

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: P528534

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528534
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-SA3C-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 13618 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

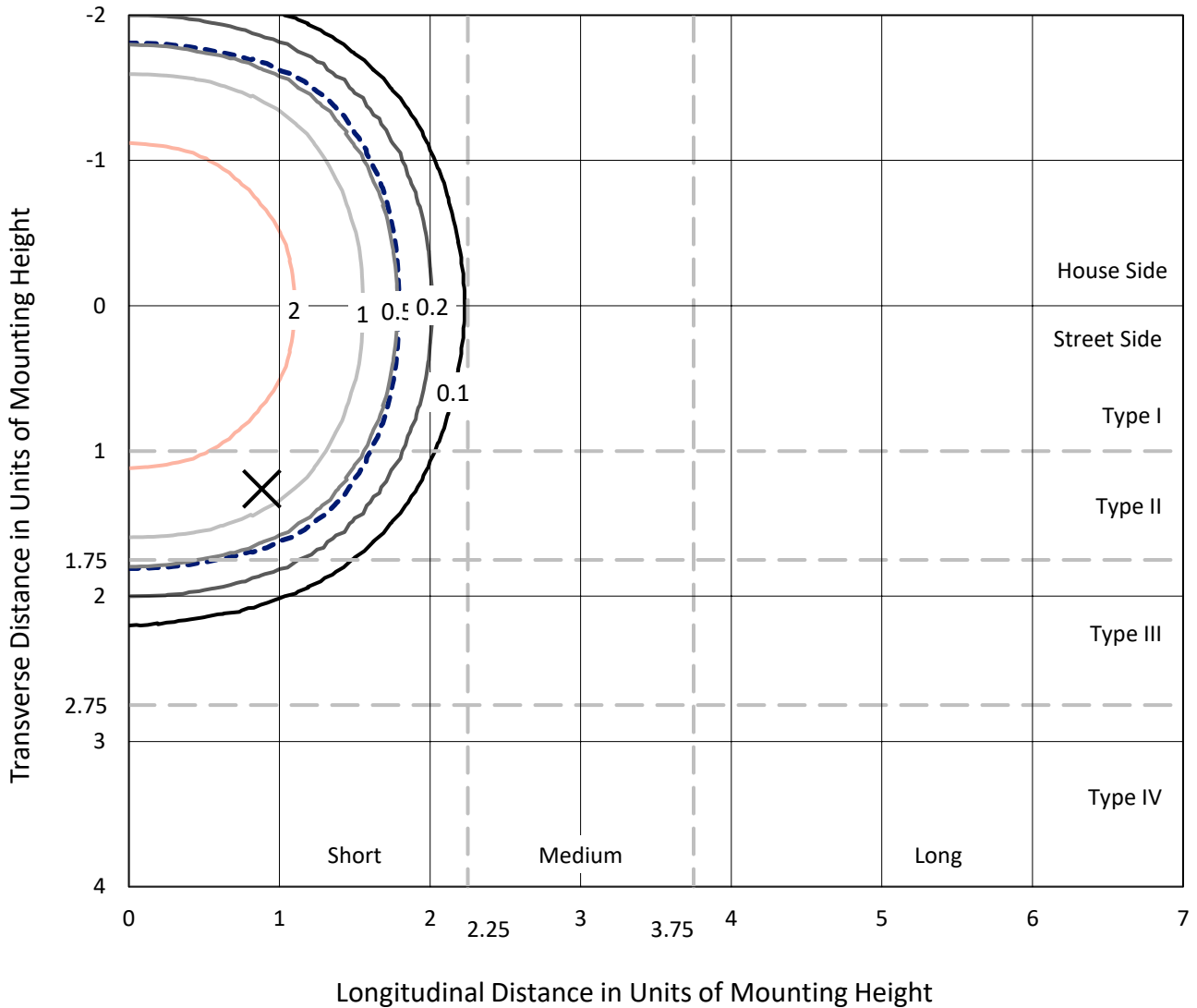
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

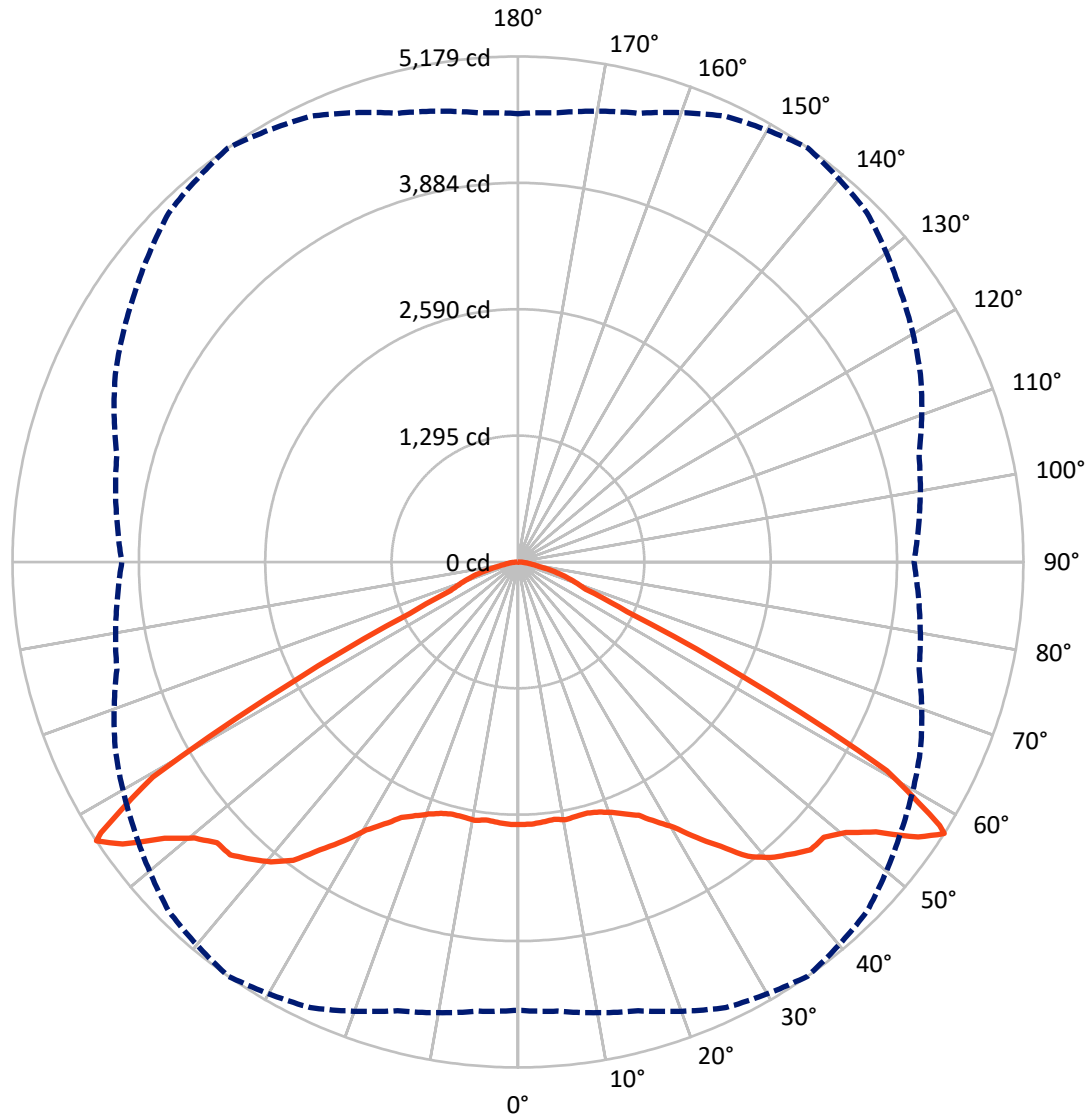
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	6809.0	0.0	6809.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6809.0	0.0	6809.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13618.0	0.0	13618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.0	1.9
10°-20°	755.1	5.5
20°-30°	1318.9	9.7
30°-40°	2161.0	15.9
40°-50°	3168.5	23.3
50°-60°	3991.0	29.3
60°-70°	1501.0	11.0
70°-80°	399.1	2.9
80°-90°	68.4	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°	13618.0	100.0
0°-180°	13618.0	100.0

Coefficient of Utilization



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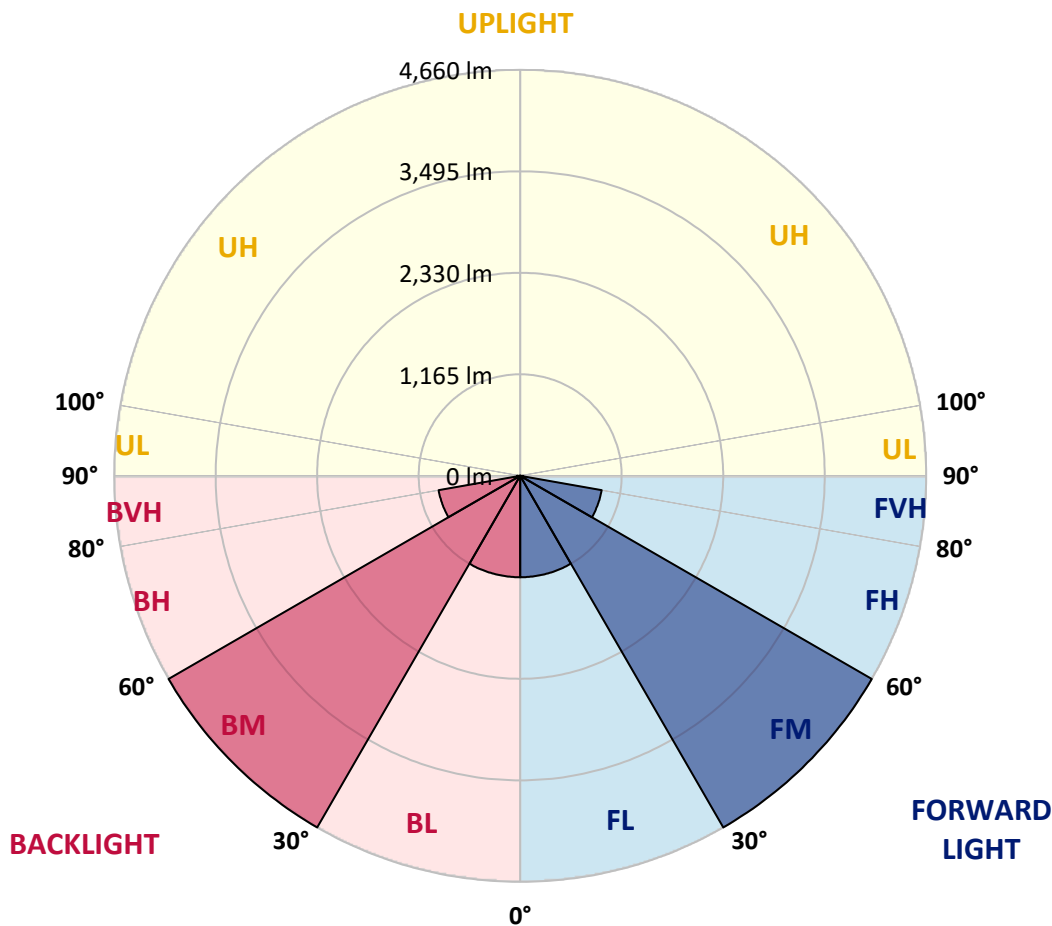
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.5	8.6			
FM (30°-60°)	4660.3	34.2			
FH (60°-80°)	950.0	7.0			G1/1800
FVH (80°-90°)	34.2	0.3			G1/100
BL (0°-30°)	1164.5	8.6	B3/2500		
BM (30°-60°)	4660.3	34.2	B3/5000		
BH (60°-80°)	950.0	7.0	B2/1000		G1/1800
BVH (80°-90°)	34.2	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°	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5
2.5°	2676.0	2702.9	2691.1	2684.4	2689.5	2681.1	2667.6	2682.7	2679.4	2666.0	2660.9
5°	2669.3	2689.5	2676.0	2689.5	2676.0	2699.5	2692.8	2667.6	2697.8	2669.3	2679.4
7.5°	2664.3	2671.0	2674.4	2667.6	2662.6	2691.1	2676.0	2664.3	2647.5	2642.5	2650.9
10°	2652.5	2669.3	2644.2	2677.7	2684.4	2664.3	2664.3	2642.5	2629.1	2620.7	2649.2
12.5°	2682.7	2654.2	2650.9	2667.6	2672.7	2681.1	2657.6	2645.8	2620.7	2624.0	2619.0
15°	2647.5	2659.3	2660.9	2664.3	2669.3	2689.5	2667.6	2642.5	2632.4	2597.2	2600.5
17.5°	2660.9	2649.2	2660.9	2699.5	2692.8	2707.9	2684.4	2645.8	2622.3	2602.2	2629.1
20°	2684.4	2679.4	2684.4	2731.4	2739.8	2753.2	2733.1	2697.8	2652.5	2629.1	2642.5
22.5°	2709.6	2706.2	2709.6	2754.9	2803.5	2820.3	2800.2	2718.0	2694.5	2650.9	2635.8
25°	2754.9	2758.2	2793.5	2843.8	2875.7	2907.6	2870.7	2811.9	2736.4	2709.6	2677.7
27.5°	2855.6	2863.9	2884.1	2957.9	3013.3	3041.8	2989.8	2909.2	2862.3	2806.9	2798.5
30°	2979.7	2979.7	3014.9	3078.7	3154.2	3197.8	3134.1	3038.4	2981.4	2951.2	2932.7
32.5°	3144.1	3125.7	3139.1	3251.5	3368.9	3405.9	3320.3	3202.9	3112.3	3072.0	3058.6
35°	3285.1	3296.8	3327.0	3447.8	3578.7	3664.2	3530.0	3377.3	3285.1	3248.1	3241.4
37.5°	3467.9	3488.1	3503.2	3669.3	3827.0	3858.9	3729.7	3607.2	3494.8	3464.6	3447.8
40°	3726.3	3712.9	3717.9	3840.4	3983.0	4003.1	3875.6	3788.4	3696.1	3677.7	3677.7
42.5°	3939.4	3924.3	3941.1	3986.4	4095.4	4080.3	4009.9	3946.1	3907.5	3887.4	3907.5
45°	4068.6	4065.2	4095.4	4129.0	4206.2	4155.8	4100.5	4110.5	4073.6	4040.1	4038.4
47.5°	4209.5	4187.7	4224.6	4274.9	4216.2	4192.7	4189.4	4211.2	4199.4	4140.7	4122.3
50°	4278.3	4269.9	4328.6	4387.4	4355.5	4301.8	4313.5	4348.8	4197.8	4118.9	4073.6
52.5°	4462.9	4464.5	4576.9	4608.8	4595.4	4516.5	4541.7	4446.1	4268.2	4157.5	4162.5
55°	4753.1	4741.4	4867.2	4961.1	4976.2	4875.6	4754.8	4620.6	4397.4	4285.0	4251.5
57°	4593.7	4620.6	4759.8	5038.3	5179.3	5060.1	4796.7	4551.8	4254.8	4118.9	4058.5
57.5°	4380.6	4424.3	4665.9	4946.0	5093.7	5083.6	4744.7	4424.3	4159.2	3947.8	3952.8
60°	3209.6	3218.0	3436.1	3880.7	4342.1	4352.1	3939.4	3514.9	3219.6	2989.8	3021.7
62.5°	1692.9	1731.5	1818.7	2176.1	2575.4	2672.7	2422.7	2204.6	1949.6	1775.1	1791.9
65°	895.9	890.9	932.8	1033.5	1229.8	1280.1	1246.6	1073.8	984.8	956.3	958.0
67.5°	728.1	736.5	731.5	736.5	750.0	771.8	766.7	773.4	778.5	786.9	785.2
70°	617.4	617.4	620.8	622.5	622.5	632.5	644.3	666.1	667.7	676.1	679.5
72.5°	486.6	483.2	488.2	500.0	501.7	510.0	526.8	540.2	545.3	545.3	535.2
75°	330.5	333.9	340.6	350.7	360.7	375.8	389.2	397.6	401.0	396.0	390.9
77.5°	186.2	189.6	194.6	209.7	221.5	234.9	250.0	258.4	266.8	268.4	258.4
80°	110.7	110.7	119.1	130.9	144.3	157.7	171.1	181.2	184.6	184.6	179.5
82.5°	67.1	68.8	75.5	87.2	99.0	107.4	119.1	127.5	134.2	132.5	129.2
85°	35.2	35.2	41.9	52.0	60.4	68.8	68.8	63.8	60.4	52.0	48.7
87.5°	11.7	10.1	13.4	13.4	11.7	13.4	13.4	15.1	15.1	15.1	15.1
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)