

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: P456688

Luminaire Tested: **GALN-SA8A-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32323 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

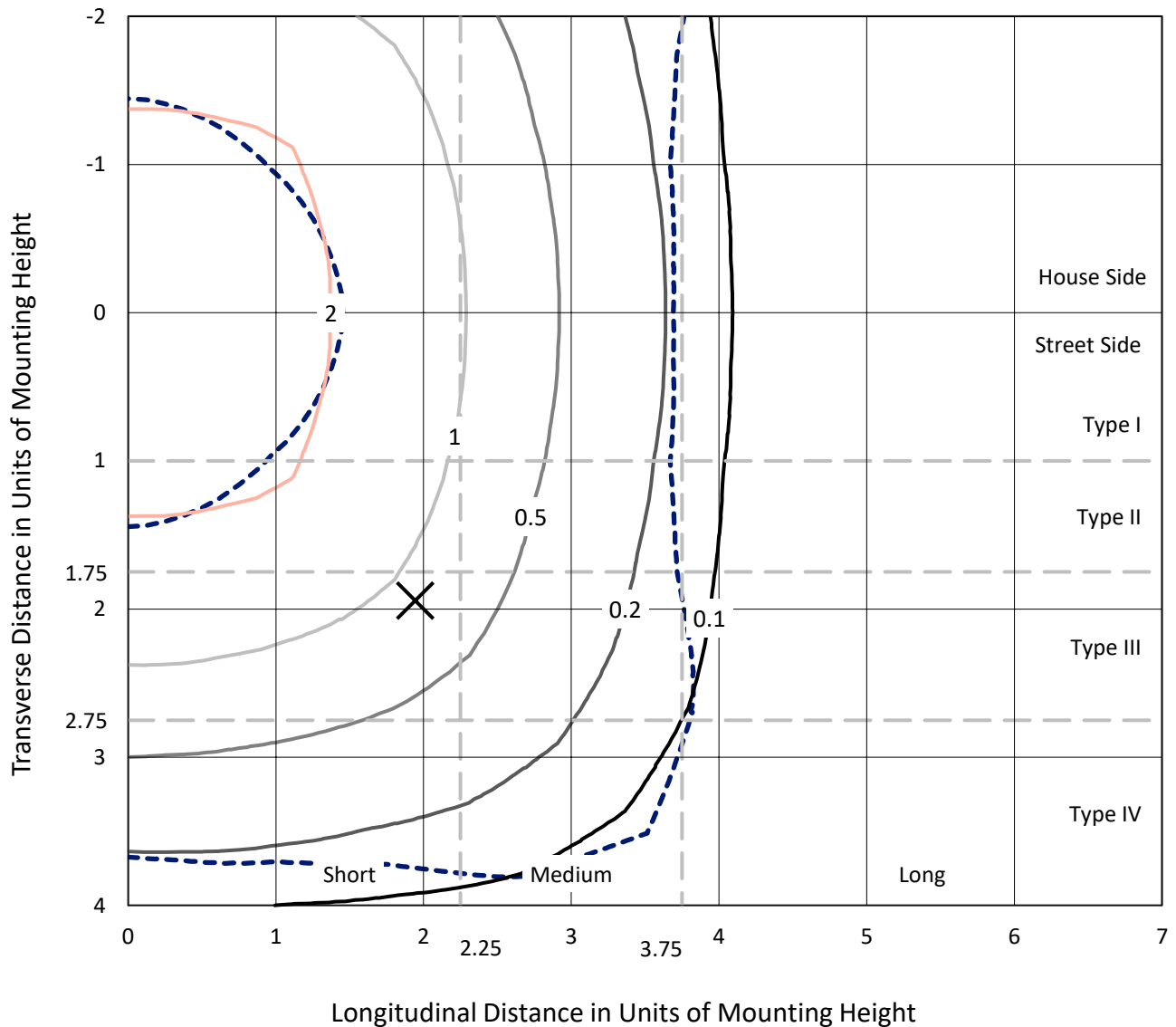
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

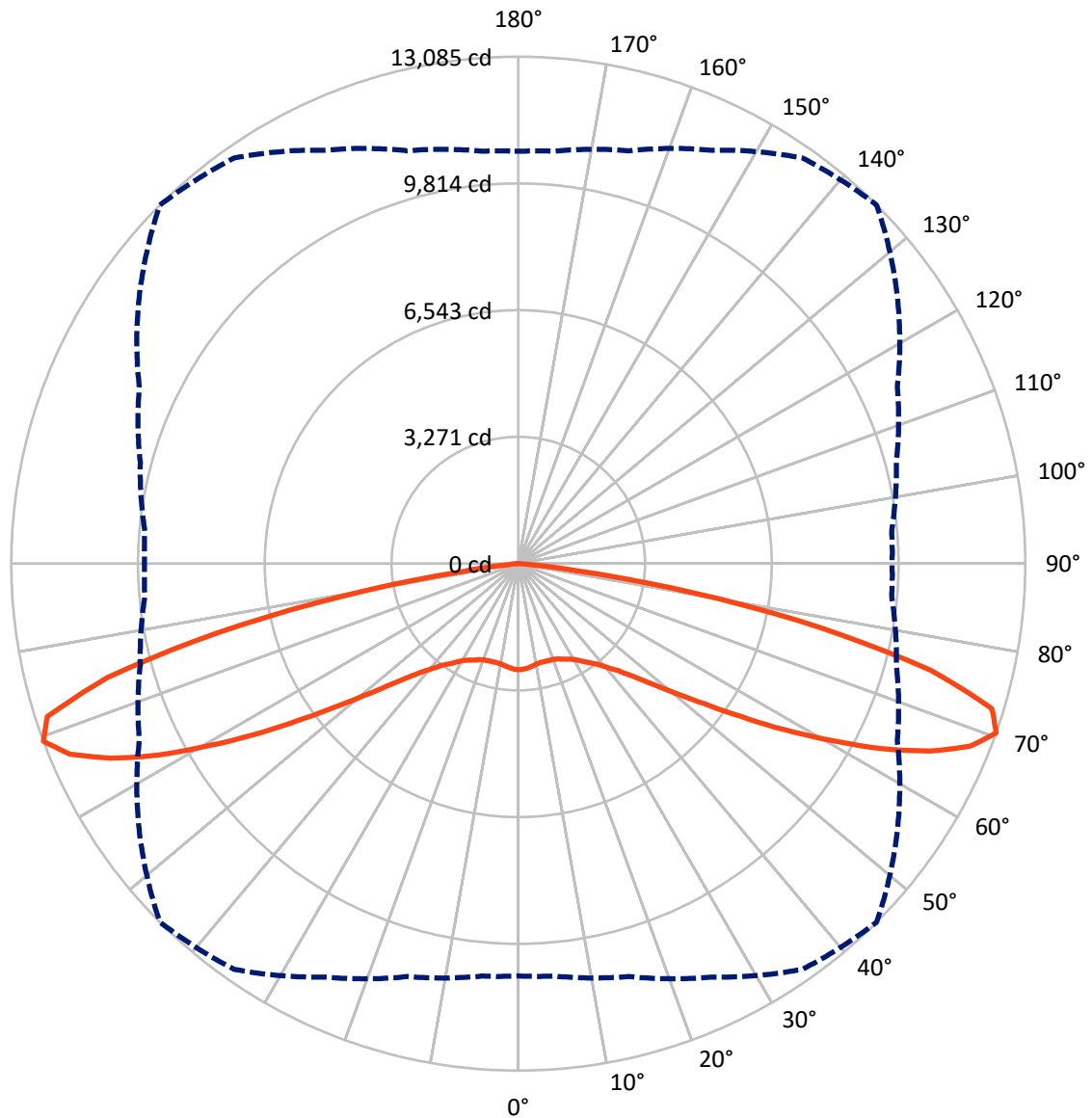
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16161.5	0.0	16161.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16161.5	0.0	16161.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32323.0	0.0	32323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.9	0.8
10°-20°	749.2	2.3
20°-30°	1276.5	3.9
30°-40°	1978.5	6.1
40°-50°	3330.2	10.3
50°-60°	6059.1	18.7
60°-70°	10257.9	31.7
70°-80°	7940.0	24.6
80°-90°	475.8	1.5
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°	32323.0	100.0
0°-180°	32323.0	100.0

Coefficient of Utilization



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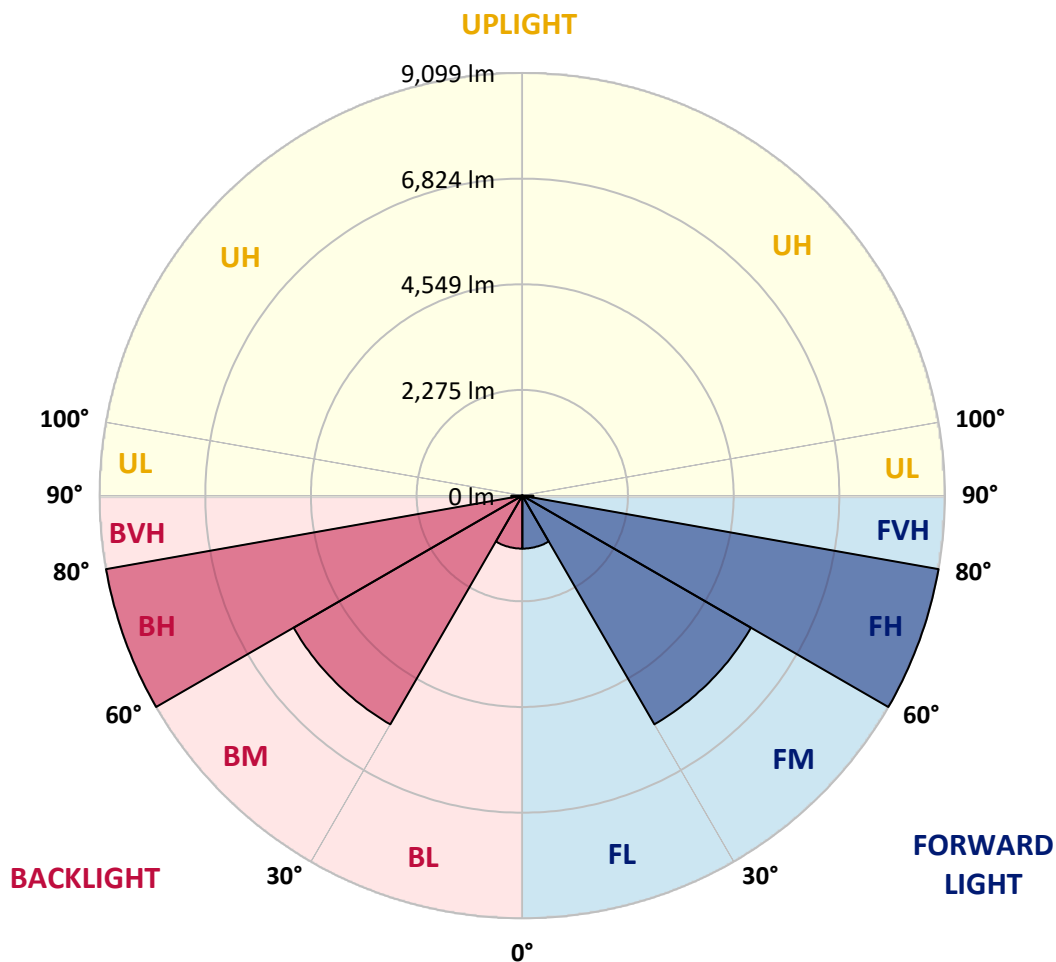
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1140.8	3.5			
FM	(30°-60°)	5683.9	17.6			
FH	(60°-80°)	9098.9	28.1			G4/12000
FVH	(80°-90°)	237.9	0.7			G3/500
BL	(0°-30°)	1140.8	3.5	B3/2500		
BM	(30°-60°)	5683.9	17.6	B4/8500		
BH	(60°-80°)	9098.9	28.1	B5		G4/12000
BVH	(80°-90°)	237.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5	2736.5
2.5°	2729.7	2731.4	2731.4	2728.0	2726.3	2726.3	2724.6	2724.6	2729.7	2731.4	2733.1
5°	2705.8	2705.8	2705.8	2704.1	2700.7	2700.7	2697.3	2697.3	2699.0	2704.1	2700.7
7.5°	2673.4	2676.8	2676.8	2670.0	2664.8	2664.8	2663.1	2664.8	2666.5	2671.7	2670.0
10°	2663.1	2664.8	2656.3	2644.4	2635.8	2630.7	2632.4	2635.8	2644.4	2647.8	2649.5
12.5°	2670.0	2670.0	2654.6	2637.5	2622.2	2615.3	2613.6	2625.6	2640.9	2651.2	2654.6
15°	2678.5	2675.1	2656.3	2634.1	2618.7	2617.0	2615.3	2623.9	2646.1	2666.5	2668.3
17.5°	2683.6	2681.9	2658.0	2630.7	2622.2	2622.2	2620.5	2627.3	2651.2	2676.8	2678.5
20°	2700.7	2695.6	2668.3	2639.2	2632.4	2635.8	2630.7	2639.2	2664.8	2695.6	2702.4
22.5°	2734.8	2729.7	2702.4	2673.4	2670.0	2670.0	2668.3	2676.8	2704.1	2736.5	2741.7
25°	2775.8	2770.7	2745.1	2724.6	2728.0	2734.8	2731.4	2733.1	2755.3	2782.6	2791.2
27.5°	2830.4	2821.9	2799.7	2782.6	2792.9	2792.9	2792.9	2791.2	2804.8	2830.4	2839.0
30°	2897.0	2893.6	2869.7	2868.0	2876.5	2868.0	2868.0	2869.7	2871.4	2895.3	2903.8
32.5°	2984.1	2977.2	2965.3	2961.9	2985.8	2992.6	2968.7	2946.5	2958.5	2982.4	2987.5
35°	3127.5	3117.2	3100.2	3081.4	3100.2	3132.6	3081.4	3064.3	3095.0	3127.5	3130.9
37.5°	3322.1	3317.0	3289.6	3255.5	3253.8	3287.9	3235.0	3233.3	3291.4	3330.6	3335.7
40°	3566.2	3571.3	3537.2	3504.7	3487.7	3515.0	3474.0	3489.4	3545.7	3590.1	3586.7
42.5°	3909.3	3890.6	3837.6	3806.9	3788.1	3777.9	3767.6	3791.5	3854.7	3902.5	3940.1
45°	4310.5	4303.7	4237.1	4199.6	4158.6	4143.2	4139.8	4182.5	4259.3	4317.3	4322.5
47.5°	4764.6	4749.3	4706.6	4667.3	4651.9	4633.2	4616.1	4648.5	4725.4	4766.3	4778.3
50°	5232.4	5235.8	5235.8	5229.0	5244.3	5247.7	5201.6	5213.6	5256.3	5252.9	5249.4
52.5°	5766.7	5785.5	5874.3	5882.8	5956.2	6005.7	5922.1	5872.5	5857.2	5765.0	5771.8
55°	6394.9	6412.0	6545.2	6678.3	6876.3	6960.0	6784.2	6630.5	6521.3	6381.3	6388.1
57.5°	7178.5	7187.0	7313.4	7569.4	7883.6	8079.9	7770.9	7467.0	7245.1	7111.9	7059.0
60°	8021.8	8030.4	8214.7	8527.1	9015.4	9254.4	8872.0	8375.2	8095.2	7892.1	7905.7
62.5°	9034.2	9068.3	9233.9	9664.1	10256.5	10524.5	10017.5	9353.4	8974.4	8721.8	8732.0
65°	10118.2	10176.2	10357.2	10830.1	11376.3	11664.9	11043.5	10277.0	9805.8	9496.8	9529.2
67.5°	10821.5	10872.7	11133.9	11656.3	12337.5	12576.5	11774.1	10881.3	10292.3	9923.6	9855.3
70°	10642.3	10685.0	11033.2	11774.1	12783.0	13085.2	11948.2	10792.5	10099.4	9674.3	9647.0
72.5°	9394.4	9305.6	9814.3	10877.9	12274.3	12781.3	11400.2	9857.0	8984.7	8547.6	8496.4
75°	6225.9	6418.8	7170.0	8423.0	10384.5	11012.7	9730.7	7914.3	6816.6	6453.0	6396.6
77.5°	2081.0	2229.5	2897.0	4774.9	7079.5	8023.5	7089.7	5176.0	3661.8	2949.9	2963.6
80°	551.4	544.6	705.0	1312.8	3059.2	4646.8	3561.1	1753.2	959.4	694.8	659.0
82.5°	198.0	221.9	285.1	363.6	810.9	1444.2	1019.2	491.7	360.2	266.3	257.8
85°	87.1	85.4	122.9	145.1	203.1	269.7	239.0	208.3	182.7	121.2	112.7
87.5°	18.8	18.8	29.0	22.2	35.8	35.8	44.4	52.9	54.6	35.8	29.0
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)