

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: P647089

Luminaire Tested: **GALN-SA8C-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647089
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-SA8C-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 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: 39235.3 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

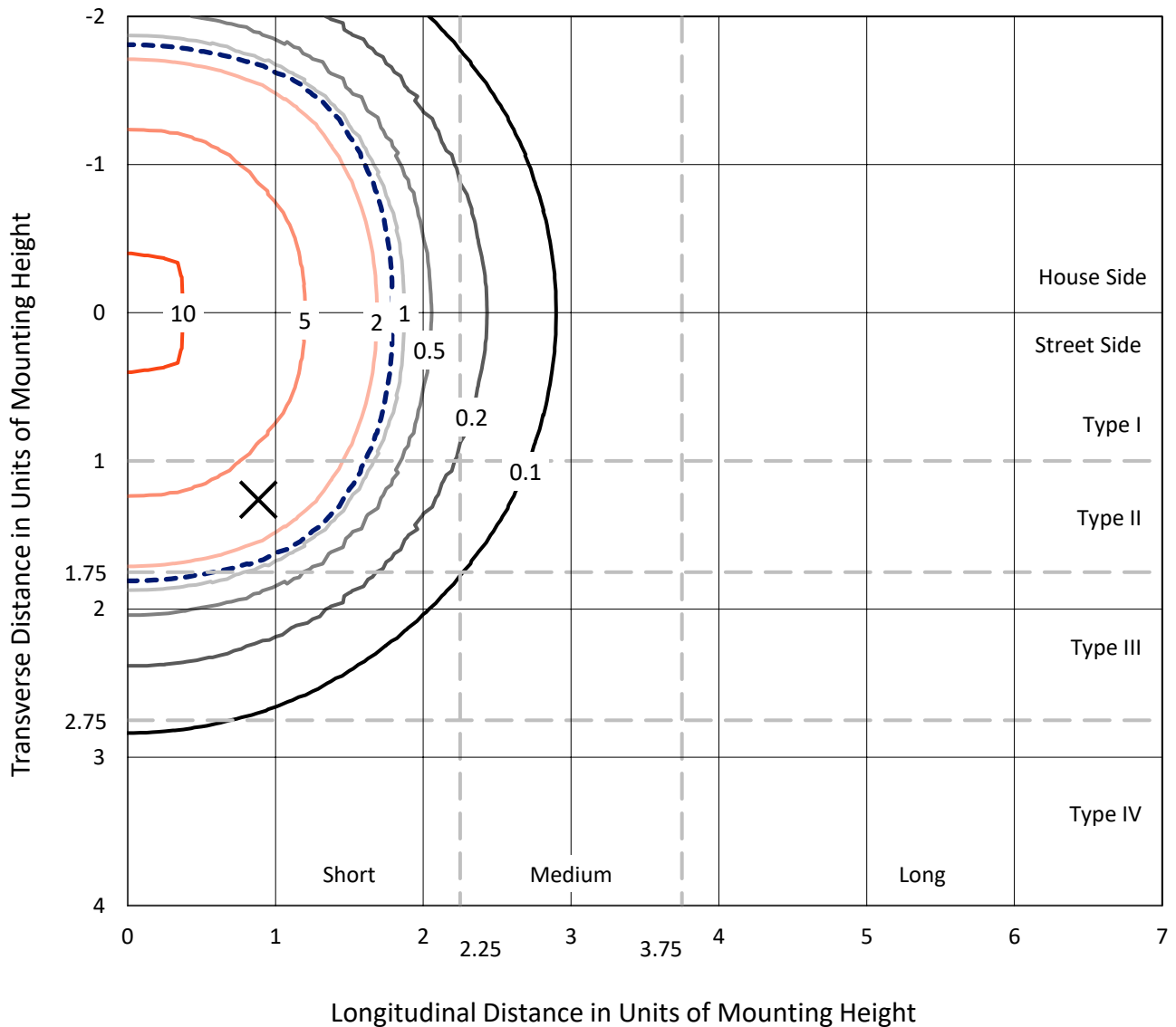
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

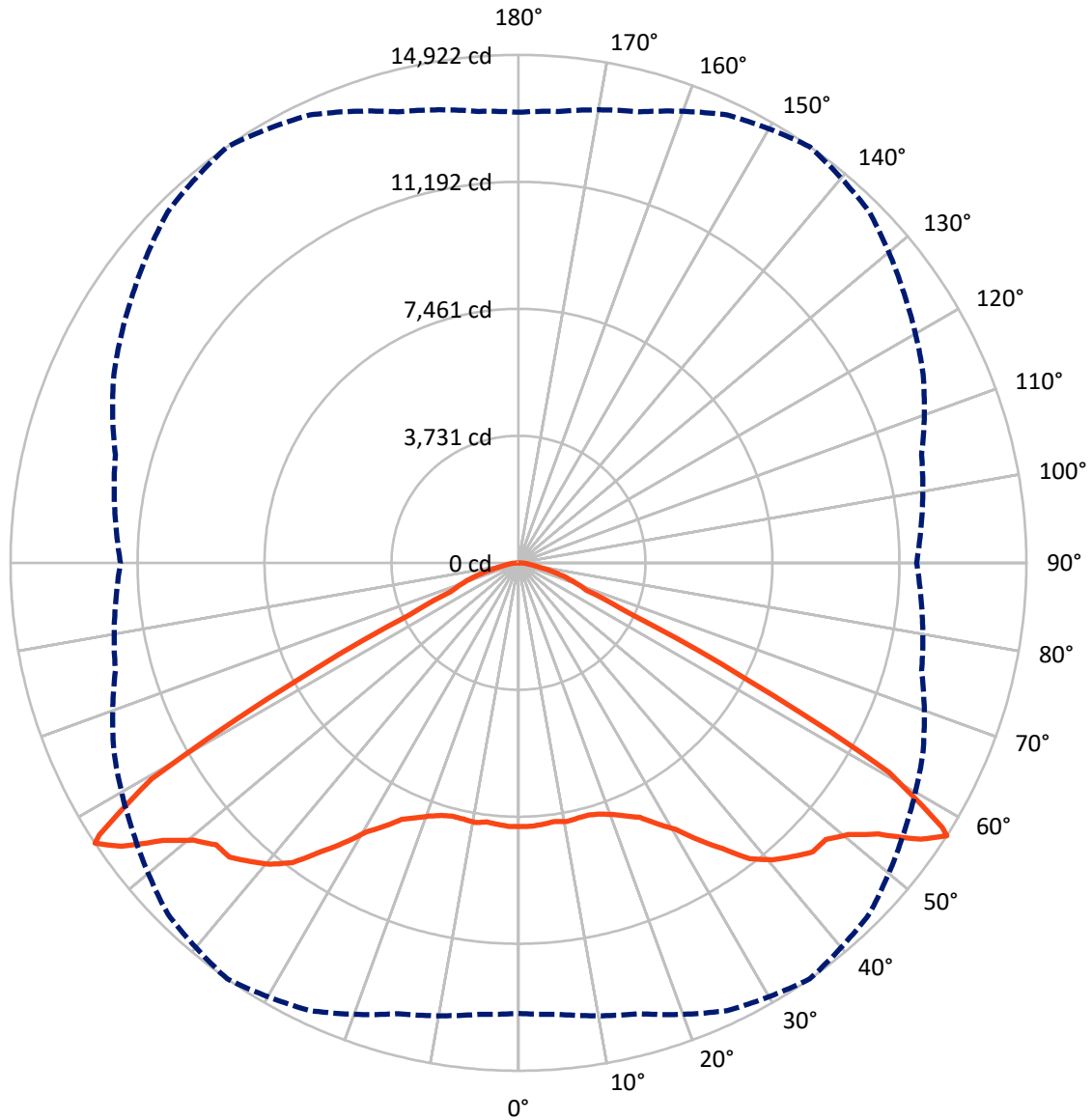
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type V - Short - N/A

REPORT NUMBER: P647089
CATALOG NUMBER: GALN-SA8C-835-U-5MQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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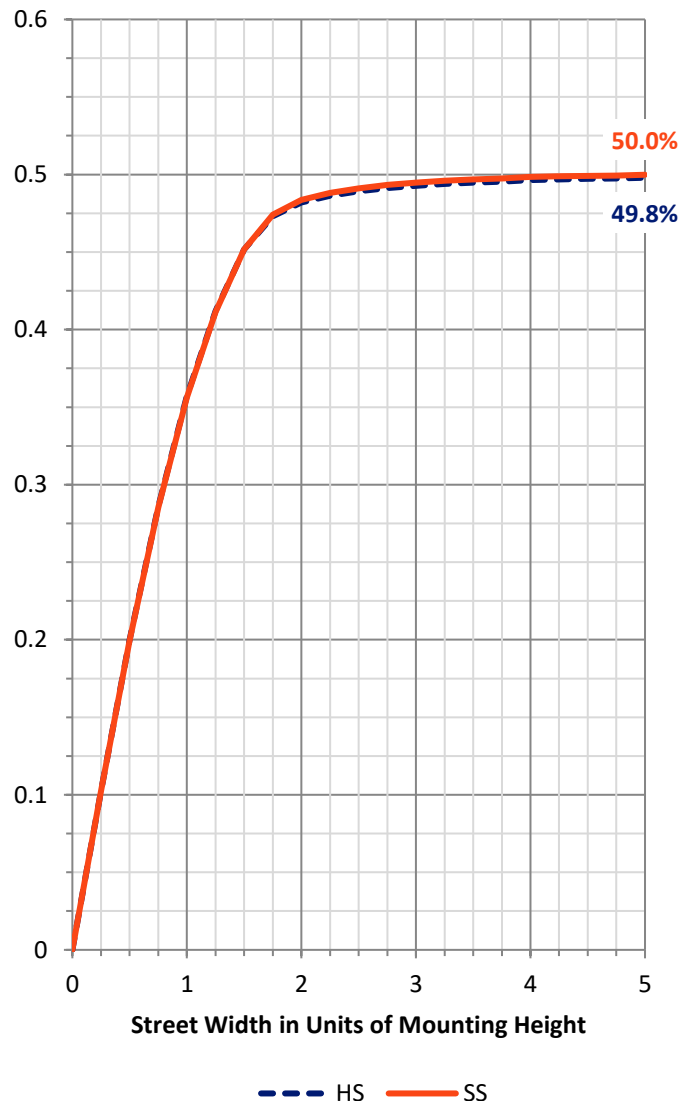
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19617.7	0.0	19617.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19617.7	0.0	19617.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	39235.3	0.0	39235.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.6	1.9
10°-20°	2175.7	5.5
20°-30°	3799.8	9.7
30°-40°	6226.1	15.9
40°-50°	9129.0	23.3
50°-60°	11498.6	29.3
60°-70°	4324.5	11.0
70°-80°	1149.9	2.9
80°-90°	197.2	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°	39235.3	100.0
0°-180°	39235.3	100.0

Coefficient of Utilization



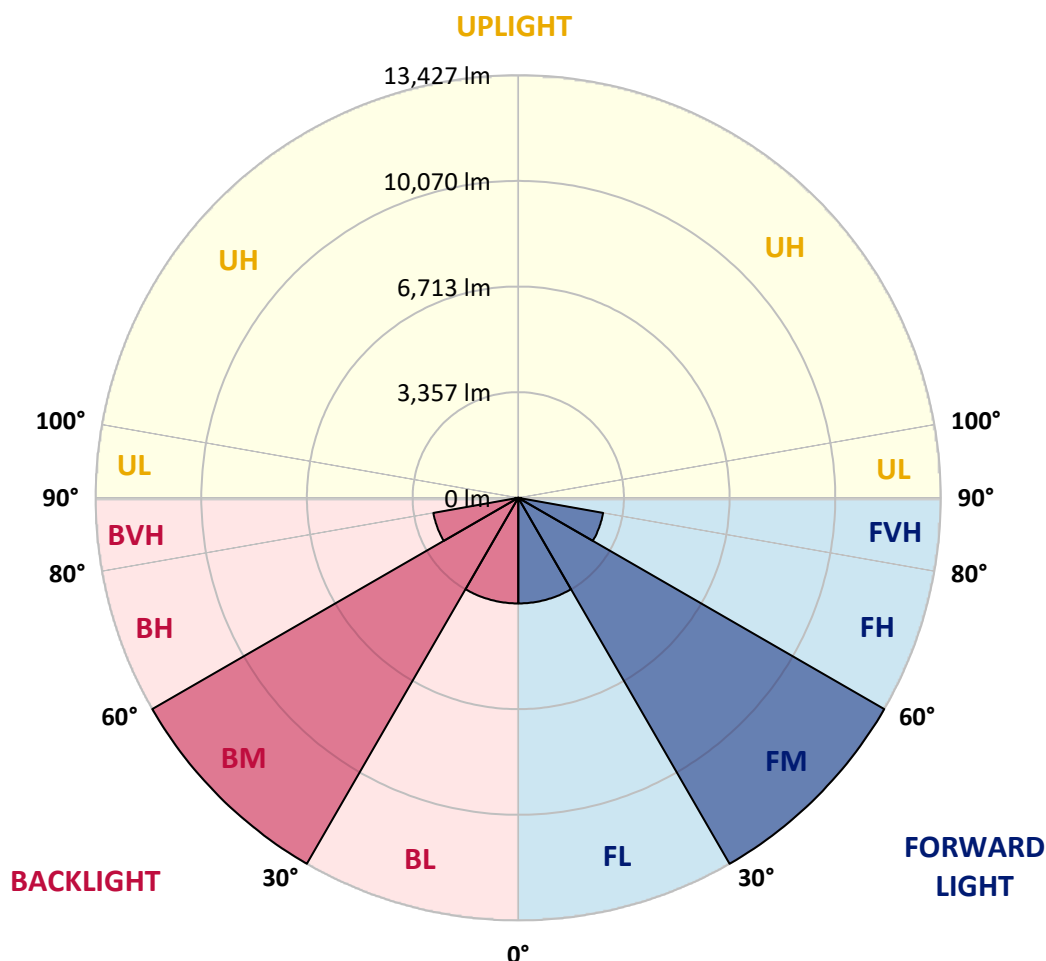
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3355.0	8.6			
FM (30°-60°)	13426.8	34.2			
FH (60°-80°)	2737.2	7.0			G2/5000
FVH (80°-90°)	98.6	0.3			G1/100
BL (0°-30°)	3355.0	8.6	B4/5000		
BM (30°-60°)	13426.8	34.2	B5		
BH (60°-80°)	2737.2	7.0	B4/5000		G2/5000
BVH (80°-90°)	98.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7748.7	7748.7	7748.7	7748.7	7748.7	7748.7	7748.7	7748.7	7748.7	7748.7	7748.7
2.5°	7710.0	7787.3	7753.5	7734.2	7748.7	7724.5	7685.8	7729.4	7719.7	7681.0	7666.5
5°	7690.7	7748.7	7710.0	7748.7	7710.0	7777.7	7758.4	7685.8	7772.8	7690.7	7719.7
7.5°	7676.2	7695.5	7705.2	7685.8	7671.4	7753.5	7710.0	7676.2	7627.8	7613.3	7637.5
10°	7642.3	7690.7	7618.2	7714.8	7734.2	7676.2	7676.2	7613.3	7574.7	7550.5	7632.7
12.5°	7729.4	7647.2	7637.5	7685.8	7700.3	7724.5	7656.9	7623.0	7550.5	7560.2	7545.7
15°	7627.8	7661.7	7666.5	7676.2	7690.7	7748.7	7685.8	7613.3	7584.4	7482.8	7492.5
17.5°	7666.5	7632.7	7666.5	7777.7	7758.4	7801.9	7734.2	7623.0	7555.3	7497.3	7574.7
20°	7734.2	7719.7	7734.2	7869.5	7893.7	7932.4	7874.4	7772.8	7642.3	7574.7	7613.3
22.5°	7806.7	7797.0	7806.7	7937.2	8077.4	8125.7	8067.7	7830.9	7763.2	7637.5	7594.0
25°	7937.2	7946.9	8048.4	8193.4	8285.2	8377.1	8270.8	8101.5	7884.0	7806.7	7714.8
27.5°	8227.2	8251.4	8309.4	8522.1	8681.6	8763.8	8613.9	8381.9	8246.6	8087.1	8062.9
30°	8585.0	8585.0	8686.4	8870.1	9087.7	9213.3	9029.6	8754.2	8589.8	8502.8	8449.6
32.5°	9058.7	9005.5	9044.2	9368.0	9706.4	9812.8	9566.2	9227.9	8966.8	8850.8	8812.1
35°	9464.7	9498.6	9585.6	9933.6	10310.6	10557.2	10170.5	9730.6	9464.7	9358.3	9339.0
37.5°	9991.6	10049.6	10093.1	10571.7	11026.0	11117.9	10745.7	10392.8	10068.9	9981.9	9933.6
40°	10736.0	10697.3	10711.8	11064.7	11475.6	11533.6	11166.2	10914.9	10649.0	10595.9	10595.9
42.5°	11349.9	11306.4	11354.8	11485.3	11799.5	11756.0	11552.9	11369.2	11258.1	11200.1	11258.1
45°	11722.1	11712.4	11799.5	11896.1	12118.5	11973.5	11814.0	11843.0	11736.6	11639.9	11635.1
47.5°	12128.2	12065.3	12171.7	12316.7	12147.5	12079.8	12070.2	12133.0	12099.2	11930.0	11876.8
50°	12326.4	12302.2	12471.4	12640.6	12548.7	12394.0	12427.9	12529.4	12094.4	11867.1	11736.6
52.5°	12858.1	12862.9	13186.8	13278.7	13240.0	13012.8	13085.3	12809.7	12297.3	11978.3	11992.8
55°	13694.4	13660.5	14023.1	14293.7	14337.3	14047.3	13699.2	13312.5	12669.6	12345.7	12249.0
57°	13235.1	13312.5	13713.7	14516.1	14922.2	14578.9	13820.0	13114.3	12258.7	11867.1	11693.2
57.5°	12621.3	12746.9	13443.0	14250.2	14675.6	14646.6	13670.2	12746.9	11983.2	11374.1	11388.6
60°	9247.2	9271.3	9899.8	11180.8	12510.1	12539.0	11349.9	10126.9	9276.2	8613.9	8705.8
62.5°	4877.4	4988.6	5239.9	6269.6	7420.0	7700.3	6980.1	6351.7	5616.9	5114.2	5162.6
65°	2581.3	2566.8	2687.6	2977.7	3543.2	3688.2	3591.5	3093.7	2837.5	2755.3	2760.2
67.5°	2097.9	2122.1	2107.6	2122.1	2160.8	2223.6	2209.1	2228.4	2242.9	2267.1	2262.2
70°	1778.9	1778.9	1788.5	1793.4	1793.4	1822.4	1856.2	1919.1	1923.9	1948.0	1957.7
72.5°	1401.8	1392.2	1406.7	1440.5	1445.3	1469.5	1517.8	1556.5	1571.0	1571.0	1542.0
75°	952.3	961.9	981.3	1010.3	1039.3	1082.8	1121.5	1145.6	1155.3	1140.8	1126.3
77.5°	536.6	546.2	560.7	604.2	638.1	676.7	720.3	744.4	768.6	773.4	744.4
80°	319.1	319.1	343.2	377.0	415.7	454.4	493.1	522.0	531.7	531.7	517.2
82.5°	193.3	198.2	217.5	251.3	285.2	309.4	343.2	367.4	386.7	381.9	372.2
85°	101.5	101.5	120.8	149.9	174.0	198.2	198.2	183.7	174.0	149.9	140.2
87.5°	33.8	29.0	38.7	38.7	33.8	38.7	38.7	43.5	43.5	43.5	43.5
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)