

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: P532745

Luminaire Tested: **GALN-SA8A-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16292 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

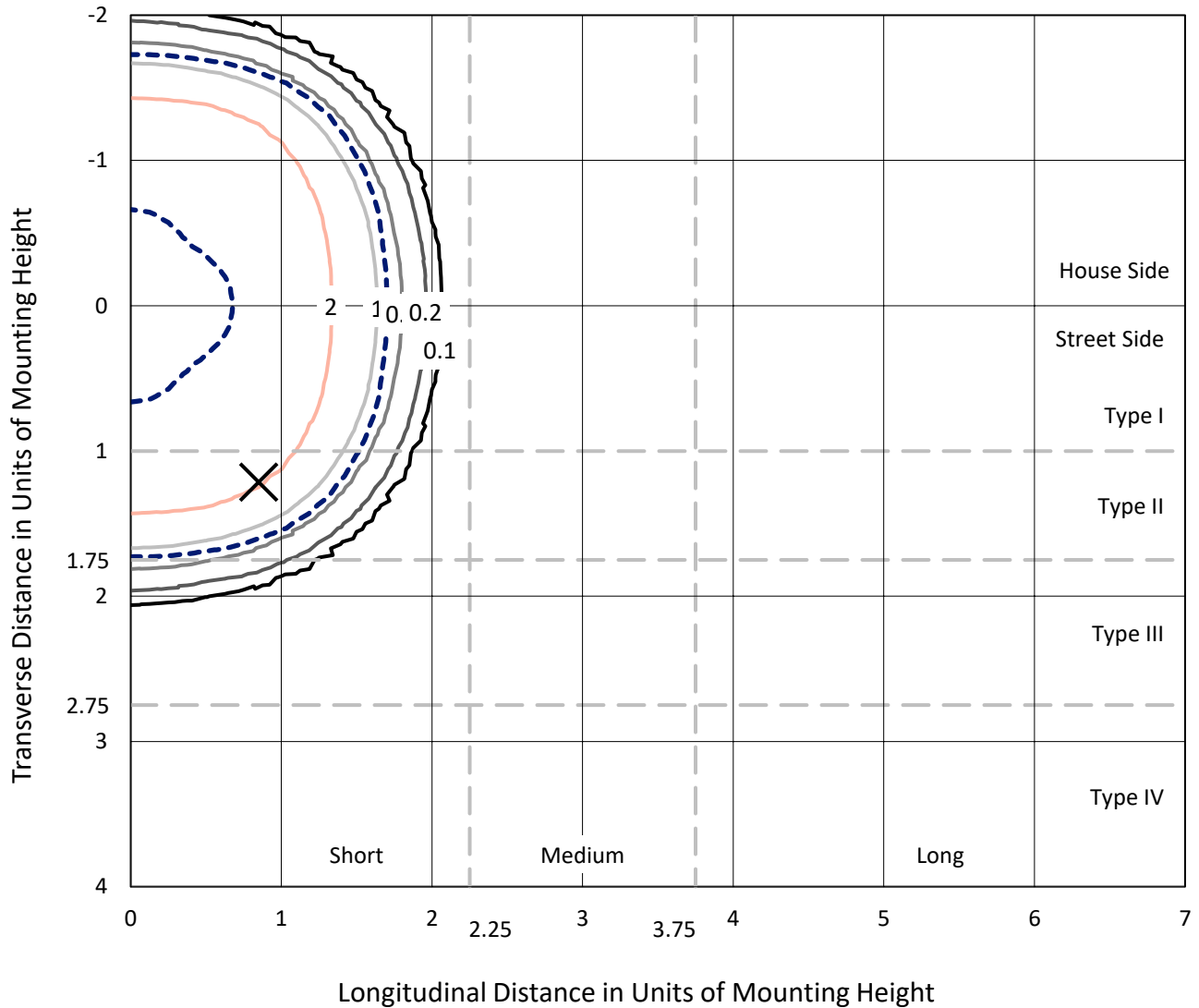
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

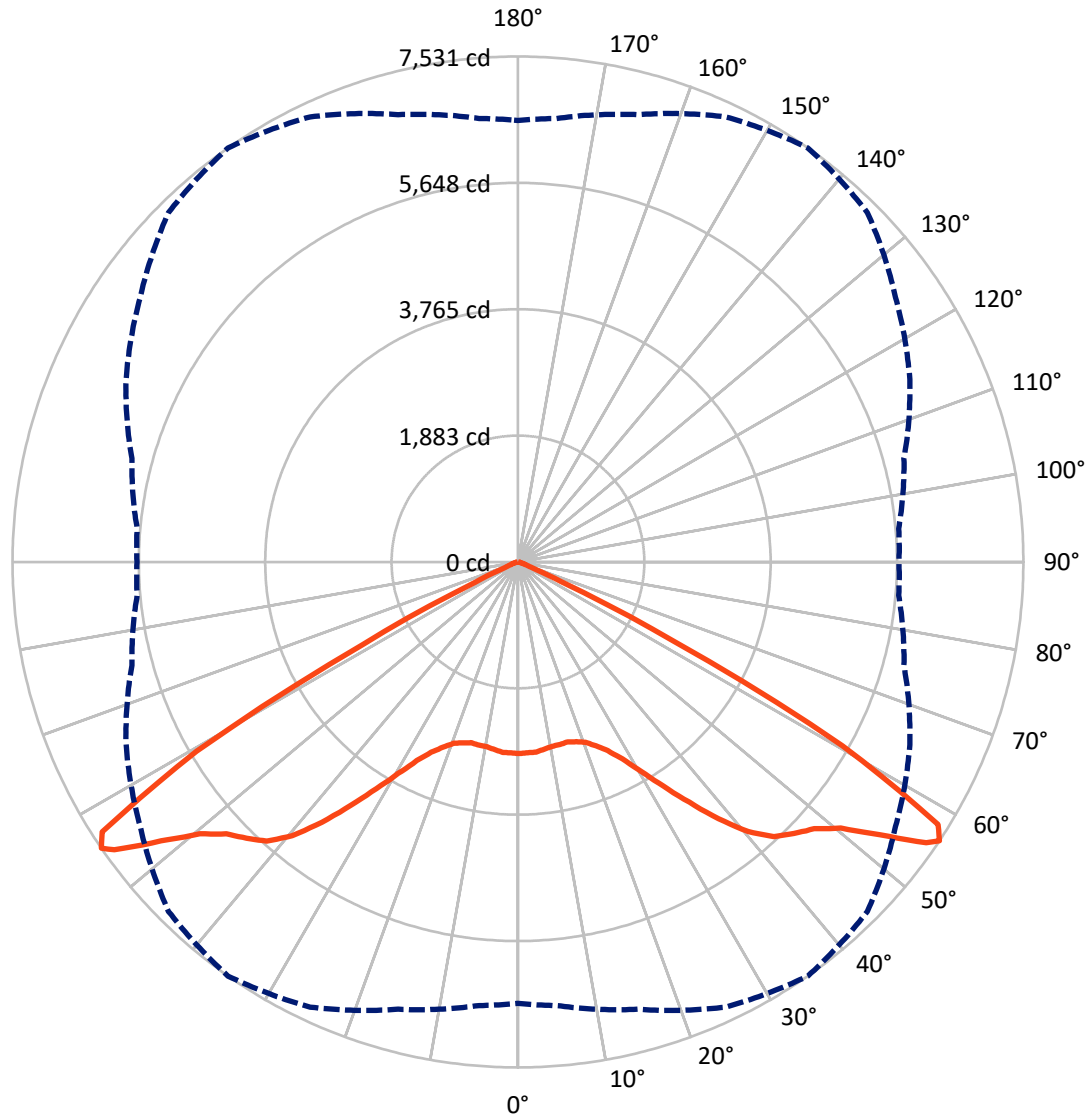
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8146.0	0.0	8146.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8146.0	0.0	8146.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16292.0	0.0	16292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	1.6
10°-20°	783.3	4.8
20°-30°	1418.5	8.7
30°-40°	2630.3	16.1
40°-50°	4317.5	26.5
50°-60°	5562.2	34.1
60°-70°	1225.8	7.5
70°-80°	71.1	0.4
80°-90°	15.0	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°	16292.0	100.0
0°-180°	16292.0	100.0

Coefficient of Utilization



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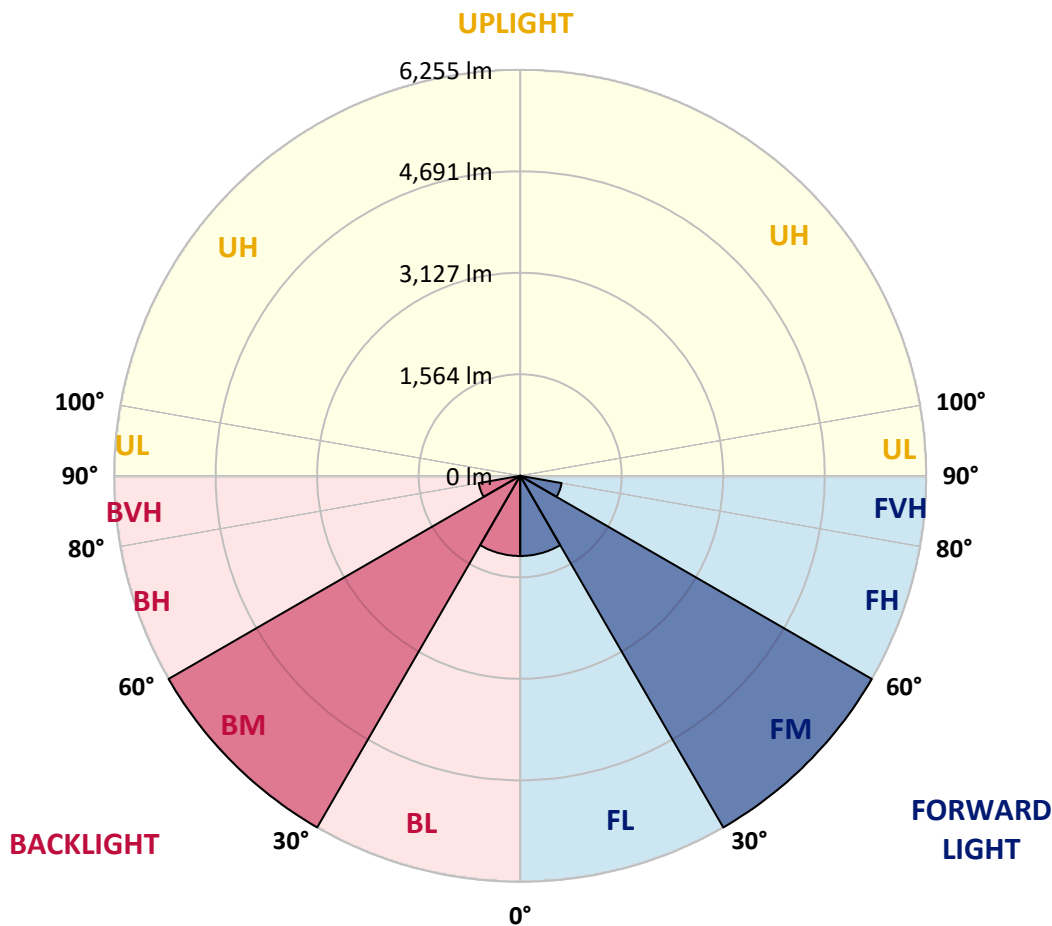
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1235.0	7.6			
FM (30°-60°)	6255.0	38.4			
FH (60°-80°)	648.5	4.0			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	1235.0	7.6	B3/2500		
BM (30°-60°)	6255.0	38.4	B4/8500		
BH (60°-80°)	648.5	4.0	B2/1000		G0/660
BVH (80°-90°)	7.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7
2.5°	2860.6	2860.6	2863.6	2866.5	2845.9	2837.0	2839.9	2834.0	2831.1	2839.9	2839.9
5°	2851.8	2851.8	2842.9	2845.9	2845.9	2819.3	2819.3	2825.2	2825.2	2807.5	2801.6
7.5°	2828.1	2822.2	2810.4	2825.2	2816.3	2816.3	2795.7	2780.9	2775.0	2786.8	2775.0
10°	2778.0	2780.9	2792.7	2798.6	2792.7	2810.4	2775.0	2754.3	2733.7	2724.8	2724.8
12.5°	2754.3	2772.0	2754.3	2769.1	2789.8	2775.0	2754.3	2739.6	2710.1	2698.2	2698.2
15°	2751.4	2763.2	2769.1	2789.8	2780.9	2786.8	2745.5	2727.8	2683.5	2662.8	2654.0
17.5°	2748.4	2763.2	2772.0	2810.4	2816.3	2819.3	2786.8	2733.7	2695.3	2674.6	2654.0
20°	2780.9	2786.8	2804.5	2842.9	2866.5	2907.8	2848.8	2792.7	2710.1	2686.4	2677.6
22.5°	2822.2	2851.8	2869.5	2910.8	2972.8	3008.2	2931.5	2860.6	2775.0	2745.5	2710.1
25°	2955.1	2949.2	2978.7	3064.3	3114.5	3141.1	3079.1	2975.7	2863.6	2828.1	2834.0
27.5°	3120.4	3126.3	3152.9	3247.3	3321.1	3362.5	3288.7	3152.9	3043.6	2984.6	2978.7
30°	3335.9	3330.0	3359.5	3486.5	3619.3	3681.3	3551.4	3392.0	3285.7	3209.0	3226.7
32.5°	3563.2	3566.2	3648.8	3764.0	3979.5	4100.5	3890.9	3696.1	3536.7	3483.5	3456.9
35°	3899.8	3914.5	3979.5	4156.6	4395.7	4552.2	4321.9	4088.7	3905.7	3808.2	3820.1
37.5°	4316.0	4301.3	4410.5	4602.4	4853.3	4968.4	4773.6	4507.9	4321.9	4257.0	4298.3
40°	4758.8	4773.6	4829.7	5003.9	5284.3	5361.1	5071.8	4927.1	4764.7	4732.3	4782.4
42.5°	5201.7	5192.8	5234.1	5390.6	5594.3	5541.1	5369.9	5284.3	5169.2	5104.2	5172.1
45°	5526.4	5511.6	5588.4	5694.7	5768.5	5668.1	5591.3	5561.8	5502.8	5431.9	5493.9
47.5°	5842.3	5830.5	5904.3	5933.8	5939.7	5806.8	5821.6	5874.7	5727.1	5579.5	5650.4
50°	6110.9	6090.2	6181.8	6246.7	6231.9	6019.4	6072.5	6019.4	5789.1	5614.9	5588.4
52.5°	6559.6	6568.5	6665.9	6784.0	6748.6	6571.4	6494.7	6252.6	5957.4	5800.9	5709.4
55°	6843.0	6798.8	6967.0	7341.9	7383.3	7200.2	6860.7	6503.5	6060.7	5868.8	5845.2
56°	6577.3	6633.4	6899.1	7318.3	7530.9	7362.6	6869.6	6441.5	5954.4	5694.7	5676.9
57.5°	5901.3	5871.8	6231.9	6804.7	7383.3	7312.4	6627.5	5998.7	5431.9	5139.7	5104.2
60°	3672.4	3758.1	4073.9	4782.4	5555.9	5591.3	4912.3	4372.1	3710.8	3451.0	3513.0
62.5°	1437.7	1363.9	1561.7	2090.1	2621.5	2739.6	2482.7	2063.5	1694.5	1437.7	1420.0
65°	333.6	324.7	366.1	504.8	705.6	817.7	776.4	558.0	410.3	389.7	360.2
67.5°	188.9	188.9	180.1	180.1	197.8	209.6	200.7	197.8	206.6	215.5	212.6
70°	132.8	129.9	124.0	126.9	121.0	121.0	129.9	144.7	156.5	156.5	159.4
72.5°	79.7	79.7	79.7	88.6	88.6	88.6	97.4	109.2	112.2	109.2	106.3
75°	35.4	35.4	41.3	50.2	56.1	59.0	67.9	73.8	79.7	73.8	67.9
77.5°	8.9	8.9	14.8	20.7	26.6	32.5	44.3	53.1	56.1	53.1	44.3
80°	3.0	3.0	5.9	14.8	26.6	32.5	44.3	47.2	50.2	44.3	35.4
82.5°	3.0	3.0	5.9	14.8	20.7	26.6	35.4	41.3	44.3	38.4	35.4
85°	0.0	3.0	5.9	11.8	17.7	23.6	23.6	17.7	14.8	8.9	11.8
87.5°	0.0	0.0	3.0	3.0	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)