

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: P453815

Luminaire Tested: **GALN-SA4D-827-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4D-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23595 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: B5 - U0 - G3

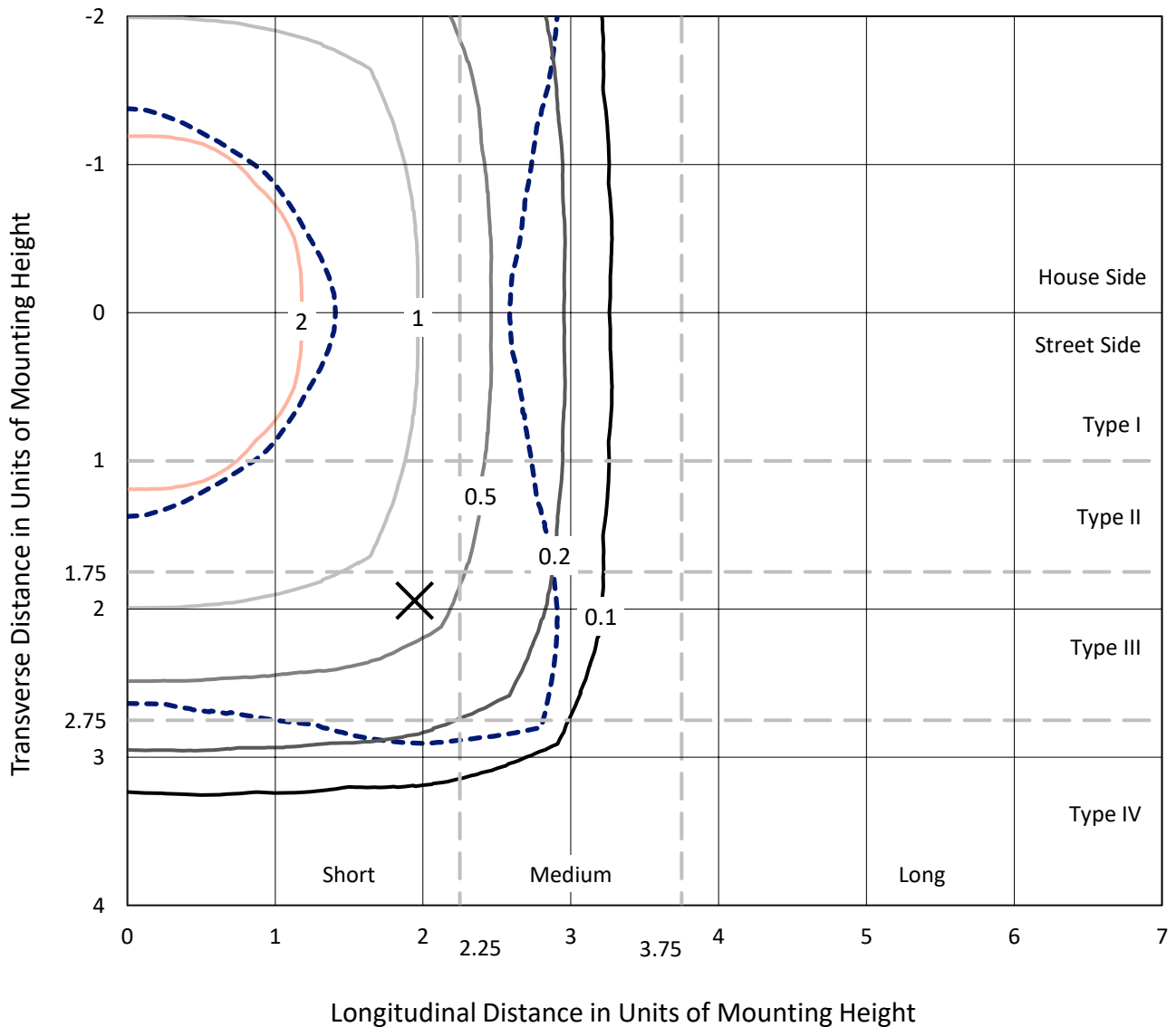
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

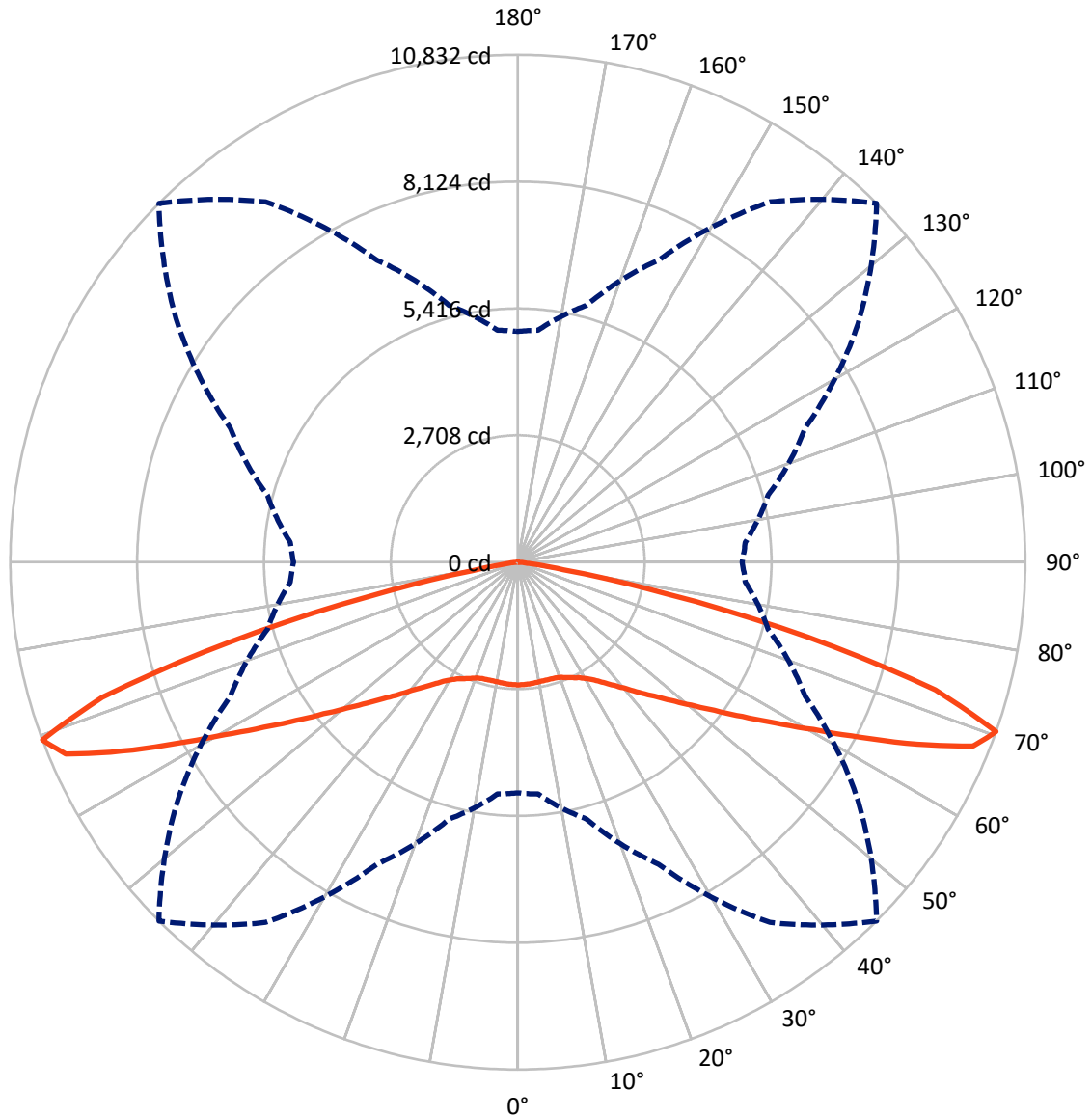
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11797.5	0.0	11797.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11797.5	0.0	11797.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23595.0	0.0	23595.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.5	1.1
10°-20°	729.1	3.1
20°-30°	1247.0	5.3
30°-40°	1979.2	8.4
40°-50°	3193.0	13.5
50°-60°	5195.1	22.0
60°-70°	7531.0	31.9
70°-80°	3340.5	14.2
80°-90°	131.8	0.6
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°	23595.0	100.0
0°-180°	23595.0	100.0

**Coefficient of Utilization**



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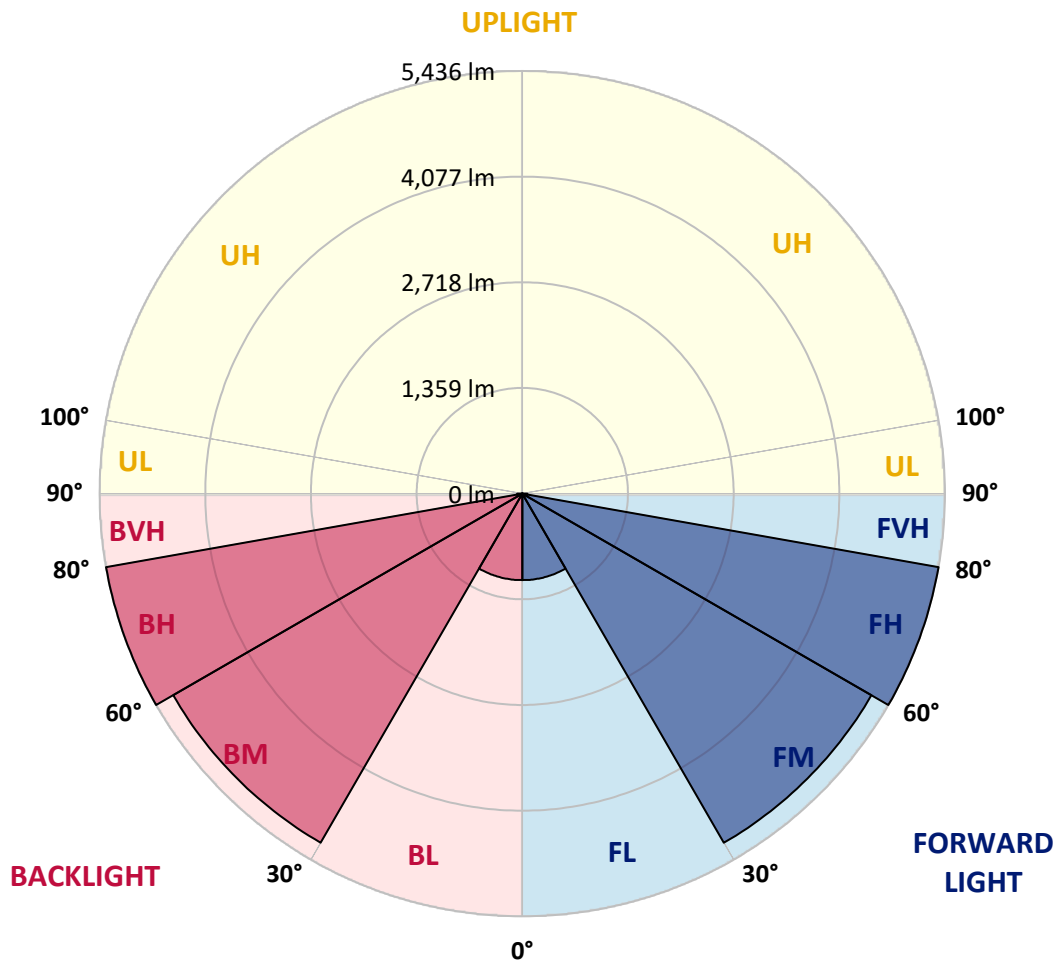
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1112.3	4.7			
FM (30°-60°)	5183.6	22.0			
FH (60°-80°)	5435.7	23.0			G3/7500
FVH (80°-90°)	65.9	0.3			G1/100
BL (0°-30°)	1112.3	4.7	B3/2500		
BM (30°-60°)	5183.6	22.0	B4/8500		
BH (60°-80°)	5435.7	23.0	B5		G3/7500
BVH (80°-90°)	65.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1
2.5°	2620.1	2622.6	2618.9	2616.4	2615.1	2615.1	2613.9	2615.1	2622.6	2623.8	2620.1
5°	2612.7	2615.1	2613.9	2611.4	2610.2	2610.2	2608.9	2607.7	2613.9	2616.4	2615.1
7.5°	2602.7	2603.9	2602.7	2601.5	2602.7	2601.5	2597.7	2595.2	2600.2	2600.2	2599.0
10°	2585.3	2587.8	2586.5	2587.8	2590.3	2590.3	2585.3	2580.3	2581.6	2579.1	2579.1
12.5°	2564.2	2567.9	2569.1	2574.1	2580.3	2587.8	2576.6	2565.4	2562.9	2561.7	2560.4
15°	2550.5	2554.2	2559.2	2564.2	2575.3	2591.5	2575.3	2557.9	2553.0	2548.0	2545.5
17.5°	2546.7	2551.7	2559.2	2566.6	2581.6	2597.7	2584.1	2566.6	2554.2	2546.7	2544.3
20°	2556.7	2560.4	2571.6	2585.3	2606.4	2622.6	2608.9	2590.3	2571.6	2560.4	2556.7
22.5°	2576.6	2582.8	2596.5	2621.4	2651.2	2674.8	2656.2	2625.1	2595.2	2580.3	2575.3
25°	2620.1	2625.1	2641.3	2674.8	2709.6	2732.0	2712.1	2676.1	2635.0	2615.1	2608.9
27.5°	2686.0	2693.5	2710.9	2750.7	2779.3	2791.7	2778.0	2753.2	2723.3	2702.2	2697.2
30°	2779.3	2788.0	2814.1	2856.4	2875.0	2882.5	2876.3	2860.1	2839.0	2816.6	2811.6
32.5°	2904.9	2909.9	2939.7	2979.5	2996.9	2999.4	2991.9	2984.5	2949.6	2912.3	2909.9
35°	3045.4	3054.1	3090.2	3137.4	3153.6	3154.8	3139.9	3128.7	3087.7	3057.8	3057.8
37.5°	3231.9	3235.7	3270.5	3324.0	3341.4	3336.4	3328.9	3319.0	3275.5	3236.9	3238.1
40°	3450.8	3458.3	3488.1	3550.3	3550.3	3544.1	3549.0	3541.6	3498.0	3460.7	3462.0
42.5°	3710.7	3714.4	3750.5	3816.4	3811.4	3799.0	3804.0	3794.0	3766.6	3724.4	3709.4
45°	3988.0	4002.9	4065.1	4128.5	4118.6	4078.8	4098.7	4096.2	4071.3	4007.9	4011.6
47.5°	4322.5	4347.4	4407.1	4482.9	4471.7	4409.6	4431.9	4446.9	4412.0	4342.4	4330.0
50°	4699.3	4715.5	4803.7	4874.6	4864.7	4798.8	4849.8	4852.2	4765.2	4667.0	4667.0
52.5°	5101.0	5117.1	5236.5	5347.2	5353.4	5257.6	5298.7	5296.2	5154.4	5025.1	5000.2
55°	5551.1	5558.6	5712.8	5875.7	5910.5	5817.2	5822.2	5772.5	5588.4	5437.9	5424.3
57.5°	6016.2	6043.5	6213.9	6425.3	6528.5	6471.3	6445.2	6312.1	6134.3	5961.5	5952.8
60°	6531.0	6532.3	6753.6	7003.5	7212.5	7251.0	7144.1	6966.2	6736.2	6507.4	6497.4
62.5°	6887.9	6941.4	7221.2	7644.0	8018.3	8234.6	7952.4	7579.3	7126.7	6757.3	6720.0
65°	6961.3	6997.3	7423.9	8140.1	8904.9	9371.2	8718.4	7925.0	7152.8	6660.3	6635.5
67.5°	6368.1	6406.7	6981.2	8080.4	9526.7	10482.9	9215.8	7758.4	6710.1	6100.7	6052.3
70°	4925.6	4969.1	5679.2	7113.0	9388.6	10832.4	8861.4	6767.3	5533.7	4875.9	4787.6
72.5°	2618.9	2779.3	3386.1	4882.1	7620.3	9326.5	7265.9	4938.0	3568.9	2917.3	2800.4
75°	956.3	976.2	1314.4	2165.0	4433.2	6395.5	4603.5	2355.2	1354.2	1045.8	992.3
77.5°	395.4	394.2	432.7	654.1	1610.4	3275.5	1796.9	691.4	431.5	399.2	394.2
80°	233.8	233.8	257.4	272.3	424.0	988.6	473.8	308.4	258.7	236.3	240.0
82.5°	104.5	110.7	162.9	171.6	205.2	271.1	228.8	196.5	169.1	116.9	105.7
85°	57.2	49.7	85.8	89.5	98.2	100.7	108.2	106.9	98.2	57.2	58.4
87.5°	11.2	13.7	24.9	18.7	21.1	18.7	24.9	34.8	36.1	19.9	16.2
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)