

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: P647639

Luminaire Tested: **GALN-SA9D-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647639
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-SA9D-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA 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: 48468.5 lumens
Efficiency: N/A
Efficacy: 87.8 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

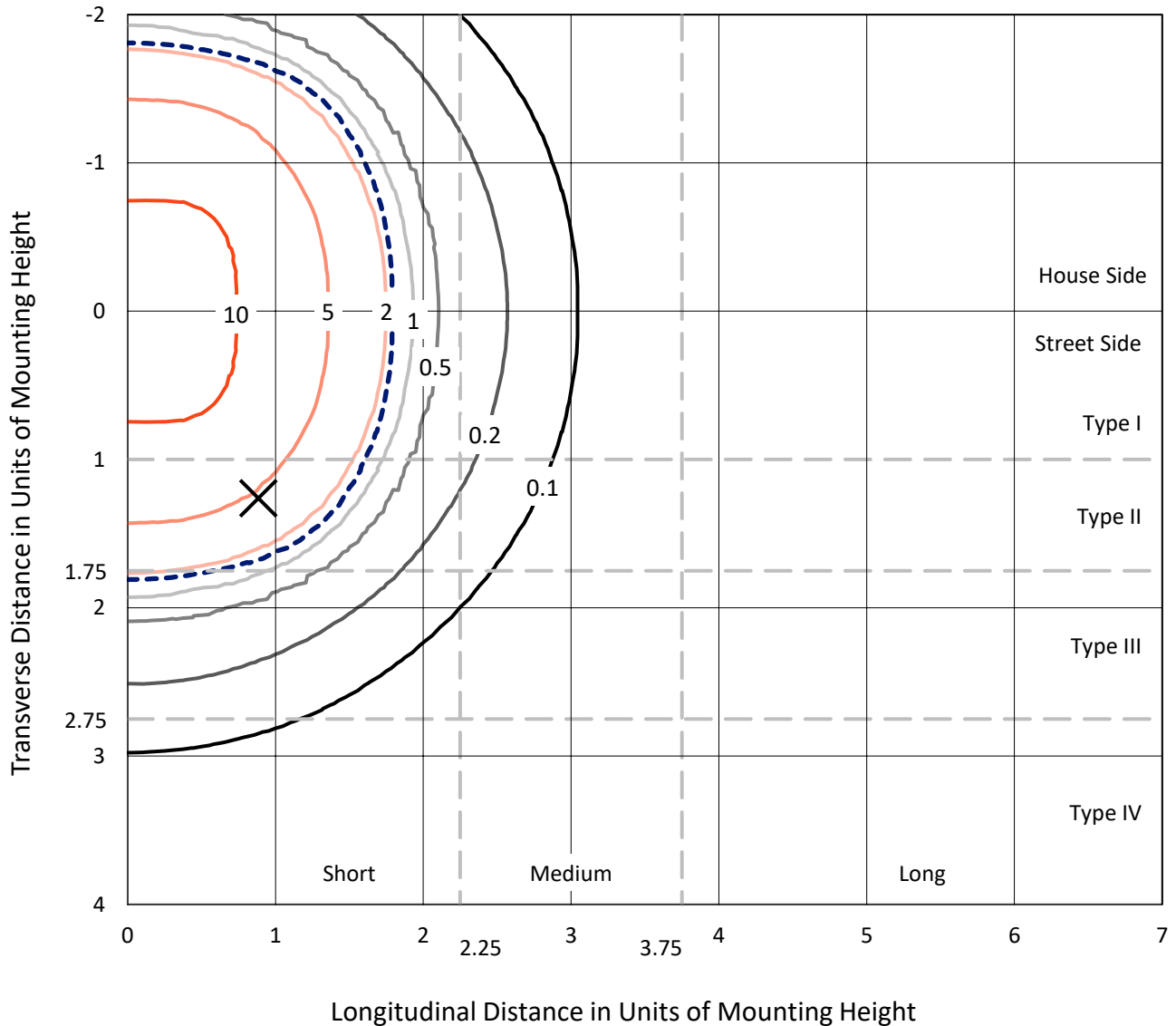
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

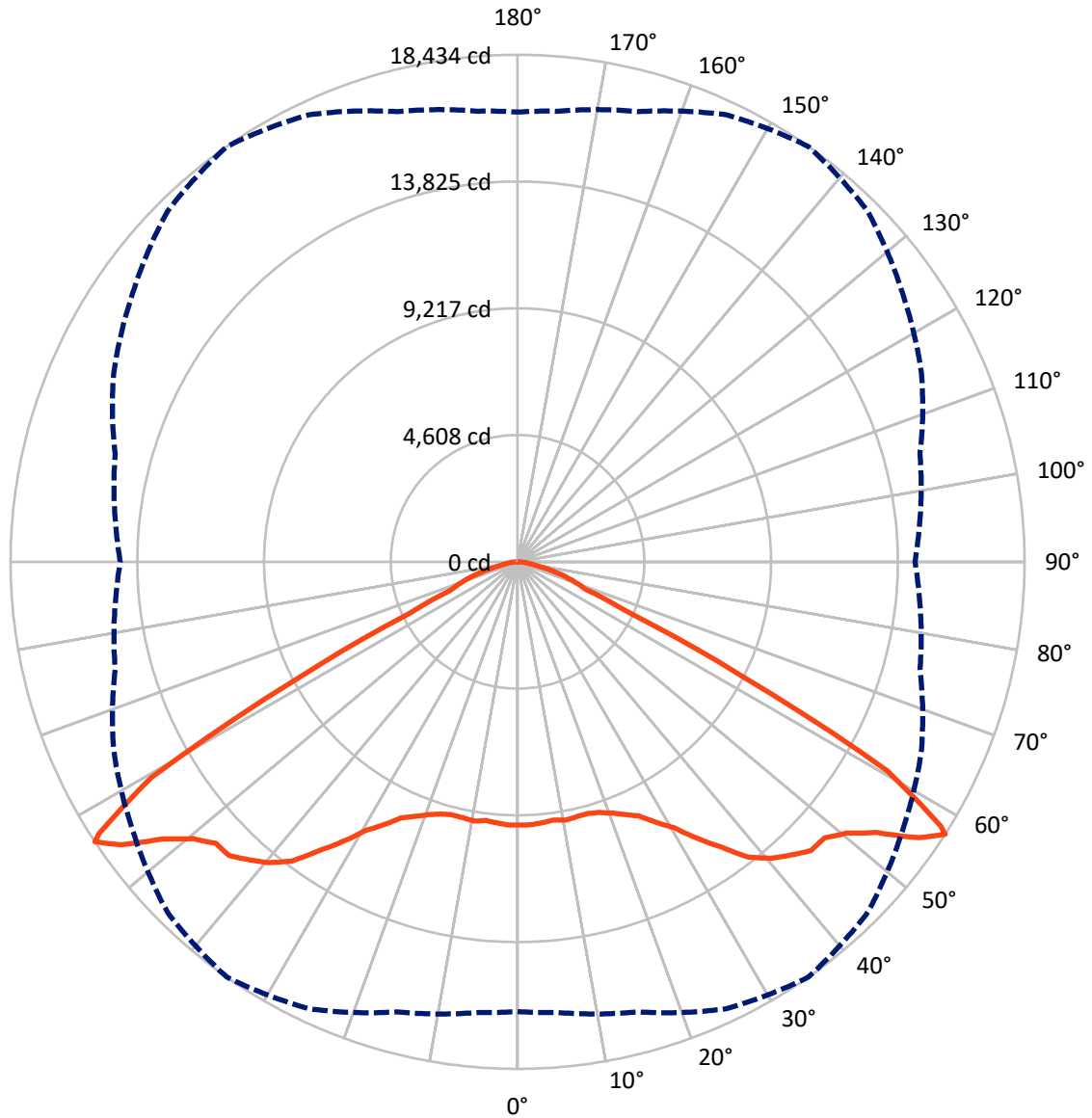
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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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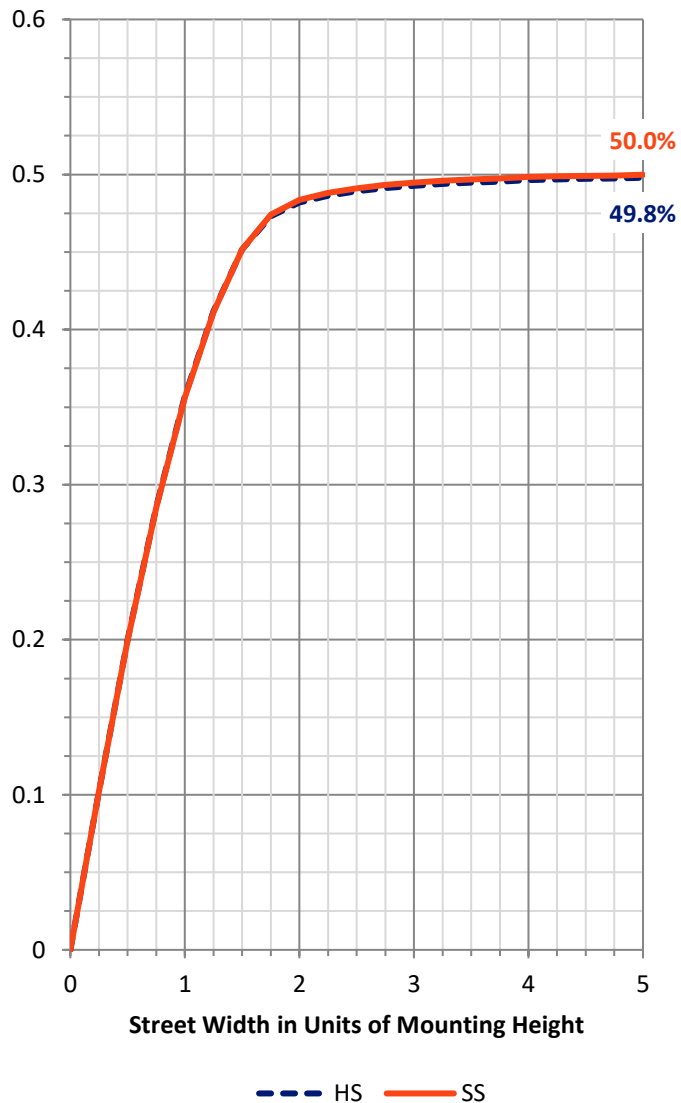
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24234.2	0.0	24234.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24234.2	0.0	24234.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	48468.5	0.0	48468.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	907.5	1.9
10°-20°	2687.7	5.5
20°-30°	4694.0	9.7
30°-40°	7691.3	15.9
40°-50°	11277.3	23.3
50°-60°	14204.6	29.3
60°-70°	5342.2	11.0
70°-80°	1420.5	2.9
80°-90°	243.6	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°	48468.5	100.0
0°-180°	48468.5	100.0

Coefficient of Utilization

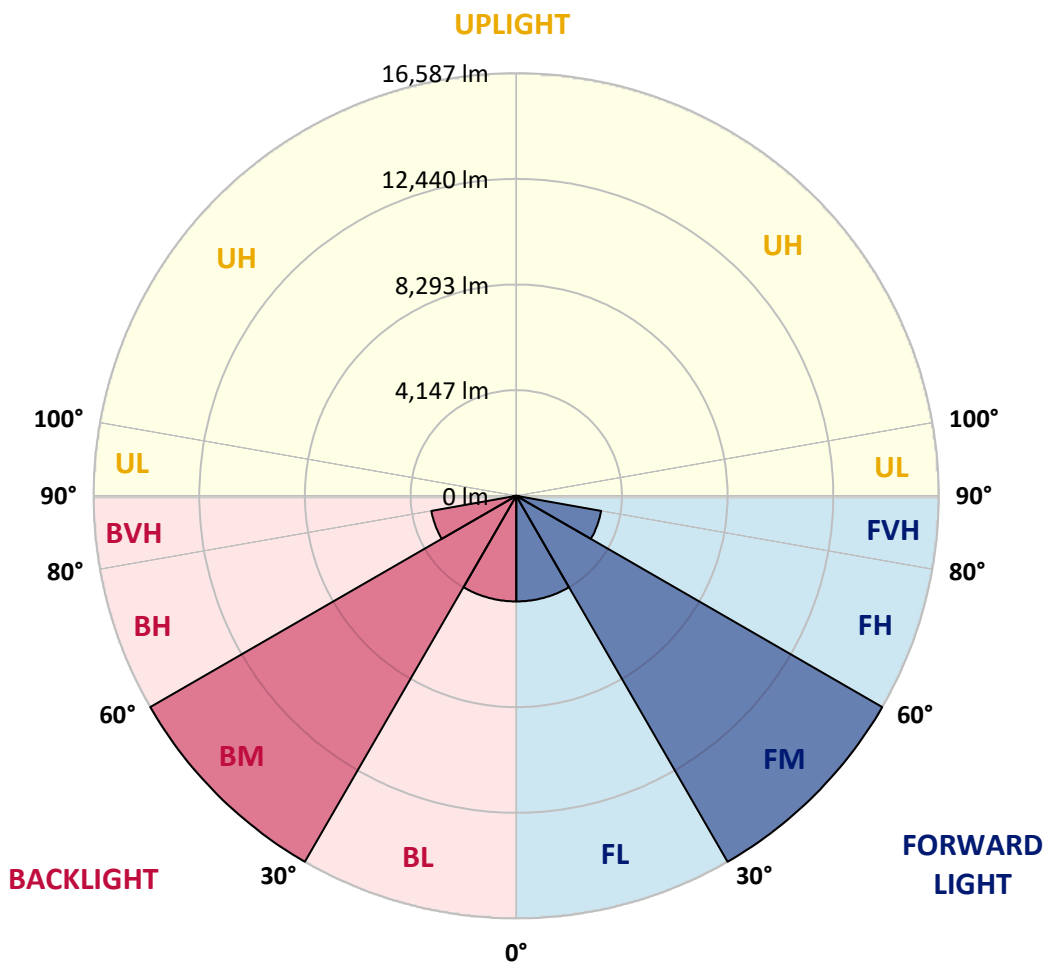


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4144.6	8.6			
FM (30°-60°)	16586.5	34.2			
FH (60°-80°)	3381.3	7.0			G2/5000
FVH (80°-90°)	121.8	0.3			G2/225
BL (0°-30°)	4144.6	8.6	B4/5000		
BM (30°-60°)	16586.5	34.2	B5		
BH (60°-80°)	3381.3	7.0	B4/5000		G2/5000
BVH (80°-90°)	121.8	0.3			G2/225
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°	9572.2	9572.2	9572.2	9572.2	9572.2	9572.2	9572.2	9572.2	9572.2	9572.2	9572.2
2.5°	9524.4	9619.9	9578.1	9554.2	9572.2	9542.3	9494.5	9548.3	9536.3	9488.6	9470.6
5°	9500.5	9572.2	9524.4	9572.2	9524.4	9608.0	9584.1	9494.5	9602.0	9500.5	9536.3
7.5°	9482.6	9506.5	9518.5	9494.5	9476.6	9578.1	9524.4	9482.6	9422.9	9405.0	9434.8
10°	9440.8	9500.5	9411.0	9530.4	9554.2	9482.6	9482.6	9405.0	9357.2	9327.3	9428.9
12.5°	9548.3	9446.7	9434.8	9494.5	9512.4	9542.3	9458.7	9416.9	9327.3	9339.3	9321.4
15°	9422.9	9464.7	9470.6	9482.6	9500.5	9572.2	9494.5	9405.0	9369.1	9243.7	9255.7
17.5°	9470.6	9428.9	9470.6	9608.0	9584.1	9637.9	9554.2	9416.9	9333.3	9261.6	9357.2
20°	9554.2	9536.3	9554.2	9721.4	9751.3	9799.1	9727.4	9602.0	9440.8	9357.2	9405.0
22.5°	9643.8	9631.9	9643.8	9805.0	9978.2	10037.9	9966.3	9673.7	9590.1	9434.8	9381.0
25°	9805.0	9817.0	9942.4	10121.5	10235.0	10348.4	10217.1	10008.1	9739.3	9643.8	9530.4
27.5°	10163.3	10193.2	10264.8	10527.6	10724.7	10826.1	10641.0	10354.4	10187.2	9990.1	9960.3
30°	10605.2	10605.2	10730.6	10957.5	11226.3	11381.5	11154.6	10814.2	10611.2	10503.7	10438.0
32.5°	11190.4	11124.7	11172.5	11572.6	11990.6	12121.9	11817.4	11399.4	11076.9	10933.7	10885.9
35°	11692.0	11733.8	11841.3	12271.3	12737.0	13041.6	12563.9	12020.5	11692.0	11560.7	11536.8
37.5°	12342.9	12414.5	12468.3	13059.5	13620.8	13734.2	13274.4	12838.5	12438.4	12331.0	12271.3
40°	13262.5	13214.7	13232.6	13668.5	14176.1	14247.8	13794.0	13483.4	13155.0	13089.3	13089.3
42.5°	14020.9	13967.2	14026.8	14188.0	14576.2	14522.5	14271.7	14044.7	13907.4	13835.8	13907.4
45°	14480.6	14468.7	14576.2	14695.7	14970.3	14791.2	14594.1	14630.0	14498.6	14379.2	14373.2
47.5°	14982.2	14904.6	15036.0	15215.2	15006.1	14922.6	14910.6	14988.3	14946.5	14737.5	14671.8
50°	15227.1	15197.2	15406.2	15615.2	15501.8	15310.7	15352.5	15477.9	14940.5	14659.8	14498.6
52.5°	15883.9	15889.9	16290.0	16403.5	16355.7	16075.1	16164.6	15824.2	15191.3	14797.1	14815.1
55°	16917.0	16875.2	17323.1	17657.4	17711.2	17352.9	16923.0	16445.3	15651.1	15251.0	15131.6
57°	16349.7	16445.3	16940.9	17932.1	18433.8	18009.8	17072.2	16200.4	15143.5	14659.8	14444.9
57.5°	15591.3	15746.6	16606.5	17603.7	18129.2	18093.4	16887.1	15746.6	14803.1	14050.7	14068.6
60°	11423.3	11453.2	12229.4	13811.9	15454.0	15489.9	14020.9	12510.1	11459.1	10641.0	10754.5
62.5°	6025.2	6162.5	6473.0	7744.9	9166.1	9512.4	8622.7	7846.4	6938.8	6317.7	6377.5
65°	3188.8	3170.8	3320.1	3678.4	4377.0	4556.2	4436.8	3821.7	3505.3	3403.7	3409.7
67.5°	2591.6	2621.5	2603.6	2621.5	2669.2	2746.8	2728.9	2752.8	2770.7	2800.6	2794.6
70°	2197.5	2197.5	2209.4	2215.4	2215.4	2251.2	2293.0	2370.6	2376.6	2406.5	2418.5
72.5°	1731.7	1719.8	1737.7	1779.4	1785.5	1815.3	1875.1	1922.8	1940.7	1940.7	1904.9
75°	1176.4	1188.3	1212.2	1248.0	1283.9	1337.6	1385.4	1415.2	1427.2	1409.2	1391.3
77.5°	662.8	674.8	692.7	746.4	788.2	836.0	889.7	919.6	949.5	955.4	919.6
80°	394.1	394.1	424.0	465.8	513.6	561.3	609.1	644.9	656.9	656.9	638.9
82.5°	238.9	244.8	268.7	310.5	352.4	382.2	424.0	453.8	477.7	471.8	459.8
85°	125.4	125.4	149.3	185.1	214.9	244.8	244.8	226.9	214.9	185.1	173.2
87.5°	41.8	35.9	47.8	47.8	41.8	47.8	47.8	53.7	53.7	53.7	53.7
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)