

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: P530639

Luminaire Tested: **GALN-SA5D-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530639  
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-SA5D-827-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 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: 17091 lumens  
Efficiency: N/A  
Efficacy: 55.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

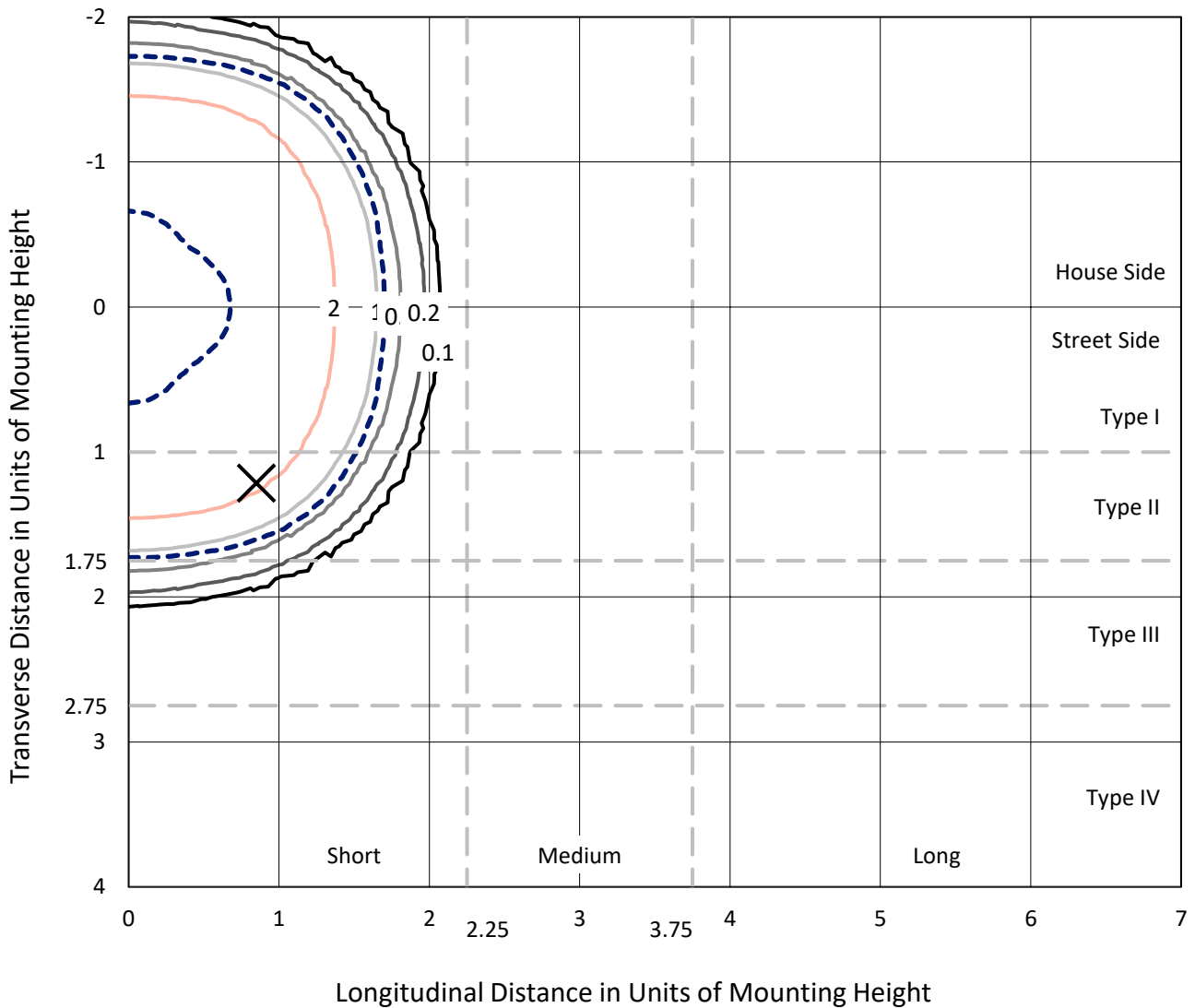
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

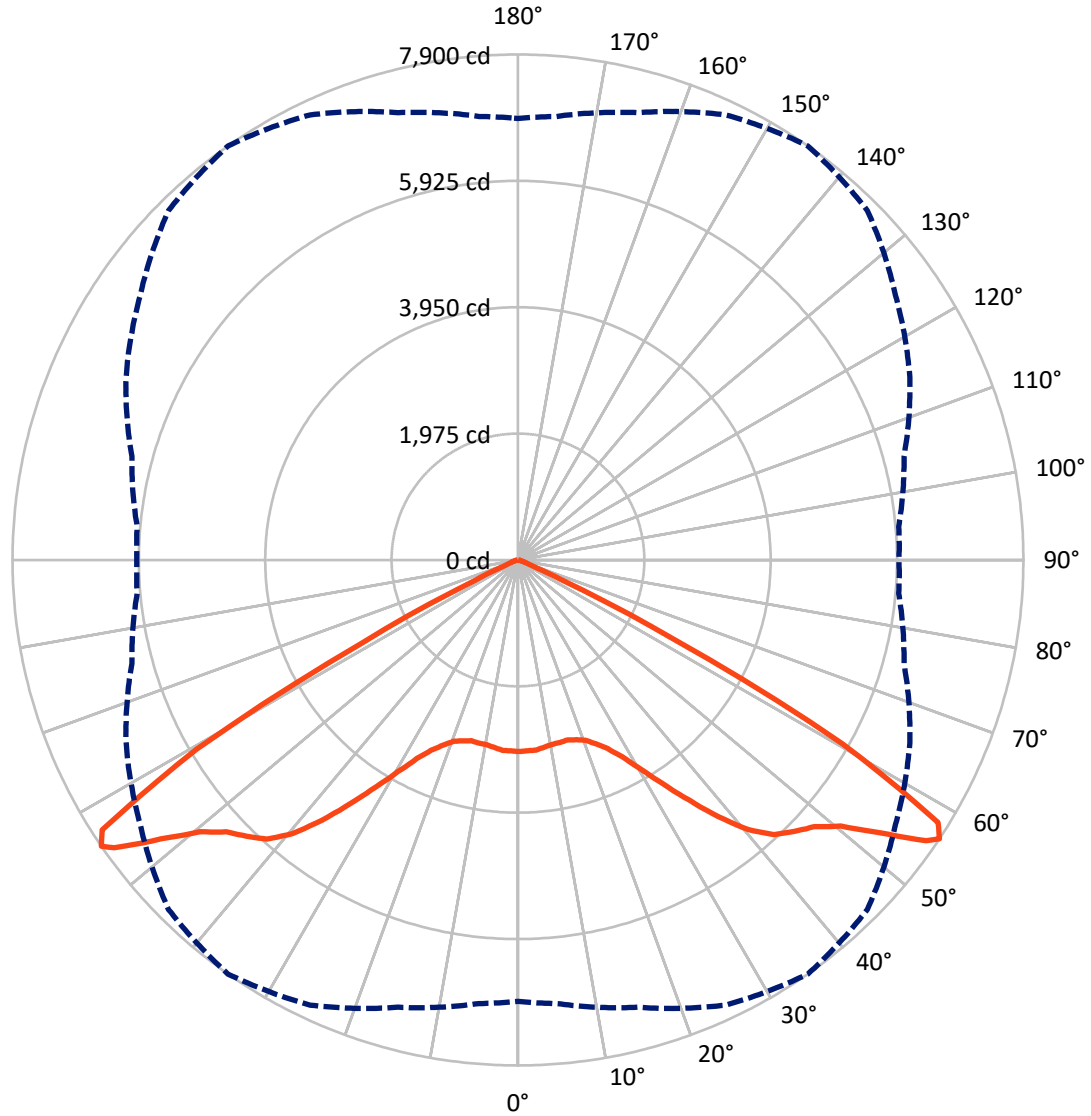
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	8545.5	0.0	8545.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8545.5	0.0	8545.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17091.0	0.0	17091.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.5	1.6
10°-20°	821.7	4.8
20°-30°	1488.0	8.7
30°-40°	2759.3	16.1
40°-50°	4529.2	26.5
50°-60°	5835.0	34.1
60°-70°	1286.0	7.5
70°-80°	74.6	0.4
80°-90°	15.7	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°	17091.0	100.0
0°-180°	17091.0	100.0

**Coefficient of Utilization**



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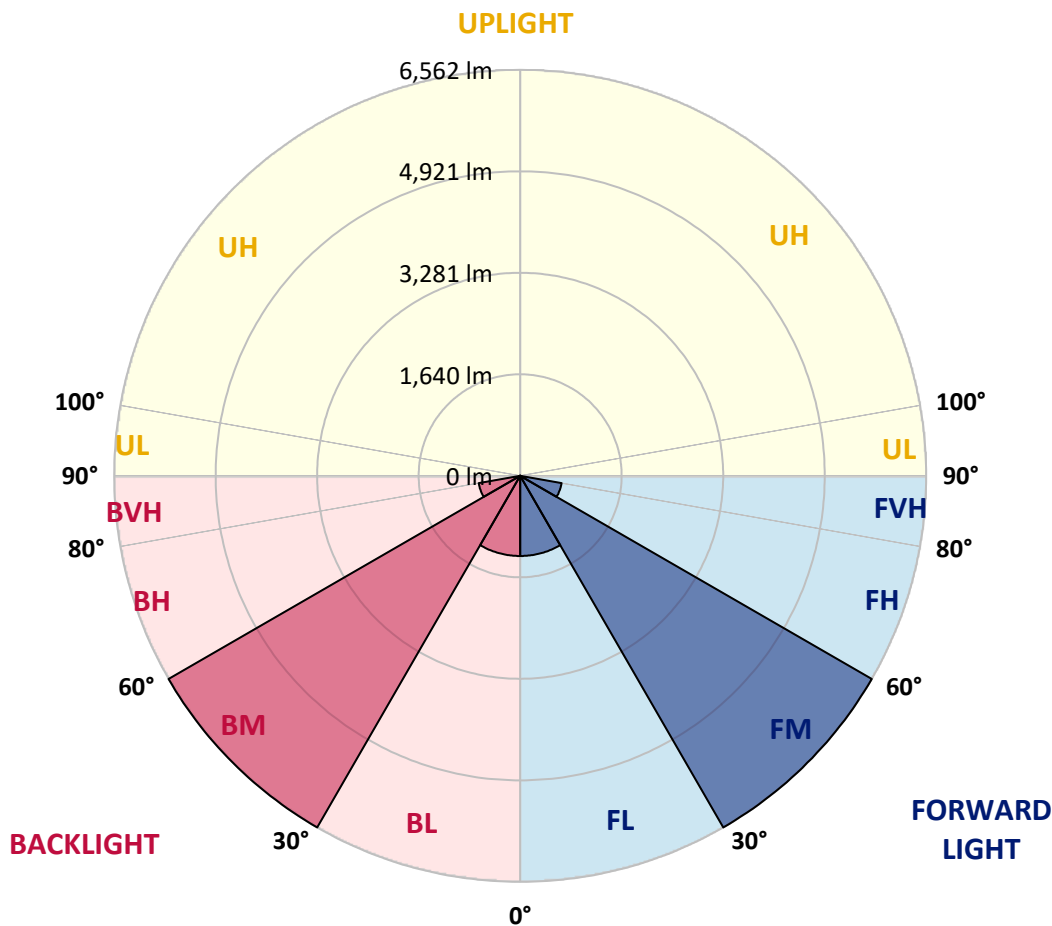
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.6	7.6			
FM (30°-60°)	6561.8	38.4			
FH (60°-80°)	680.3	4.0			G1/1800
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	1295.6	7.6	B3/2500		
BM (30°-60°)	6561.8	38.4	B4/8500		
BH (60°-80°)	680.3	4.0	B2/1000		G1/1800
BVH (80°-90°)	7.9	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7
2.5°	3000.9	3000.9	3004.0	3007.1	2985.4	2976.1	2979.2	2973.0	2969.9	2979.2	2979.2
5°	2991.6	2991.6	2982.3	2985.4	2985.4	2957.5	2957.5	2963.7	2963.7	2945.2	2939.0
7.5°	2966.8	2960.6	2948.3	2963.7	2954.5	2954.5	2932.8	2917.3	2911.1	2923.5	2911.1
10°	2914.2	2917.3	2929.7	2935.9	2929.7	2948.3	2911.1	2889.4	2867.7	2858.4	2858.4
12.5°	2889.4	2908.0	2889.4	2904.9	2926.6	2911.1	2889.4	2873.9	2843.0	2830.6	2830.6
15°	2886.3	2898.7	2904.9	2926.6	2917.3	2923.5	2880.1	2861.5	2815.1	2793.4	2784.1
17.5°	2883.2	2898.7	2908.0	2948.3	2954.5	2957.5	2923.5	2867.7	2827.5	2805.8	2784.1
20°	2917.3	2923.5	2942.1	2982.3	3007.1	3050.5	2988.5	2929.7	2843.0	2818.2	2808.9
22.5°	2960.6	2991.6	3010.2	3053.6	3118.6	3155.8	3075.2	3000.9	2911.1	2880.1	2843.0
25°	3100.0	3093.8	3124.8	3214.6	3267.2	3295.1	3230.1	3121.7	3004.0	2966.8	2973.0
27.5°	3273.4	3279.6	3307.5	3406.6	3484.0	3527.4	3450.0	3307.5	3192.9	3131.0	3124.8
30°	3499.5	3493.3	3524.3	3657.4	3796.8	3861.8	3725.6	3558.3	3446.9	3366.3	3384.9
32.5°	3738.0	3741.1	3827.8	3948.6	4174.6	4301.6	4081.7	3877.3	3710.1	3654.4	3626.5
35°	4091.0	4106.5	4174.6	4360.4	4611.3	4775.4	4533.9	4289.2	4097.2	3995.0	4007.4
37.5°	4527.7	4512.2	4626.8	4828.1	5091.3	5212.1	5007.7	4729.0	4533.9	4465.7	4509.1
40°	4992.2	5007.7	5066.5	5249.3	5543.5	5624.0	5320.5	5168.7	4998.4	4964.3	5017.0
42.5°	5456.8	5447.5	5490.8	5655.0	5868.6	5812.9	5633.3	5543.5	5422.7	5354.6	5425.8
45°	5797.4	5781.9	5862.4	5973.9	6051.4	5946.1	5865.5	5834.6	5772.6	5698.3	5763.3
47.5°	6128.8	6116.4	6193.8	6224.8	6231.0	6091.6	6107.1	6162.8	6008.0	5853.2	5927.5
50°	6410.6	6388.9	6484.9	6553.1	6537.6	6314.6	6370.3	6314.6	6073.0	5890.3	5862.4
52.5°	6881.3	6890.6	6992.8	7116.7	7079.5	6893.7	6813.2	6559.3	6249.6	6085.4	5989.4
55°	7178.6	7132.2	7308.7	7702.0	7745.4	7553.4	7197.2	6822.5	6358.0	6156.7	6131.9
56°	6899.9	6958.8	7237.5	7677.2	7900.2	7723.7	7206.5	6757.5	6246.5	5973.9	5955.4
57.5°	6190.7	6159.8	6537.6	7138.4	7745.4	7671.0	6952.6	6292.9	5698.3	5391.7	5354.6
60°	3852.6	3942.4	4273.7	5017.0	5828.4	5865.5	5153.3	4586.5	3892.8	3620.3	3685.3
62.5°	1508.2	1430.8	1638.3	2192.6	2750.1	2873.9	2604.5	2164.7	1777.6	1508.2	1489.6
65°	350.0	340.7	384.0	529.6	740.2	857.8	814.5	585.3	430.5	408.8	377.8
67.5°	198.2	198.2	188.9	188.9	207.5	219.9	210.6	207.5	216.8	226.1	223.0
70°	139.4	136.3	130.1	133.2	127.0	127.0	136.3	151.7	164.1	164.1	167.2
72.5°	83.6	83.6	83.6	92.9	92.9	92.9	102.2	114.6	117.7	114.6	111.5
75°	37.2	37.2	43.4	52.6	58.8	61.9	71.2	77.4	83.6	77.4	71.2
77.5°	9.3	9.3	15.5	21.7	27.9	34.1	46.5	55.7	58.8	55.7	46.5
80°	3.1	3.1	6.2	15.5	27.9	34.1	46.5	49.6	52.6	46.5	37.2
82.5°	3.1	3.1	6.2	15.5	21.7	27.9	37.2	43.4	46.5	40.3	37.2
85°	0.0	3.1	6.2	12.4	18.6	24.8	24.8	18.6	15.5	9.3	12.4
87.5°	0.0	0.0	3.1	3.1	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)