

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: P651137

Luminaire Tested: **GALN-SA9C-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53506.9 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

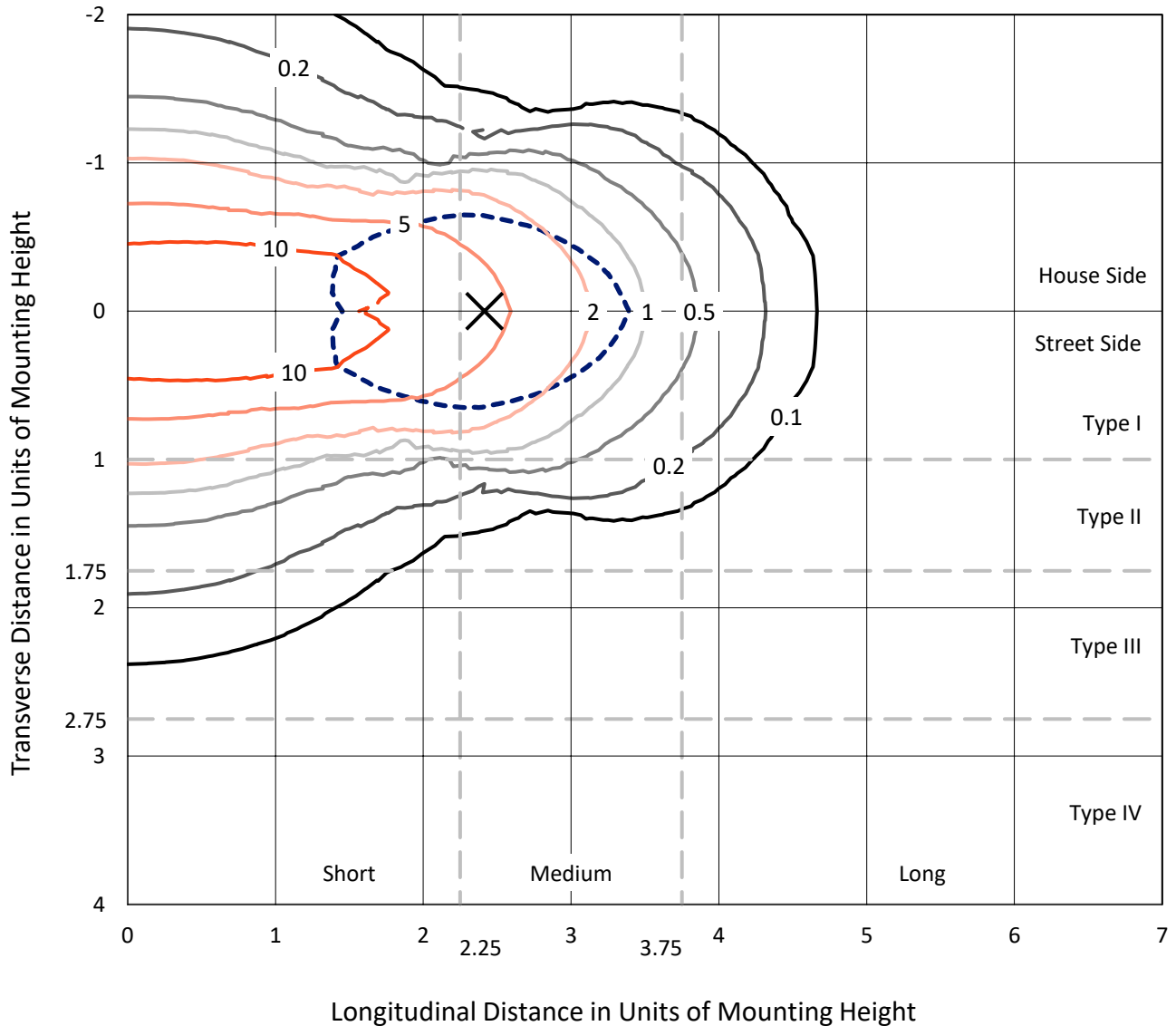
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

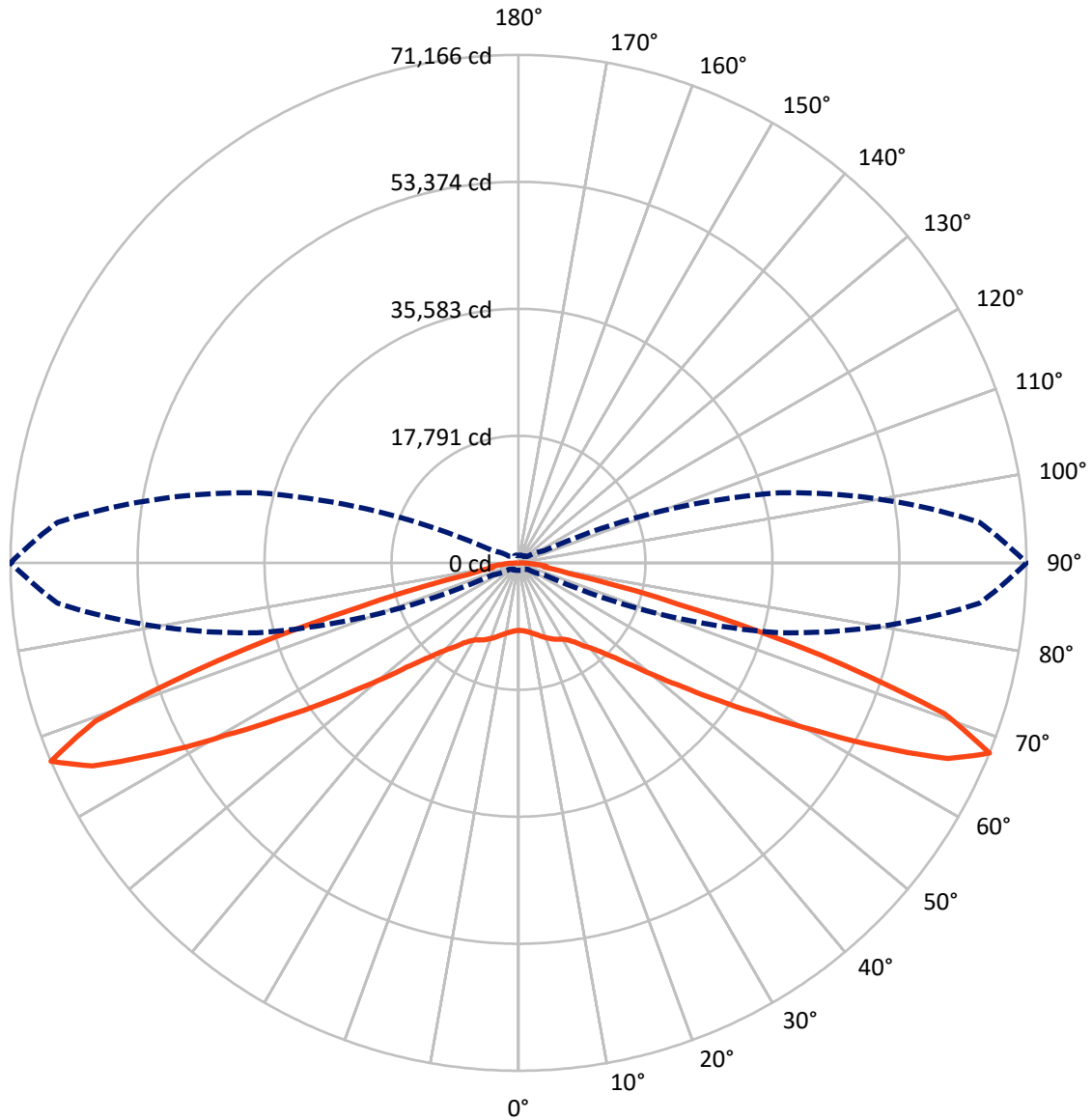
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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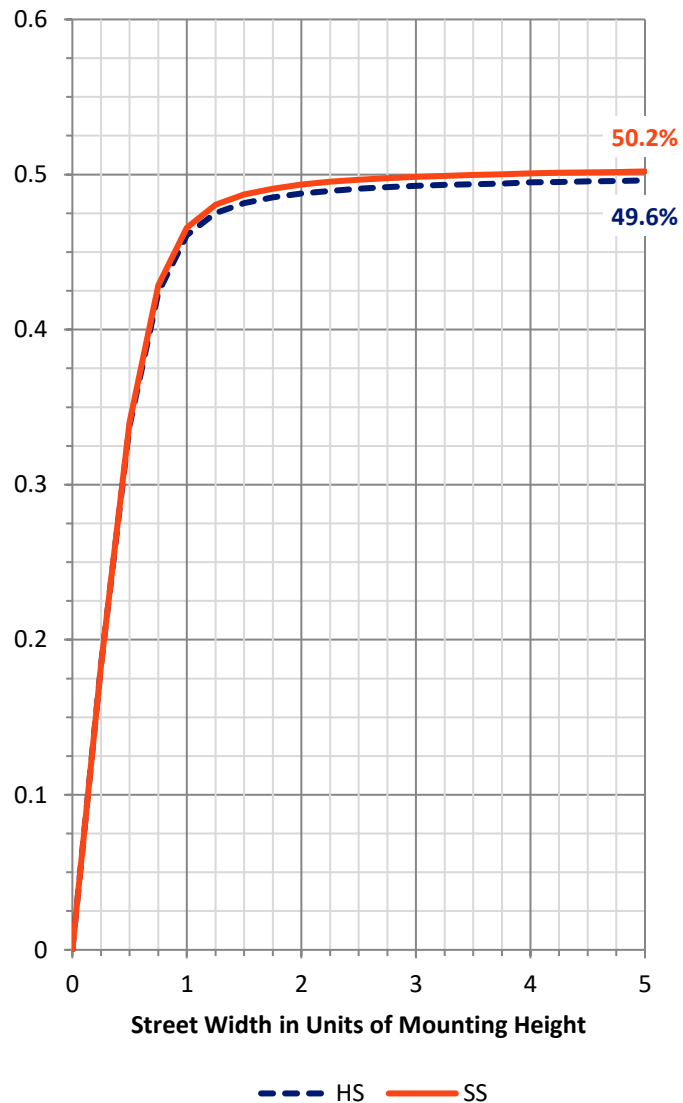
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26753.4	0.0	26753.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26753.4	0.0	26753.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	53506.9	0.0	53506.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	944.4	1.8
10°-20°	3021.6	5.6
20°-30°	5057.3	9.5
30°-40°	6851.3	12.8
40°-50°	8678.3	16.2
50°-60°	10841.4	20.3
60°-70°	12743.6	23.8
70°-80°	4875.0	9.1
80°-90°	493.9	0.9
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°	53506.9	100.0
0°-180°	53506.9	100.0

Coefficient of Utilization



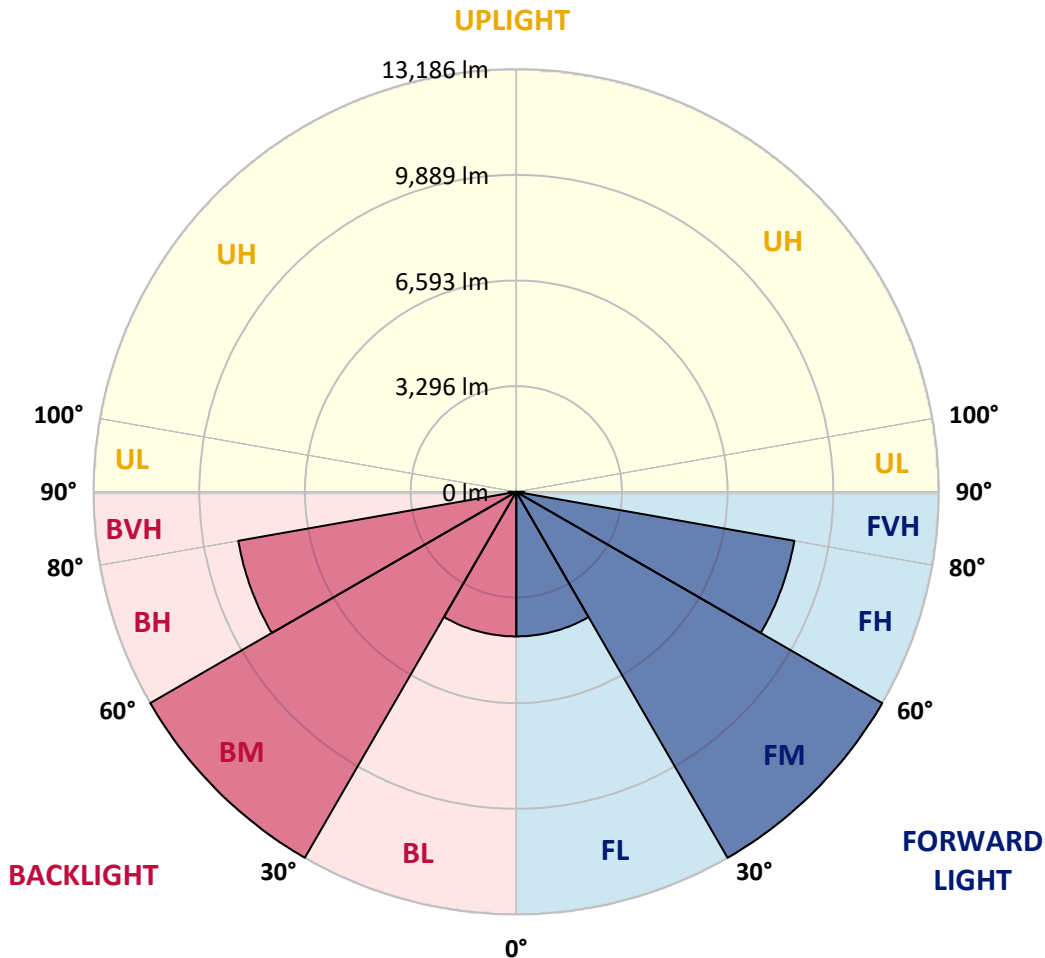
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4511.6	8.4			
FM (30°-60°)	13185.6	24.6			
FH (60°-80°)	8809.3	16.5			G4/12000
FVH (80°-90°)	246.9	0.5			G3/500
BL (0°-30°)	4511.6	8.4	B4/5000		
BM (30°-60°)	13185.6	24.6	B5		
BH (60°-80°)	8809.3	16.5	B5		G5
BVH (80°-90°)	246.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9472.4	9472.4	9472.4	9472.4	9472.4	9472.4	9472.4	9472.4	9472.4	9472.4	9472.4
2.5°	9593.9	9588.0	9590.9	9588.0	9596.8	9590.9	9555.4	9525.8	9502.0	9505.0	9496.1
5°	9798.3	9801.3	9804.2	9789.4	9810.2	9798.3	9742.1	9694.6	9647.2	9629.4	9623.5
7.5°	9967.2	9982.0	9990.9	10005.7	10041.3	10041.3	10011.7	9943.5	9839.8	9780.6	9777.6
10°	10136.1	10147.9	10174.6	10222.0	10281.2	10337.6	10325.7	10233.9	10100.5	9999.8	9976.1
12.5°	10195.4	10210.2	10299.1	10435.3	10568.7	10678.3	10678.3	10604.3	10432.4	10278.3	10233.9
15°	9988.0	10014.6	10174.6	10465.0	10814.6	11054.6	11107.9	11004.2	10820.5	10583.5	10530.2
17.5°	9576.1	9641.3	9875.4	10304.9	10885.7	11383.4	11537.5	11487.1	11250.1	10947.9	10885.7
20°	9134.6	9205.8	9454.6	10023.5	10826.4	11576.0	12023.4	12035.3	11742.0	11303.5	11211.6
22.5°	8648.7	8702.1	9022.0	9688.7	10648.7	11620.5	12441.2	12645.7	12248.7	11659.0	11528.7
25°	8103.5	8162.8	8497.6	9217.6	10313.9	11570.1	12823.4	13273.8	12779.0	12038.2	11872.3
27.5°	7582.0	7605.8	7964.3	8696.1	9872.4	11439.8	13104.9	13851.5	13365.7	12352.4	12141.9
30°	7081.3	7137.7	7454.6	8177.6	9365.7	11185.0	13347.8	14509.4	13996.8	12681.2	12411.6
32.5°	6551.0	6619.1	6962.8	7694.6	8859.1	10802.7	13496.0	15229.3	14876.7	13214.5	12927.2
35°	6041.3	6085.8	6432.5	7143.5	8364.2	10358.3	13522.7	16041.1	16011.5	14023.4	13641.2
37.5°	5519.9	5585.1	5934.7	6616.1	7839.8	9887.2	13389.3	16903.3	17380.4	15146.3	14734.5
40°	5019.2	5075.4	5419.2	6106.5	7244.3	9312.4	13072.3	17691.4	18977.4	16301.9	15718.2
42.5°	4474.0	4488.8	4865.1	5564.3	6660.6	8645.7	12616.0	18393.7	20758.1	17851.5	17125.5
45°	3854.7	3893.2	4242.8	4930.3	5990.9	7899.1	11996.8	18974.4	23015.8	19999.6	19010.0
47.5°	3235.5	3268.0	3588.0	4266.6	5259.1	7042.8	11042.8	19484.0	25332.8	22728.4	21430.7
50°	2631.1	2648.8	2909.6	3511.0	4435.4	6142.1	9860.6	19647.0	27952.0	26592.0	24935.7
52.5°	2080.0	2106.6	2305.1	2776.2	3555.5	5078.4	8583.5	19244.0	31009.7	31172.7	28837.9
55°	1685.9	1694.8	1842.9	2189.5	2779.2	3964.4	7042.8	18121.1	34298.5	37042.2	34064.5
57.5°	1451.8	1457.7	1540.7	1733.3	2139.3	2989.6	5463.6	15996.7	37252.5	43919.1	40091.0
60°	1318.5	1321.5	1368.9	1481.4	1694.8	2293.3	3914.0	12998.2	40168.0	51572.2	47581.3
62.5°	1235.5	1235.5	1268.1	1330.4	1434.1	1760.0	2835.5	9377.6	42165.0	59338.0	56813.6
65°	1155.5	1155.5	1179.3	1223.7	1280.0	1440.0	2094.8	6115.4	42114.7	64994.2	66099.3
67.5°	1063.7	1063.7	1081.4	1125.9	1158.5	1238.5	1617.7	4005.9	37830.3	64869.8	71165.9
70°	954.0	954.0	977.7	1016.3	1042.9	1093.3	1277.0	2740.7	27792.0	55388.5	63290.5
72.5°	844.4	847.4	862.2	900.7	921.5	951.1	1060.8	1919.9	17048.5	37714.7	44253.9
75°	722.9	728.9	743.7	782.2	800.0	811.8	894.8	1368.9	8625.0	20334.4	23152.1
77.5°	583.7	595.5	604.4	645.9	657.7	675.6	737.7	989.6	3786.6	7306.5	7371.7
80°	426.6	441.4	468.1	506.6	515.5	527.4	563.0	702.2	1715.6	3336.2	3623.6
82.5°	314.0	334.8	302.3	352.5	352.5	337.7	397.0	471.1	788.1	3303.6	3952.5
85°	171.8	174.8	157.0	180.7	192.6	189.6	210.3	231.1	382.2	2204.4	2272.6
87.5°	41.5	44.4	47.4	56.3	68.1	68.1	74.1	65.2	124.5	714.1	408.9
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)