

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: P648629

Luminaire Tested: **GALN-SA9B-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648629
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-SA9B-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA 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: 35651.6 lumens
Efficiency: N/A
Efficacy: 97.9 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

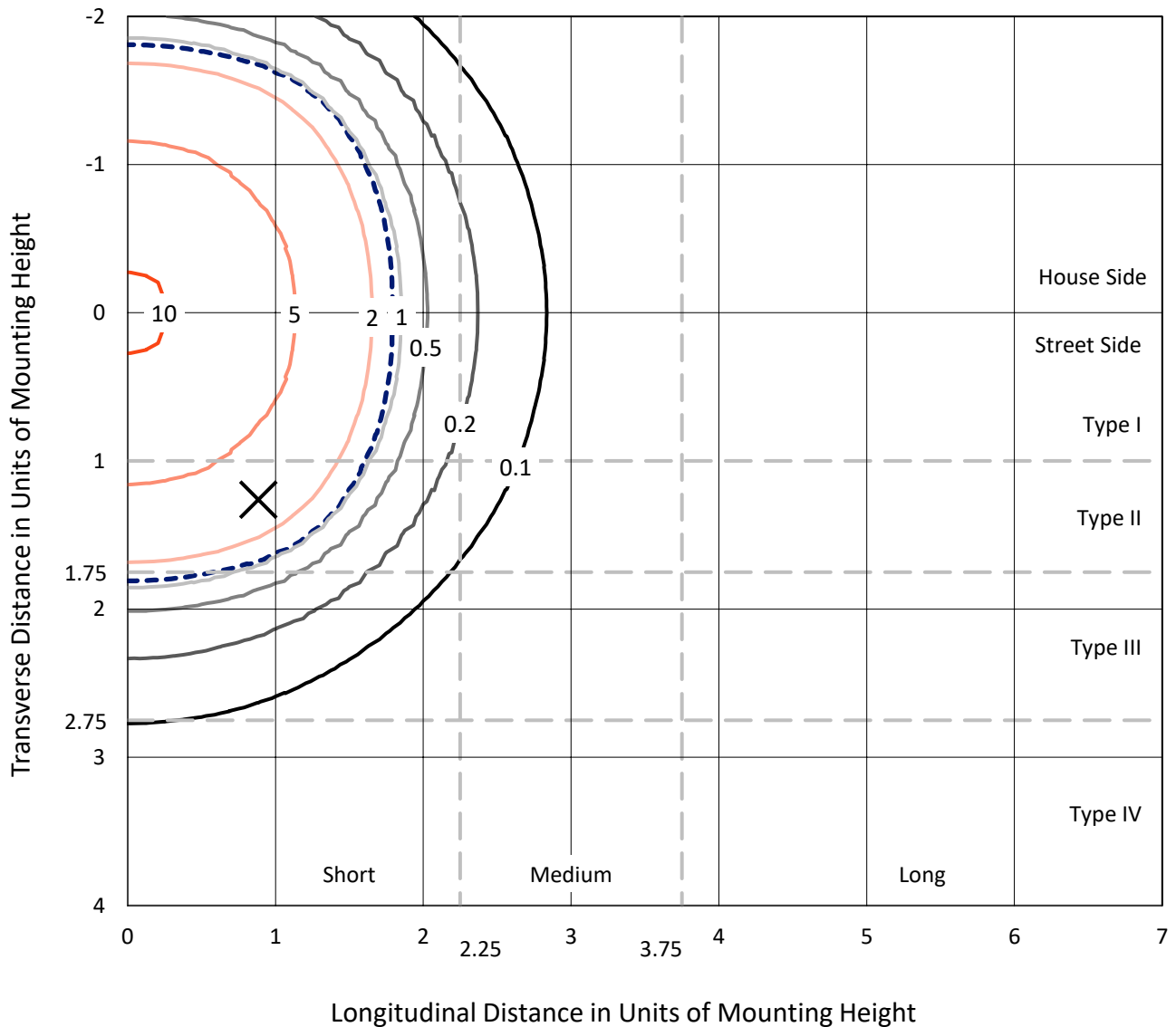
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

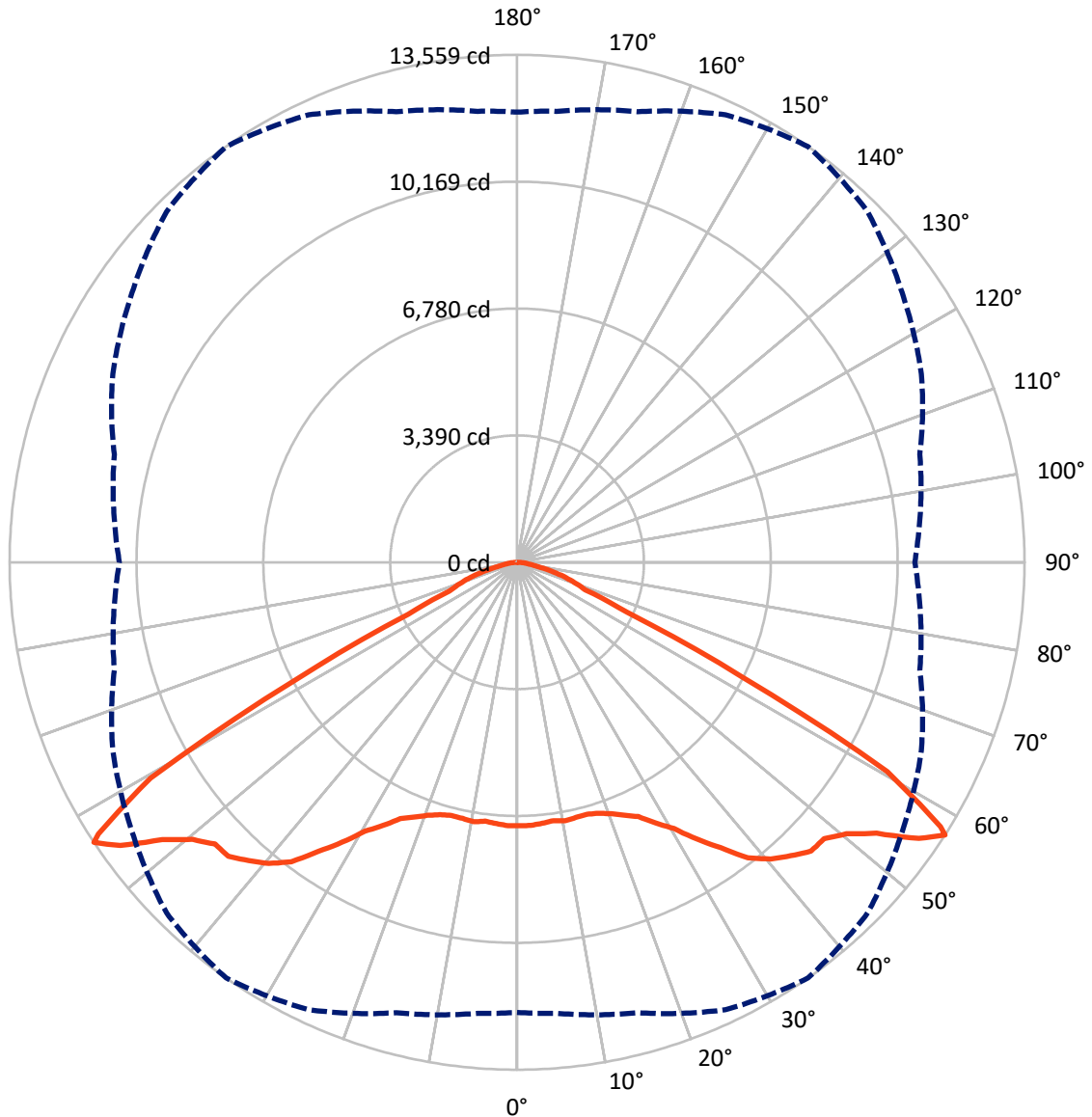
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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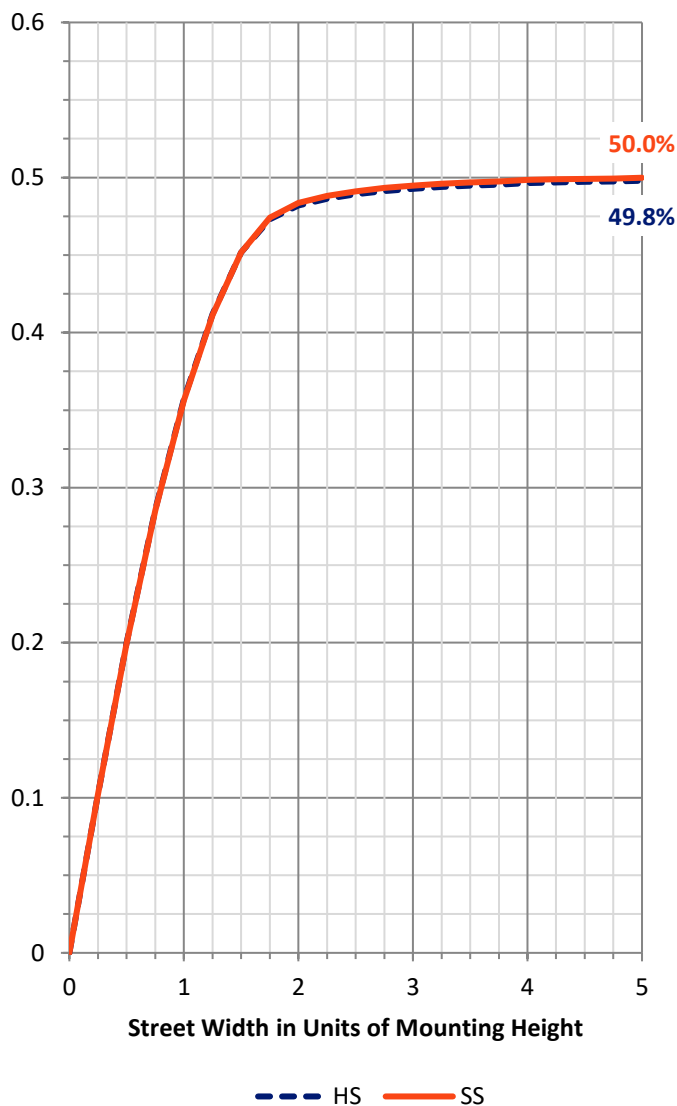
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17825.8	0.0	17825.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17825.8	0.0	17825.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	35651.6	0.0	35651.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.5	1.9
10°-20°	1977.0	5.5
20°-30°	3452.7	9.7
30°-40°	5657.4	15.9
40°-50°	8295.1	23.3
50°-60°	10448.3	29.3
60°-70°	3929.5	11.0
70°-80°	1044.8	2.9
80°-90°	179.2	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°	35651.6	100.0
0°-180°	35651.6	100.0

Coefficient of Utilization



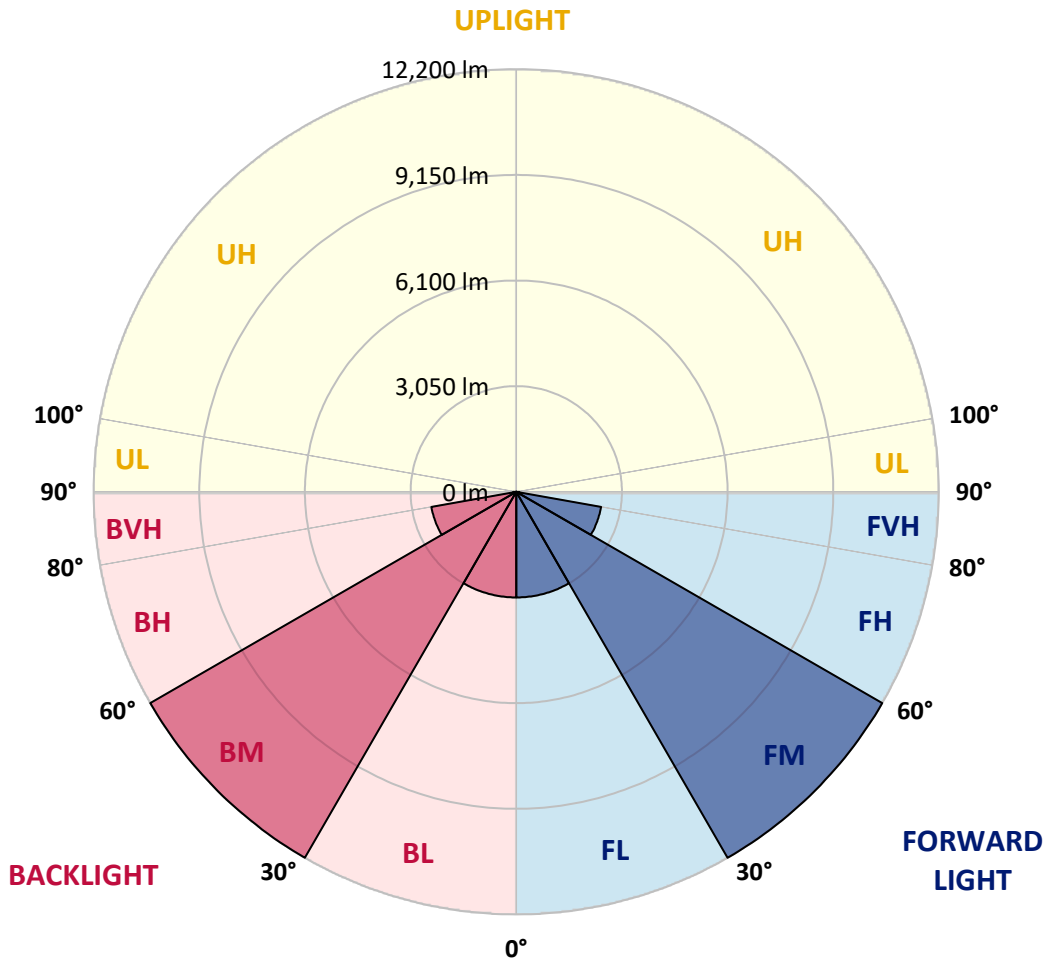
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3048.6	8.6			
FM (30°-60°)	12200.4	34.2			
FH (60°-80°)	2487.2	7.0			G2/5000
FVH (80°-90°)	89.6	0.3			G1/100
BL (0°-30°)	3048.6	8.6	B4/5000		
BM (30°-60°)	12200.4	34.2	B5		
BH (60°-80°)	2487.2	7.0	B3/2500		G2/5000
BVH (80°-90°)	89.6	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°	7040.9	7040.9	7040.9	7040.9	7040.9	7040.9	7040.9	7040.9	7040.9	7040.9	7040.9
2.5°	7005.8	7076.0	7045.3	7027.7	7040.9	7019.0	6983.8	7023.4	7014.6	6979.4	6966.3
5°	6988.2	7040.9	7005.8	7040.9	7005.8	7067.3	7049.7	6983.8	7062.9	6988.2	7014.6
7.5°	6975.0	6992.6	7001.4	6983.8	6970.7	7045.3	7005.8	6975.0	6931.1	6918.0	6939.9
10°	6944.3	6988.2	6922.3	7010.2	7027.7	6975.0	6975.0	6918.0	6882.8	6860.8	6935.5
12.5°	7023.4	6948.7	6939.9	6983.8	6997.0	7019.0	6957.5	6926.7	6860.8	6869.7	6856.4
15°	6931.1	6961.9	6966.3	6975.0	6988.2	7040.9	6983.8	6918.0	6891.6	6799.3	6808.1
17.5°	6966.3	6935.5	6966.3	7067.3	7049.7	7089.2	7027.7	6926.7	6865.2	6812.5	6882.8
20°	7027.7	7014.6	7027.7	7150.7	7172.7	7207.8	7155.1	7062.9	6944.3	6882.8	6918.0
22.5°	7093.7	7084.8	7093.7	7212.2	7339.6	7383.5	7330.8	7115.6	7054.1	6939.9	6900.3
25°	7212.2	7221.0	7313.2	7445.0	7528.5	7611.9	7515.3	7361.5	7163.9	7093.7	7010.2
27.5°	7475.8	7497.7	7550.5	7743.7	7888.6	7963.3	7827.2	7616.3	7493.3	7348.4	7326.5
30°	7800.8	7800.8	7893.0	8060.0	8257.6	8371.8	8204.9	7954.5	7805.2	7726.1	7677.8
32.5°	8231.2	8182.9	8218.1	8512.4	8819.8	8916.4	8692.5	8385.0	8147.8	8042.3	8007.3
35°	8600.2	8630.9	8710.0	9026.3	9368.8	9592.8	9241.5	8841.8	8600.2	8503.5	8486.0
37.5°	9079.0	9131.7	9171.2	9606.1	10019.0	10102.3	9764.2	9443.5	9149.3	9070.2	9026.3
40°	9755.4	9720.2	9733.4	10054.0	10427.4	10480.1	10146.3	9917.9	9676.3	9628.0	9628.0
42.5°	10313.2	10273.7	10317.6	10436.2	10721.7	10682.2	10497.7	10330.7	10229.7	10177.0	10229.7
45°	10651.4	10642.6	10721.7	10809.5	11011.6	10879.8	10734.9	10761.2	10664.6	10576.8	10572.4
47.5°	11020.4	10963.3	11059.9	11191.7	11038.0	10976.5	10967.6	11024.8	10994.0	10840.3	10792.0
50°	11200.5	11178.5	11332.2	11486.0	11402.5	11262.0	11292.7	11385.0	10989.6	10783.2	10664.6
52.5°	11683.6	11688.0	11982.3	12065.7	12030.6	11824.2	11890.1	11639.7	11174.1	10884.2	10897.4
55°	12443.5	12412.7	12742.2	12988.2	13027.7	12764.2	12447.9	12096.5	11512.3	11218.0	11130.2
57°	12026.3	12096.5	12461.1	13190.2	13559.1	13247.3	12557.7	11916.4	11139.0	10783.2	10625.1
57.5°	11468.4	11582.6	12215.1	12948.6	13335.1	13308.8	12421.5	11582.6	10888.6	10335.2	10348.4
60°	8402.5	8424.5	8995.5	10159.5	11367.4	11393.7	10313.2	9202.0	8428.9	7827.2	7910.6
62.5°	4431.9	4532.9	4761.3	5696.9	6742.3	6997.0	6342.5	5771.6	5103.9	4647.1	4691.0
65°	2345.5	2332.3	2442.2	2705.7	3219.6	3351.3	3263.5	2811.1	2578.3	2503.6	2508.0
67.5°	1906.3	1928.2	1915.1	1928.2	1963.4	2020.5	2007.3	2024.8	2038.1	2060.0	2055.6
70°	1616.3	1616.3	1625.2	1629.6	1629.6	1655.9	1686.7	1743.7	1748.1	1770.1	1778.9
72.5°	1273.8	1265.0	1278.2	1308.9	1313.3	1335.2	1379.2	1414.3	1427.5	1427.5	1401.2
75°	865.3	874.1	891.7	918.0	944.4	983.9	1019.0	1041.0	1049.8	1036.6	1023.4
77.5°	487.6	496.3	509.5	549.0	579.8	614.9	654.4	676.4	698.4	702.7	676.4
80°	289.9	289.9	311.9	342.6	377.7	412.9	448.0	474.3	483.2	483.2	470.0
82.5°	175.7	180.1	197.6	228.4	259.2	281.1	311.9	333.8	351.4	347.0	338.2
85°	92.2	92.2	109.8	136.2	158.1	180.1	180.1	166.9	158.1	136.2	127.4
87.5°	30.8	26.4	35.2	35.2	30.8	35.2	35.2	39.5	39.5	39.5	39.5
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)