

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: P647583

Luminaire Tested: **GALN-SA8D-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647583
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-SA8D-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA 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: 29354.6 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

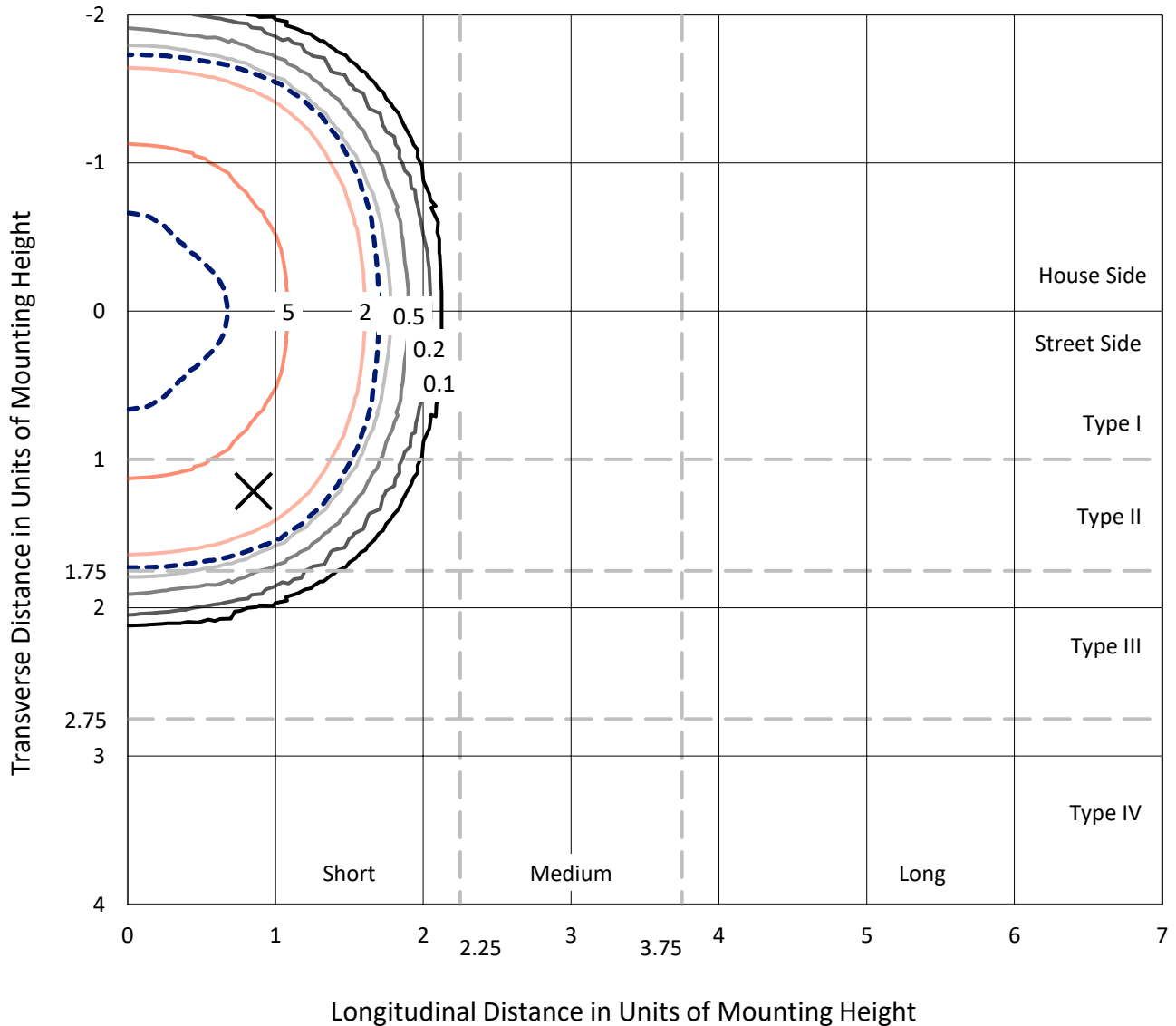
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

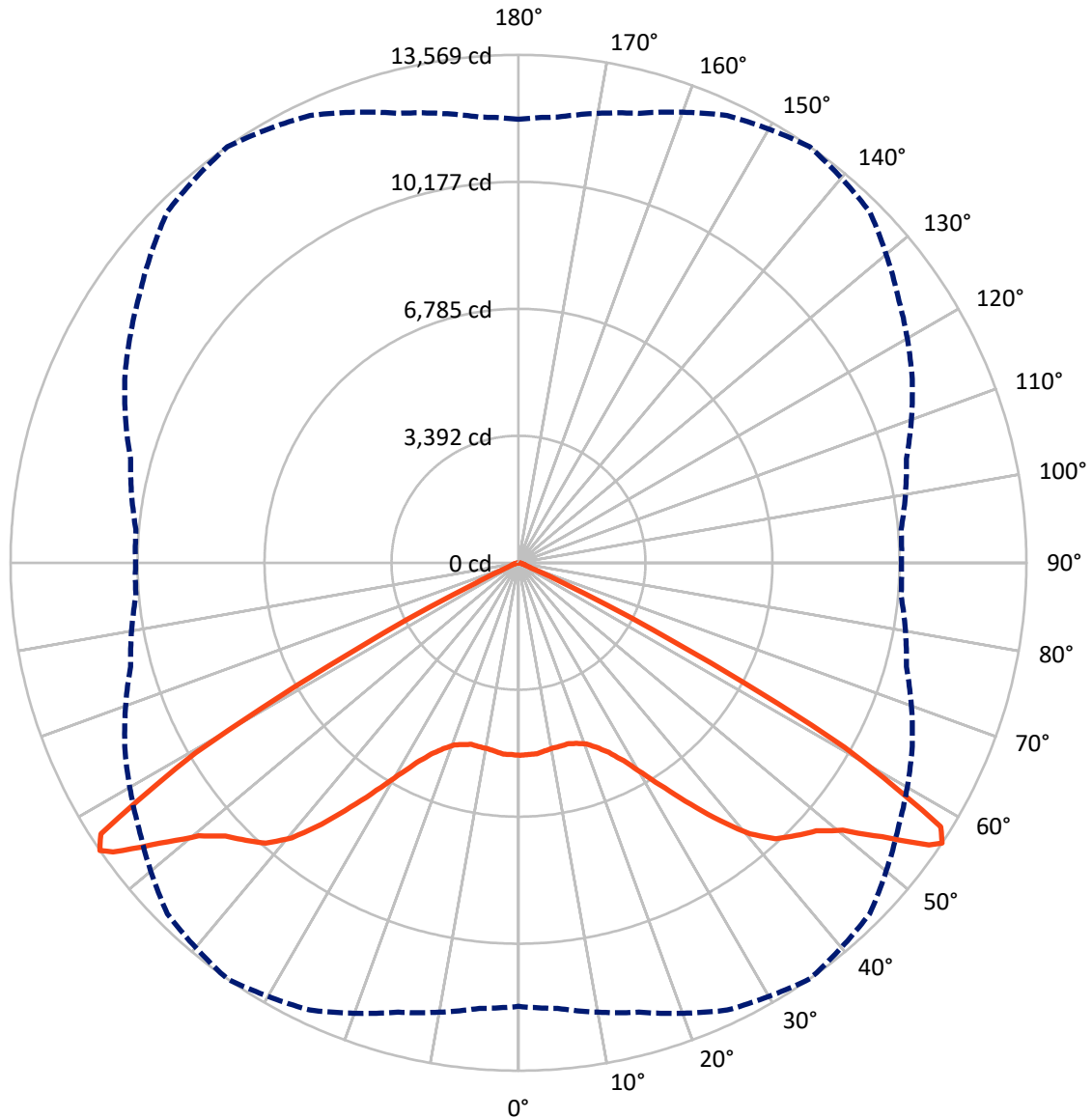
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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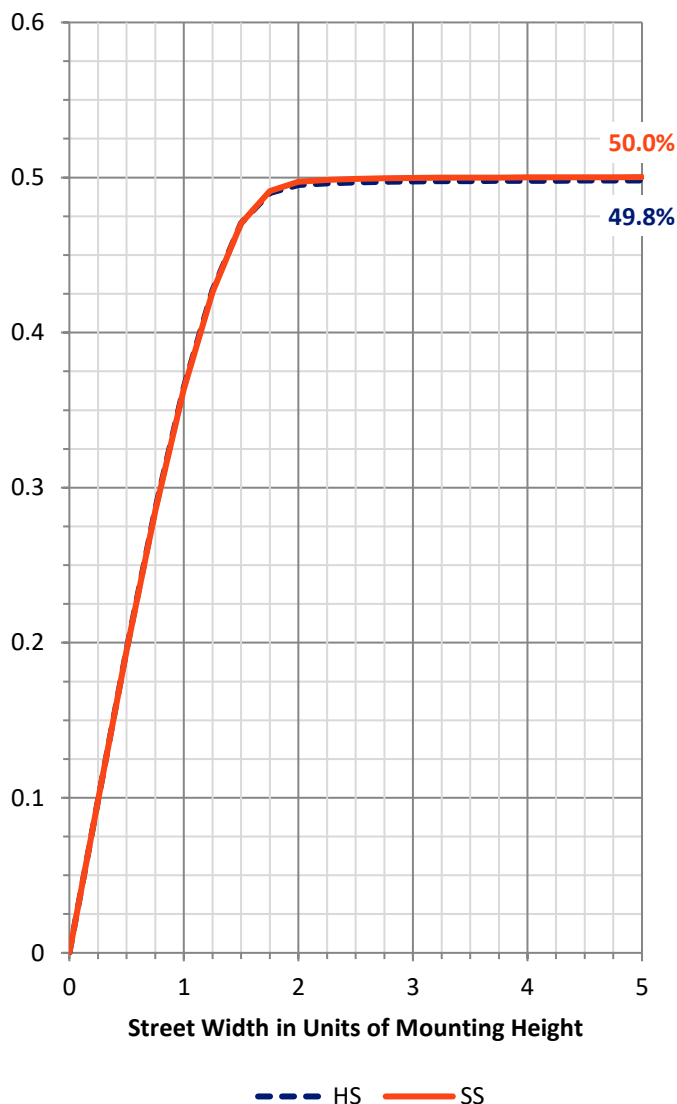
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14677.3	0.0	14677.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14677.3	0.0	14677.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	29354.6	0.0	29354.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.4	1.6
10°-20°	1411.3	4.8
20°-30°	2555.7	8.7
30°-40°	4739.3	16.1
40°-50°	7779.2	26.5
50°-60°	10021.9	34.1
60°-70°	2208.7	7.5
70°-80°	128.2	0.4
80°-90°	27.0	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°	29354.6	100.0
0°-180°	29354.6	100.0

Coefficient of Utilization

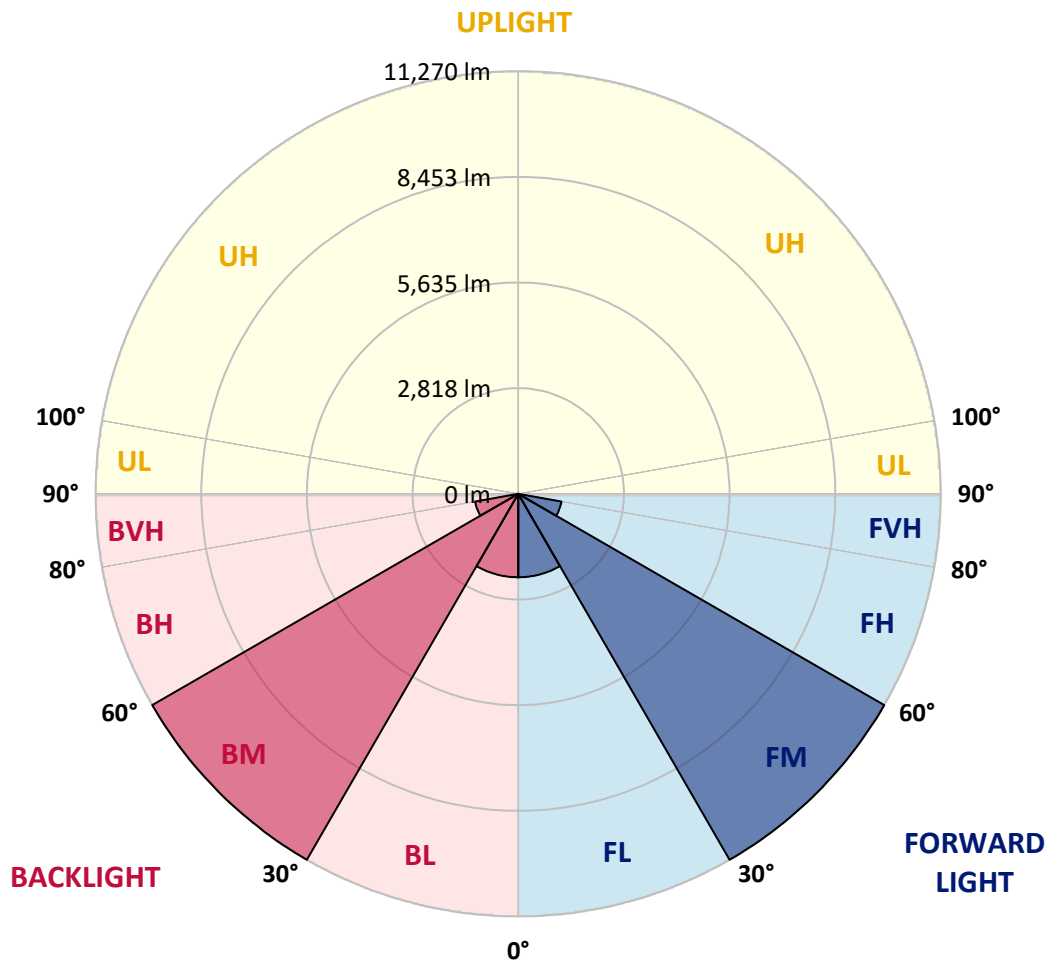


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2225.3	7.6			
FM (30°-60°)	11270.2	38.4			
FH (60°-80°)	1168.4	4.0			G1/1800
FVH (80°-90°)	13.5	0.0			G1/100
BL (0°-30°)	2225.3	7.6	B3/2500		
BM (30°-60°)	11270.2	38.4	B5		
BH (60°-80°)	1168.4	4.0	B3/2500		G1/1800
BVH (80°-90°)	13.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5143.6	5143.6	5143.6	5143.6	5143.6	5143.6	5143.6	5143.6	5143.6	5143.6	5143.6
2.5°	5154.2	5154.2	5159.5	5164.8	5127.6	5111.7	5117.0	5106.3	5101.0	5117.0	5117.0
5°	5138.3	5138.3	5122.3	5127.6	5127.6	5079.7	5079.7	5090.4	5090.4	5058.5	5047.8
7.5°	5095.7	5085.0	5063.8	5090.4	5074.4	5074.4	5037.2	5010.6	4999.9	5021.2	4999.9
10°	5005.2	5010.6	5031.9	5042.5	5031.9	5063.8	4999.9	4962.7	4925.5	4909.6	4909.6
12.5°	4962.7	4994.6	4962.7	4989.4	5026.5	4999.9	4962.7	4936.1	4882.9	4861.6	4861.6
15°	4957.4	4978.7	4989.4	5026.5	5010.6	5021.2	4946.8	4914.8	4835.0	4797.8	4781.9
17.5°	4952.1	4978.7	4994.6	5063.8	5074.4	5079.7	5021.2	4925.5	4856.3	4819.1	4781.9
20°	5010.6	5021.2	5053.2	5122.3	5164.8	5239.3	5133.0	5031.9	4882.9	4840.3	4824.5
22.5°	5085.0	5138.3	5170.1	5244.6	5356.3	5420.2	5281.9	5154.2	4999.9	4946.8	4882.9
25°	5324.4	5313.8	5367.0	5521.2	5611.7	5659.5	5547.8	5361.7	5159.5	5095.7	5106.3
27.5°	5622.3	5632.9	5680.8	5851.0	5984.0	6058.5	5925.5	5680.8	5484.0	5377.6	5367.0
30°	6010.6	6000.0	6053.1	6281.9	6521.2	6632.9	6398.9	6111.6	5920.2	5781.8	5813.8
32.5°	6420.1	6425.5	6574.4	6781.9	7170.2	7388.2	7010.6	6659.5	6372.3	6276.5	6228.7
35°	7026.6	7053.1	7170.2	7489.3	7920.1	8202.1	7787.2	7366.9	7037.1	6861.7	6882.9
37.5°	7776.5	7749.9	7946.7	8292.4	8744.6	8952.0	8601.0	8122.3	7787.2	7670.1	7744.6
40°	8574.4	8601.0	8702.0	9015.9	9521.2	9659.5	9138.2	8877.6	8585.0	8526.5	8616.9
42.5°	9372.3	9356.3	9430.8	9712.6	10079.7	9984.0	9675.5	9521.2	9313.7	9196.7	9319.0
45°	9957.3	9930.8	10069.1	10260.5	10393.5	10212.7	10074.4	10021.1	9914.8	9787.1	9898.8
47.5°	10526.5	10505.2	10638.2	10691.4	10702.0	10462.7	10489.3	10585.0	10319.1	10053.1	10180.7
50°	11010.5	10973.3	11138.2	11255.2	11228.6	10845.6	10941.4	10845.6	10430.7	10116.9	10069.1
52.5°	11819.1	11835.0	12010.5	12223.3	12159.4	11840.3	11702.0	11265.9	10733.9	10452.0	10287.1
55°	12329.7	12249.9	12553.1	13228.6	13303.1	12973.3	12361.6	11718.0	10920.1	10574.3	10531.8
56°	11850.9	11952.0	12430.8	13186.0	13569.0	13265.8	12377.5	11606.3	10728.6	10260.5	10228.6
57.5°	10632.9	10579.7	11228.6	12260.5	13303.1	13175.4	11941.4	10808.4	9787.1	9260.5	9196.7
60°	6617.0	6771.2	7340.4	8616.9	10010.6	10074.4	8851.0	7877.6	6686.1	6218.0	6329.7
62.5°	2590.4	2457.4	2813.8	3765.9	4723.4	4936.1	4473.4	3718.1	3053.2	2590.4	2558.5
65°	601.0	585.1	659.6	909.5	1271.3	1473.4	1398.9	1005.3	739.4	702.1	649.0
67.5°	340.4	340.4	324.5	324.5	356.3	377.6	361.7	356.3	372.3	388.3	383.0
70°	239.4	234.0	223.4	228.7	218.1	218.1	234.0	260.7	281.9	281.9	287.2
72.5°	143.6	143.6	143.6	159.6	159.6	159.6	175.5	196.8	202.1	196.8	191.5
75°	63.8	63.8	74.5	90.4	101.1	106.4	122.3	133.0	143.6	133.0	122.3
77.5°	16.0	16.0	26.6	37.3	47.8	58.5	79.8	95.8	101.1	95.8	79.8
80°	5.3	5.3	10.6	26.6	47.8	58.5	79.8	85.1	90.4	79.8	63.8
82.5°	5.3	5.3	10.6	26.6	37.3	47.8	63.8	74.5	79.8	69.1	63.8
85°	0.0	5.3	10.6	21.3	31.9	42.5	42.5	31.9	26.6	16.0	21.3
87.5°	0.0	0.0	5.3	5.3	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)