

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: P527728

Luminaire Tested: **GALN-SA2D-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12791 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

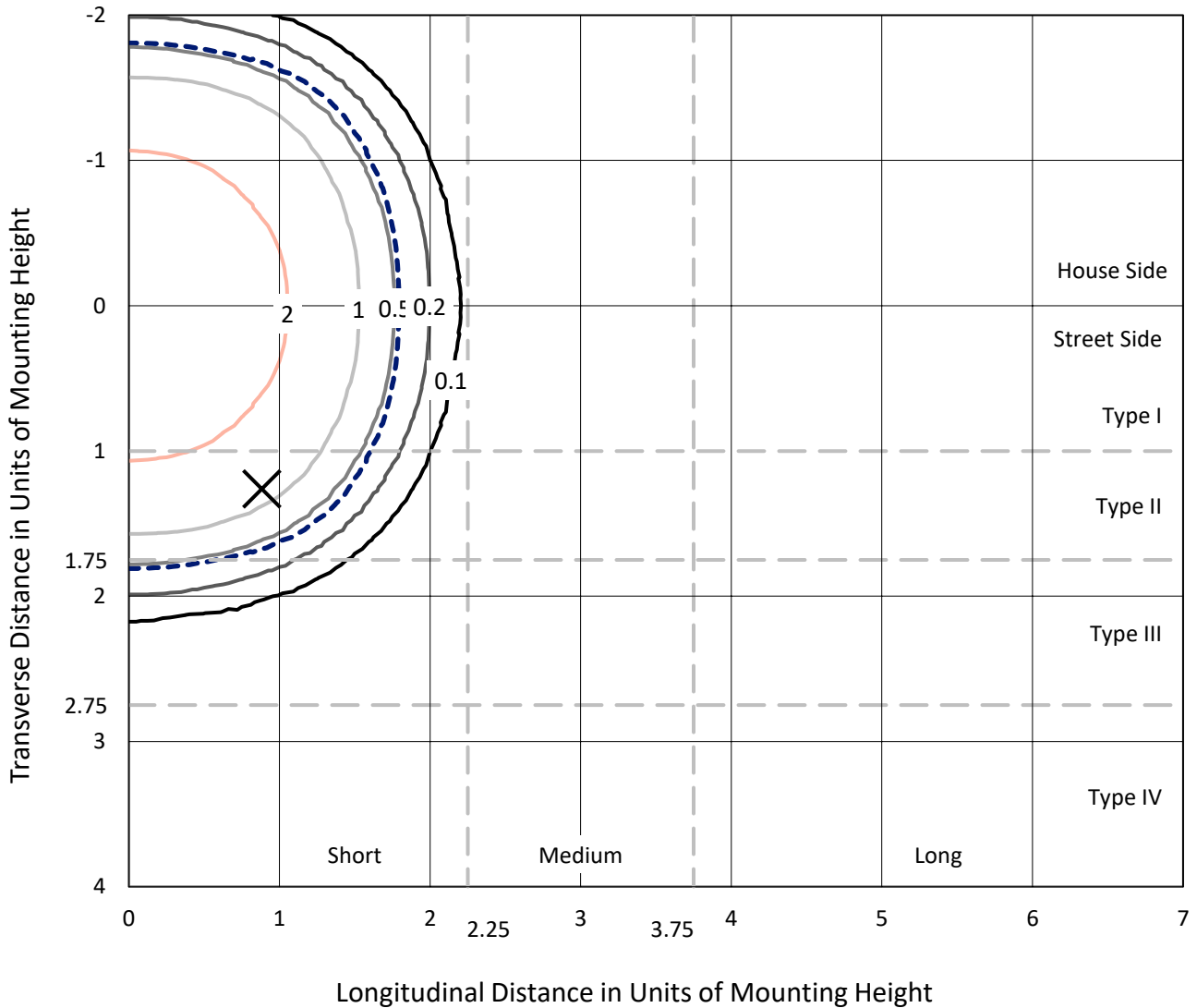
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

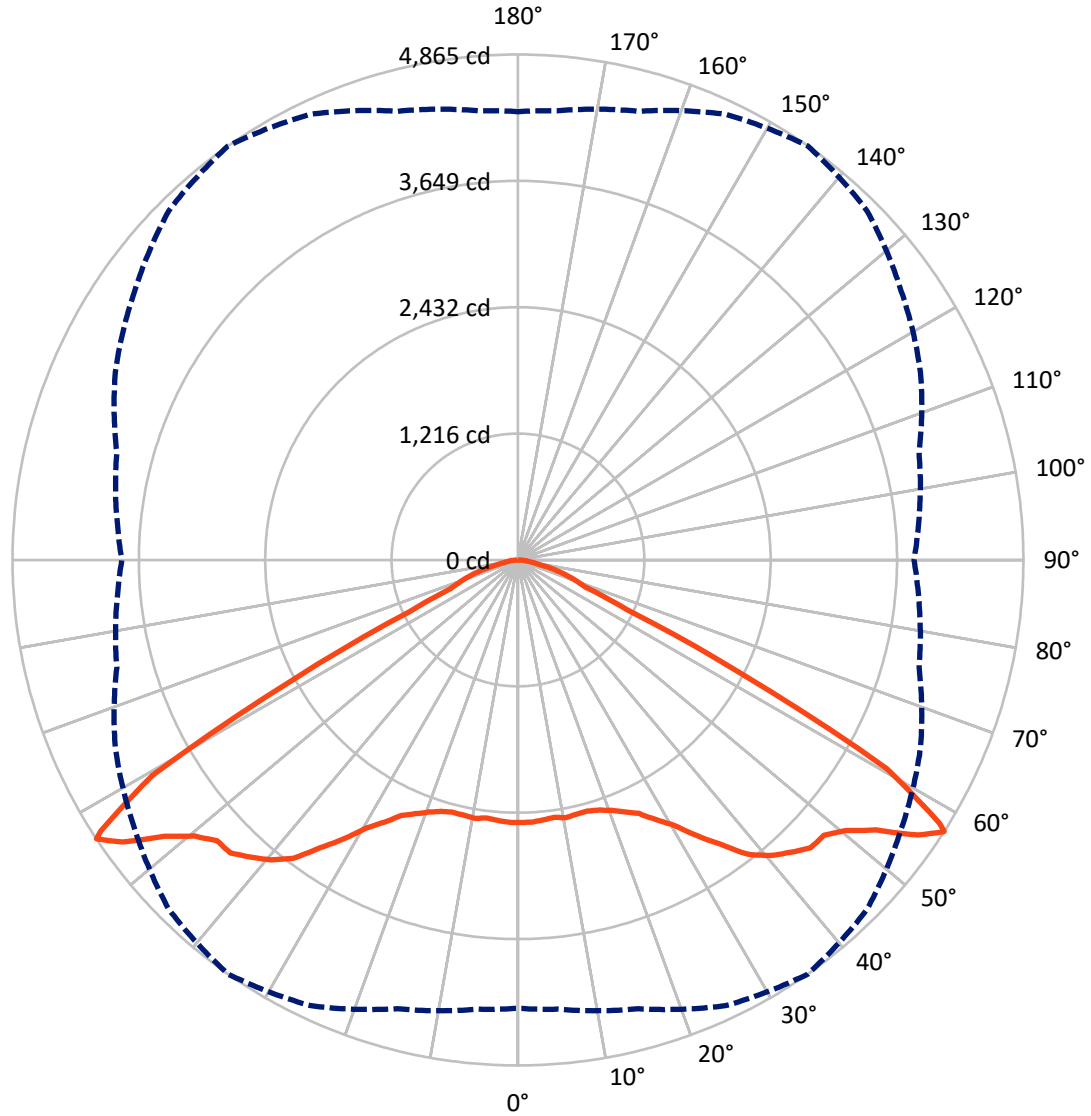
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6395.5	0.0	6395.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6395.5	0.0	6395.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12791.0	0.0	12791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.5	1.9
10°-20°	709.3	5.5
20°-30°	1238.8	9.7
30°-40°	2029.7	15.9
40°-50°	2976.1	23.3
50°-60°	3748.6	29.3
60°-70°	1409.8	11.0
70°-80°	374.9	2.9
80°-90°	64.3	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°	12791.0	100.0
0°-180°	12791.0	100.0

Coefficient of Utilization



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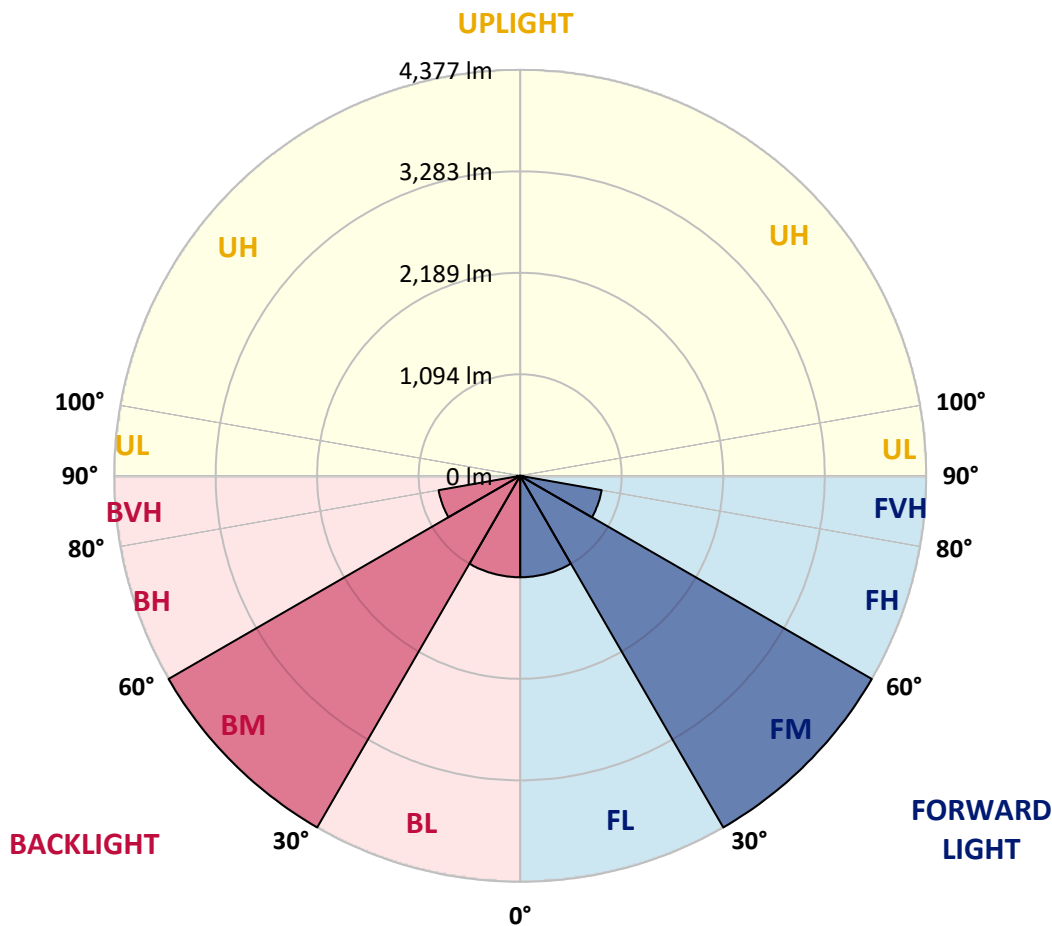
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1093.8	8.6			
FM (30°-60°)	4377.2	34.2			
FH (60°-80°)	892.3	7.0			G1/1800
FVH (80°-90°)	32.1	0.3			G1/100
BL (0°-30°)	1093.8	8.6	B3/2500		
BM (30°-60°)	4377.2	34.2	B3/5000		
BH (60°-80°)	892.3	7.0	B2/1000		G1/1800
BVH (80°-90°)	32.1	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°	2526.1	2526.1	2526.1	2526.1	2526.1	2526.1	2526.1	2526.1	2526.1	2526.1	2526.1
2.5°	2513.5	2538.7	2527.7	2521.4	2526.1	2518.2	2505.6	2519.8	2516.7	2504.1	2499.3
5°	2507.2	2526.1	2513.5	2526.1	2513.5	2535.6	2529.3	2505.6	2534.0	2507.2	2516.7
7.5°	2502.5	2508.8	2511.9	2505.6	2500.9	2527.7	2513.5	2502.5	2486.7	2482.0	2489.9
10°	2491.5	2507.2	2483.6	2515.1	2521.4	2502.5	2502.5	2482.0	2469.4	2461.5	2488.3
12.5°	2519.8	2493.0	2489.9	2505.6	2510.4	2518.2	2496.2	2485.2	2461.5	2464.7	2459.9
15°	2486.7	2497.8	2499.3	2502.5	2507.2	2526.1	2505.6	2482.0	2472.5	2439.5	2442.6
17.5°	2499.3	2488.3	2499.3	2535.6	2529.3	2543.5	2521.4	2485.2	2463.1	2444.2	2469.4
20°	2521.4	2516.7	2521.4	2565.5	2573.4	2586.0	2567.1	2534.0	2491.5	2469.4	2482.0
22.5°	2545.0	2541.9	2545.0	2587.6	2633.3	2649.0	2630.1	2552.9	2530.9	2489.9	2475.7
25°	2587.6	2590.7	2623.8	2671.1	2701.1	2731.0	2696.3	2641.2	2570.3	2545.0	2515.1
27.5°	2682.1	2690.0	2708.9	2778.3	2830.3	2857.1	2808.2	2732.6	2688.4	2636.4	2628.6
30°	2798.8	2798.8	2831.8	2891.7	2962.6	3003.6	2943.7	2853.9	2800.3	2772.0	2754.6
32.5°	2953.2	2935.9	2948.5	3054.0	3164.4	3199.0	3118.7	3008.3	2923.2	2885.4	2872.8
35°	3085.6	3096.6	3125.0	3238.4	3361.3	3441.7	3315.6	3172.2	3085.6	3050.9	3044.6
37.5°	3257.3	3276.2	3290.4	3446.4	3594.6	3624.5	3503.2	3388.1	3282.5	3254.2	3238.4
40°	3500.0	3487.4	3492.1	3607.2	3741.1	3760.0	3640.3	3558.3	3471.7	3454.3	3454.3
42.5°	3700.2	3686.0	3701.7	3744.3	3846.7	3832.5	3766.3	3706.5	3670.2	3651.3	3670.2
45°	3821.5	3818.3	3846.7	3878.2	3950.7	3903.4	3851.4	3860.9	3826.2	3794.7	3793.1
47.5°	3953.9	3933.4	3968.1	4015.3	3960.2	3938.1	3935.0	3955.4	3944.4	3889.3	3871.9
50°	4018.5	4010.6	4065.8	4120.9	4091.0	4040.5	4051.6	4084.7	3942.8	3868.8	3826.2
52.5°	4191.8	4193.4	4299.0	4328.9	4316.3	4242.3	4265.9	4176.1	4009.0	3905.0	3909.7
55°	4464.5	4453.4	4571.6	4659.9	4674.0	4579.5	4466.0	4340.0	4130.4	4024.8	3993.3
57°	4314.7	4340.0	4470.8	4732.4	4864.7	4752.8	4505.4	4275.3	3996.4	3868.8	3812.0
57.5°	4114.6	4155.6	4382.5	4645.7	4784.4	4774.9	4456.6	4155.6	3906.6	3708.0	3712.8
60°	3014.6	3022.5	3227.4	3645.0	4078.4	4087.8	3700.2	3301.5	3024.1	2808.2	2838.2
62.5°	1590.1	1626.3	1708.2	2043.9	2419.0	2510.4	2275.6	2070.7	1831.2	1667.3	1683.0
65°	841.5	836.8	876.2	970.7	1155.1	1202.4	1170.9	1008.6	925.0	898.2	899.8
67.5°	683.9	691.8	687.1	691.8	704.4	724.9	720.2	726.5	731.2	739.1	737.5
70°	579.9	579.9	583.1	584.6	584.6	594.1	605.1	625.6	627.2	635.1	638.2
72.5°	457.0	453.9	458.6	469.6	471.2	479.1	494.8	507.4	512.2	512.2	502.7
75°	310.4	313.6	319.9	329.4	338.8	353.0	365.6	373.5	376.6	371.9	367.2
77.5°	174.9	178.1	182.8	197.0	208.0	220.6	234.8	242.7	250.6	252.1	242.7
80°	104.0	104.0	111.9	122.9	135.5	148.1	160.7	170.2	173.3	173.3	168.6
82.5°	63.0	64.6	70.9	81.9	93.0	100.9	111.9	119.8	126.1	124.5	121.3
85°	33.1	33.1	39.4	48.9	56.7	64.6	64.6	59.9	56.7	48.9	45.7
87.5°	11.0	9.5	12.6	12.6	11.0	12.6	12.6	14.2	14.2	14.2	14.2
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)