

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: P648134

Luminaire Tested: **GALN-SA9A-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648134
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-SA9A-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA 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: 28652.3 lumens
Efficiency: N/A
Efficacy: 104.6 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

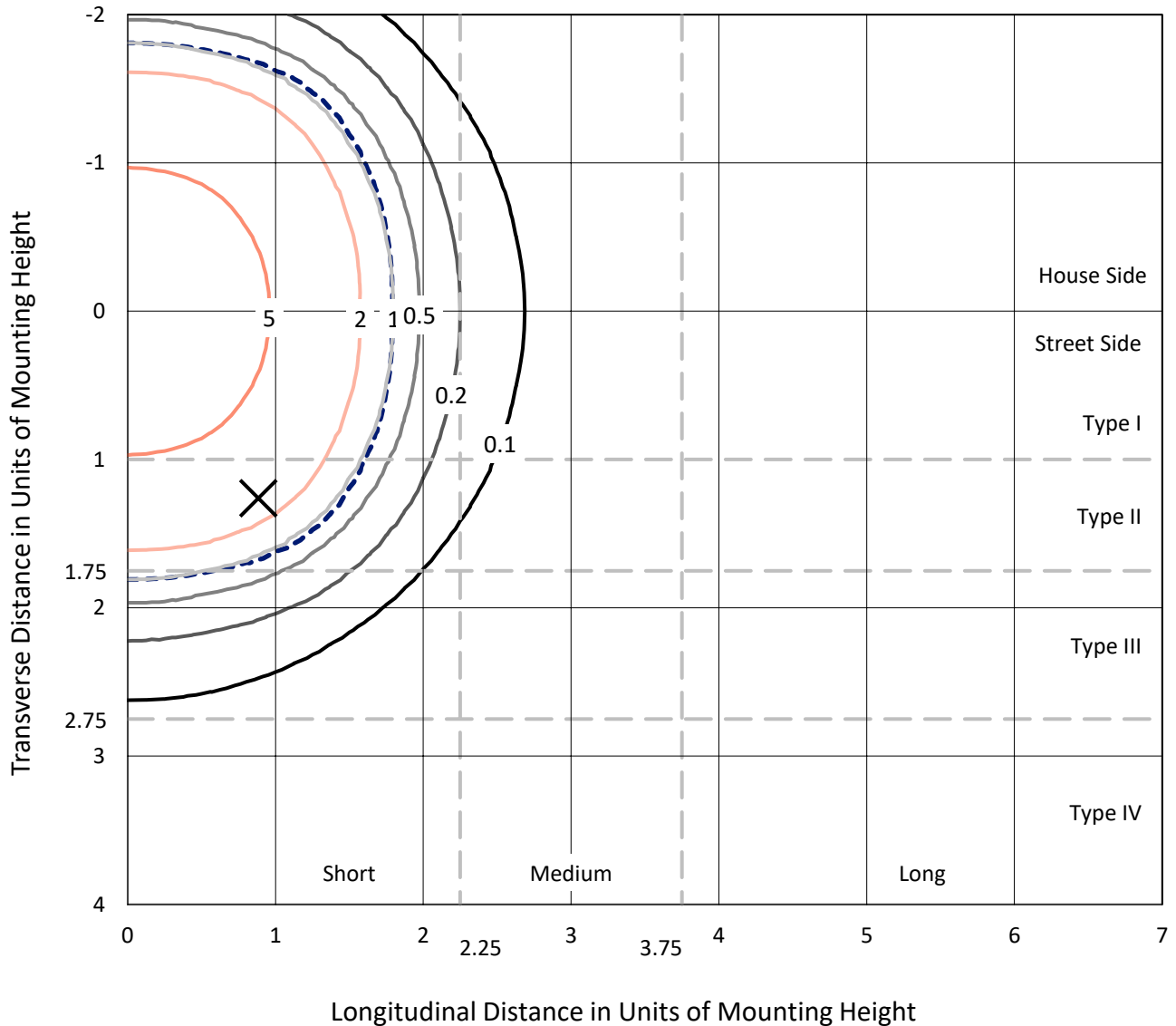
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

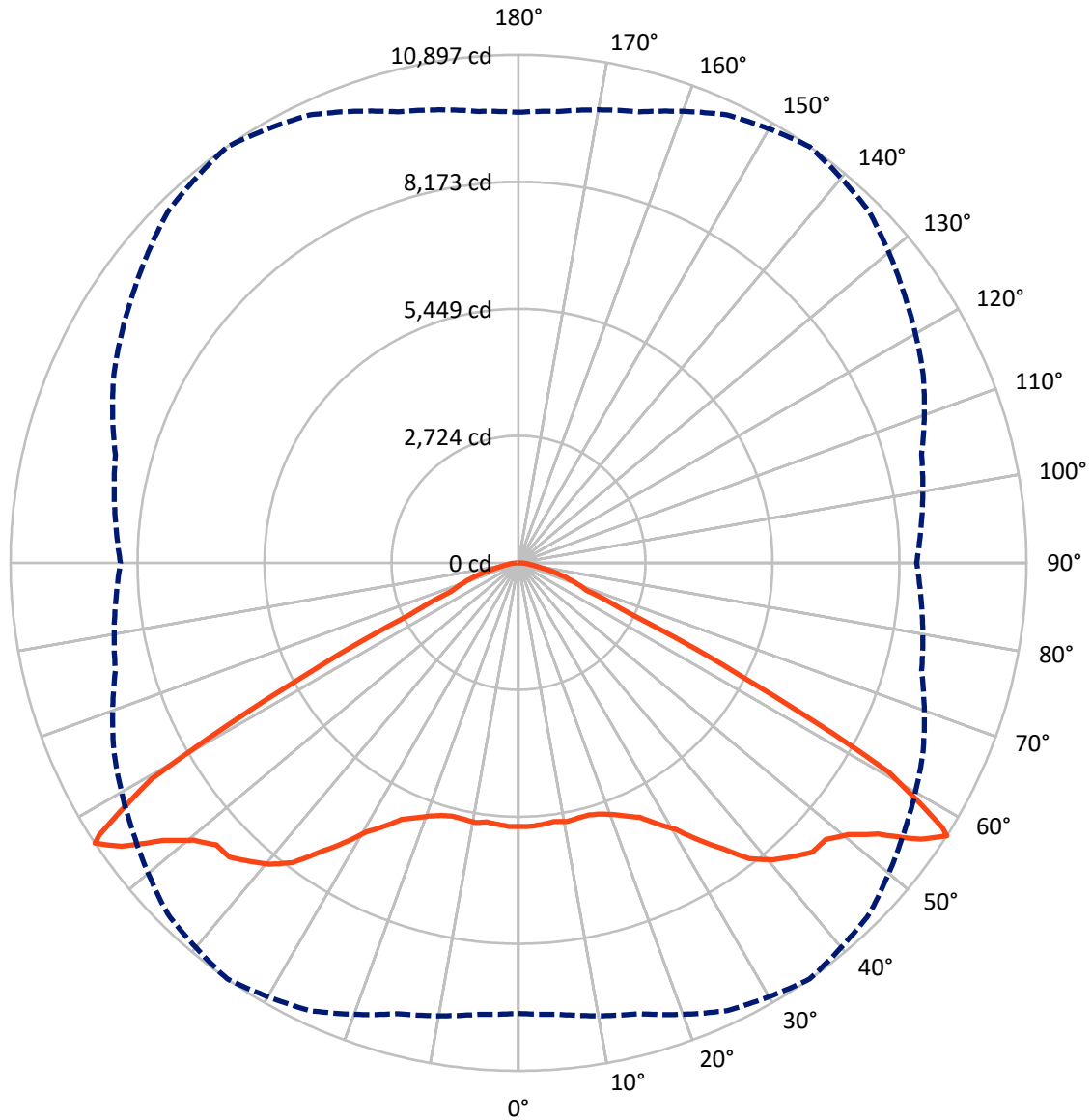
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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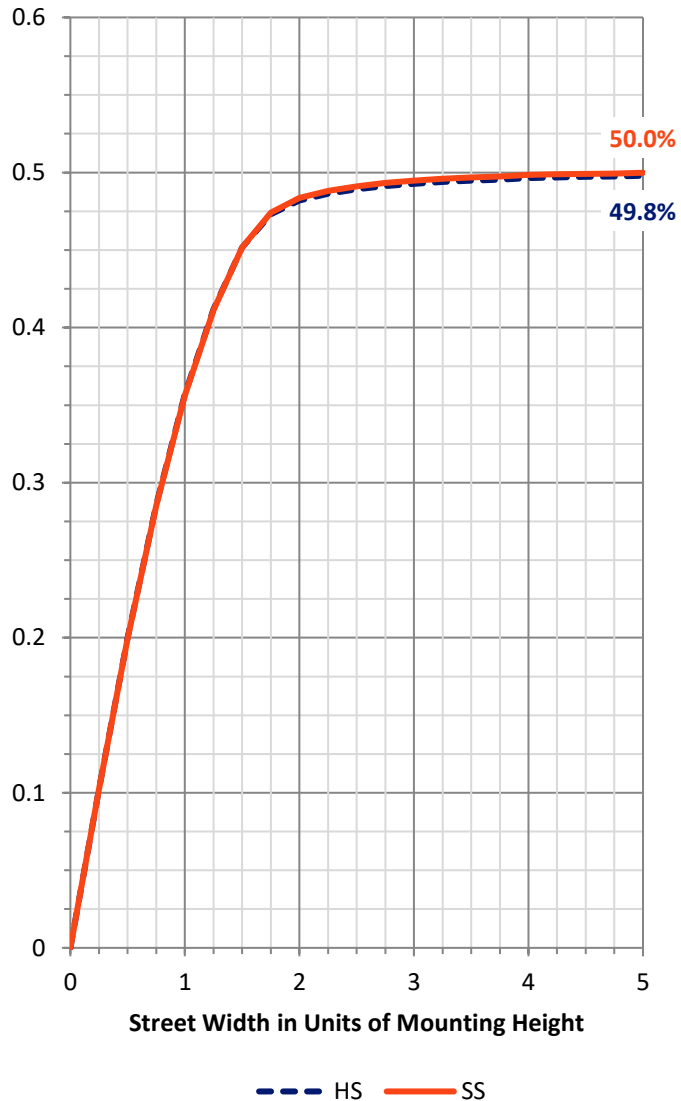
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14326.2	0.0	14326.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14326.2	0.0	14326.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	28652.3	0.0	28652.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.5	1.9
10°-20°	1588.8	5.5
20°-30°	2774.9	9.7
30°-40°	4546.7	15.9
40°-50°	6666.6	23.3
50°-60°	8397.1	29.3
60°-70°	3158.1	11.0
70°-80°	839.7	2.9
80°-90°	144.0	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°	28652.3	100.0
0°-180°	28652.3	100.0

Coefficient of Utilization

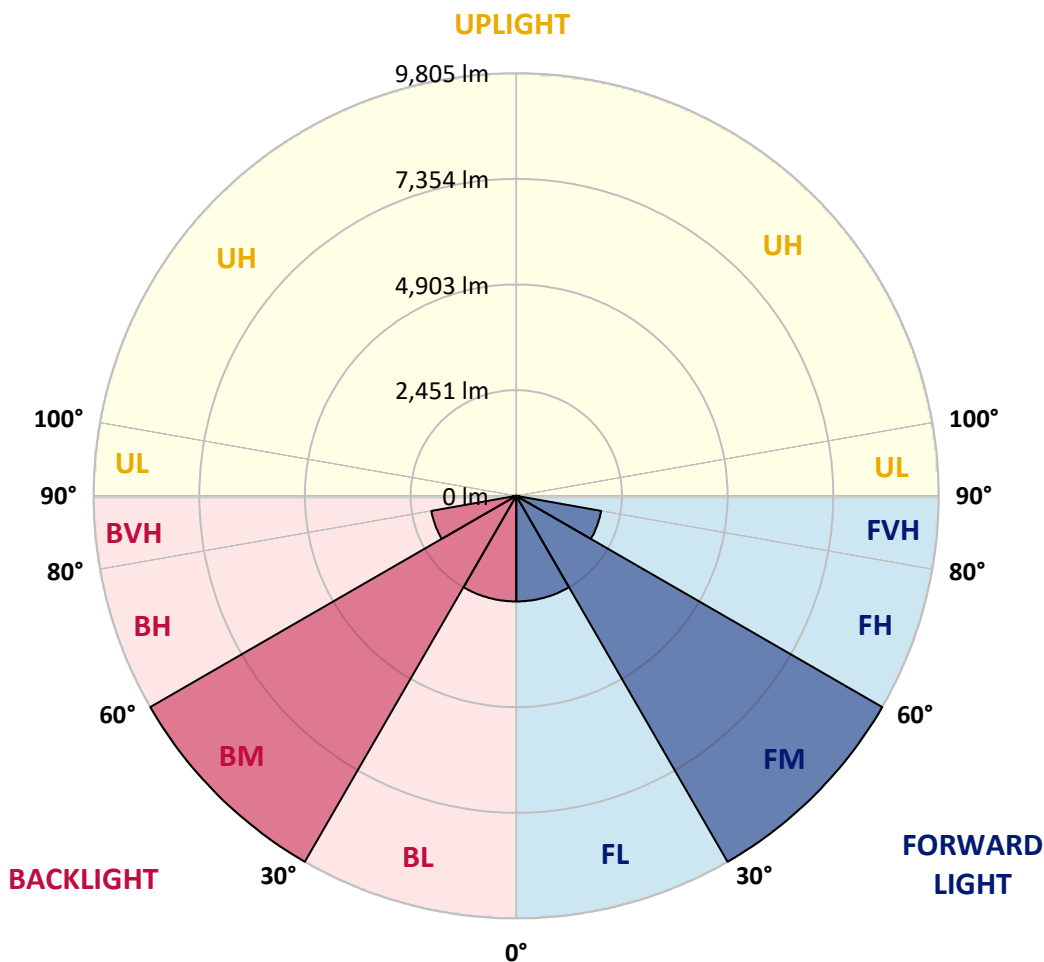


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2450.1	8.6			
FM (30°-60°)	9805.2	34.2			
FH (60°-80°)	1998.9	7.0			G2/5000
FVH (80°-90°)	72.0	0.3			G1/100
BL (0°-30°)	2450.1	8.6	B3/2500		
BM (30°-60°)	9805.2	34.2	B5		
BH (60°-80°)	1998.9	7.0	B3/2500		G2/5000
BVH (80°-90°)	72.0	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°	5658.6	5658.6	5658.6	5658.6	5658.6	5658.6	5658.6	5658.6	5658.6	5658.6	5658.6
2.5°	5630.4	5686.9	5662.2	5648.0	5658.6	5641.0	5612.7	5644.5	5637.4	5609.2	5598.6
5°	5616.2	5658.6	5630.4	5658.6	5630.4	5679.8	5665.7	5612.7	5676.3	5616.2	5637.4
7.5°	5605.7	5619.8	5626.9	5612.7	5602.1	5662.2	5630.4	5605.7	5570.3	5559.8	5577.5
10°	5581.0	5616.2	5563.3	5633.9	5648.0	5605.7	5605.7	5559.8	5531.5	5513.9	5573.9
12.5°	5644.5	5584.5	5577.5	5612.7	5623.3	5641.0	5591.6	5566.8	5513.9	5520.9	5510.4
15°	5570.3	5595.1	5598.6	5605.7	5616.2	5658.6	5612.7	5559.8	5538.6	5464.5	5471.5
17.5°	5598.6	5573.9	5598.6	5679.8	5665.7	5697.4	5648.0	5566.8	5517.4	5475.0	5531.5
20°	5648.0	5637.4	5648.0	5746.9	5764.5	5792.8	5750.4	5676.3	5581.0	5531.5	5559.8
22.5°	5700.9	5693.9	5700.9	5796.3	5898.7	5934.0	5891.6	5718.6	5669.2	5577.5	5545.7
25°	5796.3	5803.4	5877.5	5983.4	6050.5	6117.5	6039.8	5916.3	5757.5	5700.9	5633.9
27.5°	6008.1	6025.7	6068.1	6223.4	6340.0	6399.9	6290.5	6121.0	6022.2	5905.7	5888.1
30°	6269.3	6269.3	6343.5	6477.6	6636.5	6728.2	6594.1	6392.9	6272.8	6209.3	6170.5
32.5°	6615.3	6576.4	6604.7	6841.1	7088.3	7165.9	6985.9	6738.8	6548.2	6463.4	6435.2
35°	6911.8	6936.5	7000.0	7254.2	7529.6	7709.6	7427.1	7106.0	6911.8	6834.1	6820.0
37.5°	7296.5	7338.9	7370.7	7720.1	8052.0	8119.1	7847.2	7589.5	7353.0	7289.5	7254.2
40°	7840.2	7811.9	7822.6	8080.2	8380.3	8422.7	8154.3	7970.8	7776.6	7737.8	7737.8
42.5°	8288.5	8256.7	8292.0	8387.3	8616.8	8585.0	8436.7	8302.6	8221.4	8179.1	8221.4
45°	8560.3	8553.3	8616.8	8687.4	8849.8	8743.8	8627.4	8648.5	8570.9	8500.3	8496.7
47.5°	8856.8	8810.9	8888.6	8994.5	8870.9	8821.5	8814.5	8860.3	8835.6	8712.1	8673.3
50°	9001.5	8983.9	9107.5	9231.0	9163.9	9050.9	9075.7	9149.8	8832.1	8666.2	8570.9
52.5°	9389.8	9393.4	9629.9	9697.0	9668.7	9502.8	9555.7	9354.6	8980.4	8747.4	8758.0
55°	10000.6	9975.8	10240.6	10438.3	10470.0	10258.2	10004.1	9721.6	9252.2	9015.7	8945.1
57°	9665.2	9721.6	10014.6	10600.6	10897.2	10646.5	10092.3	9577.0	8952.1	8666.2	8539.1
57.5°	9216.8	9308.7	9817.0	10406.5	10717.2	10695.9	9982.9	9308.7	8750.9	8306.1	8316.7
60°	6752.9	6770.6	7229.5	8165.0	9135.7	9156.9	8288.5	7395.4	6774.1	6290.5	6357.6
62.5°	3561.8	3643.0	3826.5	4578.4	5418.6	5623.3	5097.3	4638.4	4101.9	3734.8	3770.1
65°	1885.0	1874.4	1962.7	2174.5	2587.5	2693.4	2622.8	2259.2	2072.1	2012.1	2015.7
67.5°	1532.0	1549.7	1539.1	1549.7	1577.9	1623.8	1613.2	1627.3	1638.0	1655.6	1652.1
70°	1299.1	1299.1	1306.1	1309.6	1309.6	1330.8	1355.5	1401.4	1404.9	1422.6	1429.7
72.5°	1023.7	1016.6	1027.2	1052.0	1055.5	1073.1	1108.4	1136.7	1147.3	1147.3	1126.1
75°	695.4	702.5	716.6	737.7	759.0	790.8	818.9	836.6	843.7	833.1	822.5
77.5°	391.8	398.9	409.5	441.2	466.0	494.2	525.9	543.6	561.3	564.8	543.6
80°	232.9	232.9	250.6	275.3	303.6	331.8	360.0	381.2	388.3	388.3	377.7
82.5°	141.2	144.7	158.9	183.5	208.3	225.9	250.6	268.3	282.4	278.9	271.8
85°	74.2	74.2	88.2	109.5	127.1	144.7	144.7	134.1	127.1	109.5	102.3
87.5°	24.7	21.1	28.3	28.3	24.7	28.3	28.3	31.8	31.8	31.8	31.8
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)