

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: P529547

Luminaire Tested: **GALN-SA4D-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-727-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15360 lumens  
Efficiency: N/A  
Efficacy: 62.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

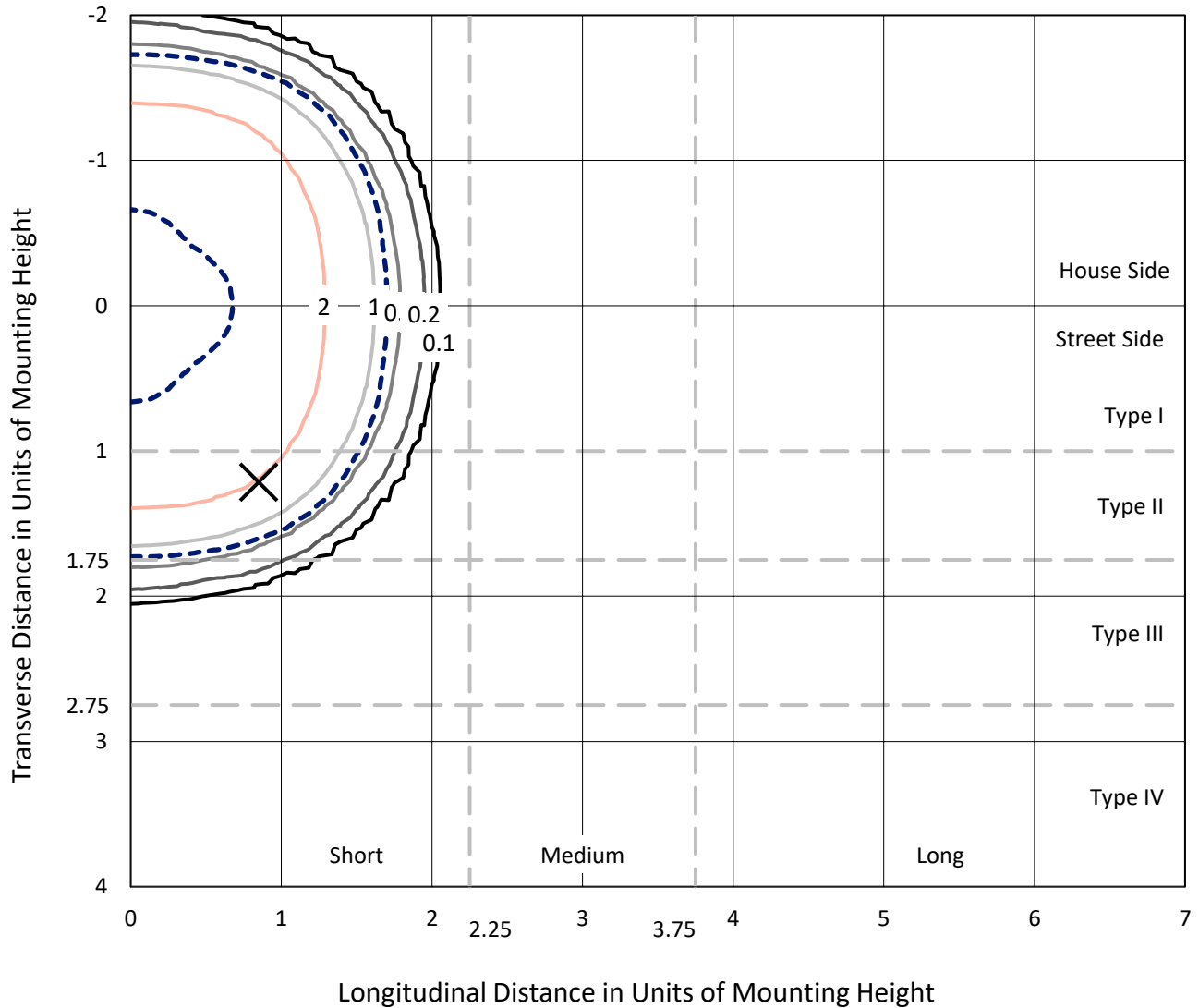
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

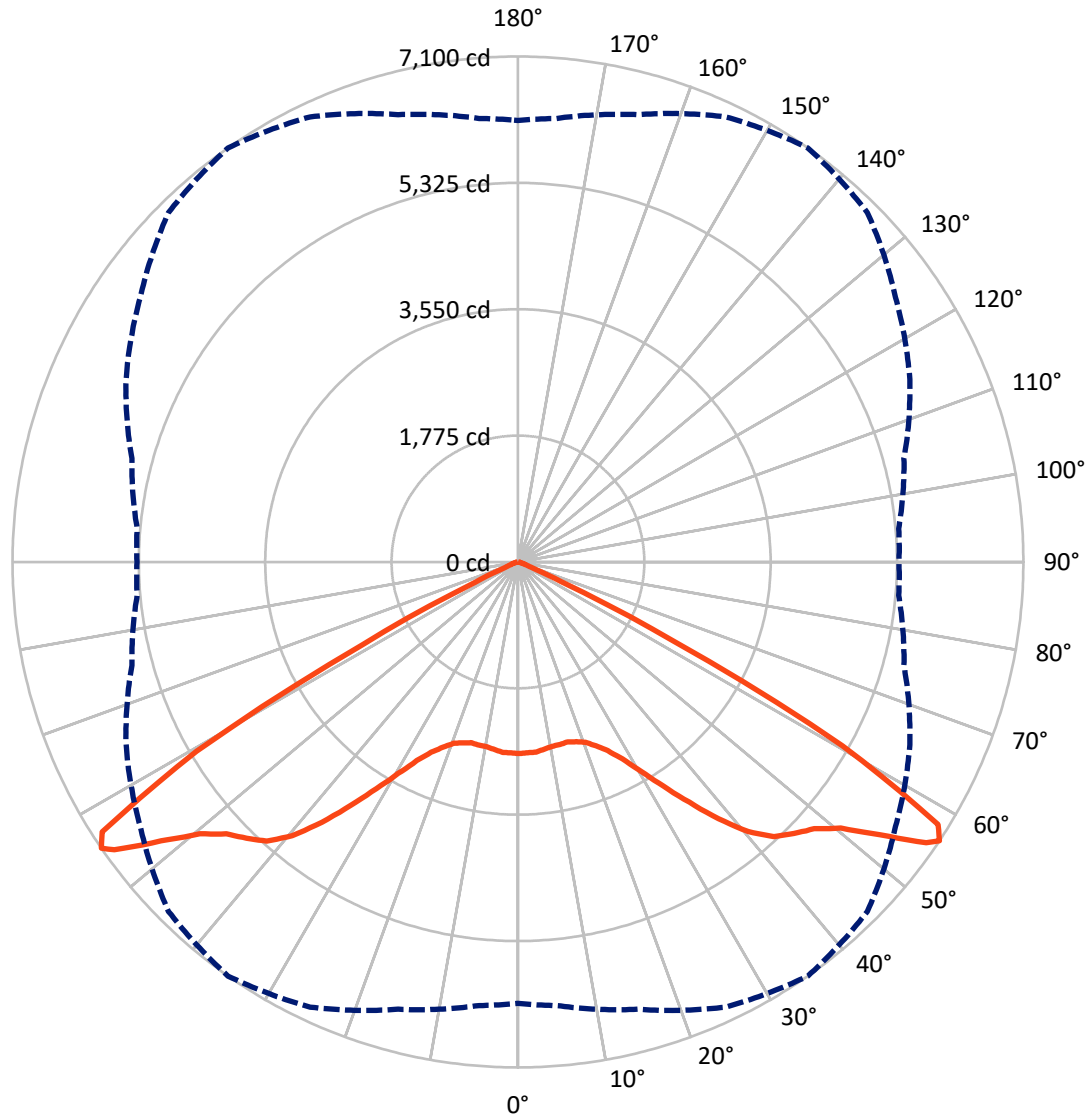
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7680.0	0.0	7680.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7680.0	0.0	7680.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15360.0	0.0	15360.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.0	1.6
10°-20°	738.5	4.8
20°-30°	1337.3	8.7
30°-40°	2479.8	16.1
40°-50°	4070.5	26.5
50°-60°	5244.0	34.1
60°-70°	1155.7	7.5
70°-80°	67.0	0.4
80°-90°	14.1	0.1
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°	15360.0	100.0
0°-180°	15360.0	100.0

**Coefficient of Utilization**



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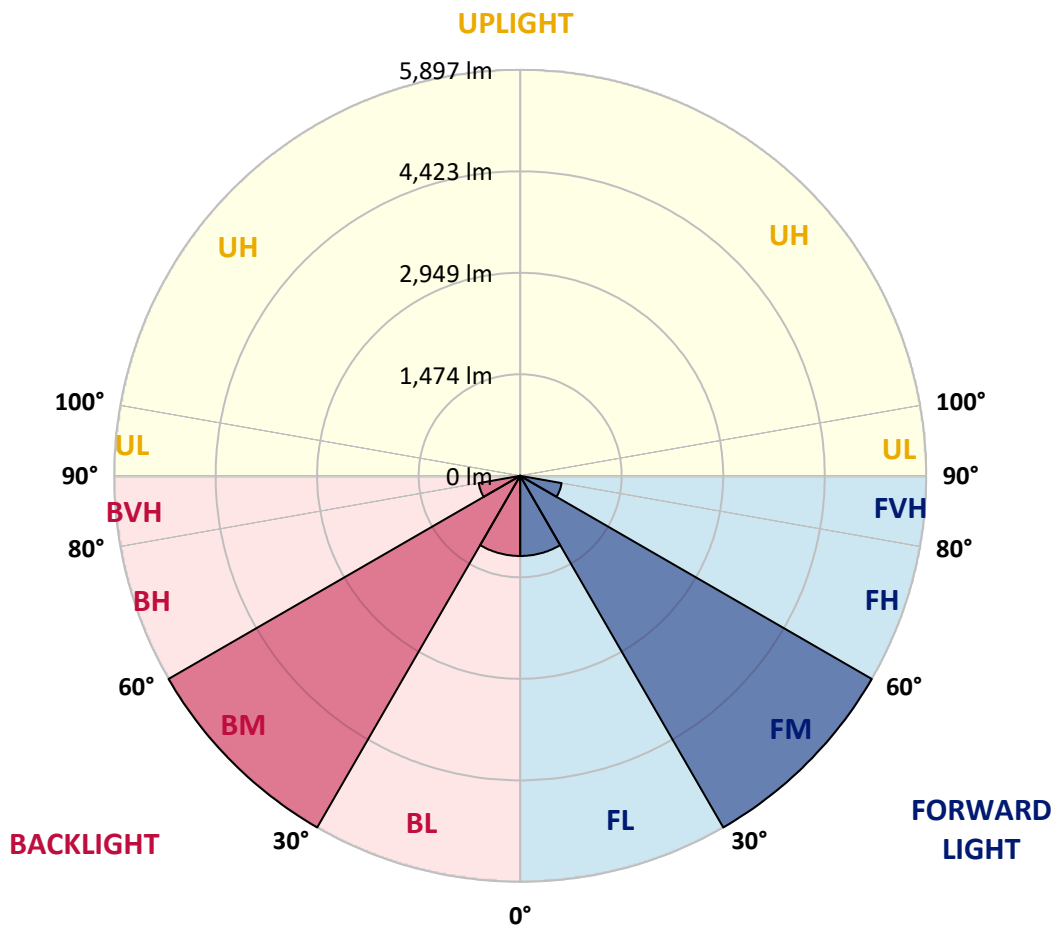
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.4	7.6			
FM (30°-60°)	5897.2	38.4			
FH (60°-80°)	611.4	4.0			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	1164.4	7.6	B3/2500		
BM (30°-60°)	5897.2	38.4	B4/8500		
BH (60°-80°)	611.4	4.0	B2/1000		G0/660
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4
2.5°	2697.0	2697.0	2699.8	2702.5	2683.1	2674.7	2677.5	2671.9	2669.1	2677.5	2677.5
5°	2688.6	2688.6	2680.3	2683.1	2683.1	2658.0	2658.0	2663.6	2663.6	2646.9	2641.3
7.5°	2666.4	2660.8	2649.7	2663.6	2655.2	2655.2	2635.7	2621.8	2616.3	2627.4	2616.3
10°	2619.0	2621.8	2633.0	2638.5	2633.0	2649.7	2616.3	2596.8	2577.3	2568.9	2568.9
12.5°	2596.8	2613.5	2596.8	2610.7	2630.2	2616.3	2596.8	2582.9	2555.0	2543.9	2543.9
15°	2594.0	2605.1	2610.7	2630.2	2621.8	2627.4	2588.4	2571.7	2530.0	2510.5	2502.1
17.5°	2591.2	2605.1	2613.5	2649.7	2655.2	2658.0	2627.4	2577.3	2541.1	2521.6	2502.1
20°	2621.8	2627.4	2644.1	2680.3	2702.5	2741.5	2685.8	2633.0	2555.0	2532.8	2524.4
22.5°	2660.8	2688.6	2705.3	2744.3	2802.7	2836.1	2763.8	2697.0	2616.3	2588.4	2555.0
25°	2786.0	2780.5	2808.3	2889.0	2936.3	2961.4	2902.9	2805.5	2699.8	2666.4	2671.9
27.5°	2941.9	2947.5	2972.5	3061.6	3131.2	3170.1	3100.5	2972.5	2869.5	2813.9	2808.3
30°	3145.1	3139.5	3167.3	3287.0	3412.3	3470.7	3348.2	3198.0	3097.8	3025.4	3042.1
32.5°	3359.4	3362.2	3440.1	3548.6	3751.8	3865.9	3668.3	3484.6	3334.3	3284.2	3259.2
35°	3676.7	3690.6	3751.8	3918.8	4144.3	4291.8	4074.7	3854.8	3682.2	3590.4	3601.5
37.5°	4069.1	4055.2	4158.2	4339.1	4575.7	4684.2	4500.5	4250.0	4074.7	4013.4	4052.4
40°	4486.6	4500.5	4553.4	4717.6	4982.0	5054.4	4781.6	4645.2	4492.2	4461.5	4508.9
42.5°	4904.1	4895.7	4934.7	5082.2	5274.3	5224.2	5062.7	4982.0	4873.5	4812.2	4876.3
45°	5210.2	5196.3	5268.7	5368.9	5438.5	5343.8	5271.5	5243.6	5188.0	5121.2	5179.6
47.5°	5508.1	5496.9	5566.5	5594.3	5599.9	5474.7	5488.6	5538.7	5399.5	5260.3	5327.1
50°	5761.3	5741.8	5828.1	5889.4	5875.4	5675.0	5725.1	5675.0	5458.0	5293.7	5268.7
52.5°	6184.4	6192.7	6284.6	6395.9	6362.5	6195.5	6123.1	5894.9	5616.6	5469.1	5382.8
55°	6451.6	6409.8	6568.5	6921.9	6960.9	6788.3	6468.3	6131.5	5714.0	5533.1	5510.8
56°	6201.1	6254.0	6504.5	6899.7	7100.1	6941.4	6476.6	6073.1	5613.8	5368.9	5352.2
57.5°	5563.7	5535.9	5875.4	6415.4	6960.9	6894.1	6248.4	5655.6	5121.2	4845.6	4812.2
60°	3462.4	3543.1	3840.9	4508.9	5238.1	5271.5	4631.3	4122.0	3498.5	3253.6	3312.1
62.5°	1355.4	1285.9	1472.3	1970.5	2471.5	2582.9	2340.7	1945.5	1597.6	1355.4	1338.7
65°	314.5	306.2	345.1	475.9	665.2	771.0	732.0	526.0	386.9	367.4	339.6
67.5°	178.1	178.1	169.8	169.8	186.5	197.6	189.3	186.5	194.8	203.2	200.4
70°	125.2	122.5	116.9	119.7	114.1	114.1	122.5	136.4	147.5	147.5	150.3
72.5°	75.1	75.1	75.1	83.5	83.5	83.5	91.8	103.0	105.8	103.0	100.2
75°	33.4	33.4	39.0	47.3	52.9	55.7	64.0	69.6	75.1	69.6	64.0
77.5°	8.3	8.3	13.9	19.5	25.0	30.6	41.7	50.1	52.9	50.1	41.7
80°	2.8	2.8	5.6	13.9	25.0	30.6	41.7	44.5	47.3	41.7	33.4
82.5°	2.8	2.8	5.6	13.9	19.5	25.0	33.4	39.0	41.7	36.2	33.4
85°	0.0	2.8	5.6	11.1	16.7	22.3	22.3	16.7	13.9	8.3	11.1
87.5°	0.0	0.0	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)