

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: P532983

Luminaire Tested: **GALN-SA8B-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-827-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17619 lumens  
Efficiency: N/A  
Efficacy: 54.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

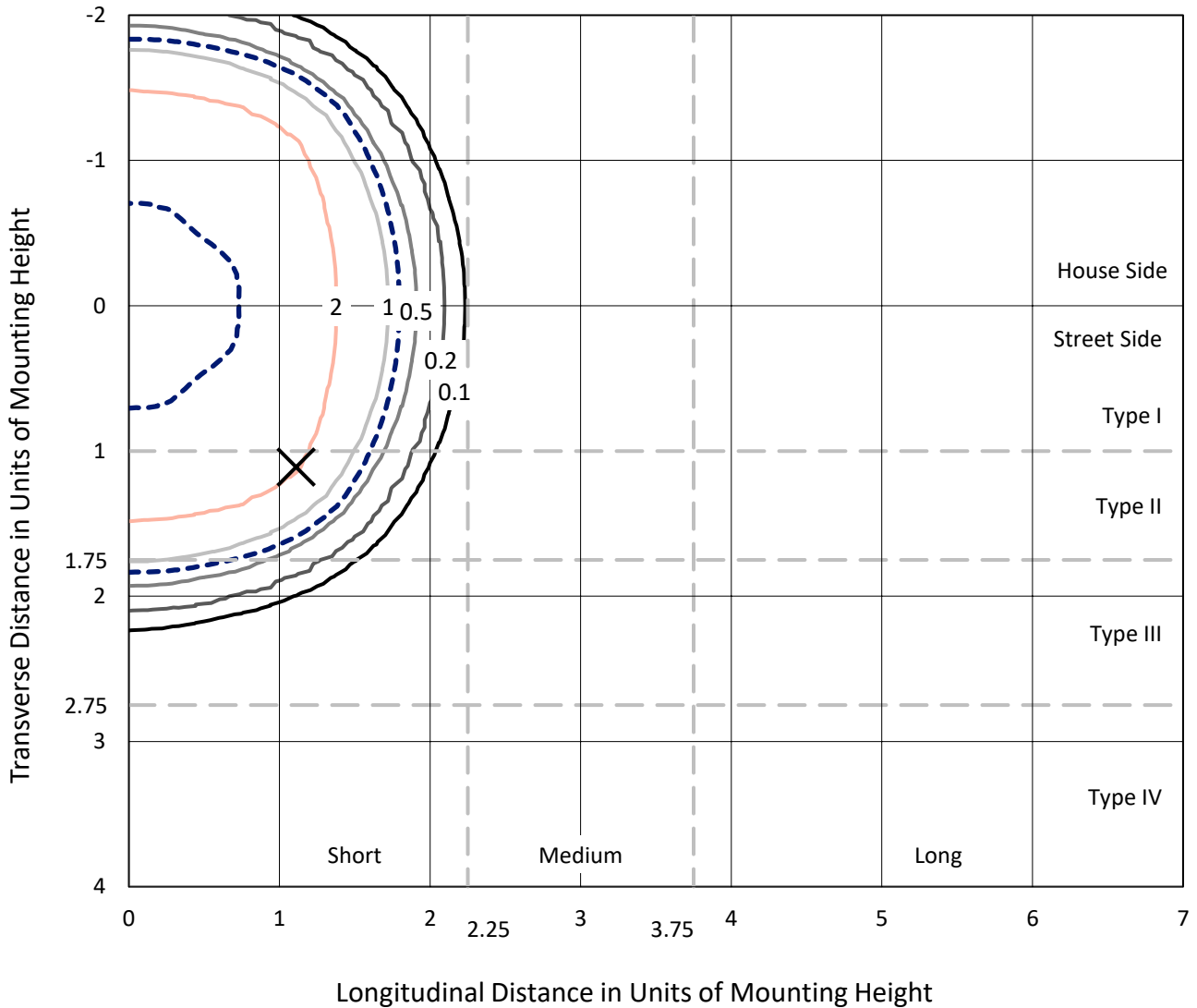
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

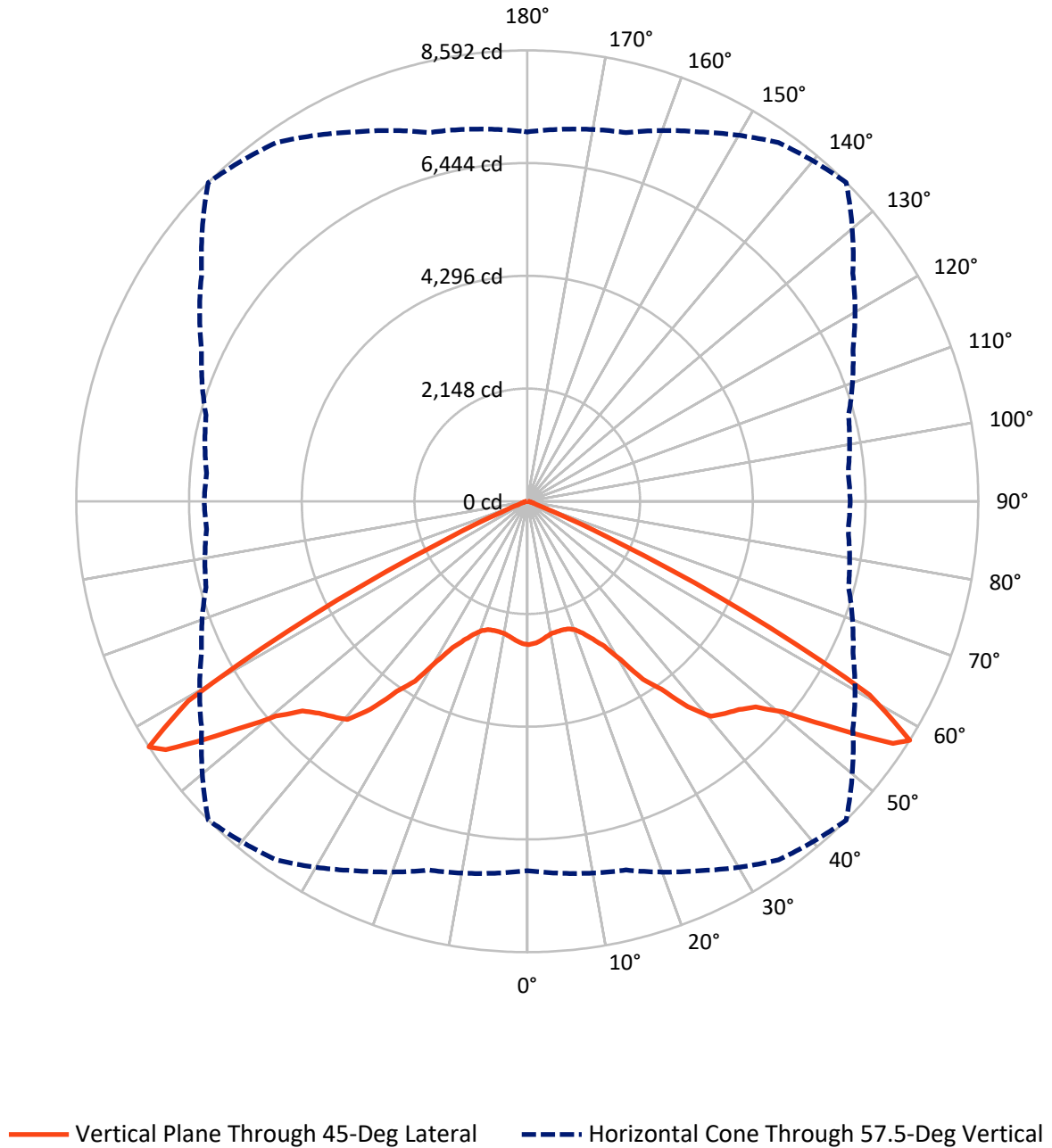
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	8809.5	0.0	8809.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8809.5	0.0	8809.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17619.0	0.0	17619.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.1	1.4
10°-20°	725.9	4.1
20°-30°	1339.9	7.6
30°-40°	2635.1	15.0
40°-50°	4291.9	24.4
50°-60°	6120.8	34.7
60°-70°	2119.2	12.0
70°-80°	113.7	0.6
80°-90°	21.4	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°	17619.0	100.0
0°-180°	17619.0	100.0

**Coefficient of Utilization**

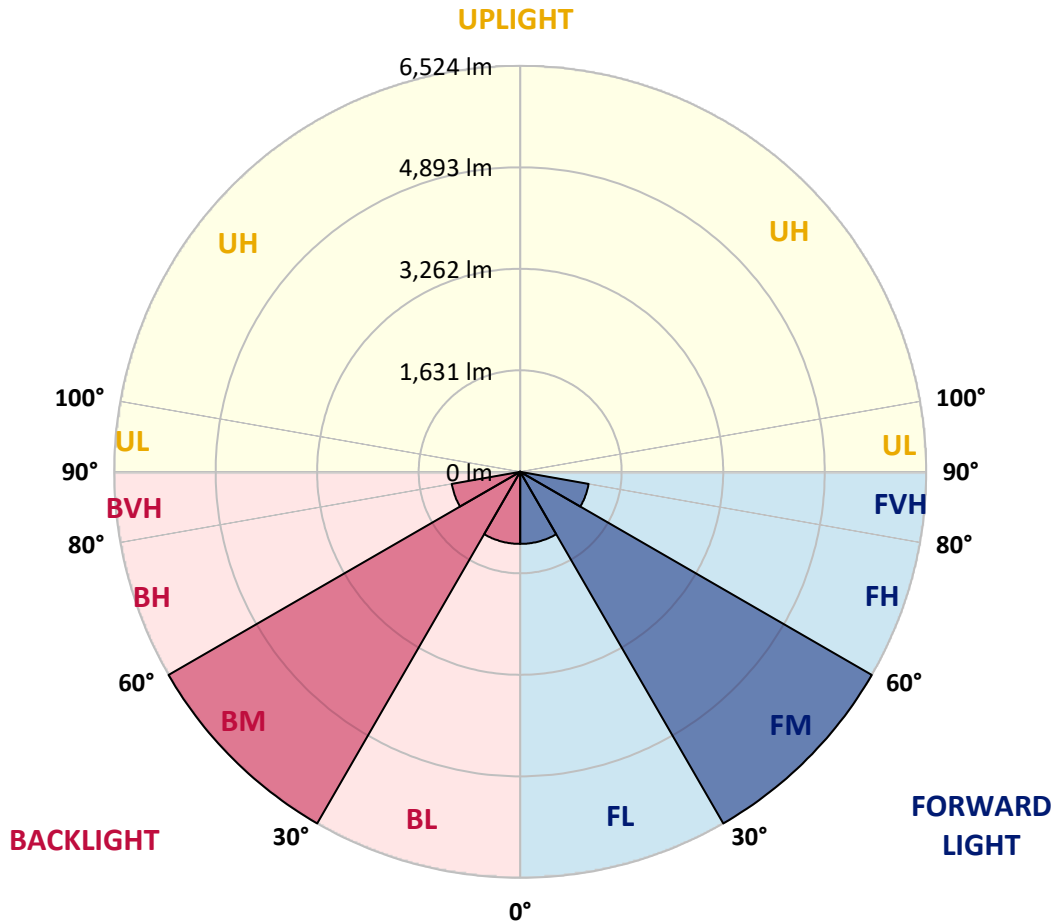


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1158.5	6.6			
FM (30°-60°)	6523.9	37.0			
FH (60°-80°)	1116.4	6.3			G1/1800
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	1158.5	6.6	B3/2500		
BM (30°-60°)	6523.9	37.0	B4/8500		
BH (60°-80°)	1116.4	6.3	B3/2500		G1/1800
BVH (80°-90°)	10.7	0.1			G1/100
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°	2732.9	2732.9	2732.9	2732.9	2732.9	2732.9	2732.9	2732.9	2732.9	2732.9	2732.9
2.5°	2725.5	2740.2	2721.9	2714.5	2710.9	2710.9	2699.8	2699.8	2696.2	2699.8	2685.1
5°	2681.5	2696.2	2696.2	2692.5	2670.4	2666.8	2655.8	2648.4	2652.1	2637.4	2648.4
7.5°	2637.4	2648.4	2633.7	2630.0	2622.7	2608.0	2604.3	2571.3	2574.9	2574.9	2582.3
10°	2630.0	2626.4	2604.3	2586.0	2563.9	2560.2	2549.2	2541.9	2541.9	2538.2	2549.2
12.5°	2630.0	2611.7	2608.0	2567.6	2530.9	2545.6	2516.2	2497.8	2523.5	2530.9	2545.6
15°	2626.4	2644.7	2582.3	2563.9	2538.2	2541.9	2516.2	2497.8	2512.5	2519.8	2530.9
17.5°	2648.4	2637.4	2619.0	2582.3	2571.3	2556.6	2523.5	2508.8	2508.8	2527.2	2530.9
20°	2707.2	2677.8	2641.1	2622.7	2633.7	2615.3	2574.9	2519.8	2534.5	2549.2	2560.2
22.5°	2762.3	2740.2	2714.5	2703.5	2766.0	2736.6	2666.8	2604.3	2582.3	2608.0	2626.4
25°	2868.8	2868.8	2821.0	2835.7	2905.5	2909.2	2828.4	2718.2	2703.5	2714.5	2721.9
27.5°	3085.5	3096.5	3056.1	3070.8	3100.2	3125.9	3056.1	2964.3	2931.2	2927.6	2938.6
30°	3320.6	3342.6	3339.0	3401.4	3485.9	3500.6	3397.7	3247.1	3148.0	3129.6	3144.3
32.5°	3629.2	3640.2	3632.8	3706.3	3934.0	4040.6	3772.4	3559.4	3427.1	3460.2	3427.1
35°	4209.5	4198.5	4117.7	4132.4	4319.7	4396.9	4139.7	4003.8	3941.4	4007.5	3992.8
37.5°	4709.1	4668.7	4602.6	4698.1	4892.8	4962.5	4694.4	4455.6	4341.8	4452.0	4499.7
40°	5131.5	5028.7	4936.8	5032.3	5293.1	5388.6	4995.6	4800.9	4756.8	4837.7	4940.5
42.5°	5487.8	5421.7	5300.5	5307.8	5480.5	5524.6	5208.7	5094.8	5050.7	5179.3	5230.7
45°	5741.3	5678.8	5565.0	5557.6	5689.9	5660.5	5377.6	5300.5	5326.2	5410.7	5436.4
47.5°	5869.8	5902.9	5836.8	5855.1	5924.9	5855.1	5631.1	5631.1	5572.3	5623.7	5598.0
50°	6240.8	6138.0	6222.5	6222.5	6295.9	6303.3	6079.2	5998.4	5840.5	5752.3	5752.3
52.5°	6674.3	6681.6	6714.7	6835.9	6960.8	7067.3	6747.7	6402.5	6138.0	6024.1	6009.4
55°	7030.6	7104.0	7236.3	7464.0	7824.0	7970.9	7419.9	6802.8	6479.6	6303.3	6266.5
56°	7225.3	7155.5	7383.2	7695.4	8165.6	8356.6	7530.1	6883.7	6527.3	6329.0	6325.3
57.5°	7037.9	7115.1	7273.0	7765.2	8341.9	8591.7	7570.6	6846.9	6336.3	6134.3	6152.7
60°	5557.6	5631.1	5844.1	6395.1	7298.7	7493.4	6406.1	5645.8	5190.3	4900.1	4903.8
62.5°	3144.3	3199.4	3364.7	3875.3	4437.3	4624.6	3992.8	3485.9	3170.0	3008.4	2957.0
65°	1157.1	1135.0	1160.7	1421.5	1766.8	1924.8	1660.3	1403.2	1237.9	1179.1	1157.1
67.5°	433.4	400.4	374.7	400.4	503.2	532.6	488.5	407.7	382.0	393.0	400.4
70°	268.1	253.5	202.0	191.0	187.3	183.7	194.7	205.7	235.1	275.5	282.8
72.5°	187.3	176.3	143.3	135.9	128.6	124.9	143.3	157.9	183.7	213.0	216.7
75°	73.5	77.1	73.5	80.8	84.5	88.2	102.9	113.9	124.9	124.9	121.2
77.5°	14.7	14.7	22.0	29.4	36.7	47.8	69.8	80.8	84.5	80.8	69.8
80°	0.0	0.0	7.3	14.7	29.4	40.4	62.4	69.8	77.1	69.8	55.1
82.5°	0.0	0.0	7.3	18.4	29.4	36.7	58.8	73.5	84.5	77.1	58.8
85°	0.0	0.0	7.3	14.7	22.0	25.7	25.7	18.4	18.4	11.0	7.3
87.5°	0.0	0.0	0.0	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)