

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: P528538

Luminaire Tested: **GALN-SA3C-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528538  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-827-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13089 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

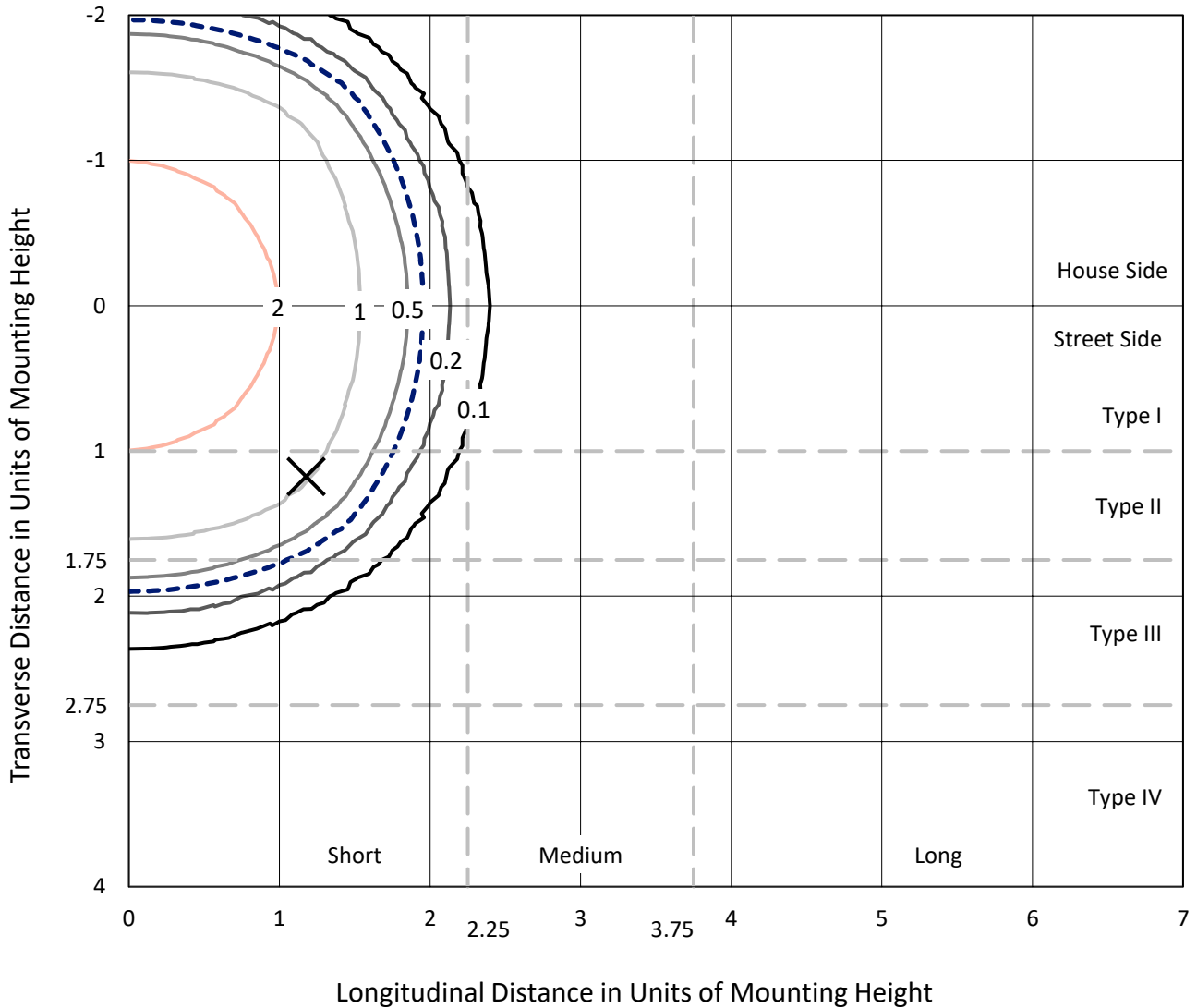
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

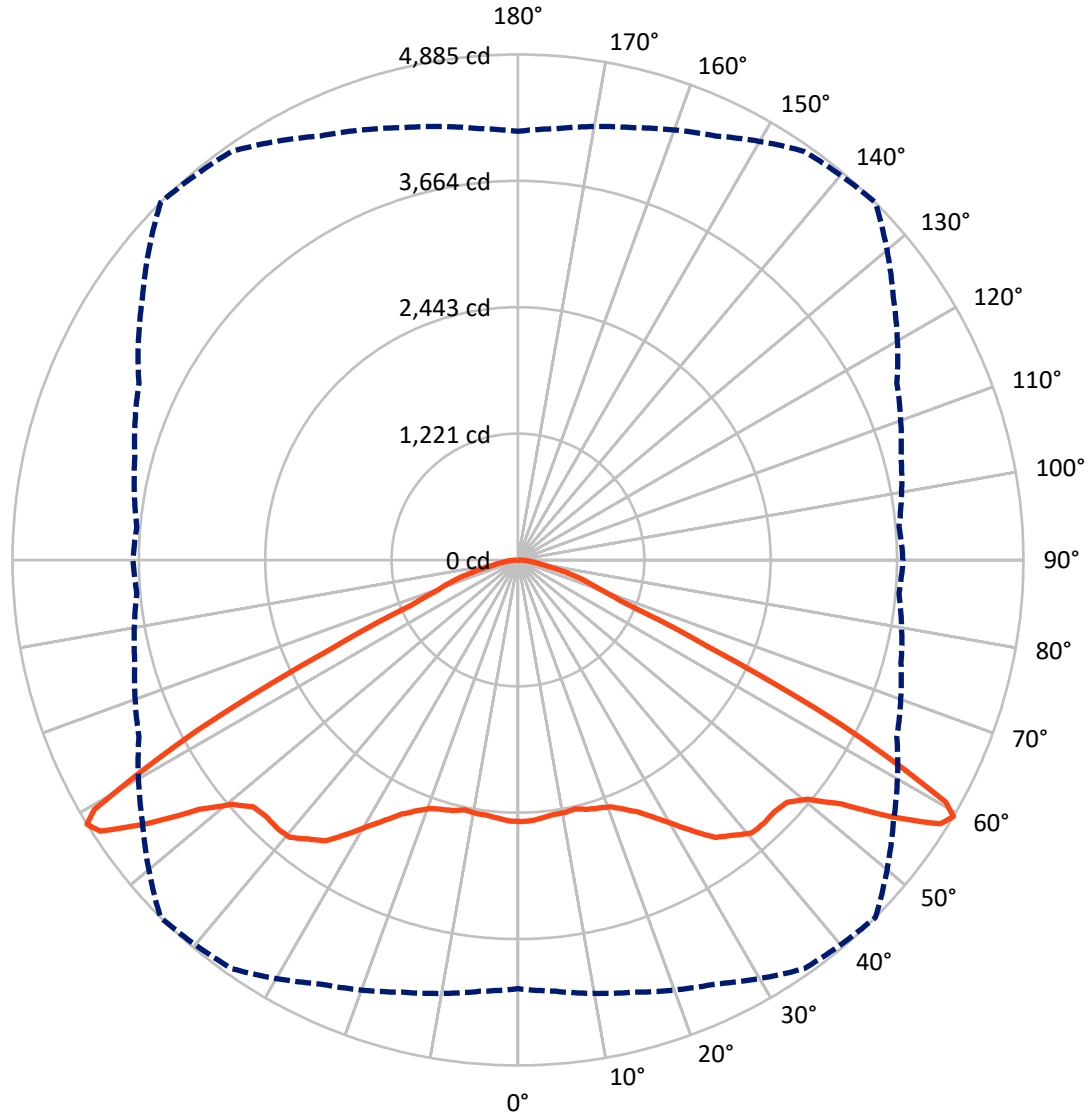
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6544.5	0.0	6544.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6544.5	0.0	6544.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13089.0	0.0	13089.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.3	1.8
10°-20°	708.7	5.4
20°-30°	1237.5	9.5
30°-40°	1976.5	15.1
40°-50°	2692.4	20.6
50°-60°	3640.9	27.8
60°-70°	1996.7	15.3
70°-80°	510.8	3.9
80°-90°	87.1	0.7
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°	13089.0	100.0
0°-180°	13089.0	100.0

**Coefficient of Utilization**



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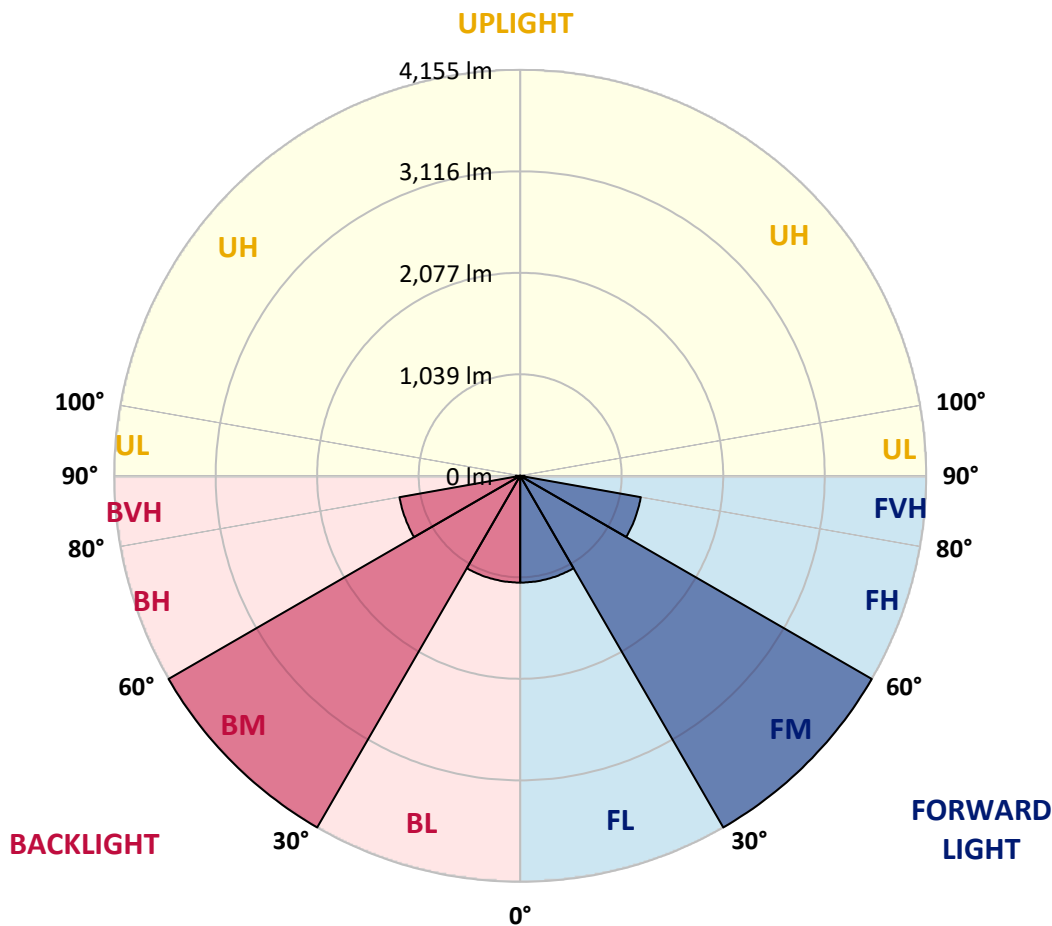
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.3	8.3			
FM (30°-60°)	4154.9	31.7			
FH (60°-80°)	1253.7	9.6			G1/1800
FVH (80°-90°)	43.6	0.3			G1/100
BL (0°-30°)	1092.3	8.3	B3/2500		
BM (30°-60°)	4154.9	31.7	B3/5000		
BH (60°-80°)	1253.7	9.6	B3/2500		G1/1800
BVH (80°-90°)	43.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2
2.5°	2513.1	2531.5	2518.1	2529.8	2528.2	2523.1	2514.7	2509.7	2503.0	2513.1	2496.3
5°	2503.0	2518.1	2533.2	2513.1	2513.1	2503.0	2498.0	2487.9	2487.9	2486.2	2484.6
7.5°	2519.8	2504.7	2498.0	2501.3	2504.7	2482.9	2498.0	2477.8	2461.1	2472.8	2486.2
10°	2504.7	2511.4	2486.2	2498.0	2479.5	2482.9	2472.8	2486.2	2467.8	2467.8	2467.8
12.5°	2519.8	2501.3	2509.7	2501.3	2496.3	2467.8	2481.2	2466.1	2464.4	2481.2	2466.1
15°	2550.0	2519.8	2513.1	2496.3	2501.3	2501.3	2487.9	2489.6	2471.1	2481.2	2484.6
17.5°	2539.9	2523.1	2518.1	2498.0	2514.7	2519.8	2494.6	2477.8	2489.6	2487.9	2486.2
20°	2548.3	2555.0	2550.0	2553.3	2560.0	2546.6	2523.1	2499.6	2484.6	2506.4	2504.7
22.5°	2602.0	2595.3	2591.9	2588.6	2600.3	2613.7	2581.9	2544.9	2544.9	2560.0	2566.8
25°	2645.6	2643.9	2642.2	2657.3	2697.6	2697.6	2657.3	2610.4	2598.6	2608.7	2600.3
27.5°	2709.4	2727.8	2721.1	2747.9	2806.7	2820.1	2766.4	2711.0	2679.2	2667.4	2682.5
30°	2855.3	2833.5	2838.5	2867.0	2919.1	2962.7	2880.5	2821.8	2778.1	2776.5	2783.2
32.5°	2952.6	2969.4	2984.5	3011.3	3093.5	3127.1	3028.1	2932.5	2905.6	2890.5	2895.6
35°	3147.2	3132.1	3128.8	3155.6	3237.8	3293.2	3169.0	3085.1	3049.9	3083.5	3083.5
37.5°	3331.7	3289.8	3257.9	3293.2	3368.7	3375.4	3269.7	3224.4	3205.9	3244.5	3242.8
40°	3419.0	3415.6	3341.8	3361.9	3462.6	3472.7	3373.7	3320.0	3316.6	3367.0	3417.3
42.5°	3509.6	3477.7	3403.9	3417.3	3479.4	3482.7	3388.8	3373.7	3410.6	3459.2	3462.6
45°	3524.7	3497.8	3450.9	3417.3	3462.6	3472.7	3417.3	3427.4	3430.7	3489.4	3489.4
47.5°	3554.9	3551.5	3524.7	3499.5	3507.9	3499.5	3464.3	3479.4	3529.7	3558.2	3544.8
50°	3638.8	3603.5	3630.4	3608.6	3610.2	3633.7	3601.8	3616.9	3606.9	3581.7	3564.9
52.5°	3823.3	3806.5	3830.0	3845.1	3861.9	3915.6	3878.7	3798.1	3722.6	3655.5	3653.8
55°	4093.4	4105.1	4150.4	4227.6	4293.0	4378.6	4200.8	4007.8	3887.0	3781.3	3788.1
57.5°	4348.4	4340.0	4402.1	4578.2	4769.5	4813.1	4464.1	4189.0	3992.7	3925.6	3897.1
59°	4143.7	4184.0	4324.9	4521.2	4821.5	4885.2	4428.9	4041.4	3833.4	3697.5	3721.0
60°	3821.6	3836.7	3962.5	4236.0	4642.0	4751.0	4192.4	3813.2	3536.4	3457.6	3492.8
62.5°	2701.0	2689.2	2779.8	3002.9	3367.0	3514.6	3117.0	2850.3	2675.8	2588.6	2608.7
65°	1436.0	1489.7	1526.6	1665.9	1858.8	2014.8	1850.4	1734.7	1637.4	1565.2	1563.5
67.5°	969.7	963.0	971.3	1003.2	1068.6	1112.3	1108.9	1050.2	1041.8	1028.4	1043.5
70°	817.0	813.6	798.5	798.5	812.0	822.0	833.8	840.5	853.9	870.7	869.0
72.5°	662.7	654.3	644.2	639.2	655.9	661.0	676.1	682.8	694.5	692.9	708.0
75°	437.9	437.9	449.6	463.0	468.1	478.1	479.8	499.9	499.9	503.3	489.9
77.5°	244.9	238.2	246.6	260.0	271.8	290.2	308.7	323.8	332.2	328.8	328.8
80°	142.6	142.6	151.0	166.1	181.2	198.0	211.4	223.1	231.5	228.2	221.4
82.5°	88.9	88.9	97.3	112.4	124.1	134.2	152.7	167.8	177.8	174.5	166.1
85°	45.3	45.3	55.4	65.4	80.5	87.2	85.6	78.8	77.2	68.8	68.8
87.5°	11.7	11.7	16.8	18.5	15.1	16.8	16.8	16.8	16.8	16.8	18.5
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)