

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: P528846

Luminaire Tested: **GALN-SA4A-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13354 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

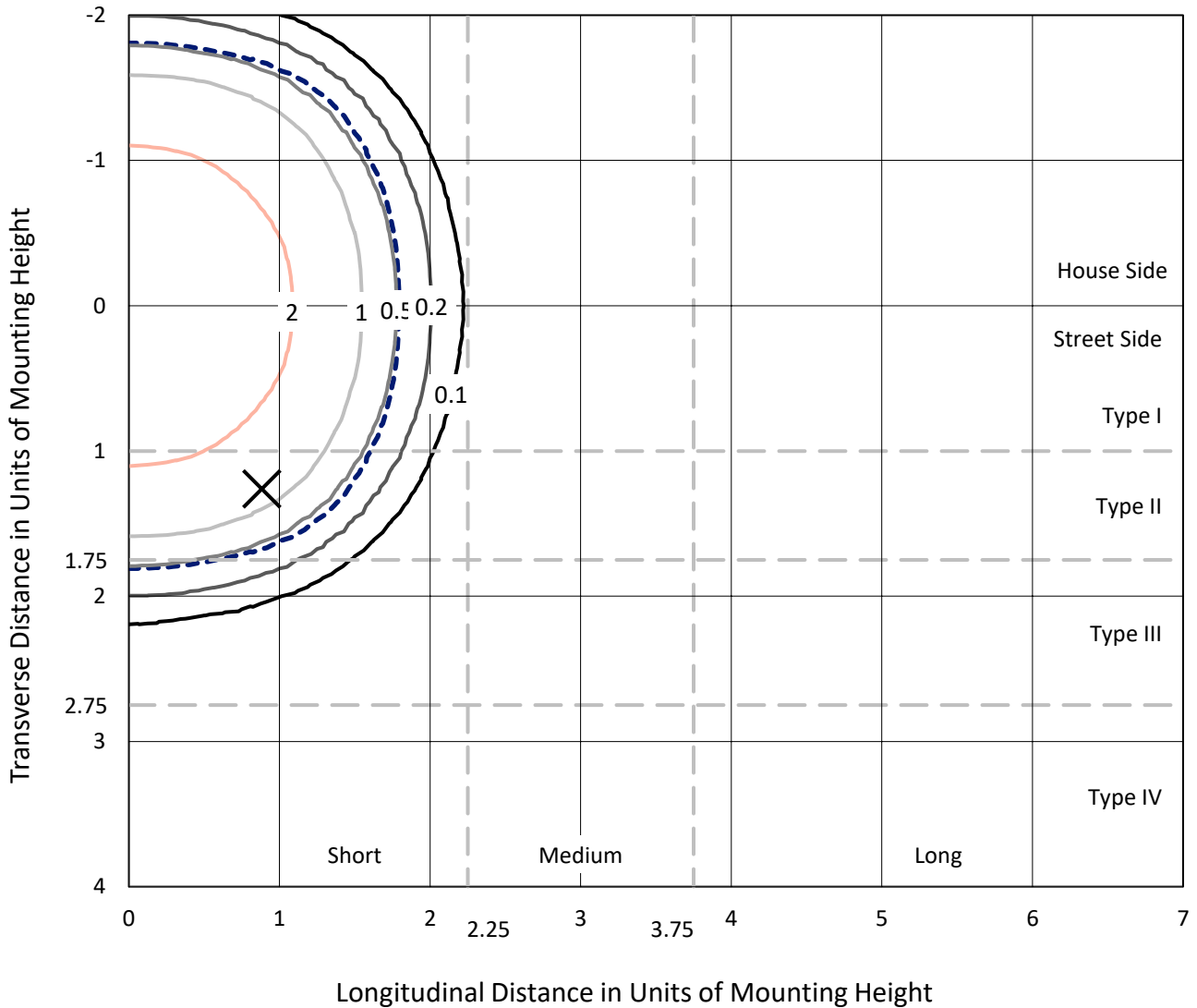
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

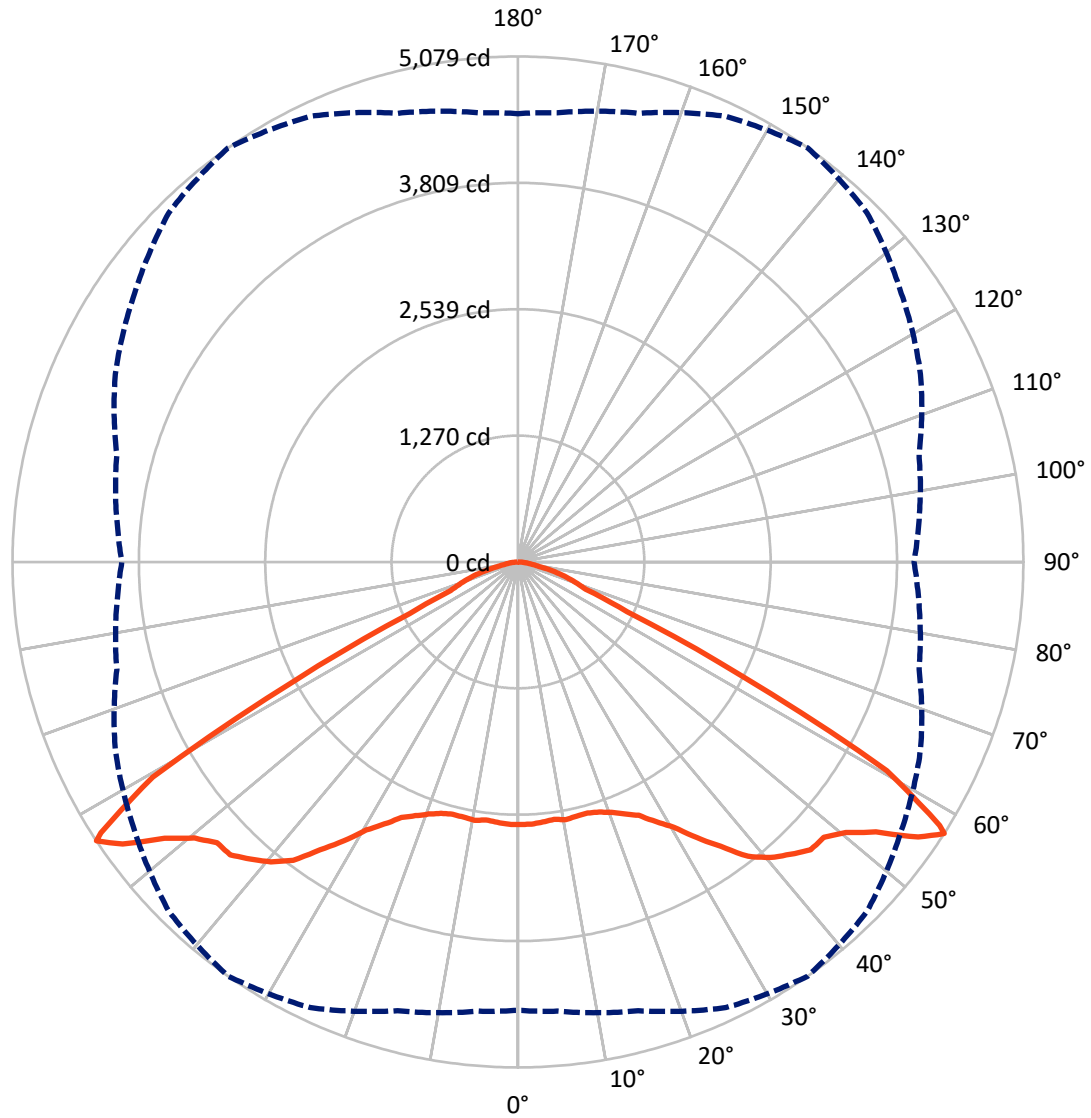
× Max cd
 - - - 1/2 Max cd



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 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6677.0	0.0	6677.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6677.0	0.0	6677.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13354.0	0.0	13354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	1.9
10°-20°	740.5	5.5
20°-30°	1293.3	9.7
30°-40°	2119.1	15.9
40°-50°	3107.1	23.3
50°-60°	3913.6	29.3
60°-70°	1471.9	11.0
70°-80°	391.4	2.9
80°-90°	67.1	0.5
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°	13354.0	100.0
0°-180°	13354.0	100.0

Coefficient of Utilization



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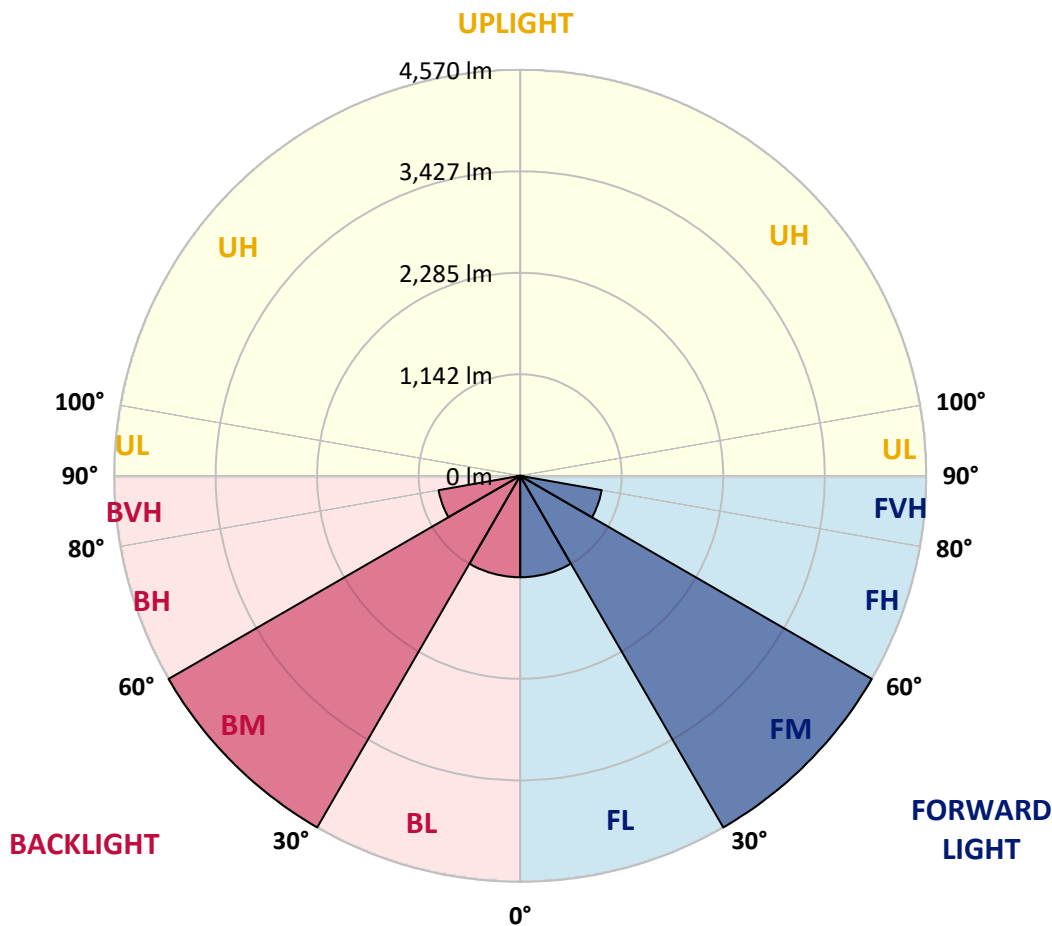
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1141.9	8.6			
FM (30°-60°)	4569.9	34.2			
FH (60°-80°)	931.6	7.0			G1/1800
FVH (80°-90°)	33.6	0.3			G1/100
BL (0°-30°)	1141.9	8.6	B3/2500		
BM (30°-60°)	4569.9	34.2	B3/5000		
BH (60°-80°)	931.6	7.0	B2/1000		G1/1800
BVH (80°-90°)	33.6	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°	2637.3	2637.3	2637.3	2637.3	2637.3	2637.3	2637.3	2637.3	2637.3	2637.3	2637.3
2.5°	2624.2	2650.5	2639.0	2632.4	2637.3	2629.1	2615.9	2630.7	2627.4	2614.3	2609.3
5°	2617.6	2637.3	2624.2	2637.3	2624.2	2647.2	2640.6	2615.9	2645.5	2617.6	2627.4
7.5°	2612.6	2619.2	2622.5	2615.9	2611.0	2639.0	2624.2	2612.6	2596.2	2591.2	2599.5
10°	2601.1	2617.6	2592.9	2625.8	2632.4	2612.6	2612.6	2591.2	2578.1	2569.9	2597.8
12.5°	2630.7	2602.8	2599.5	2615.9	2620.9	2629.1	2606.1	2594.5	2569.9	2573.2	2568.2
15°	2596.2	2607.7	2609.3	2612.6	2617.6	2637.3	2615.9	2591.2	2581.4	2546.8	2550.1
17.5°	2609.3	2597.8	2609.3	2647.2	2640.6	2655.4	2632.4	2594.5	2571.5	2551.8	2578.1
20°	2632.4	2627.4	2632.4	2678.4	2686.7	2699.8	2680.1	2645.5	2601.1	2578.1	2591.2
22.5°	2657.1	2653.8	2657.1	2701.5	2749.2	2765.6	2745.9	2665.3	2642.3	2599.5	2584.7
25°	2701.5	2704.8	2739.3	2788.7	2819.9	2851.2	2815.0	2757.4	2683.4	2657.1	2625.8
27.5°	2800.2	2808.4	2828.2	2900.6	2954.8	2982.8	2931.8	2852.8	2806.8	2752.5	2744.3
30°	2921.9	2921.9	2956.5	3019.0	3093.0	3135.8	3073.3	2979.5	2923.6	2894.0	2875.9
32.5°	3083.2	3065.1	3078.2	3188.5	3303.6	3339.8	3255.9	3140.8	3051.9	3012.4	2999.3
35°	3221.4	3232.9	3262.5	3381.0	3509.3	3593.2	3461.6	3311.9	3221.4	3185.2	3178.6
37.5°	3400.7	3420.4	3435.3	3598.1	3752.8	3784.0	3657.4	3537.3	3427.0	3397.4	3381.0
40°	3654.1	3640.9	3645.8	3765.9	3905.8	3925.5	3800.5	3714.9	3624.5	3606.4	3606.4
42.5°	3863.0	3848.2	3864.7	3909.1	4016.0	4001.2	3932.1	3869.6	3831.8	3812.0	3831.8
45°	3989.7	3986.4	4016.0	4048.9	4124.6	4075.3	4021.0	4030.8	3994.6	3961.7	3960.1
47.5°	4127.9	4106.5	4142.7	4192.1	4134.5	4111.4	4108.2	4129.5	4118.0	4060.4	4042.3
50°	4195.4	4187.1	4244.7	4302.3	4271.0	4218.4	4229.9	4264.5	4116.4	4039.1	3994.6
52.5°	4376.3	4378.0	4488.2	4519.5	4506.3	4429.0	4453.7	4359.9	4185.5	4076.9	4081.8
55°	4661.0	4649.4	4772.8	4865.0	4879.8	4781.1	4662.6	4531.0	4312.2	4201.9	4169.0
57°	4504.7	4531.0	4667.5	4940.6	5078.8	4962.0	4703.7	4463.5	4172.3	4039.1	3979.8
57.5°	4295.7	4338.5	4575.4	4850.2	4994.9	4985.1	4652.7	4338.5	4078.5	3871.2	3876.2
60°	3147.3	3155.6	3369.4	3805.4	4257.9	4267.7	3863.0	3446.8	3157.2	2931.8	2963.1
62.5°	1660.0	1697.9	1783.4	2133.9	2525.4	2620.9	2375.7	2161.8	1911.8	1740.7	1757.1
65°	878.6	873.6	914.8	1013.5	1206.0	1255.3	1222.4	1053.0	965.8	937.8	939.4
67.5°	714.0	722.3	717.3	722.3	735.4	756.8	751.9	758.5	763.4	771.6	770.0
70°	605.4	605.4	608.7	610.4	610.4	620.3	631.8	653.2	654.8	663.0	666.3
72.5°	477.1	473.8	478.8	490.3	491.9	500.2	516.6	529.8	534.7	534.7	524.8
75°	324.1	327.4	334.0	343.9	353.7	368.5	381.7	389.9	393.2	388.3	383.3
77.5°	182.6	185.9	190.8	205.7	217.2	230.3	245.1	253.4	261.6	263.2	253.4
80°	108.6	108.6	116.8	128.3	141.5	154.7	167.8	177.7	181.0	181.0	176.0
82.5°	65.8	67.5	74.0	85.6	97.1	105.3	116.8	125.0	131.6	130.0	126.7
85°	34.5	34.5	41.1	51.0	59.2	67.5	67.5	62.5	59.2	51.0	47.7
87.5°	11.5	9.9	13.2	13.2	11.5	13.2	13.2	14.8	14.8	14.8	14.8
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)