

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: P651323

Luminaire Tested: **GALN-SA4D-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651323  
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-840-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 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: 15445.8 lumens  
Efficiency: N/A  
Efficacy: 63.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

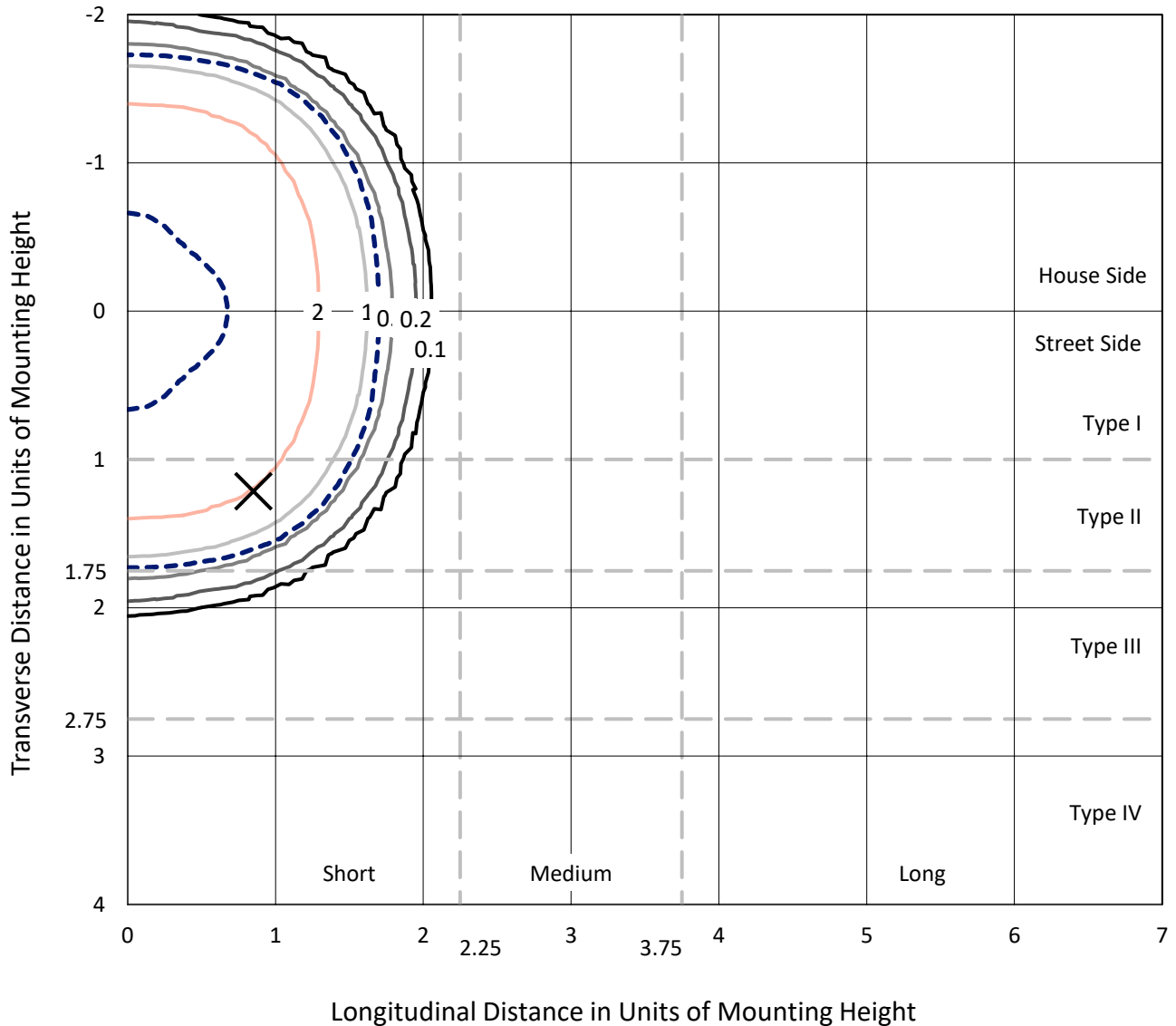
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

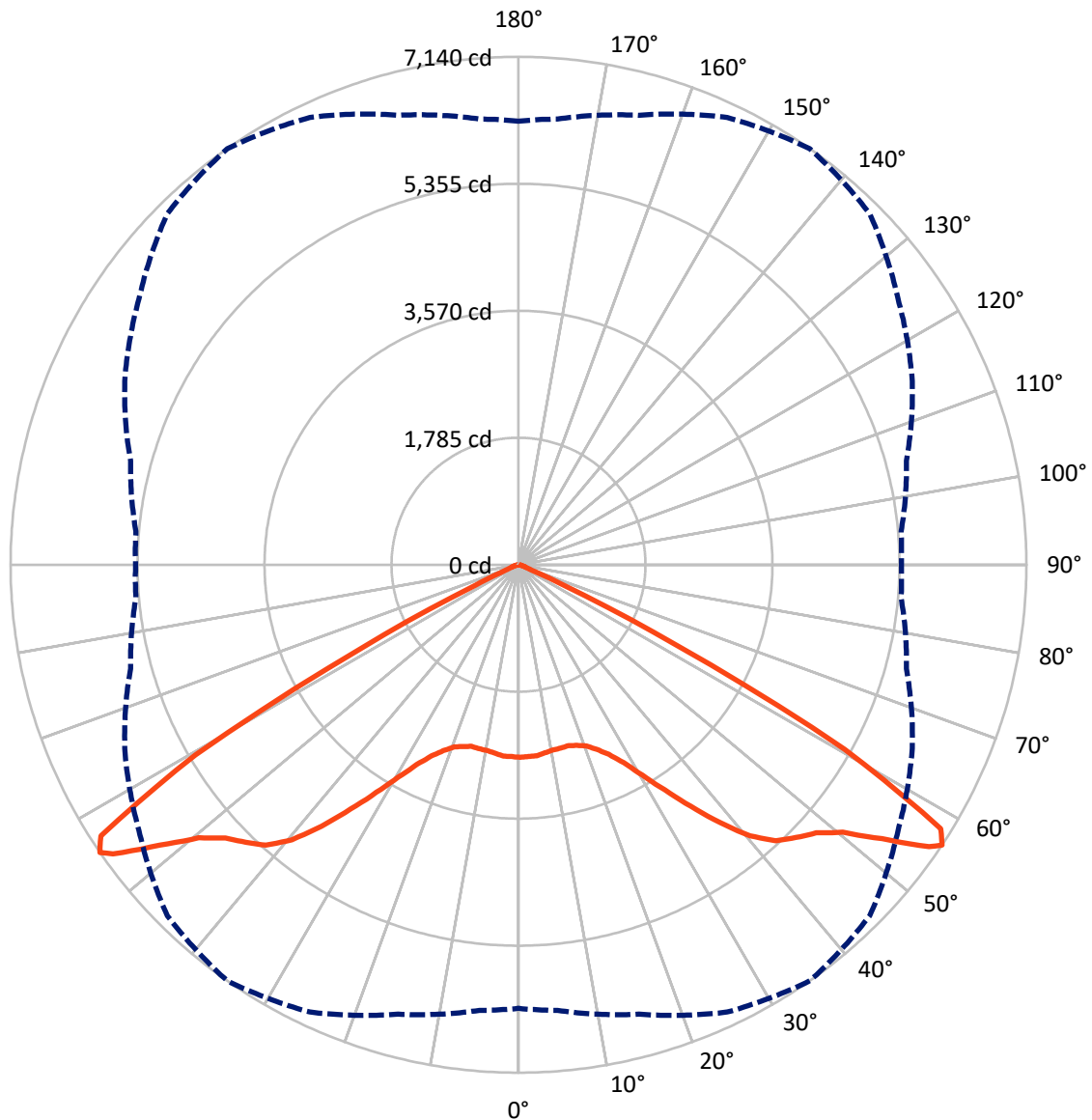
× Max cd  
 - - - 1/2 Max cd



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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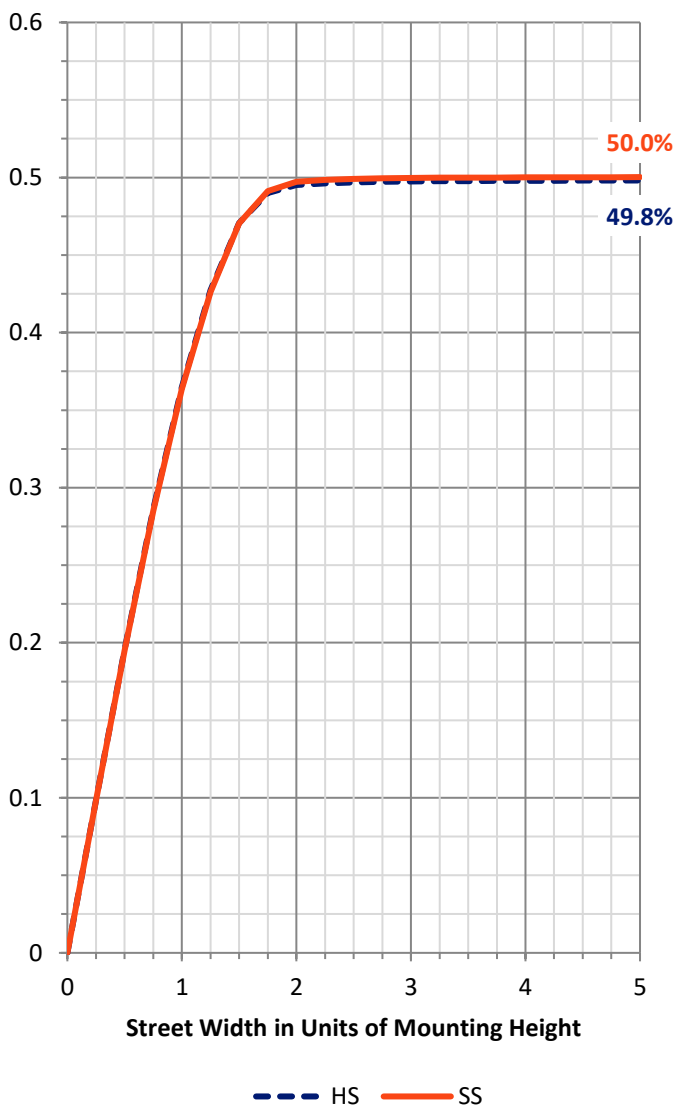
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7722.9	0.0	7722.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7722.9	0.0	7722.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15445.8	0.0	15445.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.4	1.6
10°-20°	742.6	4.8
20°-30°	1344.8	8.7
30°-40°	2493.7	16.1
40°-50°	4093.2	26.5
50°-60°	5273.3	34.1
60°-70°	1162.2	7.5
70°-80°	67.4	0.4
80°-90°	14.2	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°	15445.8	100.0
0°-180°	15445.8	100.0

**Coefficient of Utilization**

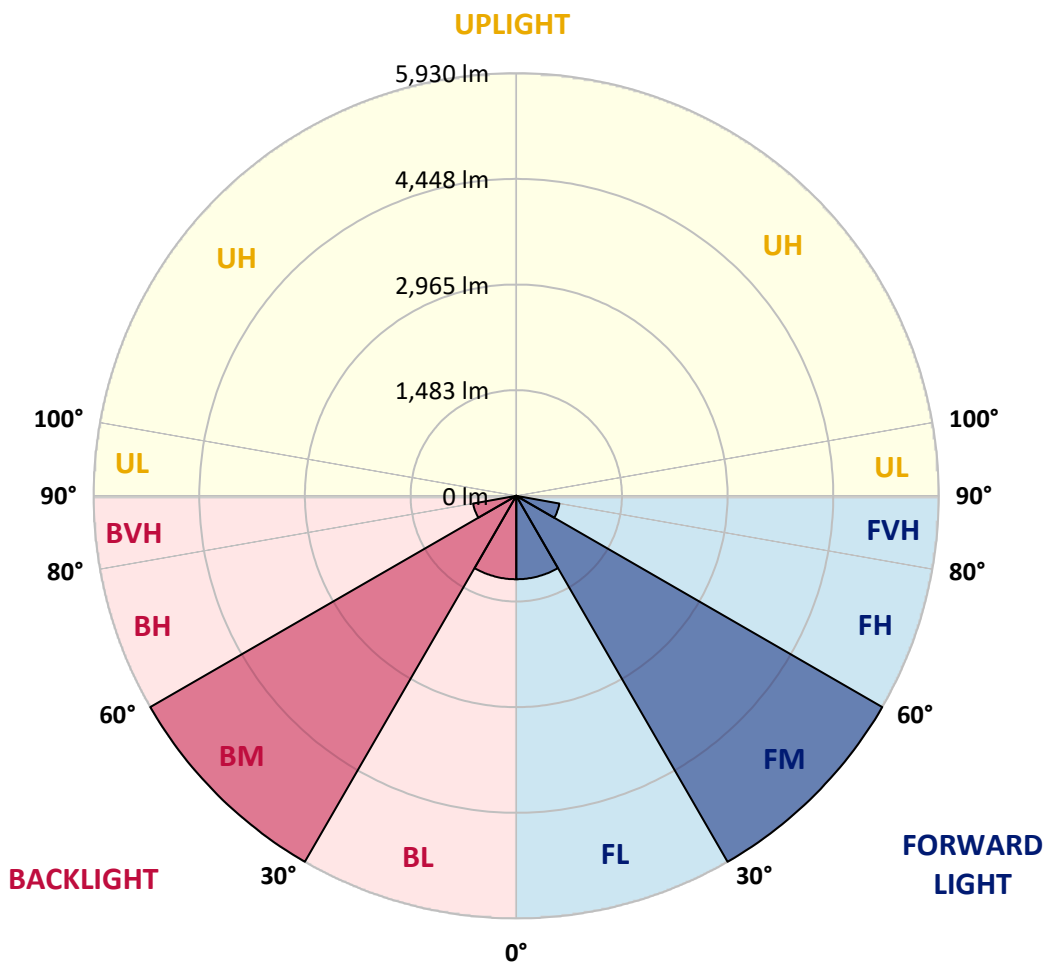


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.9	7.6			
FM (30°-60°)	5930.1	38.4			
FH (60°-80°)	614.8	4.0			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	1170.9	7.6	B3/2500		
BM (30°-60°)	5930.1	38.4	B4/8500		
BH (60°-80°)	614.8	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°	2706.4	2706.4	2706.4	2706.4	2706.4	2706.4	2706.4	2706.4	2706.4	2706.4	2706.4
2.5°	2712.1	2712.1	2714.8	2717.6	2698.0	2689.7	2692.5	2686.8	2684.1	2692.5	2692.5
5°	2703.6	2703.6	2695.2	2698.0	2698.0	2672.9	2672.9	2678.4	2678.4	2661.7	2656.0
7.5°	2681.3	2675.6	2664.5	2678.4	2670.1	2670.1	2650.5	2636.5	2630.9	2642.1	2630.9
10°	2633.7	2636.5	2647.6	2653.3	2647.6	2664.5	2630.9	2611.3	2591.7	2583.3	2583.3
12.5°	2611.3	2628.0	2611.3	2625.3	2644.9	2630.9	2611.3	2597.3	2569.3	2558.1	2558.1
15°	2608.4	2619.7	2625.3	2644.9	2636.5	2642.1	2602.9	2586.1	2544.1	2524.5	2516.1
17.5°	2605.7	2619.7	2628.0	2664.5	2670.1	2672.9	2642.1	2591.7	2555.3	2535.7	2516.1
20°	2636.5	2642.1	2658.8	2695.2	2717.6	2756.8	2700.9	2647.6	2569.3	2546.9	2538.5
22.5°	2675.6	2703.6	2720.5	2759.6	2818.4	2852.0	2779.2	2712.1	2630.9	2602.9	2569.3
25°	2801.6	2796.0	2824.0	2905.2	2952.8	2977.9	2919.1	2821.2	2714.8	2681.3	2686.8
27.5°	2958.3	2963.9	2989.1	3078.6	3148.6	3187.8	3117.8	2989.1	2885.6	2829.5	2824.0
30°	3162.7	3157.0	3185.0	3305.4	3431.4	3490.1	3366.9	3215.8	3115.1	3042.3	3059.1
32.5°	3378.1	3381.0	3459.3	3568.4	3772.8	3887.5	3688.8	3504.1	3353.0	3302.6	3277.4
35°	3697.2	3711.2	3772.8	3940.7	4167.4	4315.8	4097.4	3876.3	3702.8	3610.4	3621.7
37.5°	4091.8	4077.8	4181.4	4363.4	4601.2	4710.4	4525.7	4273.8	4097.4	4035.9	4075.1
40°	4511.6	4525.7	4578.8	4744.0	5009.8	5082.6	4808.3	4671.2	4517.3	4486.5	4534.1
42.5°	4931.5	4923.0	4962.2	5110.6	5303.7	5253.3	5091.0	5009.8	4900.7	4839.1	4903.5
45°	5239.3	5225.4	5298.1	5398.9	5468.9	5373.7	5300.9	5272.9	5217.0	5149.8	5208.6
47.5°	5538.8	5527.6	5597.6	5625.6	5631.2	5505.3	5519.2	5569.6	5429.7	5289.7	5356.9
50°	5793.5	5773.9	5860.7	5922.2	5908.3	5706.8	5757.1	5706.8	5488.5	5323.3	5298.1
52.5°	6218.9	6227.4	6319.7	6431.6	6398.1	6230.1	6157.4	5927.9	5648.0	5499.6	5412.8
55°	6487.6	6445.6	6605.1	6960.6	6999.8	6826.2	6504.4	6165.8	5746.0	5564.0	5541.6
56°	6235.8	6288.9	6540.8	6938.2	7139.8	6980.2	6512.8	6107.0	5645.2	5398.9	5382.1
57.5°	5594.8	5566.8	5908.3	6451.2	6999.8	6932.6	6283.3	5687.2	5149.8	4872.7	4839.1
60°	3481.7	3562.9	3862.4	4534.1	5267.4	5300.9	4657.2	4145.0	3518.1	3271.8	3330.5
62.5°	1363.0	1293.0	1480.6	1981.6	2485.3	2597.3	2353.8	1956.3	1606.5	1363.0	1346.2
65°	316.3	307.9	347.1	478.6	668.9	775.2	736.0	529.0	389.0	369.5	341.4
67.5°	179.1	179.1	170.7	170.7	187.5	198.7	190.3	187.5	196.0	204.3	201.5
70°	126.0	123.1	117.6	120.3	114.7	114.7	123.1	137.2	148.4	148.4	151.1
72.5°	75.6	75.6	75.6	83.9	83.9	83.9	92.3	103.5	106.4	103.5	100.8
75°	33.6	33.6	39.2	47.6	53.2	56.0	64.3	70.0	75.6	70.0	64.3
77.5°	8.4	8.4	14.0	19.6	25.2	30.8	42.0	50.4	53.2	50.4	42.0
80°	2.8	2.8	5.6	14.0	25.2	30.8	42.0	44.7	47.6	42.0	33.6
82.5°	2.8	2.8	5.6	14.0	19.6	25.2	33.6	39.2	42.0	36.4	33.6
85°	0.0	2.8	5.6	11.2	16.8	22.4	22.4	16.8	14.0	8.4	11.2
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)