

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: P943843

Luminaire Tested: **GALN-SB8C-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8C-735-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59908 lumens
Efficiency: N/A
Efficacy: 149.8 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

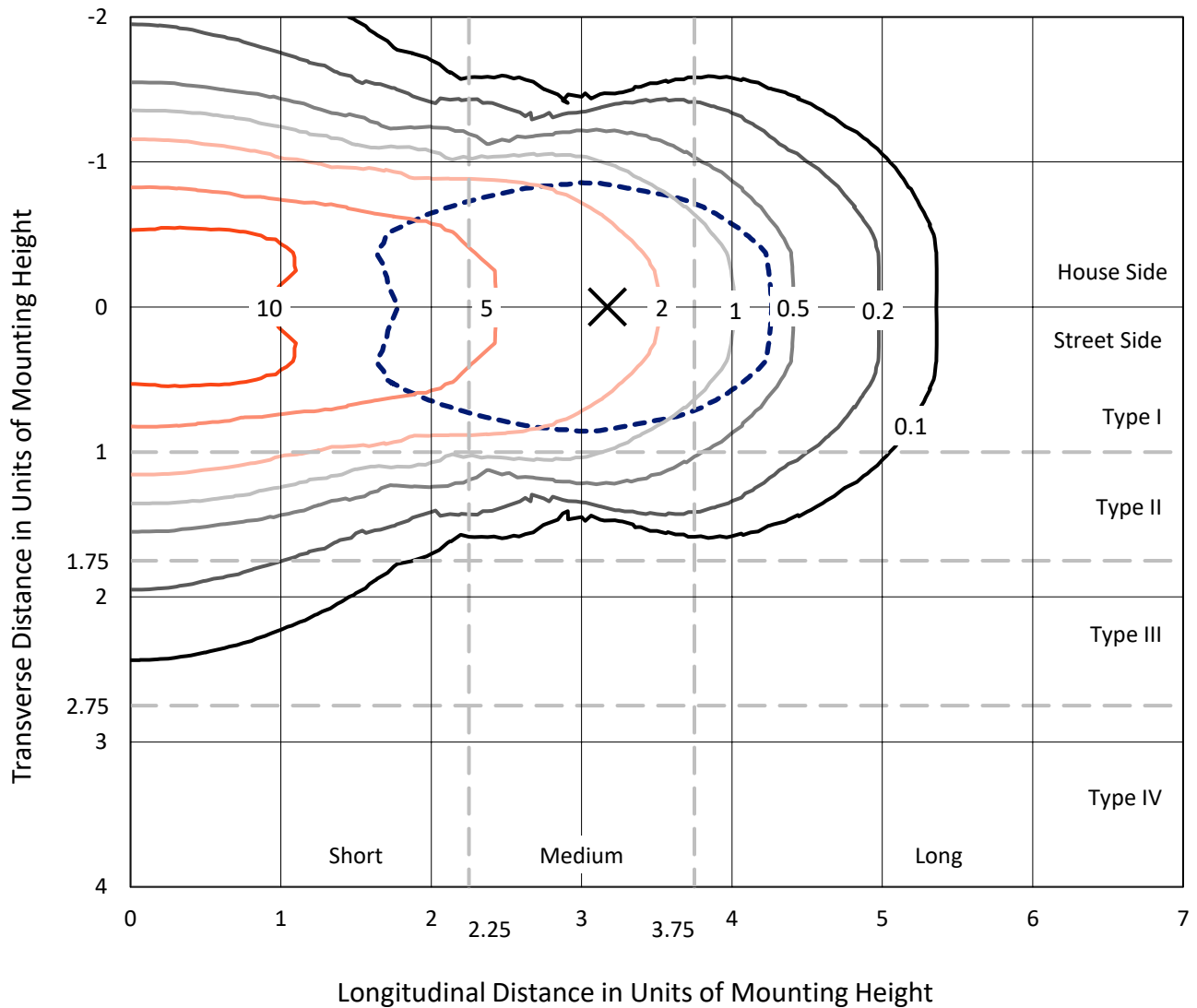
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

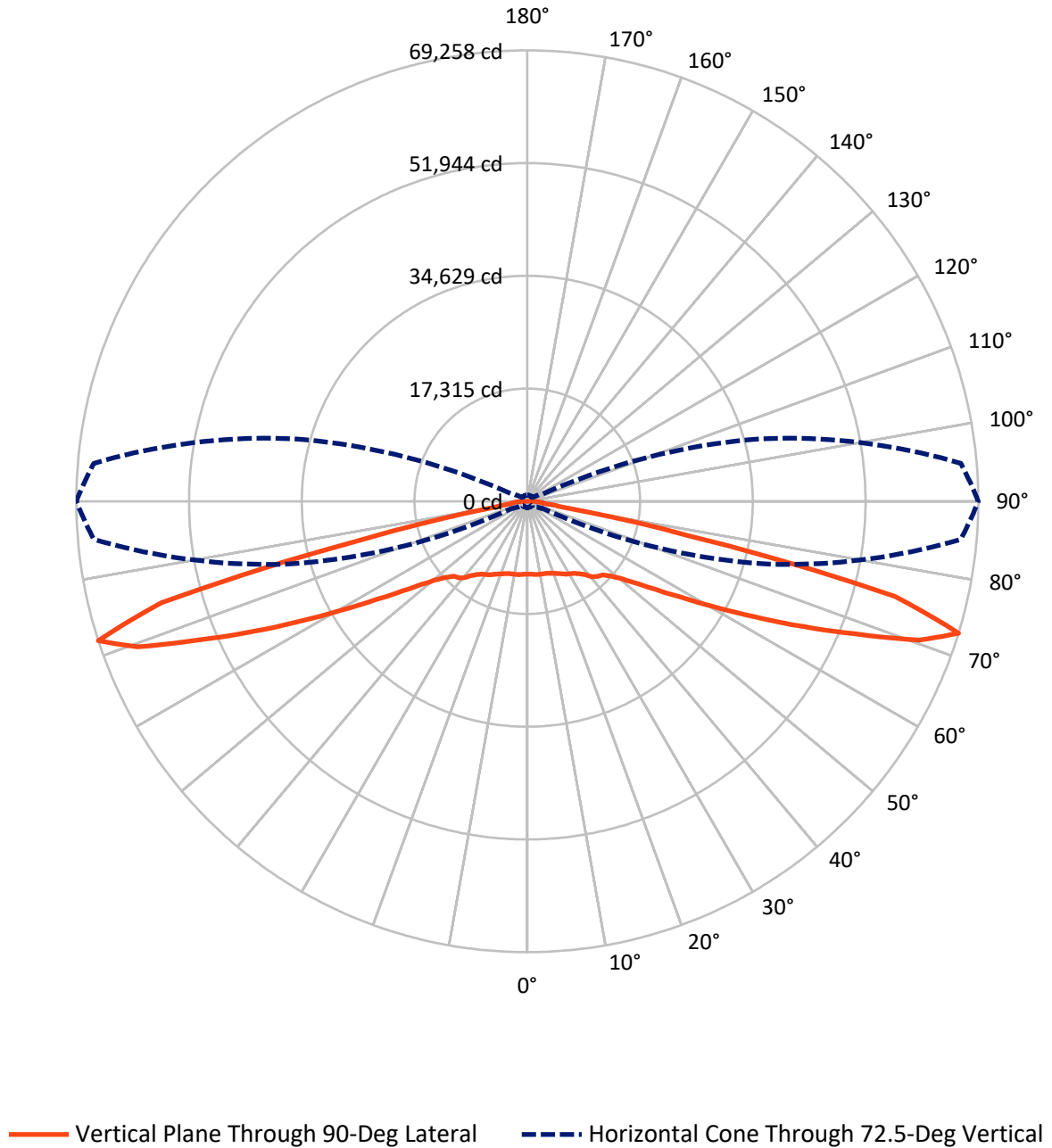
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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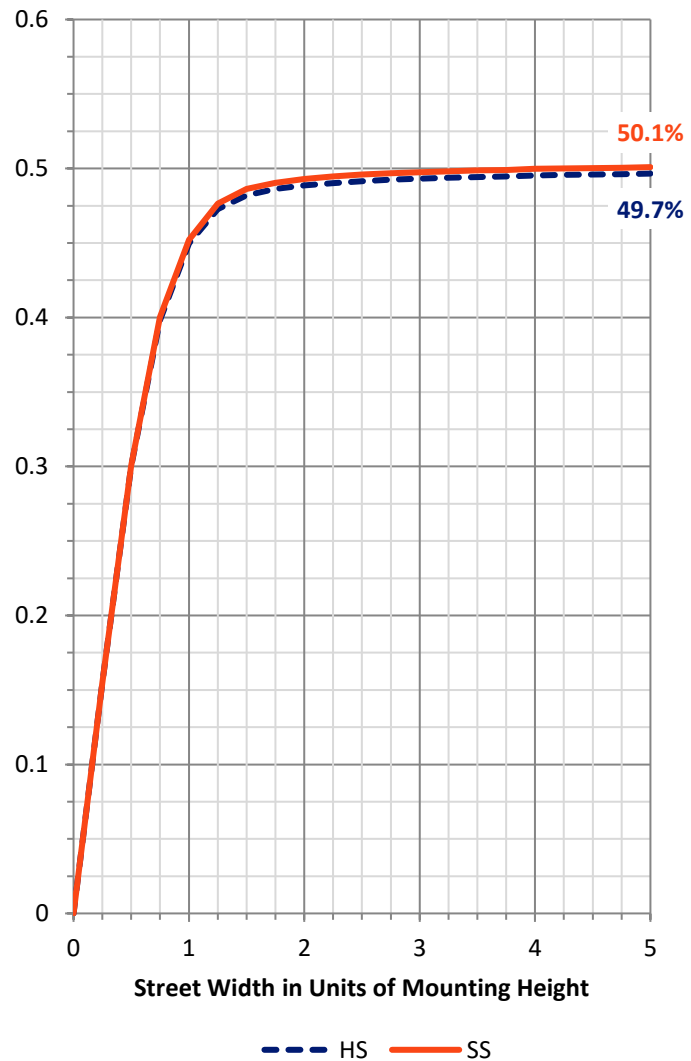
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29954.0	0.0	29954.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29954.0	0.0	29954.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	59908.0	0.0	59908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1085.4	1.8
10°-20°	3318.8	5.5
20°-30°	5533.9	9.2
30°-40°	7610.8	12.7
40°-50°	9294.8	15.5
50°-60°	10750.4	17.9
60°-70°	12818.1	21.4
70°-80°	8946.2	14.9
80°-90°	549.5	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°	59908.0	100.0
0°-180°	59908.0	100.0

Coefficient of Utilization



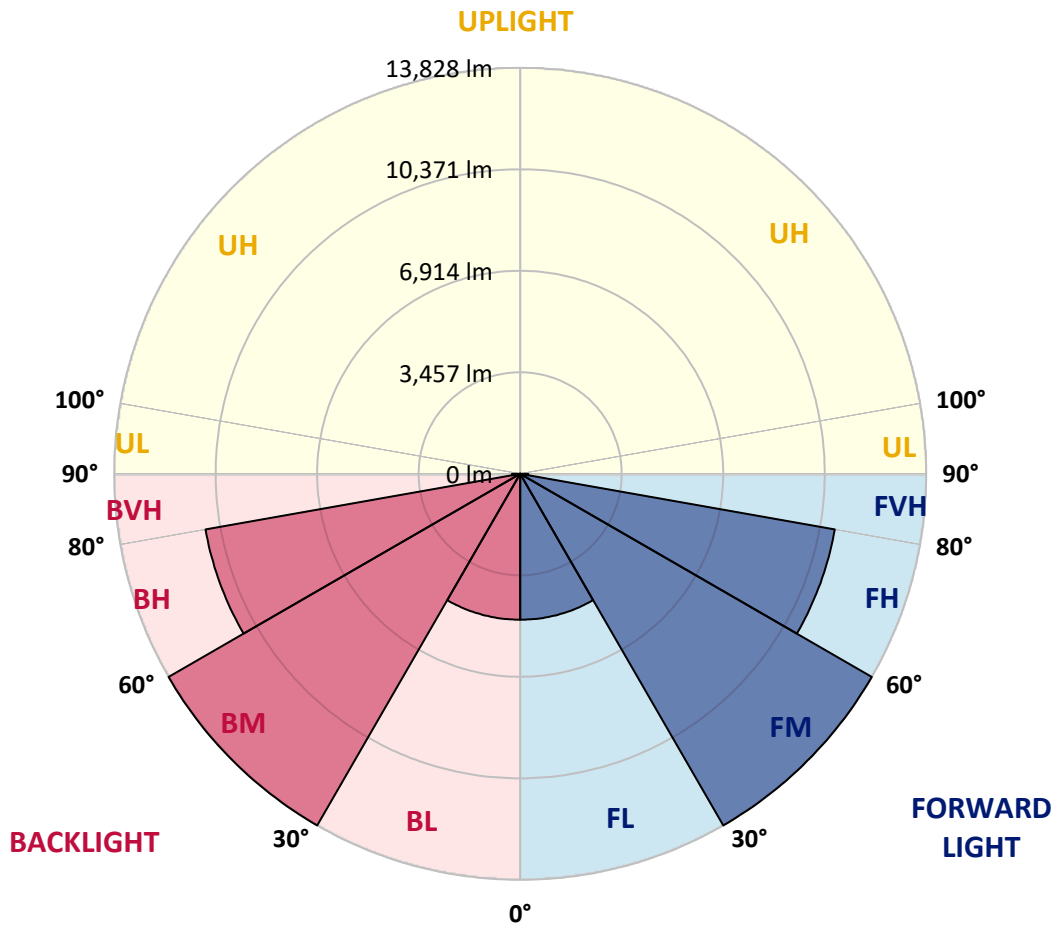
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4969.1	8.3			
FM (30°-60°)	13828.0	23.1			
FH (60°-80°)	10882.2	18.2			G4/12000
FVH (80°-90°)	274.7	0.5			G3/500
BL (0°-30°)	4969.1	8.3	B4/5000		
BM (30°-60°)	13828.0	23.1	B5		
BH (60°-80°)	10882.2	18.2	B5		G5
BVH (80°-90°)	274.7	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°
0°	11194.4	11194.4	11194.4	11194.4	11194.4	11194.4	11194.4	11194.4	11194.4	11194.4
2.5°	11204.0	11216.7	11216.7	11207.2	11229.5	11210.4	11210.4	11200.8	11210.4	11200.8
5°	11261.3	11277.2	11283.6	11280.4	11309.1	11293.1	11293.1	11280.4	11283.6	11274.0
7.5°	11369.6	11391.8	11404.6	11420.5	11461.9	11442.8	11430.0	11391.8	11375.9	11350.5
10°	11404.6	11430.0	11471.4	11554.2	11649.7	11652.9	11614.7	11519.2	11446.0	11388.7
12.5°	11296.3	11331.3	11417.3	11586.1	11799.4	11885.3	11824.8	11665.7	11522.4	11420.5
15°	11159.4	11197.6	11328.2	11582.9	11898.1	12098.7	12092.3	11882.2	11652.9	11493.7
17.5°	10946.1	10984.3	11172.2	11528.7	11974.5	12305.6	12394.8	12178.3	11856.7	11643.4
20°	10560.9	10595.9	10857.0	11356.8	12000.0	12525.3	12757.7	12566.7	12165.5	11875.8
22.5°	10061.0	10115.1	10420.8	11060.7	11939.5	12754.5	13171.6	13041.1	12525.3	12124.1
25°	9526.1	9583.4	9940.0	10697.8	11783.5	12920.1	13661.9	13579.2	12932.8	12433.0
27.5°	9064.4	9124.9	9513.4	10338.0	11541.5	12983.8	14145.9	14187.3	13426.3	12773.6
30°	8701.5	8758.8	9172.7	10048.3	11229.5	12920.1	14569.3	14855.9	13929.4	13069.7
32.5°	8303.5	8376.7	8812.9	9694.8	10860.1	12767.3	14938.7	15578.6	14512.0	13388.1
35°	7800.5	7867.3	8325.8	9210.9	10376.2	12522.1	15247.5	16380.9	15346.2	13872.1
37.5°	7189.1	7252.8	7708.1	8606.0	9895.4	12178.3	15483.1	17285.2	16339.6	14569.3
40°	6574.7	6635.2	7061.8	7931.0	9319.2	11738.9	15565.9	18170.3	17479.4	15527.7
42.5°	6011.1	6065.2	6456.9	7265.6	8672.8	11178.5	15457.6	18940.8	18501.4	16196.3
45°	5492.2	5539.9	5887.0	6641.5	8001.0	10497.2	15132.9	19768.6	19717.6	16673.9
47.5°	4900.0	4947.7	5307.5	6036.6	7329.2	9698.0	14582.1	20583.6	21408.3	17756.4
50°	4177.2	4218.6	4587.9	5339.3	6632.0	8847.9	13817.9	21223.6	23541.4	19396.1
52.5°	3320.8	3365.3	3725.1	4476.5	5804.2	7934.2	12811.8	21640.7	26005.7	21790.3
55°	2470.7	2502.5	2814.5	3489.5	4779.0	6893.1	11551.0	21758.5	28801.2	25063.3
57.5°	1792.5	1811.6	2012.2	2515.2	3623.2	5590.9	10019.6	21452.8	32128.3	29259.6
60°	1451.8	1458.2	1518.7	1741.6	2518.4	4119.9	8169.8	20402.2	35738.8	34669.0
62.5°	1318.1	1318.1	1334.0	1394.5	1703.4	2719.0	5931.5	18224.4	39610.4	41504.8
65°	1225.8	1225.8	1232.2	1260.8	1343.6	1732.0	3744.2	14677.6	42873.8	49512.2
67.5°	1143.0	1146.2	1143.0	1152.6	1200.3	1279.9	2171.4	10137.4	44631.3	57809.3
70°	1057.0	1063.4	1047.5	1047.5	1085.7	1088.9	1359.5	5559.0	43173.1	64762.8
72.5°	955.2	964.7	939.2	932.9	961.5	948.8	1022.0	2668.1	37066.5	66838.7
75°	866.0	878.7	821.4	805.5	805.5	796.0	831.0	1369.1	24057.2	54523.6
77.5°	786.4	811.9	719.6	668.6	655.9	627.2	678.2	837.4	10522.6	25598.2
80°	649.5	684.5	592.2	531.7	509.4	477.6	534.9	585.8	3129.7	5944.3
82.5°	483.9	499.9	420.3	378.9	359.8	337.5	401.2	407.5	1018.8	2104.5
85°	308.8	315.2	257.9	222.9	213.3	203.8	254.7	222.9	388.4	1547.4
87.5°	108.3	124.2	98.7	89.1	95.5	79.6	117.8	66.9	108.3	1092.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

11194.4
11200.8
11274.0
11350.5
11379.1
11404.6
11468.3
11608.3
11821.7
12050.9
12331.1
12665.4
12913.7
13190.7
13652.4
14276.4
15215.7
15795.1
16132.6
17132.3
18612.8
20825.6
23856.6
27740.9
32755.5
38941.8
46271.0
54310.2
63842.7
69258.4
58318.7
25066.5
5692.7
2378.3
2247.8
1353.1
0.0

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