

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: P647144

Luminaire Tested: **GALN-SA9C-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647144
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-SA9C-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 44048.4 lumens
Efficiency: N/A
Efficacy: 91.6 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

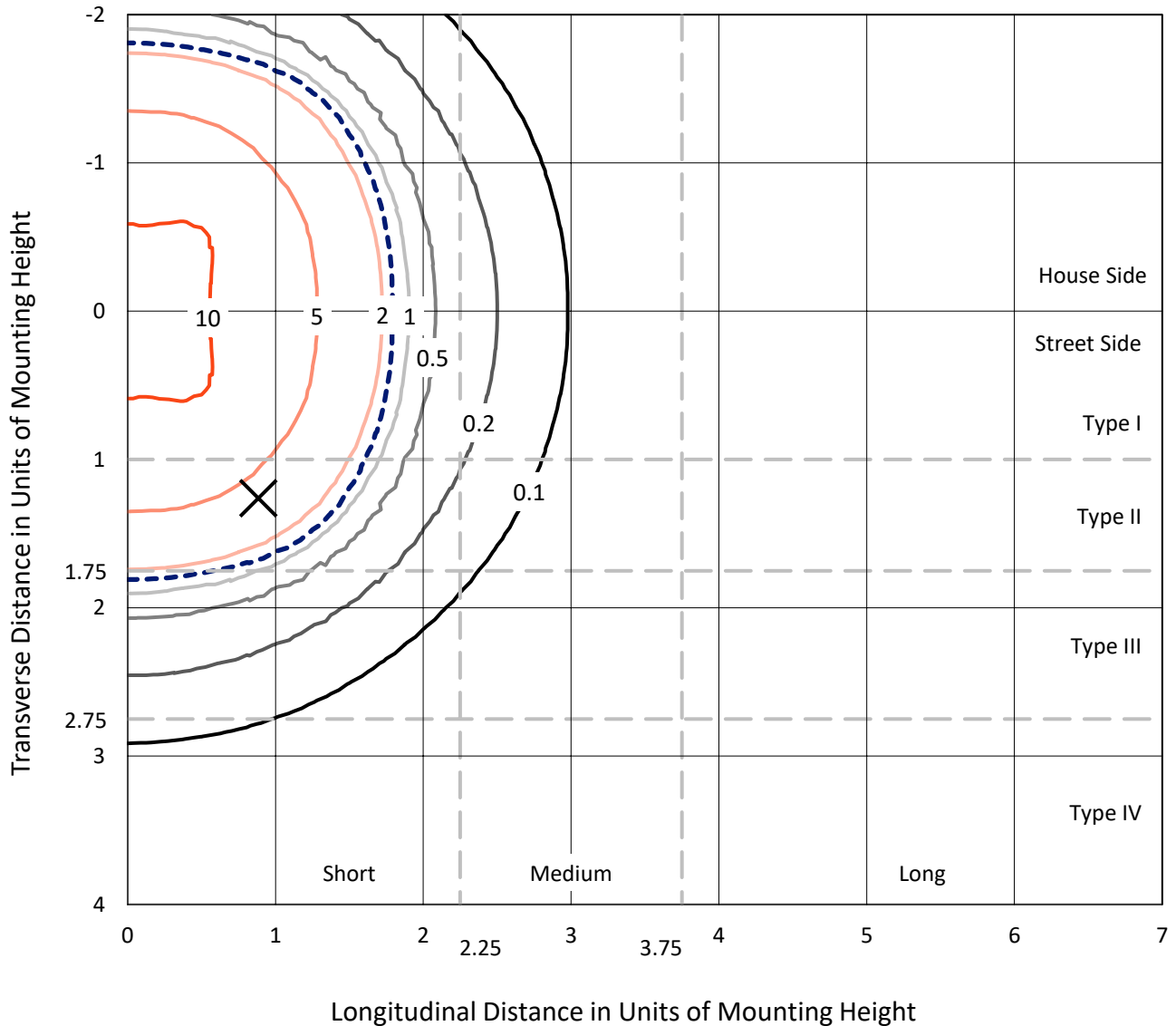
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647144
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Iso-Footcandle Lines of Horizontal Illumination

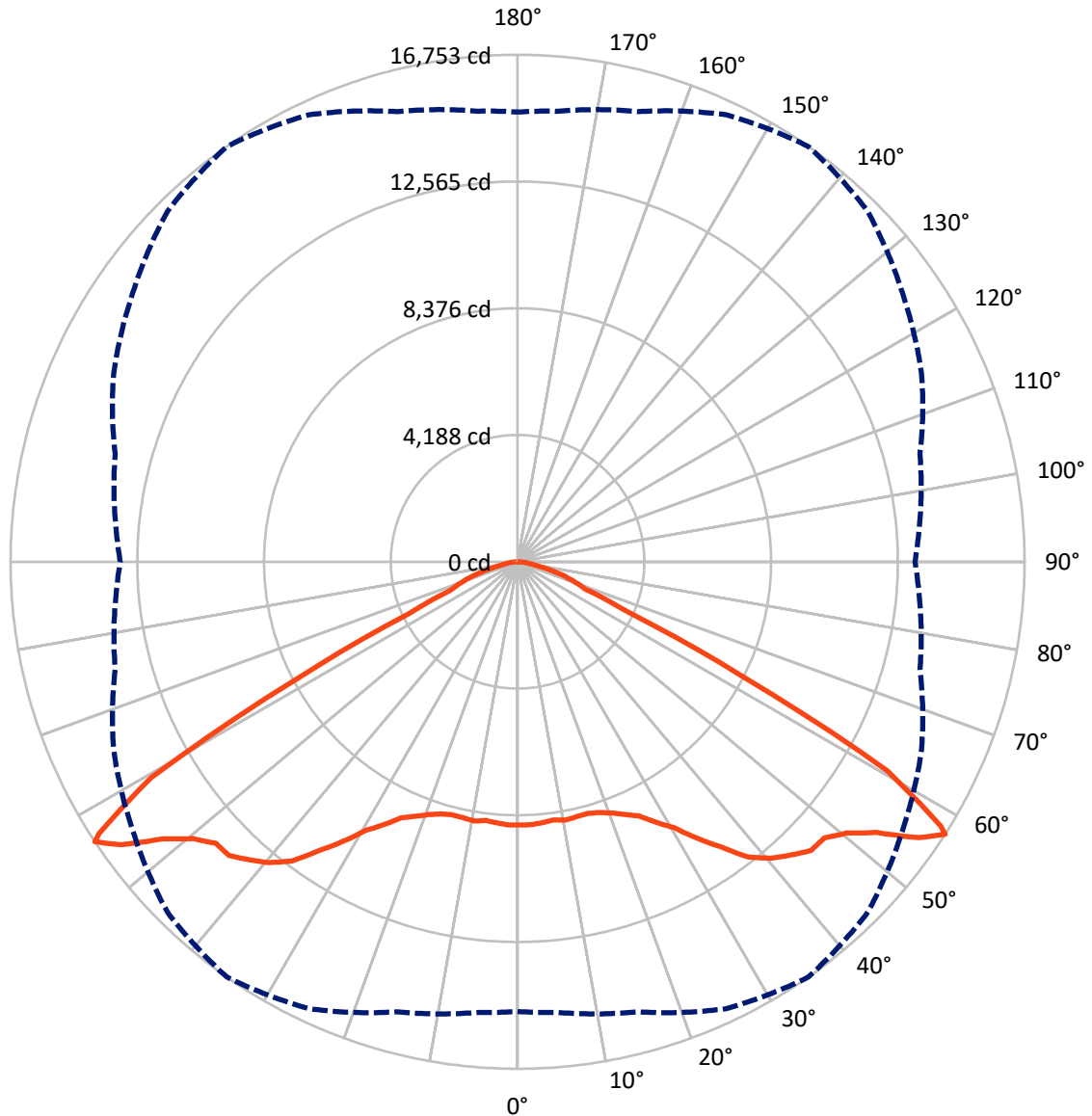
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type V - Short - N/A

REPORT NUMBER: P647144
CATALOG NUMBER: GALN-SA9C-835-U-5MQ-GRSWH

Luminous Intensity Polar Plot



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

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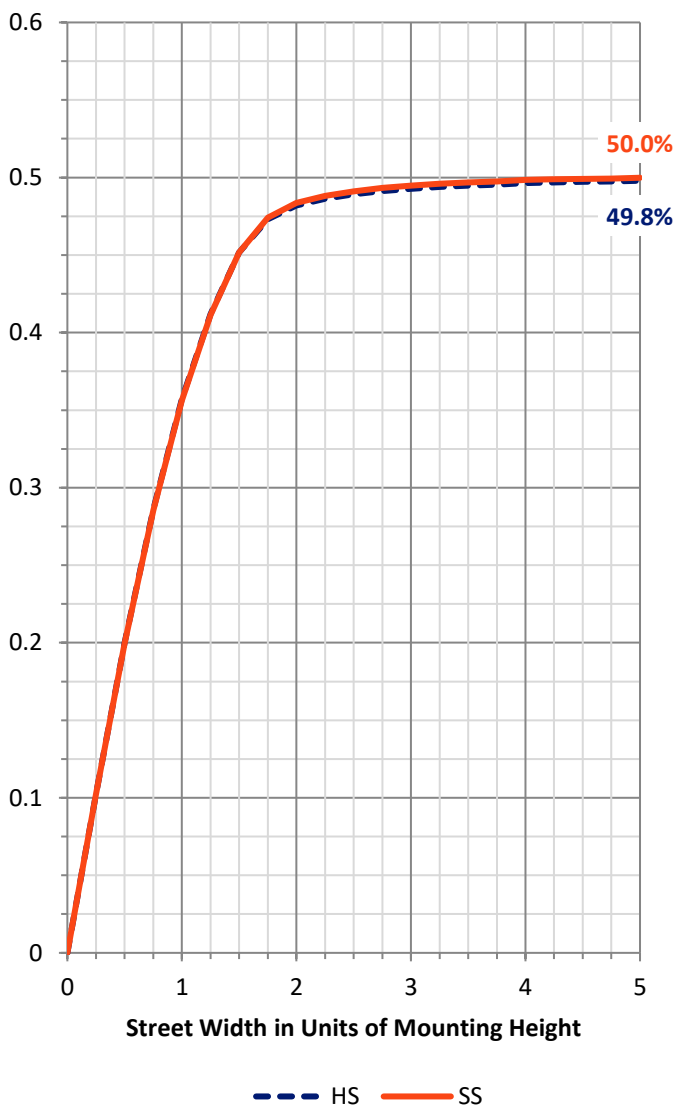
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22024.2	0.0	22024.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22024.2	0.0	22024.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	44048.4	0.0	44048.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.7	1.9
10°-20°	2442.6	5.5
20°-30°	4265.9	9.7
30°-40°	6989.9	15.9
40°-50°	10248.8	23.3
50°-60°	12909.2	29.3
60°-70°	4855.0	11.0
70°-80°	1290.9	2.9
80°-90°	221.4	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°	44048.4	100.0
0°-180°	44048.4	100.0

Coefficient of Utilization



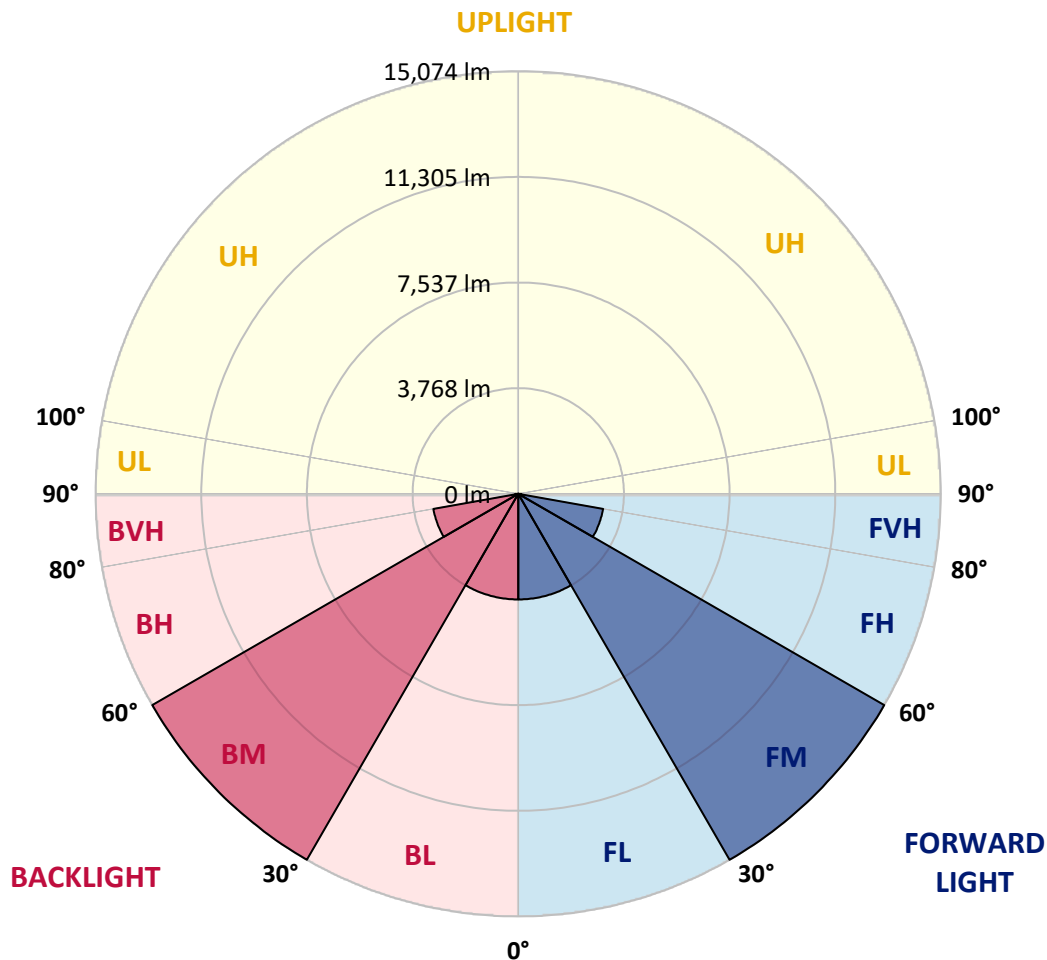
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3766.6	8.6			
FM (30°-60°)	15074.0	34.2			
FH (60°-80°)	3073.0	7.0			G2/5000
FVH (80°-90°)	110.7	0.3			G2/225
BL (0°-30°)	3766.6	8.6	B4/5000		
BM (30°-60°)	15074.0	34.2	B5		
BH (60°-80°)	3073.0	7.0	B4/5000		G2/5000
BVH (80°-90°)	110.7	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°	8699.2	8699.2	8699.2	8699.2	8699.2	8699.2	8699.2	8699.2	8699.2	8699.2	8699.2
2.5°	8655.8	8742.7	8704.7	8683.0	8699.2	8672.1	8628.7	8677.5	8666.7	8623.3	8607.0
5°	8634.1	8699.2	8655.8	8699.2	8655.8	8731.8	8710.1	8628.7	8726.4	8634.1	8666.7
7.5°	8617.9	8639.5	8650.4	8628.7	8612.5	8704.7	8655.8	8617.9	8563.6	8547.3	8574.4
10°	8579.9	8634.1	8552.7	8661.2	8683.0	8617.9	8617.9	8547.3	8503.8	8476.8	8569.0
12.5°	8677.5	8585.3	8574.4	8628.7	8644.9	8672.1	8596.2	8558.1	8476.8	8487.6	8471.3
15°	8563.6	8601.6	8607.0	8617.9	8634.1	8699.2	8628.7	8547.3	8514.7	8400.7	8411.6
17.5°	8607.0	8569.0	8607.0	8731.8	8710.1	8759.0	8683.0	8558.1	8482.2	8417.0	8503.8
20°	8683.0	8666.7	8683.0	8834.9	8862.1	8905.5	8840.3	8726.4	8579.9	8503.8	8547.3
22.5°	8764.4	8753.5	8764.4	8910.9	9068.2	9122.6	9057.4	8791.5	8715.5	8574.4	8525.6
25°	8910.9	8921.7	9035.7	9198.5	9301.6	9404.8	9285.4	9095.4	8851.2	8764.4	8661.2
27.5°	9236.5	9263.7	9328.7	9567.6	9746.6	9838.9	9670.7	9410.2	9258.2	9079.1	9052.0
30°	9638.1	9638.1	9752.0	9958.3	10202.5	10343.6	10137.3	9828.1	9643.5	9545.9	9486.1
32.5°	10169.9	10110.3	10153.6	10517.3	10897.1	11016.5	10739.7	10359.9	10066.8	9936.6	9893.1
35°	10625.8	10663.8	10761.5	11152.2	11575.5	11852.3	11418.1	10924.3	10625.8	10506.4	10484.7
37.5°	11217.3	11282.4	11331.3	11868.6	12378.7	12481.7	12063.9	11667.7	11304.2	11206.5	11152.2
40°	12053.0	12009.7	12025.9	12422.1	12883.3	12948.5	12536.1	12253.8	11955.4	11895.6	11895.6
42.5°	12742.2	12693.4	12747.7	12894.2	13247.0	13198.1	12970.2	12763.9	12639.1	12574.0	12639.1
45°	13160.1	13149.2	13247.0	13355.5	13605.1	13442.3	13263.2	13295.8	13176.4	13067.9	13062.4
47.5°	13616.0	13545.4	13664.8	13827.6	13637.7	13561.7	13550.8	13621.4	13583.4	13393.4	13333.8
50°	13838.5	13811.3	14001.3	14191.2	14088.1	13914.5	13952.4	14066.4	13578.0	13322.9	13176.4
52.5°	14435.4	14440.9	14804.4	14907.5	14864.2	14609.1	14690.5	14381.1	13805.9	13447.7	13464.0
55°	15374.3	15336.3	15743.3	16047.2	16096.1	15770.4	15379.7	14945.5	14223.7	13860.2	13751.7
57°	14858.8	14945.5	15396.0	16296.8	16752.7	16367.4	15515.4	14723.1	13762.5	13322.9	13127.5
57.5°	14169.5	14310.6	15092.1	15998.3	16475.9	16443.4	15347.1	14310.6	13453.2	12769.4	12785.7
60°	10381.6	10408.7	11114.2	12552.3	14044.7	14077.2	12742.2	11369.2	10414.1	9670.7	9773.8
62.5°	5475.7	5600.5	5882.7	7038.6	8330.2	8644.9	7836.3	7130.9	6306.0	5741.6	5795.8
65°	2898.0	2881.7	3017.4	3342.9	3977.9	4140.7	4032.1	3473.2	3185.6	3093.3	3098.7
67.5°	2355.3	2382.4	2366.1	2382.4	2425.8	2496.4	2480.1	2501.8	2518.0	2545.2	2539.7
70°	1997.1	1997.1	2007.9	2013.3	2013.3	2045.9	2083.9	2154.4	2159.9	2187.0	2197.9
72.5°	1573.8	1562.9	1579.2	1617.2	1622.6	1649.8	1704.0	1747.4	1763.7	1763.7	1731.1
75°	1069.1	1079.9	1101.7	1134.2	1166.7	1215.6	1259.1	1286.2	1297.0	1280.8	1264.5
77.5°	602.4	613.2	629.5	678.4	716.4	759.7	808.6	835.8	862.9	868.3	835.8
80°	358.1	358.1	385.3	423.3	466.7	510.1	553.5	586.1	597.0	597.0	580.7
82.5°	217.0	222.5	244.2	282.2	320.2	347.3	385.3	412.4	434.2	428.7	417.9
85°	113.9	113.9	135.7	168.3	195.4	222.5	222.5	206.2	195.4	168.3	157.4
87.5°	38.0	32.6	43.4	43.4	38.0	43.4	43.4	48.9	48.9	48.9	48.9
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)