

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: P531579

Luminaire Tested: **GALN-SA6D-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531579
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-SA6D-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA 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: 17590 lumens
Efficiency: N/A
Efficacy: 47.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

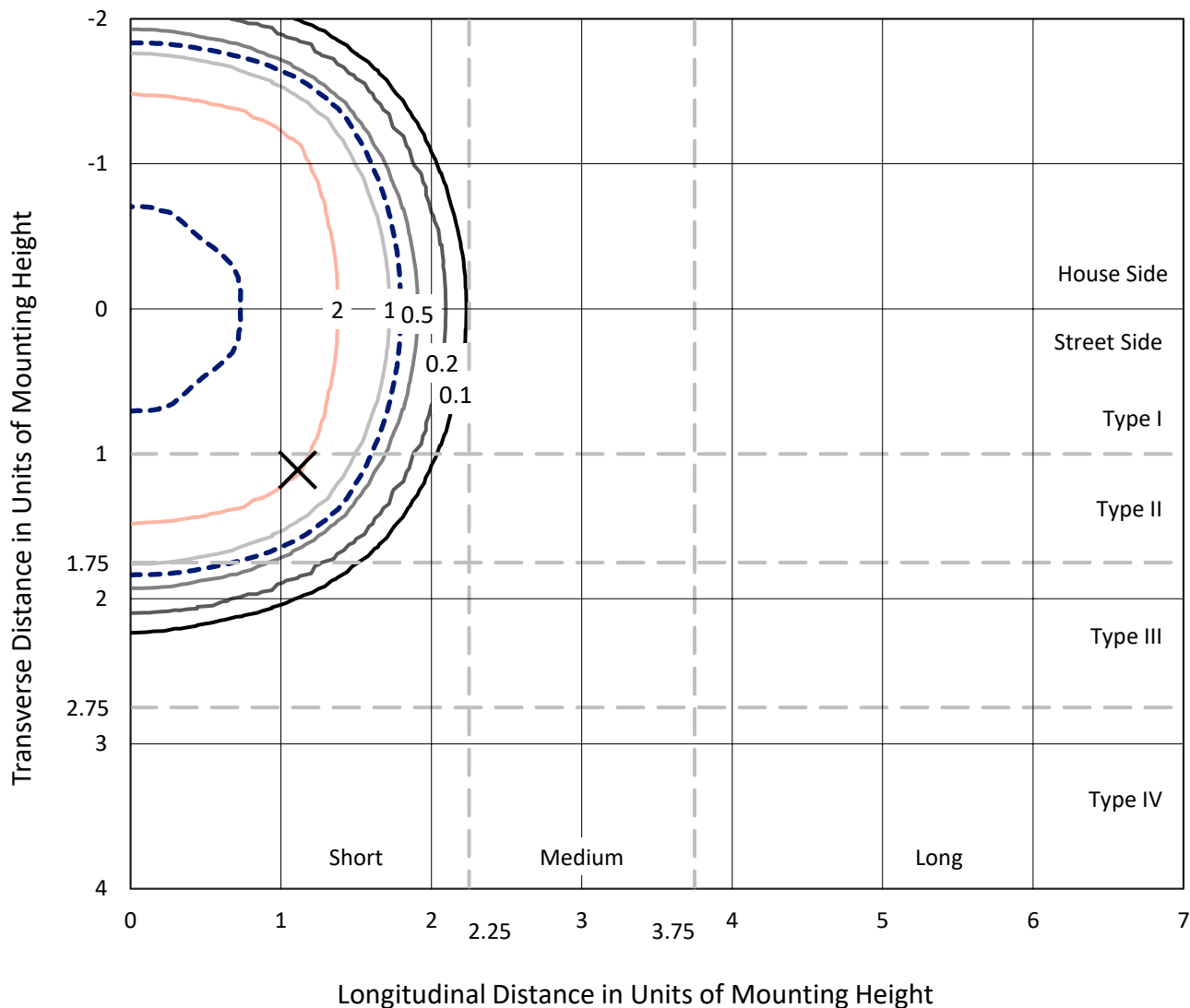
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

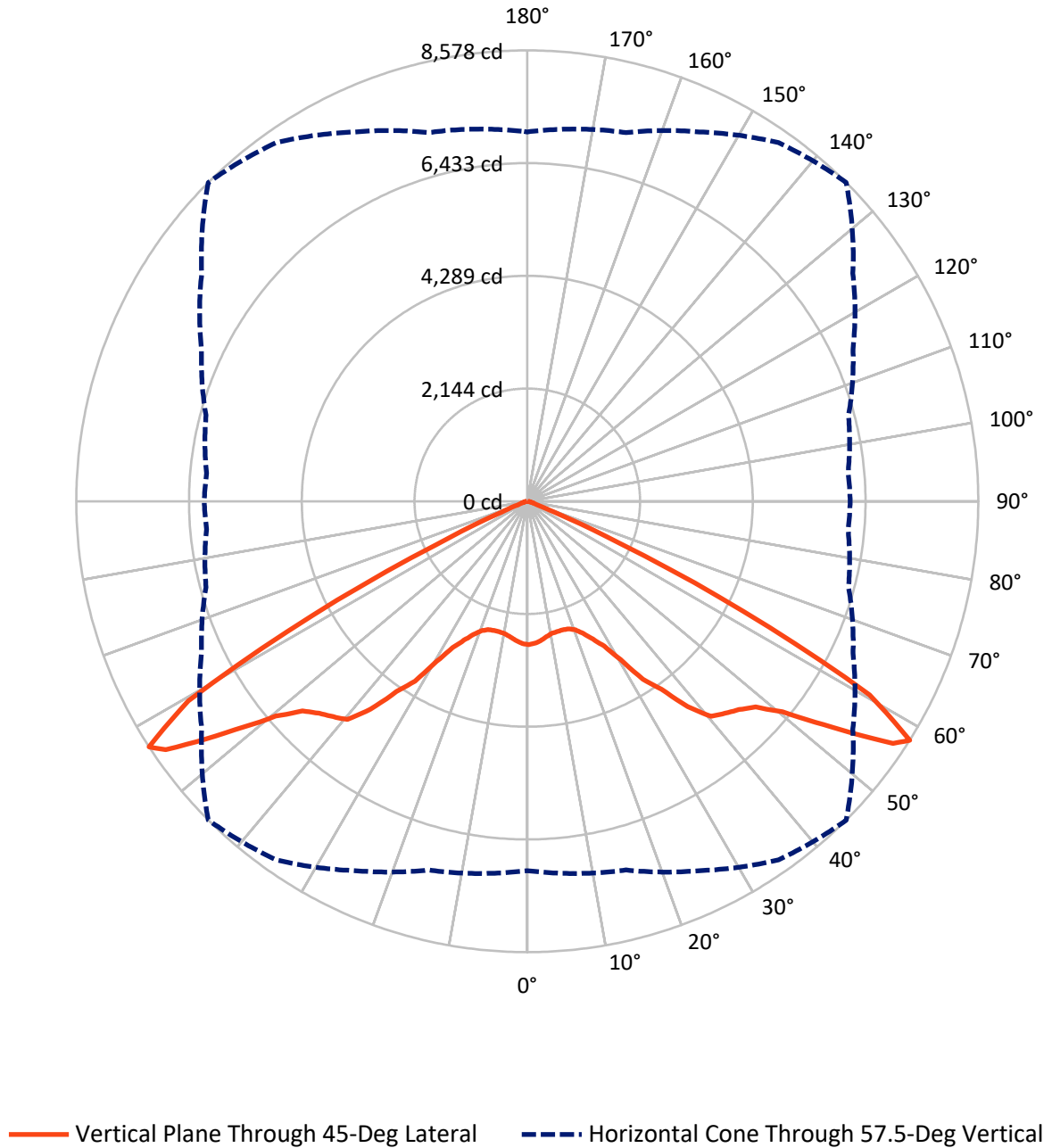
✕ Max cd
 - - - 1/2 Max cd



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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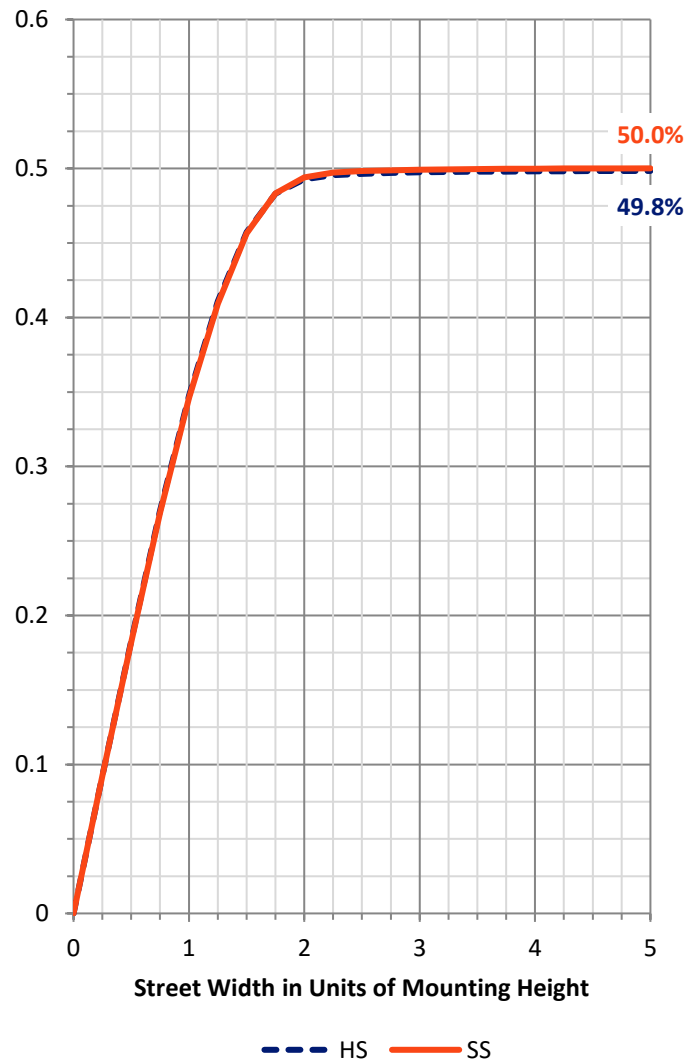
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8795.0	0.0	8795.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8795.0	0.0	8795.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17590.0	0.0	17590.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.7	1.4
10°-20°	724.7	4.1
20°-30°	1337.7	7.6
30°-40°	2630.8	15.0
40°-50°	4284.8	24.4
50°-60°	6110.7	34.7
60°-70°	2115.7	12.0
70°-80°	113.5	0.6
80°-90°	21.3	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°	17590.0	100.0
0°-180°	17590.0	100.0

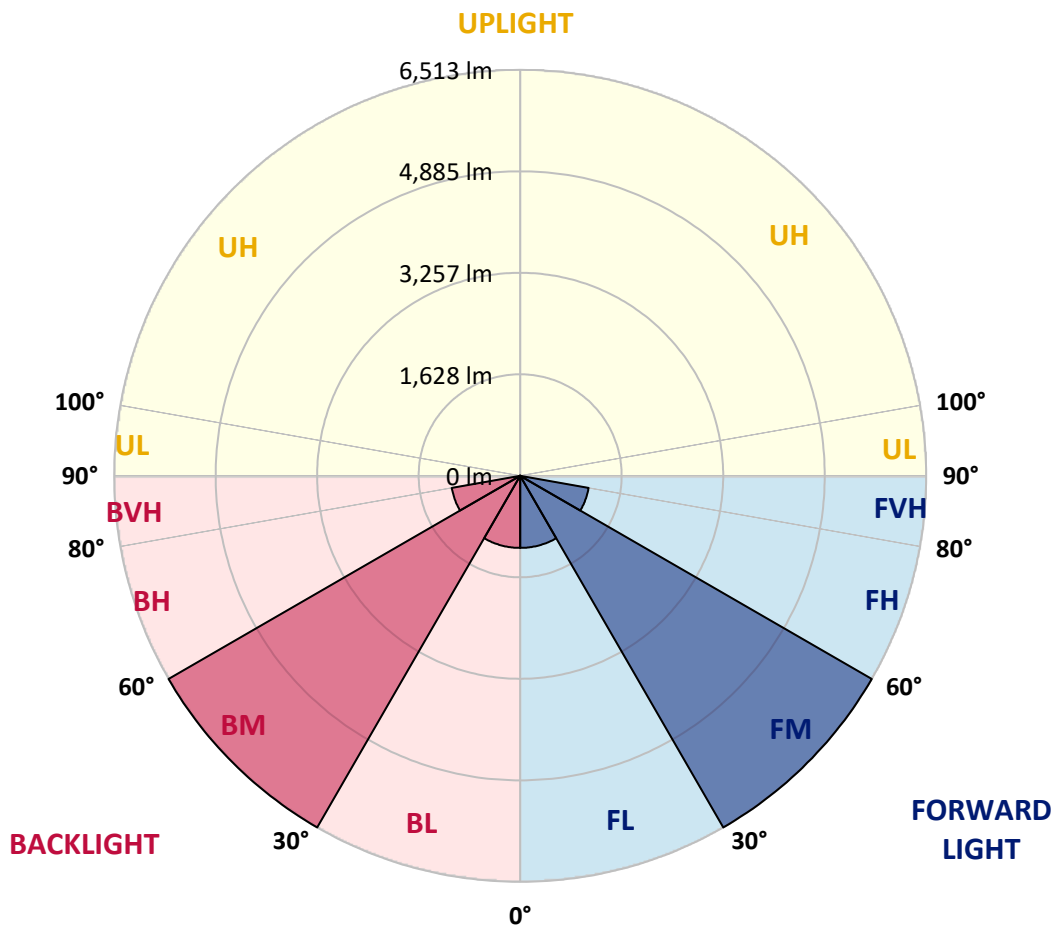


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.6	6.6			
FM (30°-60°)	6513.2	37.0			
FH (60°-80°)	1114.6	6.3			G1/1800
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	1156.6	6.6	B3/2500		
BM (30°-60°)	6513.2	37.0	B4/8500		
BH (60°-80°)	1114.6	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°	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4
2.5°	2721.1	2735.7	2717.4	2710.1	2706.4	2706.4	2695.4	2695.4	2691.7	2695.4	2680.7
5°	2677.1	2691.7	2691.7	2688.1	2666.1	2662.4	2651.4	2644.0	2647.7	2633.0	2644.0
7.5°	2633.0	2644.0	2629.4	2625.7	2618.4	2603.7	2600.0	2567.0	2570.7	2570.7	2578.0
10°	2625.7	2622.0	2600.0	2581.7	2559.7	2556.0	2545.0	2537.7	2537.7	2534.0	2545.0
12.5°	2625.7	2607.4	2603.7	2563.4	2526.7	2541.4	2512.0	2493.7	2519.4	2526.7	2541.4
15°	2622.0	2640.4	2578.0	2559.7	2534.0	2537.7	2512.0	2493.7	2508.4	2515.7	2526.7
17.5°	2644.0	2633.0	2614.7	2578.0	2567.0	2552.4	2519.4	2504.7	2504.7	2523.0	2526.7
20°	2702.7	2673.4	2636.7	2618.4	2629.4	2611.0	2570.7	2515.7	2530.4	2545.0	2556.0
22.5°	2757.7	2735.7	2710.1	2699.1	2761.4	2732.1	2662.4	2600.0	2578.0	2603.7	2622.0
25°	2864.1	2864.1	2816.4	2831.1	2900.8	2904.4	2823.7	2713.7	2699.1	2710.1	2717.4
27.5°	3080.4	3091.4	3051.1	3065.8	3095.1	3120.8	3051.1	2959.4	2926.4	2922.8	2933.8
30°	3315.1	3337.1	3333.5	3395.8	3480.2	3494.8	3392.2	3241.8	3142.8	3124.5	3139.1
32.5°	3623.2	3634.2	3626.9	3700.2	3927.6	4033.9	3766.2	3553.5	3421.5	3454.5	3421.5
35°	4202.6	4191.6	4110.9	4125.6	4312.6	4389.6	4132.9	3997.2	3934.9	4000.9	3986.2
37.5°	4701.3	4661.0	4595.0	4690.3	4884.7	4954.4	4686.7	4448.3	4334.6	4444.6	4492.3
40°	5123.1	5020.4	4928.7	5024.1	5284.4	5379.8	4987.4	4793.0	4749.0	4829.7	4932.4
42.5°	5478.8	5412.8	5291.8	5299.1	5471.5	5515.5	5200.1	5086.4	5042.4	5170.7	5222.1
45°	5731.8	5669.5	5555.8	5548.5	5680.5	5651.1	5368.8	5291.8	5317.4	5401.8	5427.4
47.5°	5860.2	5893.2	5827.2	5845.5	5915.2	5845.5	5621.8	5621.8	5563.1	5614.5	5588.8
50°	6230.6	6127.9	6212.2	6212.2	6285.6	6292.9	6069.2	5988.5	5830.8	5742.8	5742.8
52.5°	6663.3	6670.6	6703.6	6824.7	6949.3	7055.7	6736.6	6391.9	6127.9	6014.2	5999.5
55°	7019.0	7092.4	7224.4	7451.7	7811.1	7957.8	7407.7	6791.6	6468.9	6292.9	6256.2
56°	7213.4	7143.7	7371.1	7682.8	8152.2	8342.9	7517.8	6872.3	6516.6	6318.6	6314.9
57.5°	7026.3	7103.4	7261.0	7752.5	8328.2	8577.6	7558.1	6835.7	6325.9	6124.2	6142.6
60°	5548.5	5621.8	5834.5	6384.6	7286.7	7481.1	6395.6	5636.5	5181.7	4892.0	4895.7
62.5°	3139.1	3194.1	3359.2	3868.9	4430.0	4617.0	3986.2	3480.2	3164.8	3003.4	2952.1
65°	1155.2	1133.2	1158.8	1419.2	1763.9	1921.6	1657.6	1400.9	1235.8	1177.2	1155.2
67.5°	432.7	399.7	374.1	399.7	502.4	531.7	487.7	407.1	381.4	392.4	399.7
70°	267.7	253.0	201.7	190.7	187.0	183.4	194.4	205.4	234.7	275.0	282.4
72.5°	187.0	176.0	143.0	135.7	128.4	124.7	143.0	157.7	183.4	212.7	216.4
75°	73.3	77.0	73.3	80.7	84.3	88.0	102.7	113.7	124.7	124.7	121.0
77.5°	14.7	14.7	22.0	29.3	36.7	47.7	69.7	80.7	84.3	80.7	69.7
80°	0.0	0.0	7.3	14.7	29.3	40.3	62.3	69.7	77.0	69.7	55.0
82.5°	0.0	0.0	7.3	18.3	29.3	36.7	58.7	73.3	84.3	77.0	58.7
85°	0.0	0.0	7.3	14.7	22.0	25.7	25.7	18.3	18.3	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)