

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: P531107

Luminaire Tested: **GALN-SA6B-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531107
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-SA6B-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA 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: 14886 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

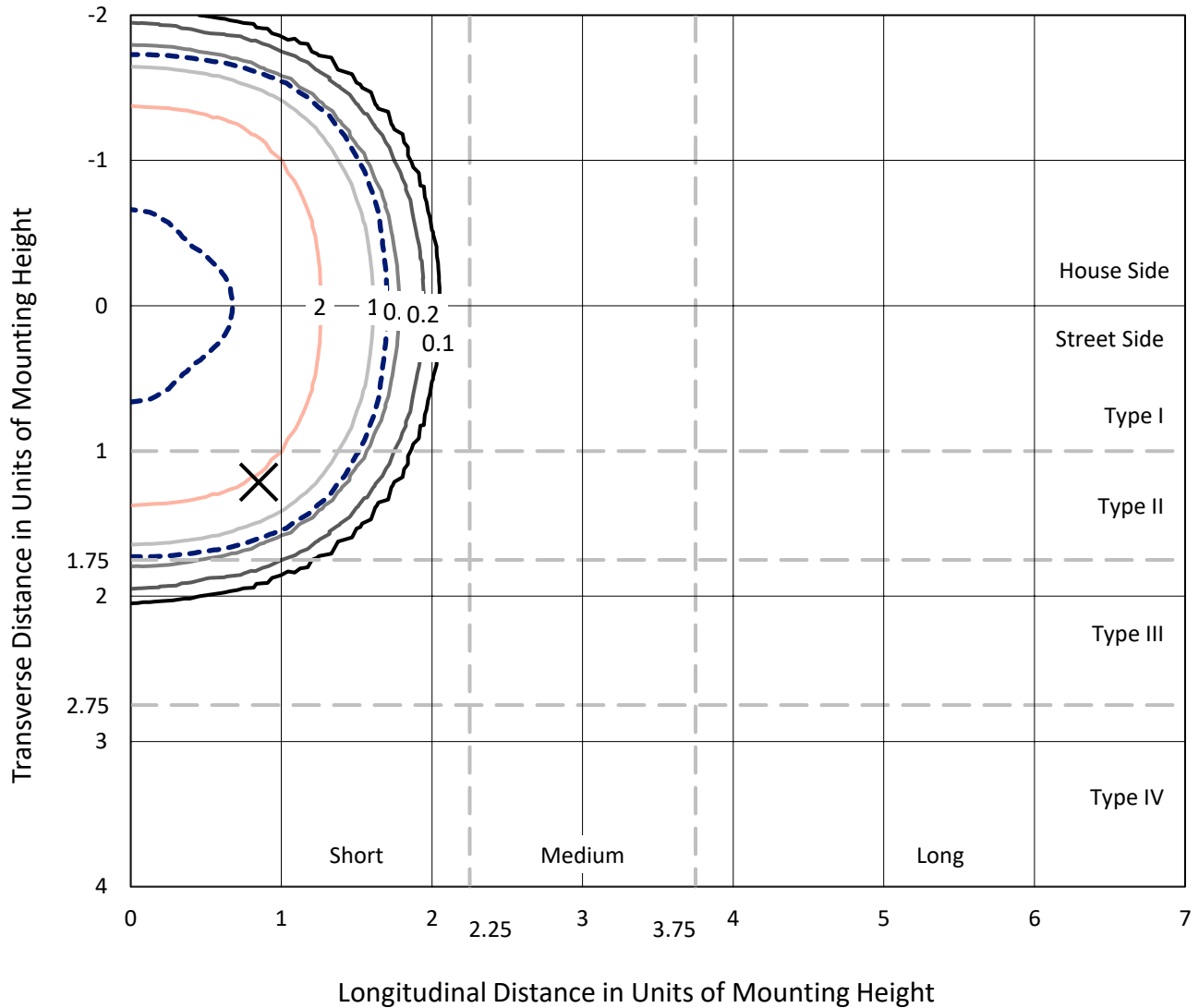
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

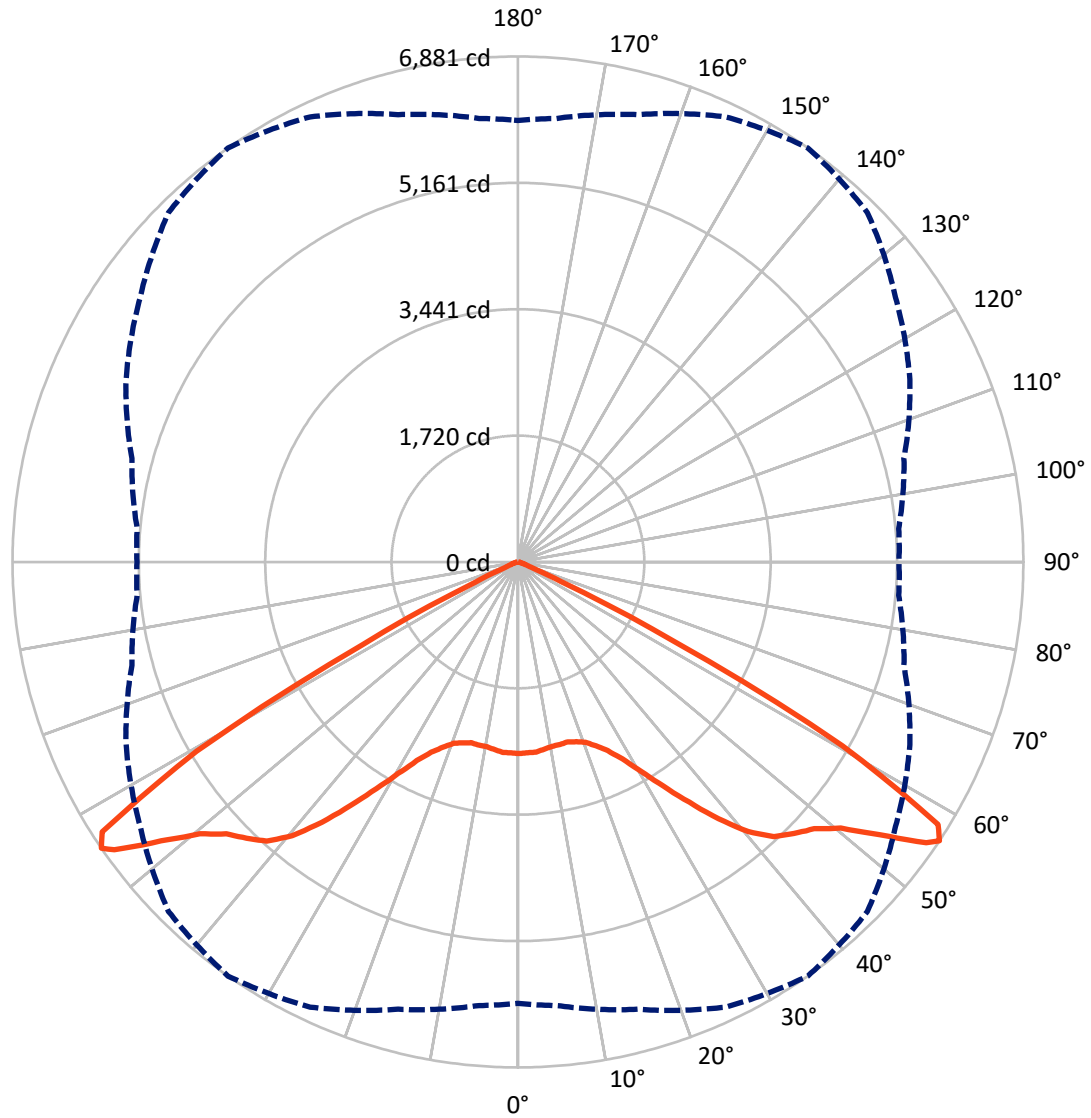
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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
House Side	Lumens	7443.0	0.0	7443.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7443.0	0.0	7443.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14886.0	0.0	14886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	1.6
10°-20°	715.7	4.8
20°-30°	1296.0	8.7
30°-40°	2403.3	16.1
40°-50°	3944.9	26.5
50°-60°	5082.2	34.1
60°-70°	1120.1	7.5
70°-80°	65.0	0.4
80°-90°	13.7	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°	14886.0	100.0
0°-180°	14886.0	100.0

Coefficient of Utilization

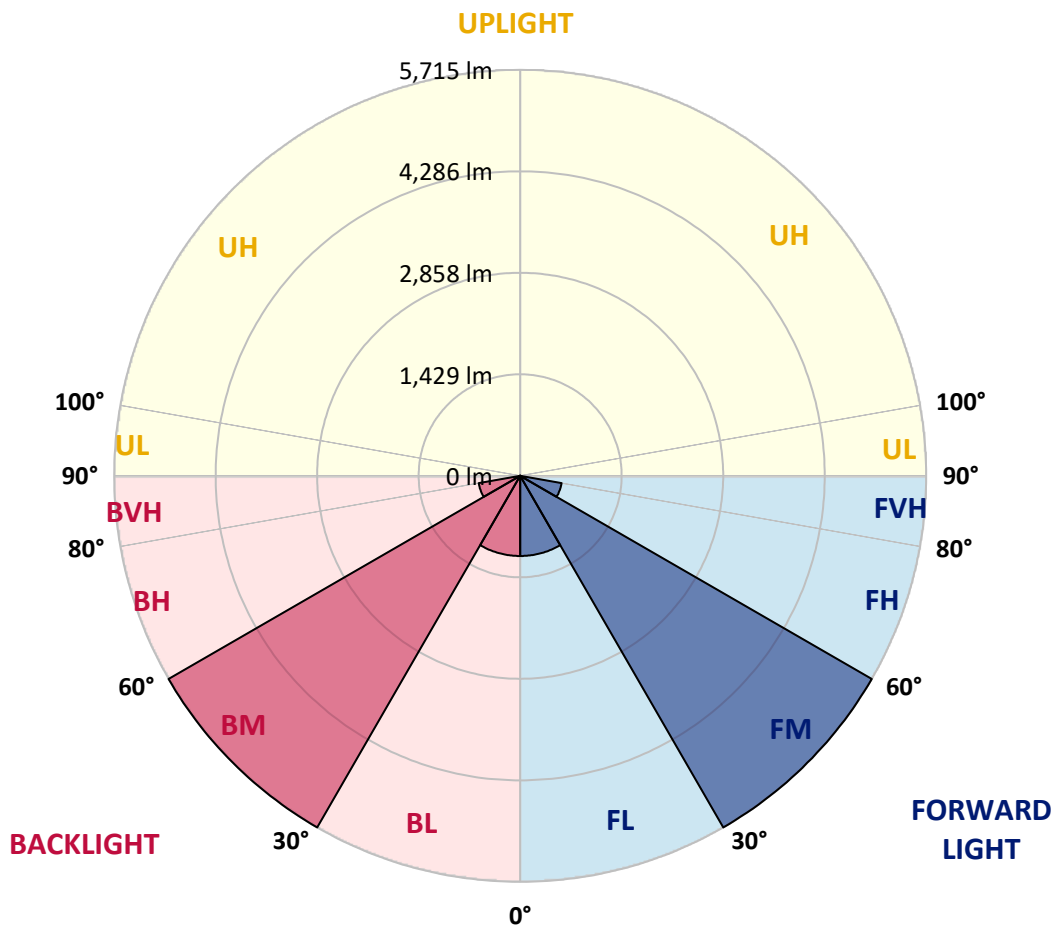


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.4	7.6			
FM (30°-60°)	5715.2	38.4			
FH (60°-80°)	592.5	4.0			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	1128.4	7.6	B3/2500		
BM (30°-60°)	5715.2	38.4	B4/8500		
BH (60°-80°)	592.5	4.0	B2/1000		G0/660
BVH (80°-90°)	6.8	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°	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3
2.5°	2613.7	2613.7	2616.4	2619.1	2600.3	2592.2	2594.9	2589.5	2586.8	2594.9	2594.9
5°	2605.6	2605.6	2597.6	2600.3	2600.3	2576.0	2576.0	2581.4	2581.4	2565.2	2559.8
7.5°	2584.1	2578.7	2567.9	2581.4	2573.3	2573.3	2554.4	2540.9	2535.5	2546.3	2535.5
10°	2538.2	2540.9	2551.7	2557.1	2551.7	2567.9	2535.5	2516.6	2497.8	2489.7	2489.7
12.5°	2516.6	2532.8	2516.6	2530.1	2549.0	2535.5	2516.6	2503.2	2476.2	2465.4	2465.4
15°	2513.9	2524.7	2530.1	2549.0	2540.9	2546.3	2508.5	2492.4	2451.9	2433.0	2424.9
17.5°	2511.2	2524.7	2532.8	2567.9	2573.3	2576.0	2546.3	2497.8	2462.7	2443.8	2424.9
20°	2540.9	2546.3	2562.5	2597.6	2619.1	2656.9	2603.0	2551.7	2476.2	2454.6	2446.5
22.5°	2578.7	2605.6	2621.8	2659.6	2716.2	2748.6	2678.5	2613.7	2535.5	2508.5	2476.2
25°	2700.1	2694.7	2721.6	2799.9	2845.7	2870.0	2813.3	2718.9	2616.4	2584.1	2589.5
27.5°	2851.1	2856.5	2880.8	2967.1	3034.5	3072.3	3004.9	2880.8	2781.0	2727.0	2721.6
30°	3048.0	3042.6	3069.6	3185.6	3307.0	3363.6	3244.9	3099.3	3002.2	2932.0	2948.2
32.5°	3255.7	3258.4	3333.9	3439.1	3636.0	3746.6	3555.1	3377.1	3231.4	3182.9	3158.6
35°	3563.2	3576.7	3636.0	3797.9	4016.4	4159.3	3948.9	3735.8	3568.6	3479.6	3490.4
37.5°	3943.5	3930.1	4029.9	4205.2	4434.5	4539.7	4361.6	4118.9	3948.9	3889.6	3927.4
40°	4348.1	4361.6	4412.9	4572.0	4828.3	4898.4	4634.1	4501.9	4353.5	4323.9	4369.7
42.5°	4752.7	4744.7	4782.4	4925.4	5111.5	5062.9	4906.5	4828.3	4723.1	4663.7	4725.8
45°	5049.5	5036.0	5106.1	5203.2	5270.6	5178.9	5108.8	5081.8	5027.9	4963.1	5019.8
47.5°	5338.1	5327.3	5394.7	5421.7	5427.1	5305.7	5319.2	5367.7	5232.9	5098.0	5162.7
50°	5583.5	5564.7	5648.3	5707.6	5694.1	5499.9	5548.5	5499.9	5289.5	5130.4	5106.1
52.5°	5993.5	6001.6	6090.6	6198.5	6166.2	6004.3	5934.2	5713.0	5443.3	5300.3	5216.7
55°	6252.5	6212.0	6365.8	6708.3	6746.1	6578.9	6268.7	5942.3	5537.7	5362.4	5340.8
56°	6009.7	6061.0	6303.7	6686.8	6881.0	6727.2	6276.8	5885.6	5440.6	5203.2	5187.0
57.5°	5392.0	5365.0	5694.1	6217.4	6746.1	6681.4	6055.6	5481.0	4963.1	4696.1	4663.7
60°	3355.5	3433.7	3722.4	4369.7	5076.4	5108.8	4488.4	3994.8	3390.6	3153.2	3209.9
62.5°	1313.6	1246.2	1426.9	1909.7	2395.3	2503.2	2268.5	1885.5	1548.3	1313.6	1297.4
65°	304.8	296.7	334.5	461.2	644.7	747.2	709.4	509.8	374.9	356.1	329.1
67.5°	172.6	172.6	164.5	164.5	180.7	191.5	183.4	180.7	188.8	196.9	194.2
70°	121.4	118.7	113.3	116.0	110.6	110.6	118.7	132.2	143.0	143.0	145.7
72.5°	72.8	72.8	72.8	80.9	80.9	80.9	89.0	99.8	102.5	99.8	97.1
75°	32.4	32.4	37.8	45.9	51.2	53.9	62.0	67.4	72.8	67.4	62.0
77.5°	8.1	8.1	13.5	18.9	24.3	29.7	40.5	48.6	51.2	48.6	40.5
80°	2.7	2.7	5.4	13.5	24.3	29.7	40.5	43.2	45.9	40.5	32.4
82.5°	2.7	2.7	5.4	13.5	18.9	24.3	32.4	37.8	40.5	35.1	32.4
85°	0.0	2.7	5.4	10.8	16.2	21.6	21.6	16.2	13.5	8.1	10.8
87.5°	0.0	0.0	2.7	2.7	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)