

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: P529315

Luminaire Tested: **GALN-SA4C-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-727-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15978 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

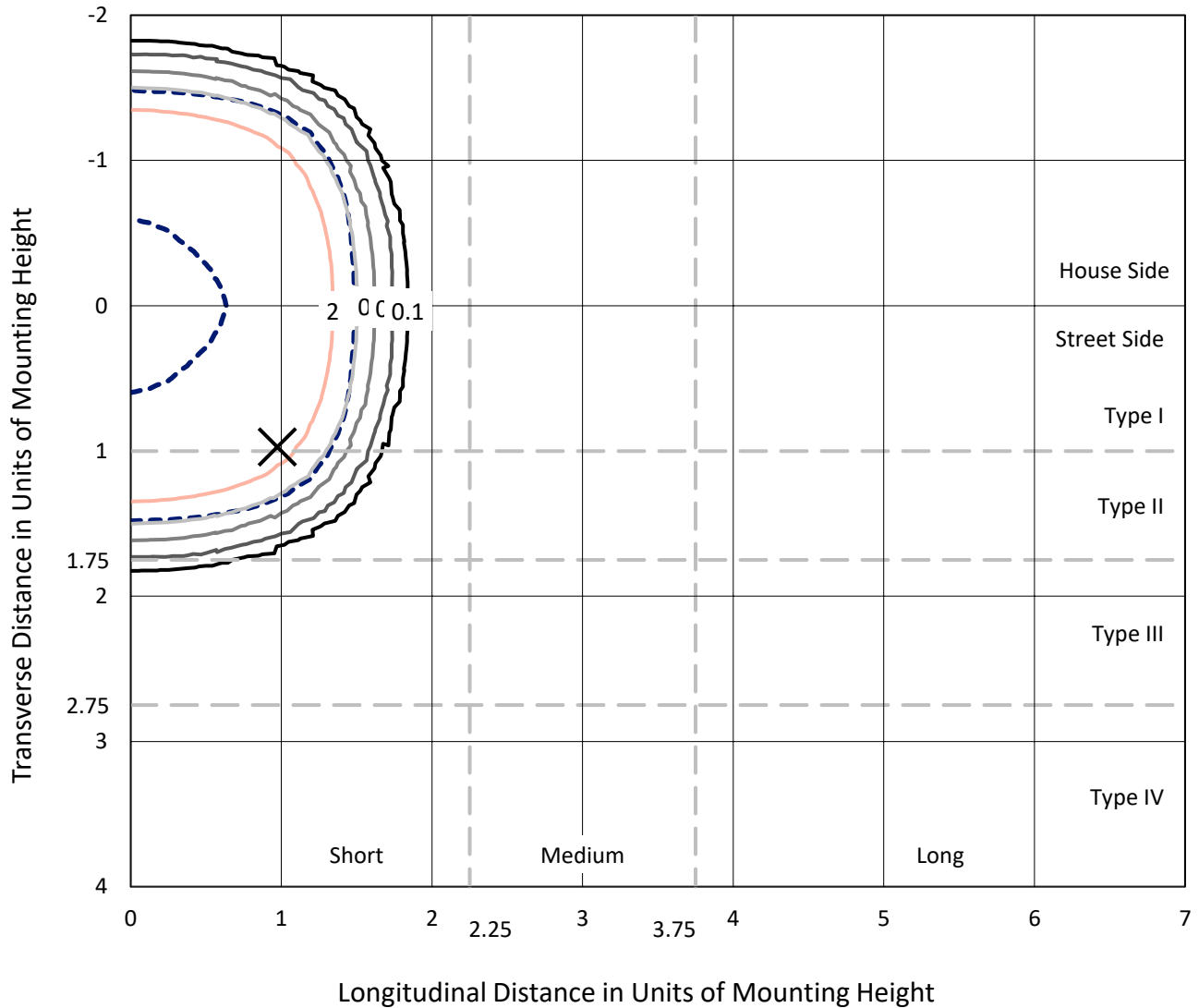
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

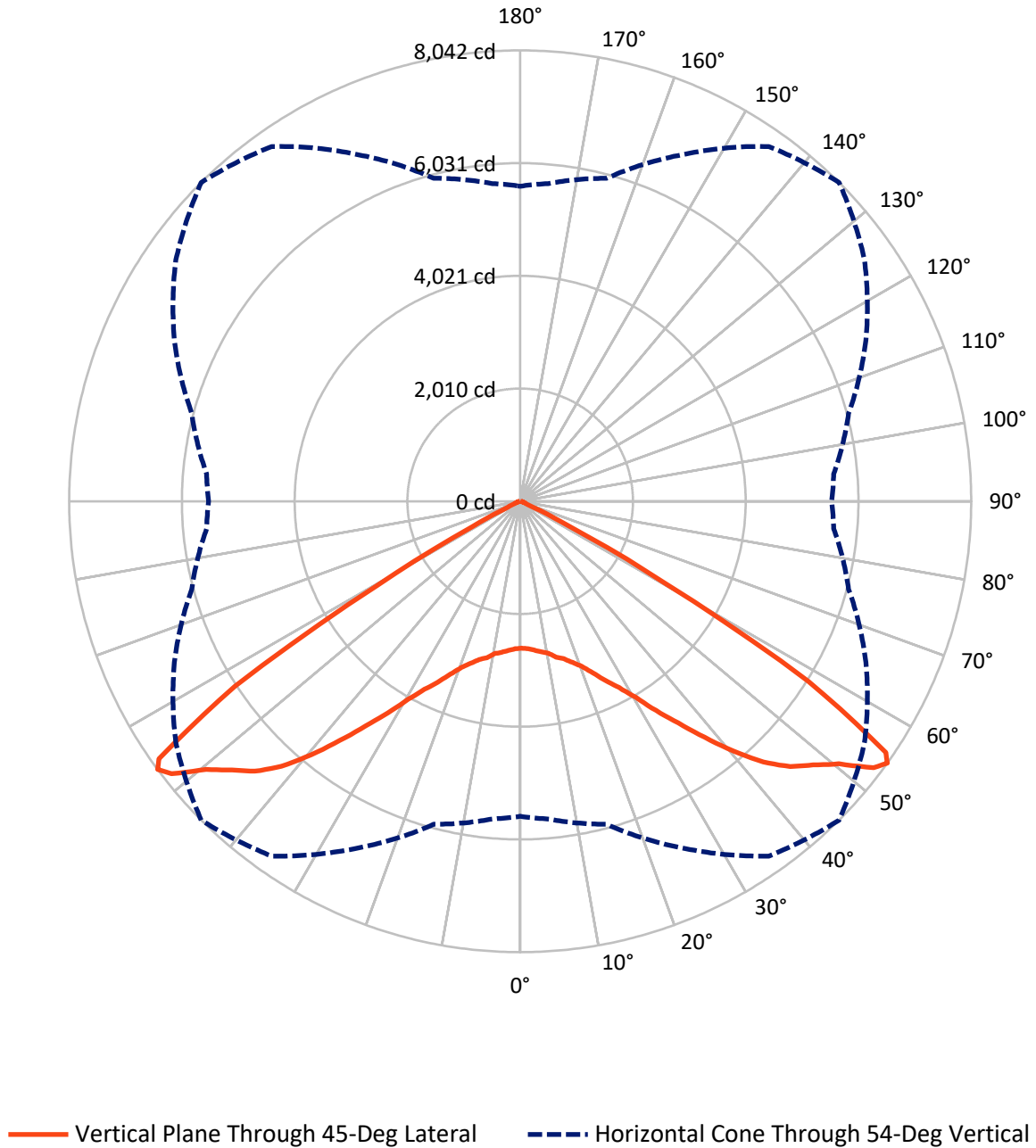
✕ Max cd  
 - - - 1/2 Max cd



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



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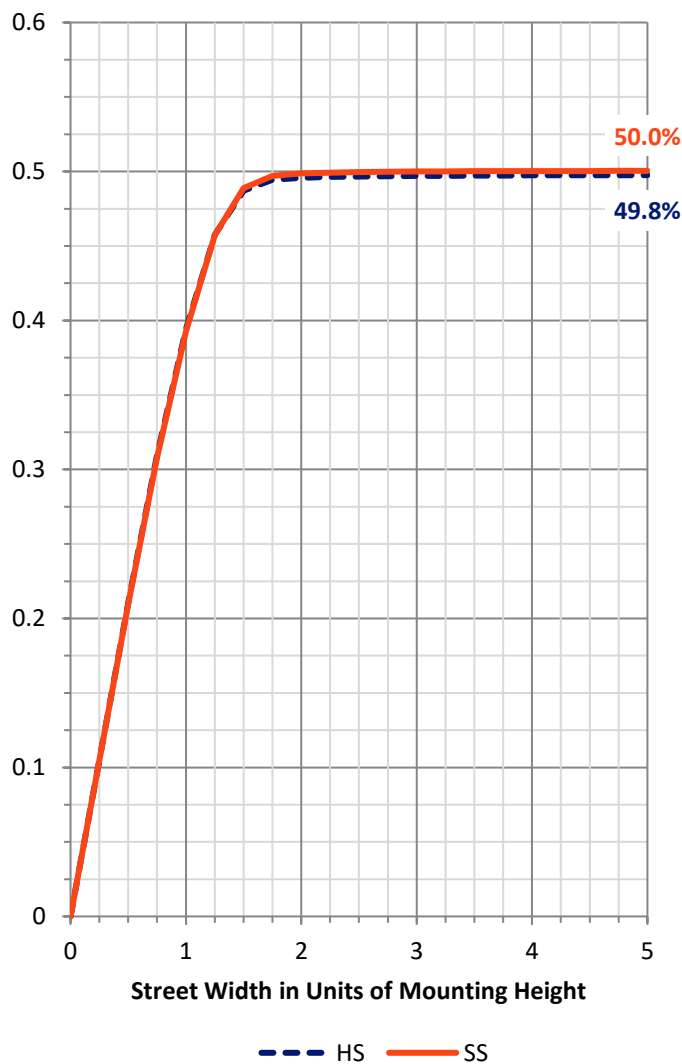
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7989.0	0.0	7989.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7989.0	0.0	7989.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15978.0	0.0	15978.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.4	1.6
10°-20°	830.4	5.2
20°-30°	1627.5	10.2
30°-40°	2926.7	18.3
40°-50°	5009.9	31.4
50°-60°	4847.5	30.3
60°-70°	415.0	2.6
70°-80°	49.2	0.3
80°-90°	15.4	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°	15978.0	100.0
0°-180°	15978.0	100.0

**Coefficient of Utilization**

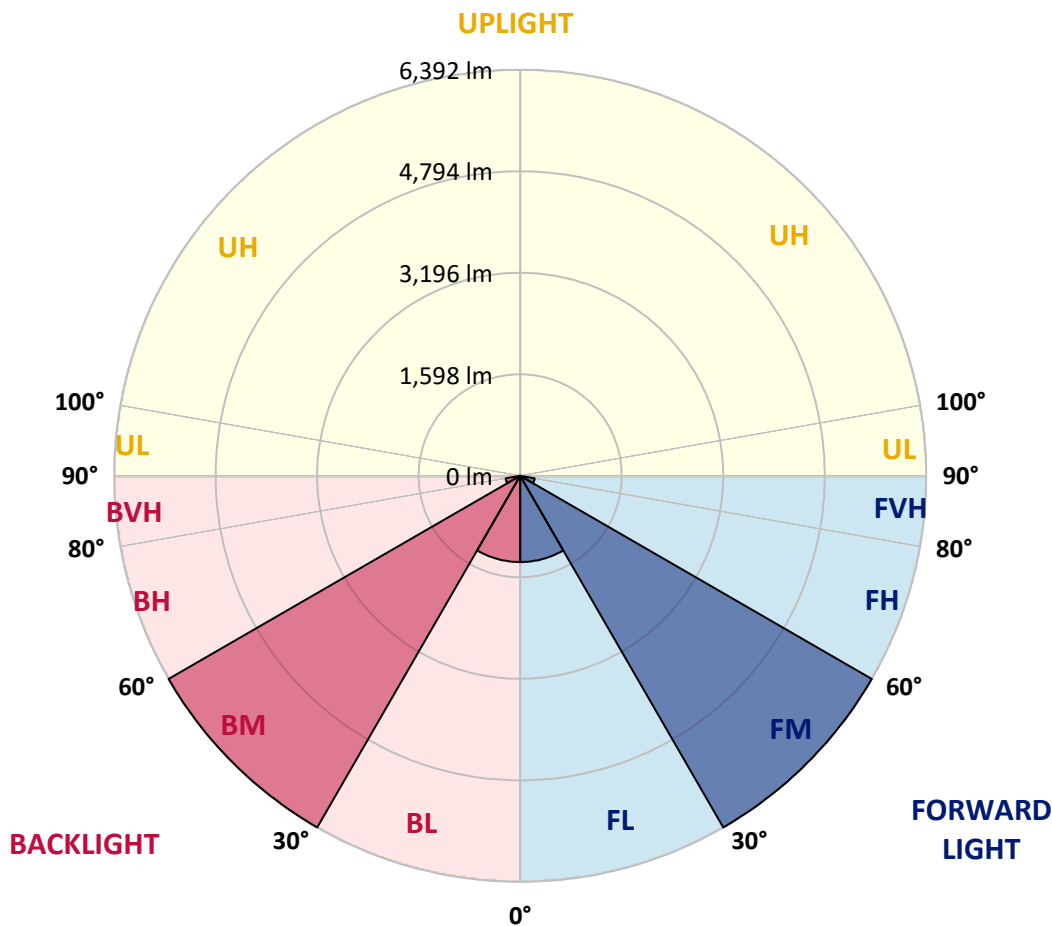


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.2	8.5			
FM (30°-60°)	6392.0	40.0			
FH (60°-80°)	232.1	1.5			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	1357.2	8.5	B3/2500		
BM (30°-60°)	6392.0	40.0	B4/8500		
BH (60°-80°)	232.1	1.5	B1/500		G0/660
BVH (80°-90°)	7.7	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°	2619.9	2619.9	2619.9	2619.9	2619.9	2619.9	2619.9	2619.9	2619.9	2619.9	2619.9
2.5°	2632.6	2647.7	2637.6	2645.2	2645.2	2632.6	2640.1	2609.8	2630.0	2614.8	2617.4
5°	2673.1	2670.5	2670.5	2673.1	2662.9	2668.0	2657.9	2647.7	2640.1	2630.0	2660.4
7.5°	2723.7	2723.7	2706.0	2711.0	2706.0	2713.6	2693.3	2673.1	2665.5	2657.9	2652.8
10°	2771.8	2766.7	2759.1	2781.9	2764.2	2754.1	2743.9	2731.3	2703.4	2693.3	2683.2
12.5°	2842.6	2840.1	2830.0	2852.8	2842.6	2852.8	2814.8	2781.9	2776.8	2743.9	2761.6
15°	2926.2	2949.0	2931.2	2931.2	2926.2	2913.5	2898.3	2883.1	2837.6	2824.9	2827.5
17.5°	3035.0	3027.4	3030.0	3030.0	3055.3	3022.4	2992.0	2954.0	2931.2	2923.7	2898.3
20°	3138.8	3148.9	3146.4	3164.1	3179.3	3143.9	3111.0	3105.9	3042.6	3052.7	3017.3
22.5°	3321.1	3313.5	3326.1	3338.8	3328.7	3323.6	3293.2	3255.3	3199.6	3174.2	3169.2
25°	3513.4	3500.8	3478.0	3508.4	3523.6	3546.3	3488.1	3467.9	3381.8	3343.8	3346.4
27.5°	3678.0	3695.7	3721.0	3733.7	3771.6	3764.0	3723.5	3657.7	3591.9	3548.9	3521.0
30°	3903.3	3913.4	3956.4	3974.1	4040.0	4057.7	3994.4	3918.5	3802.0	3746.3	3713.4
32.5°	4110.8	4181.7	4179.2	4267.8	4374.1	4447.5	4333.6	4217.1	4100.7	4034.9	3976.7
35°	4447.5	4434.8	4508.2	4601.9	4774.0	4857.6	4733.5	4599.4	4422.2	4315.9	4270.3
37.5°	4761.4	4766.4	4865.2	5014.5	5211.9	5341.0	5232.2	5012.0	4829.7	4693.0	4629.7
40°	5217.0	5227.1	5328.4	5498.0	5720.7	5860.0	5733.4	5510.6	5267.6	5161.3	5161.3
42.5°	5751.1	5794.1	5860.0	6006.8	6206.7	6361.2	6247.2	6072.6	5827.0	5690.4	5710.6
45°	6300.4	6320.7	6363.7	6581.4	6675.0	6751.0	6644.7	6563.7	6399.1	6232.1	6204.2
47.5°	6814.3	6821.9	6948.4	7016.8	7090.2	7026.9	7095.2	6988.9	6804.1	6642.1	6609.2
50°	7042.1	7029.4	7209.1	7416.7	7472.4	7361.0	7302.8	7231.9	6950.9	6756.0	6670.0
52.5°	6378.9	6452.3	6786.4	7363.5	7798.9	7892.6	7553.4	7226.9	6702.9	6323.2	6265.0
54°	5619.5	5687.8	5963.7	6819.3	7725.5	8041.9	7495.2	6801.6	6062.5	5611.9	5553.7
55°	4867.7	4791.7	5292.9	6166.2	7381.3	7910.3	7264.8	6252.3	5406.9	4994.3	4913.3
57.5°	2635.1	2647.7	3070.5	3895.7	5186.6	6065.0	5356.2	4229.8	3194.5	2731.3	2690.8
60°	835.3	855.6	1040.4	1574.5	2478.1	2959.1	2536.4	1698.5	1174.5	941.6	903.7
62.5°	260.7	270.8	296.2	440.4	678.4	969.5	759.4	455.6	339.2	311.3	316.4
65°	159.5	159.5	162.0	172.1	202.5	235.4	227.8	200.0	192.4	187.3	184.8
67.5°	103.8	101.3	106.3	113.9	119.0	121.5	129.1	136.7	134.2	129.1	129.1
70°	63.3	60.8	65.8	75.9	78.5	83.5	91.1	101.3	98.7	93.7	96.2
72.5°	35.4	35.4	38.0	45.6	53.2	58.2	65.8	73.4	75.9	73.4	73.4
75°	12.7	15.2	20.3	27.8	32.9	40.5	48.1	55.7	63.3	58.2	55.7
77.5°	5.1	5.1	10.1	17.7	25.3	32.9	45.6	53.2	58.2	53.2	48.1
80°	2.5	2.5	7.6	15.2	22.8	30.4	38.0	45.6	48.1	43.0	38.0
82.5°	2.5	2.5	7.6	15.2	22.8	27.8	40.5	45.6	50.6	45.6	38.0
85°	0.0	2.5	7.6	15.2	20.3	22.8	22.8	15.2	12.7	7.6	7.6
87.5°	0.0	0.0	2.5	0.0	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)