119.3	3153.1	3053.3	2956.9	2929.8	2914.6	2919.7
35°	3173.4	3158.2	3154.8	3181.9	3264.8	3320.6	3195.4	3110.8	3075.3	3109.1	3109.1
37.5°	3359.5	3317.2	3285.1	3320.6	3396.7	3403.5	3296.9	3251.2	3232.6	3271.5	3269.8
40°	3447.5	3444.1	3369.6	3389.9	3491.4	3501.6	3401.8	3347.7	3344.3	3395.0	3445.8
42.5°	3538.8	3506.7	3432.2	3445.8	3508.4	3511.7	3417.0	3401.8	3439.0	3488.1	3491.4
45°	3554.0	3527.0	3479.6	3445.8	3491.4	3501.6	3445.8	3455.9	3459.3	3518.5	3518.5
47.5°	3584.5	3581.1	3554.0	3528.7	3537.1	3528.7	3493.1	3508.4	3559.1	3587.9	3574.3
50°	3669.1	3633.5	3660.6	3638.6	3640.3	3664.0	3631.8	3647.1	3636.9	3611.5	3594.6
52.5°	3855.1	3838.2	3861.9	3877.1	3894.0	3948.2	3911.0	3829.8	3753.6	3686.0	3684.3
55°	4127.5	4139.3	4185.0	4262.8	4328.8	4415.0	4235.7	4041.2	3919.4	3812.8	3819.6
57.5°	4384.6	4376.1	4438.7	4616.3	4809.2	4853.2	4501.3	4223.9	4026.0	3958.3	3929.6
59°	4178.2	4218.8	4360.9	4558.8	4861.6	4925.9	4465.8	4075.0	3865.3	3728.3	3751.9
60°	3853.4	3868.7	3995.5	4271.3	4680.6	4790.6	4227.3	3845.0	3565.9	3486.4	3521.9
62.5°	2723.5	2711.6	2803.0	3027.9	3395.0	3543.9	3143.0	2874.0	2698.1	2610.1	2630.4
65°	1448.0	1502.1	1539.3	1679.7	1874.3	2031.6	1865.8	1749.1	1651.0	1578.3	1576.6
67.5°	977.7	971.0	979.4	1011.6	1077.5	1121.5	1118.1	1058.9	1050.5	1036.9	1052.2
70°	823.8	820.4	805.2	805.2	818.7	828.9	840.7	847.5	861.0	877.9	876.2
72.5°	668.2	659.7	649.6	644.5	661.4	666.5	681.7	688.5	700.3	698.6	713.8
75°	441.5	441.5	453.3	466.9	472.0	482.1	483.8	504.1	504.1	507.5	493.9
77.5°	247.0	240.2	248.7	262.2	274.0	292.6	311.3	326.5	334.9	331.6	331.6
80°	143.8	143.8	152.2	167.5	182.7	199.6	213.1	225.0	233.4	230.1	223.3
82.5°	89.7	89.7	98.1	113.3	125.2	135.3	153.9	169.2	179.3	175.9	167.5
85°	45.7	45.7	55.8	66.0	81.2	88.0	86.3	79.5	77.8	69.4	69.4
87.5°	11.8	11.8	16.9	18.6	15.2	16.9	16.9	16.9	16.9	16.9	18.6
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)