

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: P943673

Luminaire Tested: **GALN-SB8B-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943673
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-SB8B-735-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45045 lumens
Efficiency: N/A
Efficacy: 153.8 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

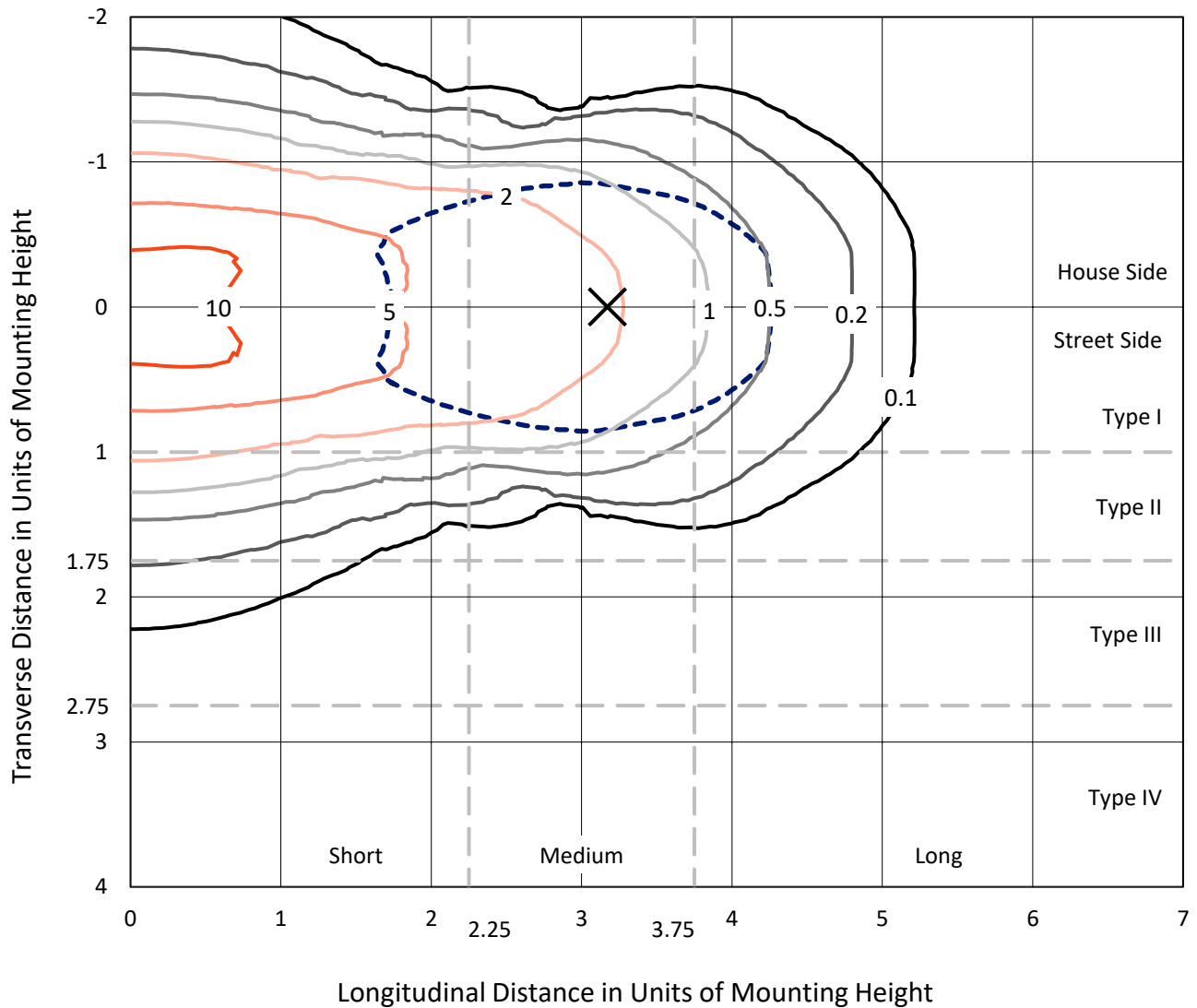
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

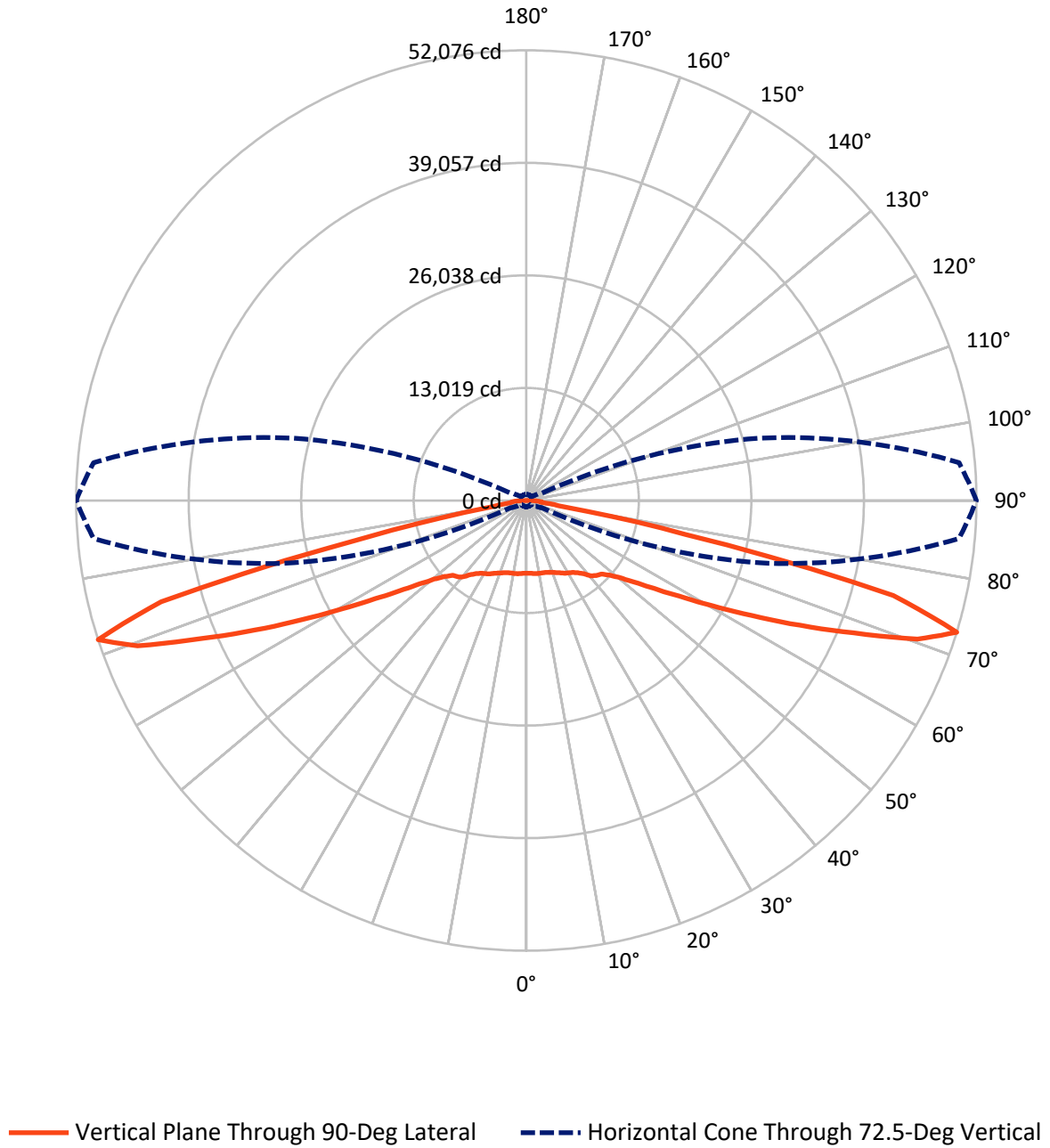
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	22522.5	0.0	22522.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22522.5	0.0	22522.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45045.0	0.0	45045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.1	1.8
10°-20°	2495.4	5.5
20°-30°	4160.9	9.2
30°-40°	5722.6	12.7
40°-50°	6988.8	15.5
50°-60°	8083.3	17.9
60°-70°	9638.0	21.4
70°-80°	6726.7	14.9
80°-90°	413.2	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°	45045.0	100.0
0°-180°	45045.0	100.0

Coefficient of Utilization



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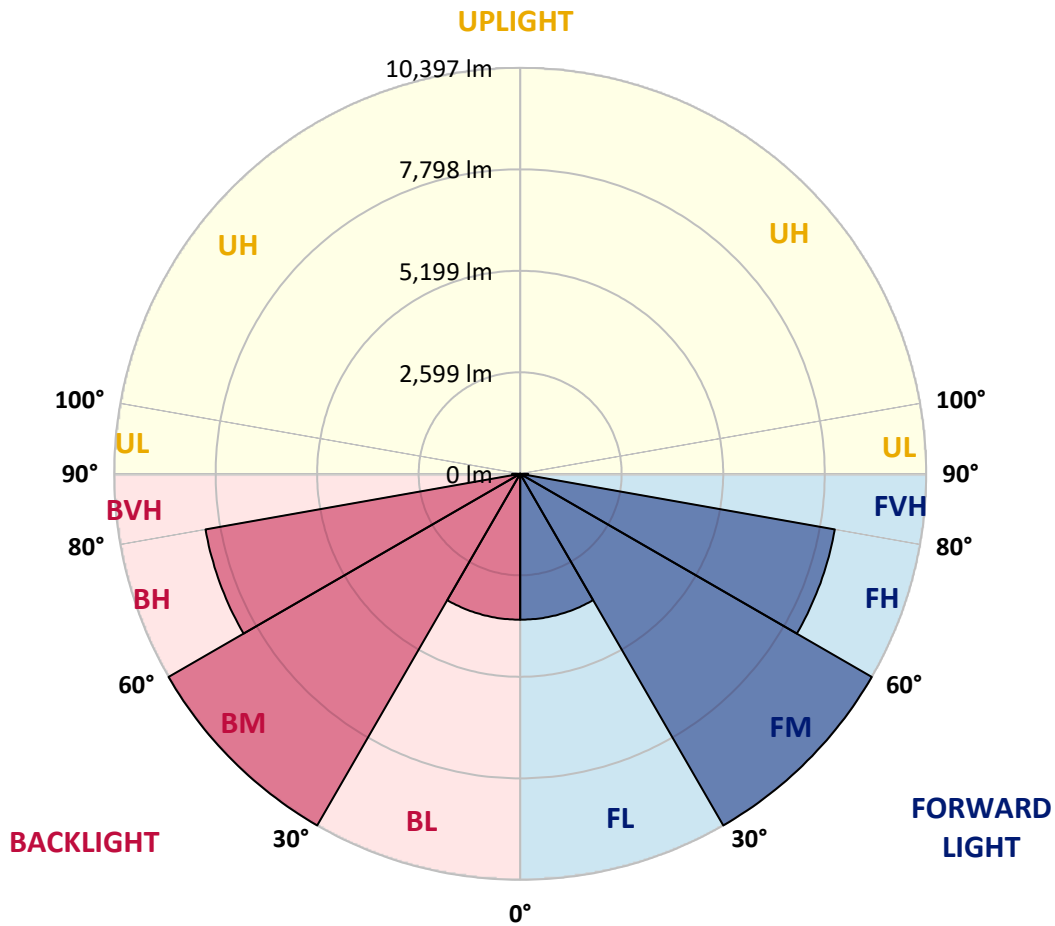
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3736.3	8.3			
FM (30°-60°)	10397.3	23.1			
FH (60°-80°)	8182.3	18.2			G4/12000
FVH (80°-90°)	206.6	0.5			G2/225
BL (0°-30°)	3736.3	8.3	B4/5000		
BM (30°-60°)	10397.3	23.1	B5		
BH (60°-80°)	8182.3	18.2	B5		G5
BVH (80°-90°)	206.6	0.5			G2/225
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°	8417.1	8417.1	8417.1	8417.1	8417.1	8417.1	8417.1	8417.1	8417.1	8417.1
2.5°	8424.3	8433.9	8433.9	8426.7	8443.5	8429.1	8429.1	8421.9	8429.1	8421.9
5°	8467.4	8479.4	8484.2	8481.8	8503.3	8491.3	8491.3	8481.8	8484.2	8477.0
7.5°	8548.8	8565.6	8575.1	8587.1	8618.2	8603.9	8594.3	8565.6	8553.6	8534.4
10°	8575.1	8594.3	8625.4	8687.7	8759.5	8761.9	8733.1	8661.3	8606.3	8563.2
12.5°	8493.7	8520.1	8584.7	8711.6	8872.0	8936.6	8891.1	8771.4	8663.7	8587.1
15°	8390.8	8419.5	8517.7	8709.2	8946.2	9097.0	9092.2	8934.2	8761.9	8642.2
17.5°	8230.4	8259.1	8400.4	8668.5	9003.7	9252.6	9319.7	9156.9	8915.1	8754.7
20°	7940.7	7967.1	8163.4	8539.2	9022.8	9417.8	9592.6	9448.9	9147.3	8929.4
22.5°	7564.9	7605.6	7835.4	8316.6	8977.3	9590.2	9903.8	9805.6	9417.8	9116.2
25°	7162.7	7205.8	7473.9	8043.7	8860.0	9714.7	10272.4	10210.2	9724.2	9348.4
27.5°	6815.6	6861.1	7153.1	7773.2	8678.1	9762.5	10636.3	10667.4	10095.3	9604.5
30°	6542.7	6585.8	6897.0	7555.3	8443.5	9714.7	10954.7	11170.2	10473.5	9827.2
32.5°	6243.4	6298.5	6626.5	7289.6	8165.8	9599.7	11232.4	11713.6	10911.6	10066.6
35°	5865.2	5915.5	6260.2	6925.7	7801.9	9415.4	11464.6	12316.9	11538.8	10430.4
37.5°	5405.5	5453.4	5795.8	6470.9	7440.4	9156.9	11641.8	12996.8	12285.8	10954.7
40°	4943.5	4989.0	5309.8	5963.3	7007.1	8826.5	11704.0	13662.3	13142.8	11675.3
42.5°	4519.8	4560.5	4854.9	5463.0	6521.1	8405.2	11622.6	14241.6	13911.3	12178.0
45°	4129.6	4165.5	4426.4	4993.8	6016.0	7892.9	11378.5	14864.0	14825.7	12537.1
47.5°	3684.3	3720.2	3990.7	4538.9	5510.9	7292.0	10964.3	15476.9	16096.9	13351.1
50°	3140.9	3172.0	3449.7	4014.7	4986.6	6652.8	10389.7	15958.1	17700.9	14584.0
52.5°	2496.9	2530.4	2800.9	3365.9	4364.2	5965.7	9633.3	16271.7	19553.8	16384.2
55°	1857.7	1881.6	2116.3	2623.8	3593.3	5182.9	8685.3	16360.3	21655.7	18845.2
57.5°	1347.8	1362.2	1513.0	1891.2	2724.3	4203.8	7533.8	16130.4	24157.4	22000.4
60°	1091.6	1096.4	1141.9	1309.5	1893.6	3097.8	6142.9	15340.4	26872.1	26067.7
62.5°	991.1	991.1	1003.1	1048.6	1280.8	2044.4	4459.9	13703.0	29783.2	31207.6
65°	921.7	921.7	926.5	948.0	1010.2	1302.3	2815.3	11036.1	32237.0	37228.3
67.5°	859.4	861.8	859.4	866.6	902.5	962.4	1632.7	7622.3	33558.4	43467.0
70°	794.8	799.6	787.6	787.6	816.3	818.7	1022.2	4179.8	32462.0	48695.4
72.5°	718.2	725.4	706.2	701.4	723.0	713.4	768.5	2006.1	27870.4	50256.2
75°	651.2	660.7	617.6	605.7	605.7	598.5	624.8	1029.4	18088.7	40996.4
77.5°	591.3	610.5	541.0	502.7	493.2	471.6	509.9	629.6	7912.0	19247.4
80°	488.4	514.7	445.3	399.8	383.0	359.1	402.2	440.5	2353.3	4469.5
82.5°	363.9	375.9	316.0	284.9	270.5	253.8	301.6	306.4	766.1	1582.4
85°	232.2	237.0	193.9	167.6	160.4	153.2	191.5	167.6	292.1	1163.5
87.5°	81.4	93.4	74.2	67.0	71.8	59.8	88.6	50.3	81.4	821.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

8417.1
8421.9
8477.0
8534.4
8556.0
8575.1
8623.0
8728.3
8888.7
9061.1
9271.8
9523.1
9709.9
9918.1
10265.3
10734.5
11440.7
11876.4
12130.2
12881.9
13995.0
15658.8
17937.9
20858.5
24629.0
29280.4
34791.3
40836.0
48003.5
52075.6
43850.0
18847.6
4280.4
1788.3
1690.1
1017.4
0.0

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