

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: P455212

Luminaire Tested: **GALN-SA6B-827-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455212  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25592 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

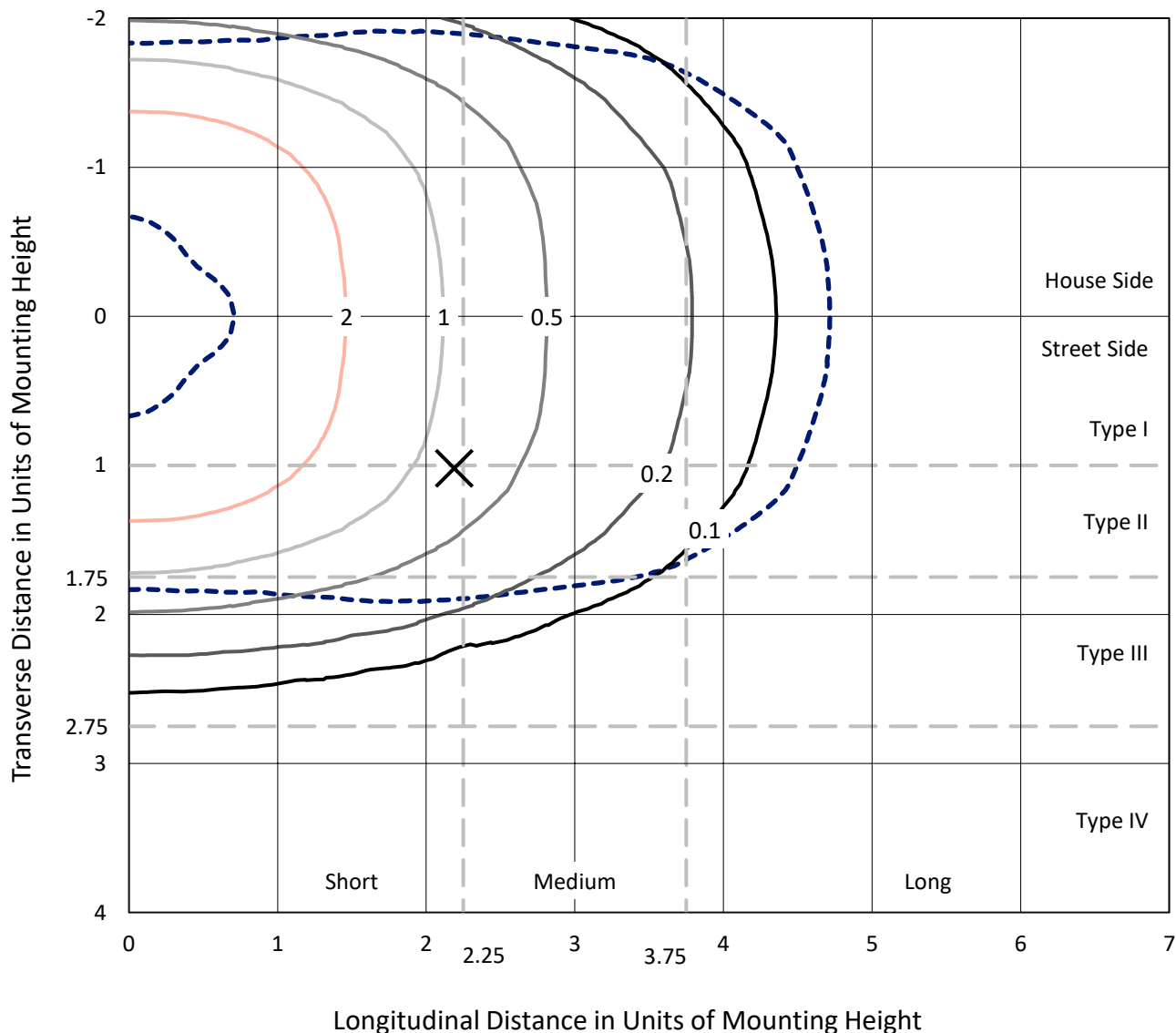
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

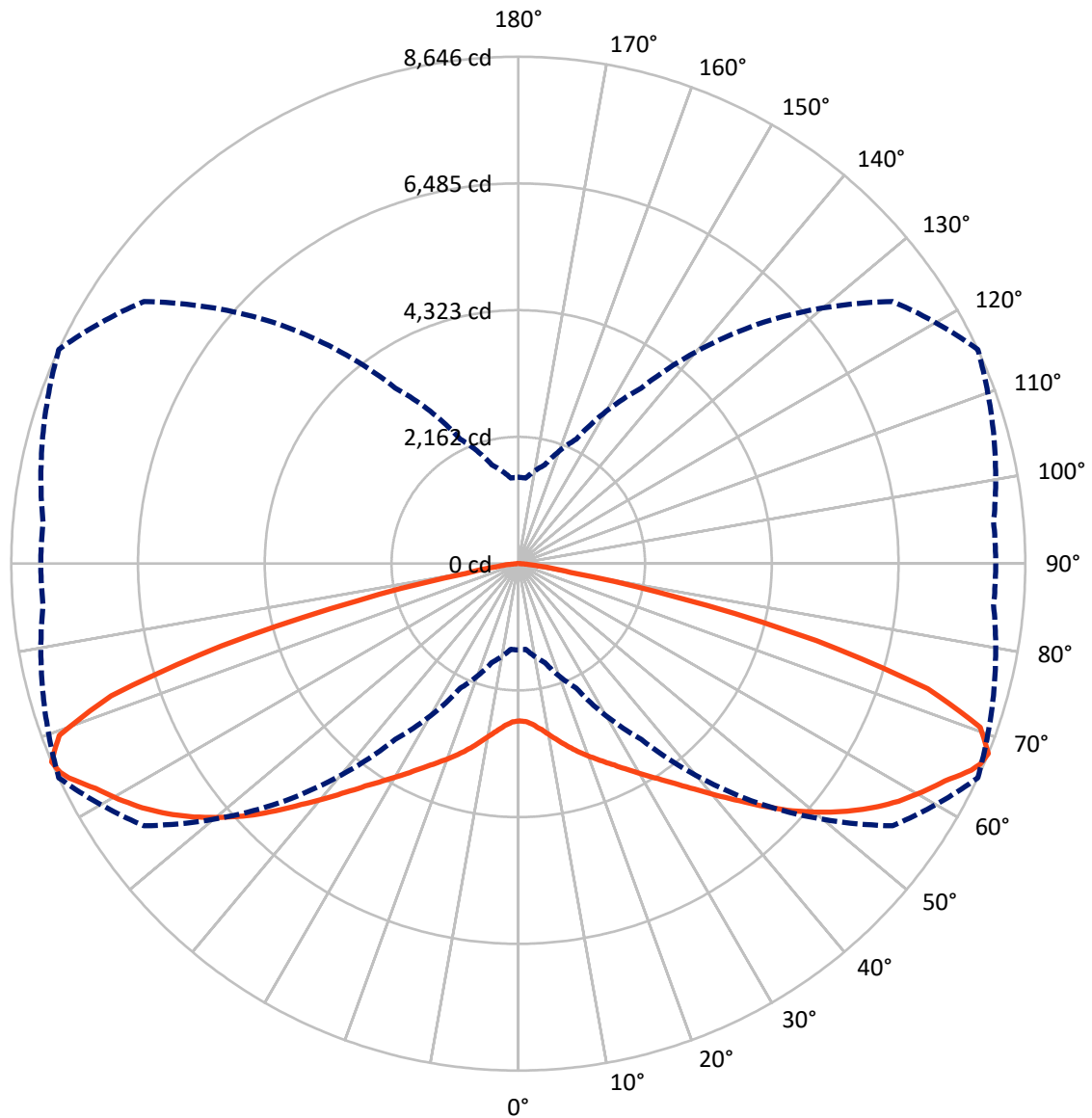
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12796.0	0.0	12796.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12796.0	0.0	12796.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25592.0	0.0	25592.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.4	1.0
10°-20°	884.8	3.5
20°-30°	1730.8	6.8
30°-40°	2943.9	11.5
40°-50°	4659.3	18.2
50°-60°	6178.1	24.1
60°-70°	5827.8	22.8
70°-80°	2881.0	11.3
80°-90°	222.0	0.9
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°	25592.0	100.0
0°-180°	25592.0	100.0



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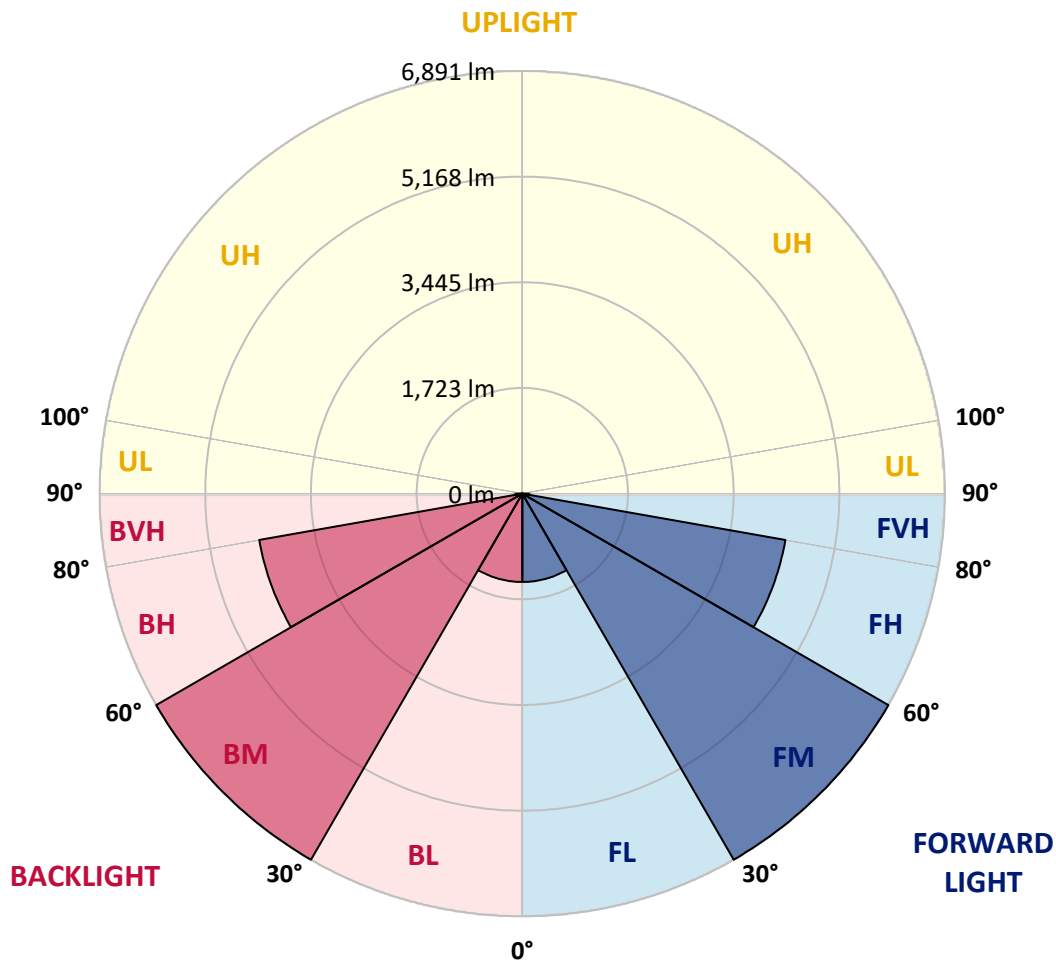
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1440.0	5.6			
FM	(30°-60°)	6890.6	26.9			
FH	(60°-80°)	4354.4	17.0			G2/5000
FVH	(80°-90°)	111.0	0.4			G2/225
BL	(0°-30°)	1440.0	5.6	B3/2500		
BM	(30°-60°)	6890.6	26.9	B4/8500		
BH	(60°-80°)	4354.4	17.0	B4/5000		G4/5000
BVH	(80°-90°)	111.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5
2.5°	2666.8	2669.6	2672.3	2676.4	2681.9	2690.1	2695.6	2699.7	2710.7	2712.1	2710.7
5°	2657.2	2660.0	2666.8	2679.2	2697.0	2721.7	2740.9	2764.2	2782.0	2794.3	2791.6
7.5°	2655.9	2661.3	2672.3	2698.4	2732.6	2775.1	2819.0	2858.8	2893.1	2920.5	2916.4
10°	2677.8	2684.6	2702.5	2740.9	2794.3	2856.0	2917.7	2976.7	3026.1	3061.7	3074.0
12.5°	2714.8	2720.3	2753.2	2810.8	2887.6	2964.4	3034.3	3107.0	3175.5	3235.8	3235.8
15°	2779.3	2788.9	2830.0	2913.6	3008.2	3097.4	3168.7	3245.4	3319.5	3388.0	3408.6
17.5°	2868.4	2882.1	2943.8	3050.7	3171.4	3253.7	3320.8	3383.9	3448.4	3514.2	3523.8
20°	2990.4	3004.1	3086.4	3215.3	3357.9	3456.6	3501.8	3516.9	3548.5	3611.5	3619.8
22.5°	3156.3	3170.0	3261.9	3407.2	3566.3	3673.2	3692.4	3656.8	3648.5	3697.9	3703.4
25°	3344.2	3356.5	3462.1	3618.4	3782.9	3899.5	3894.0	3806.2	3756.9	3787.0	3795.3
27.5°	3555.3	3573.1	3680.1	3841.9	4020.1	4123.0	4106.5	3979.0	3873.4	3867.9	3870.7
30°	3825.4	3844.6	3946.1	4101.0	4276.5	4371.1	4336.8	4165.5	4002.3	3947.4	3947.4
32.5°	4110.6	4158.6	4261.4	4423.2	4560.3	4628.9	4576.8	4371.1	4154.5	4077.7	4073.6
35°	4482.2	4508.2	4609.7	4767.4	4870.2	4923.7	4823.6	4602.8	4353.3	4262.8	4250.5
37.5°	4845.5	4867.5	4985.4	5136.2	5261.0	5258.2	5122.5	4878.4	4600.1	4498.6	4490.4
40°	5217.1	5240.4	5374.8	5513.3	5638.0	5627.1	5462.5	5189.7	4893.5	4779.7	4801.7
42.5°	5539.3	5565.4	5717.6	5915.0	6027.4	6024.7	5834.1	5527.0	5218.5	5117.0	5136.2
45°	5832.7	5856.0	6032.9	6259.2	6423.7	6444.3	6235.8	5910.9	5594.2	5463.9	5469.4
47.5°	6039.8	6083.7	6268.8	6527.9	6751.4	6824.1	6619.8	6301.7	5936.9	5801.2	5809.4
50°	6197.5	6224.9	6426.4	6721.2	7003.7	7154.5	6990.0	6663.6	6279.7	6135.8	6154.9
52.5°	6216.7	6249.6	6468.9	6809.0	7170.9	7399.9	7319.0	7017.4	6629.4	6481.3	6522.4
55°	6060.3	6079.5	6341.4	6754.1	7236.8	7582.3	7602.9	7346.5	6962.5	6850.1	6877.5
57.5°	5614.7	5664.1	5995.9	6497.7	7146.3	7679.6	7815.4	7645.4	7299.8	7188.8	7232.6
60°	4883.9	4933.3	5266.5	5902.7	6804.9	7634.4	7990.9	7910.0	7605.6	7516.5	7539.8
62.5°	3826.8	3822.7	4235.4	5015.6	6126.2	7412.3	8121.1	8165.0	7907.2	7794.8	7830.5
65°	2480.4	2492.7	2891.7	3732.2	5101.9	6847.4	8149.9	8490.0	8203.4	8033.4	8059.4
66°	1995.0	2032.0	2370.7	3145.3	4579.5	6477.2	8063.5	8585.9	8293.9	8088.2	8100.6
67.5°	1472.6	1465.7	1744.1	2341.9	3656.8	5773.8	7793.4	8646.3	8396.7	8137.6	8143.1
70°	840.5	839.1	937.8	1286.1	2149.9	4065.4	6569.0	8357.0	8605.1	8315.8	8300.8
72.5°	614.3	610.1	623.9	710.2	1048.9	2052.6	4531.5	7303.9	8498.2	8287.0	8244.5
75°	515.5	512.8	510.1	521.0	588.2	929.6	2404.9	5254.1	7373.9	7778.4	7734.5
77.5°	420.9	420.9	422.3	419.6	422.3	489.5	996.8	2816.3	4490.4	5012.8	5134.8
80°	329.1	327.7	351.0	341.4	319.5	314.0	441.5	906.3	1490.4	1482.2	1223.0
82.5°	242.7	226.2	267.4	260.5	235.8	200.2	257.8	386.7	497.7	323.6	239.9
85°	153.6	152.2	189.2	172.8	144.0	94.6	123.4	165.9	205.7	124.8	101.5
87.5°	27.4	26.1	60.3	43.9	43.9	27.4	34.3	45.2	67.2	46.6	34.3
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)