

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: P528536

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
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-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13896 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

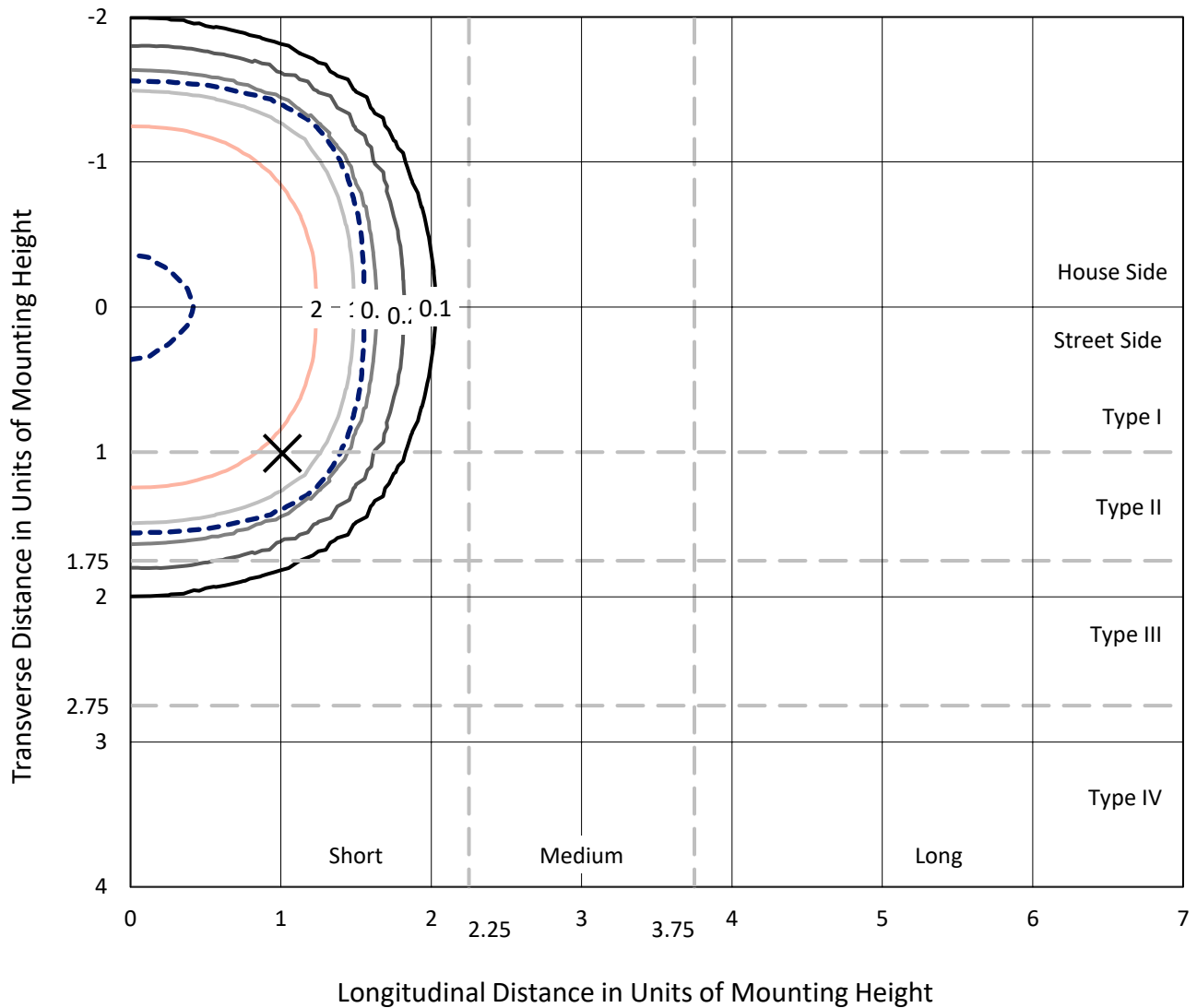
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

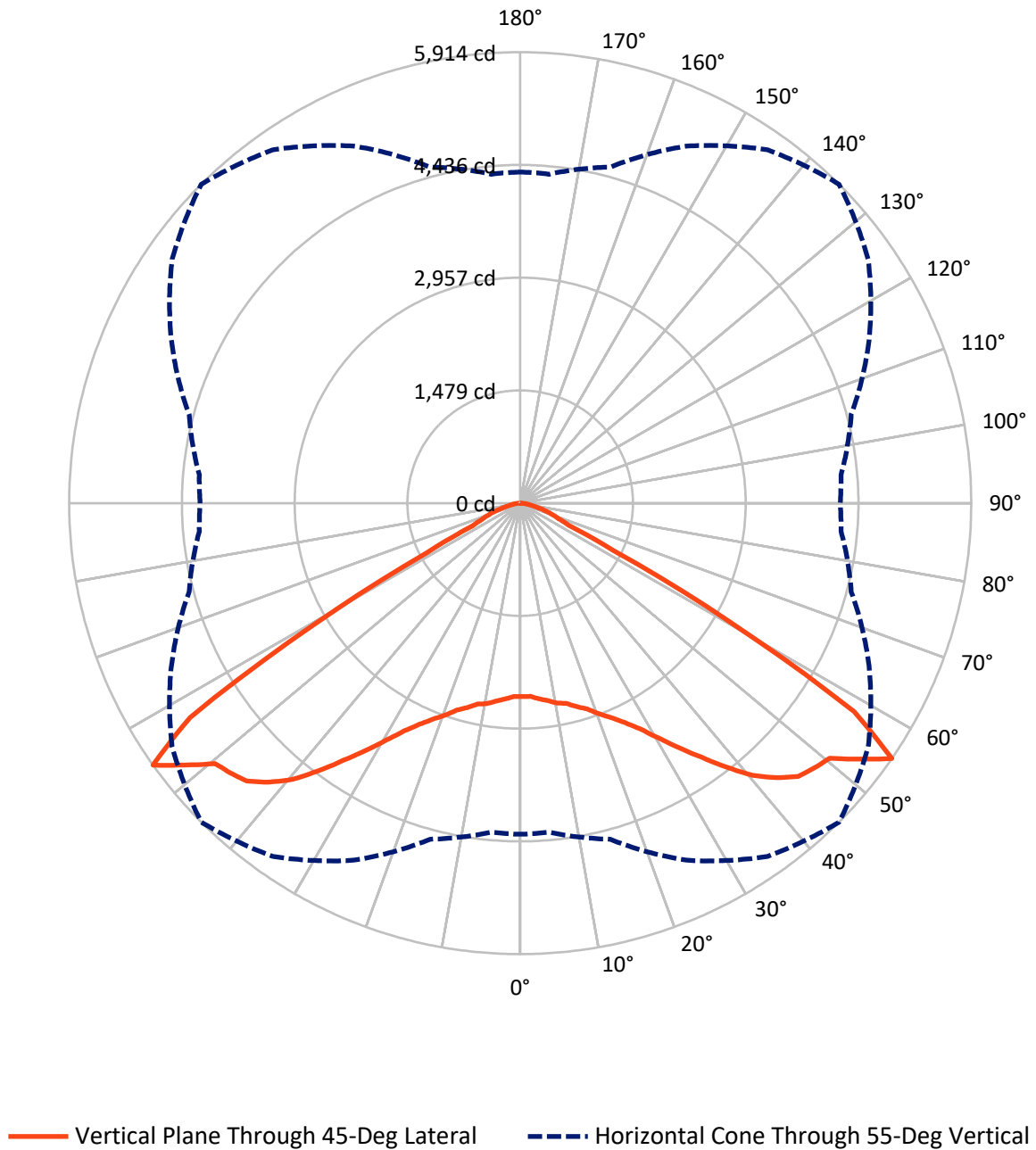
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	6948.0	0.0	6948.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6948.0	0.0	6948.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13896.0	0.0	13896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	1.8
10°-20°	785.4	5.7
20°-30°	1464.4	10.5
30°-40°	2451.9	17.6
40°-50°	3815.4	27.5
50°-60°	3961.6	28.5
60°-70°	840.1	6.0
70°-80°	276.7	2.0
80°-90°	52.7	0.4
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°	13896.0	100.0
0°-180°	13896.0	100.0

Coefficient of Utilization

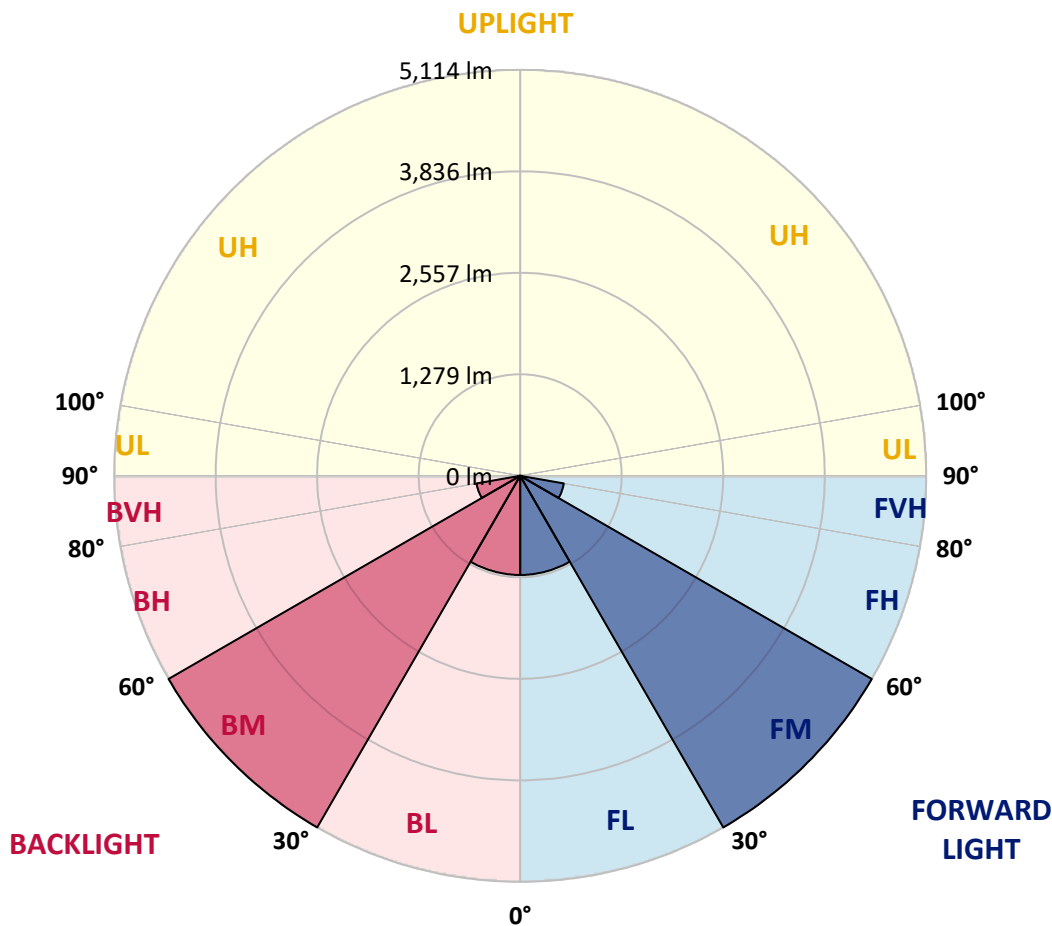


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.8	9.0			
FM (30°-60°)	5114.4	36.8			
FH (60°-80°)	558.4	4.0			G0/660
FVH (80°-90°)	26.3	0.2			G1/100
BL (0°-30°)	1248.8	9.0	B3/2500		
BM (30°-60°)	5114.4	36.8	B4/8500		
BH (60°-80°)	558.4	4.0	B2/1000		G0/660
BVH (80°-90°)	26.3	0.2			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°	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2
2.5°	2567.4	2555.7	2535.5	2550.6	2562.4	2537.2	2547.3	2552.3	2549.0	2535.5	2540.6
5°	2604.4	2597.7	2580.9	2592.6	2577.5	2577.5	2567.4	2554.0	2574.1	2570.8	2579.2
7.5°	2604.4	2596.0	2629.6	2607.7	2614.4	2614.4	2597.7	2584.2	2594.3	2579.2	2570.8
10°	2656.4	2668.2	2653.1	2658.1	2654.7	2666.5	2641.3	2632.9	2624.5	2619.5	2609.4
12.5°	2718.6	2710.2	2715.2	2711.8	2723.6	2693.4	2678.3	2659.8	2674.9	2653.1	2668.2
15°	2768.9	2763.9	2768.9	2782.4	2770.6	2768.9	2742.1	2723.6	2700.1	2705.1	2681.6
17.5°	2837.8	2832.7	2834.4	2846.2	2844.5	2836.1	2815.9	2780.7	2772.3	2758.9	2743.7
20°	2940.2	2931.8	2928.4	2933.5	2941.9	2948.6	2908.3	2894.9	2866.3	2844.5	2819.3
22.5°	3027.5	3024.2	3037.6	3015.8	3034.2	3054.4	3015.8	3009.0	2938.5	2926.8	2899.9
25°	3148.4	3143.4	3135.0	3166.9	3188.7	3187.0	3150.1	3113.2	3059.4	3046.0	3046.0
27.5°	3276.0	3247.5	3291.1	3299.5	3338.2	3349.9	3318.0	3264.3	3213.9	3185.4	3192.1
30°	3435.5	3408.7	3418.8	3479.2	3529.6	3573.2	3492.6	3413.7	3343.2	3292.8	3284.4
32.5°	3595.1	3568.2	3598.4	3657.2	3757.9	3823.4	3744.5	3606.8	3524.5	3450.7	3465.8
35°	3724.4	3744.5	3793.2	3882.2	3986.3	4092.1	3966.2	3860.4	3742.8	3660.6	3672.3
37.5°	3932.6	3994.7	4033.3	4135.8	4283.5	4392.7	4261.7	4124.0	3998.1	3890.6	3853.7
40°	4204.6	4246.6	4290.2	4411.1	4585.8	4694.9	4570.7	4391.0	4266.7	4155.9	4150.9
42.5°	4503.5	4543.8	4589.1	4736.9	4841.0	4923.3	4809.1	4713.4	4575.7	4488.4	4483.3
45°	4851.1	4822.5	4872.9	4970.3	5057.6	5111.3	5037.5	4990.4	4891.4	4810.8	4802.4
47.5°	5082.8	5057.6	5148.3	5235.6	5249.0	5190.3	5205.4	5249.0	5144.9	5012.3	5054.3
50°	5217.1	5217.1	5277.6	5358.2	5333.0	5257.4	5376.7	5380.0	5275.9	5158.4	5158.4
52.5°	4983.7	5035.8	5207.1	5470.7	5554.6	5576.5	5549.6	5435.4	5163.4	4923.3	4911.5
55°	4342.3	4330.5	4562.3	5166.8	5655.4	5914.0	5571.4	5045.9	4493.4	4223.1	4196.2
57.5°	2824.3	2837.8	3183.7	3799.9	4681.5	5163.4	4585.8	3846.9	3183.7	2810.9	2846.2
60°	1271.1	1316.5	1526.4	1986.4	2743.7	3136.7	2750.5	2087.2	1601.9	1390.3	1408.8
62.5°	730.4	738.8	747.2	886.6	1168.7	1381.9	1214.0	937.0	826.1	789.2	789.2
65°	616.2	611.2	612.9	624.6	654.9	698.5	680.1	654.9	658.2	654.9	649.8
67.5°	523.9	530.6	525.6	534.0	535.7	542.4	554.1	564.2	565.9	569.2	565.9
70°	429.9	431.5	434.9	441.6	443.3	448.3	465.1	473.5	478.6	478.6	485.3
72.5°	329.1	327.4	330.8	337.5	345.9	347.6	362.7	374.5	381.2	372.8	374.5
75°	216.6	218.3	223.3	228.4	240.1	251.9	256.9	268.7	270.3	273.7	265.3
77.5°	129.3	132.7	137.7	147.8	157.8	167.9	179.7	188.1	191.4	188.1	178.0
80°	84.0	84.0	90.7	99.1	110.8	119.2	125.9	132.7	137.7	132.7	129.3
82.5°	52.1	52.1	60.4	70.5	78.9	84.0	94.0	102.4	107.5	104.1	99.1
85°	26.9	28.5	35.3	43.7	50.4	53.7	52.1	47.0	42.0	40.3	36.9
87.5°	8.4	8.4	10.1	10.1	8.4	8.4	10.1	8.4	10.1	10.1	10.1
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)