

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: P955418

Luminaire Tested: **GALN-SB8B-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44850 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

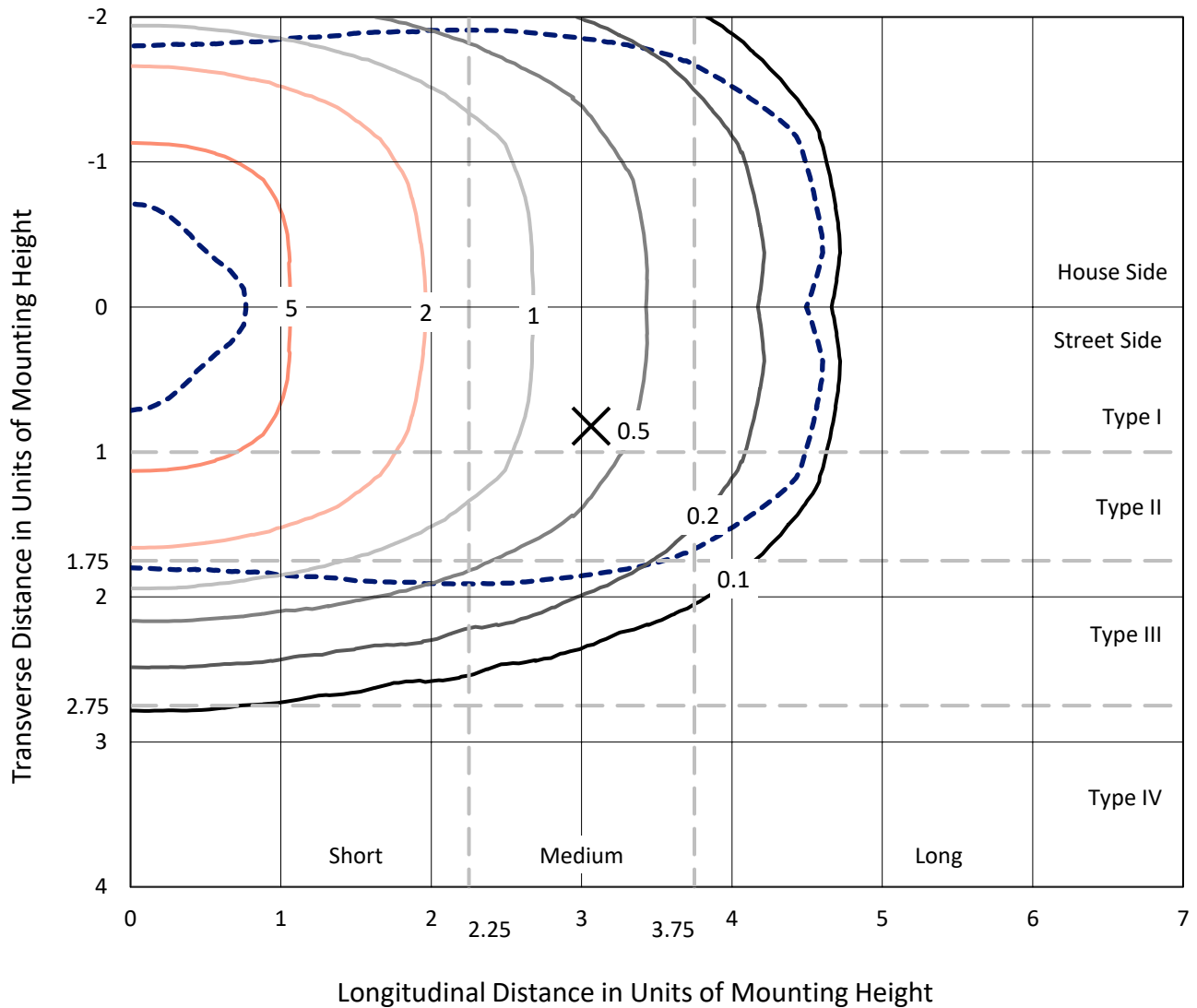
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

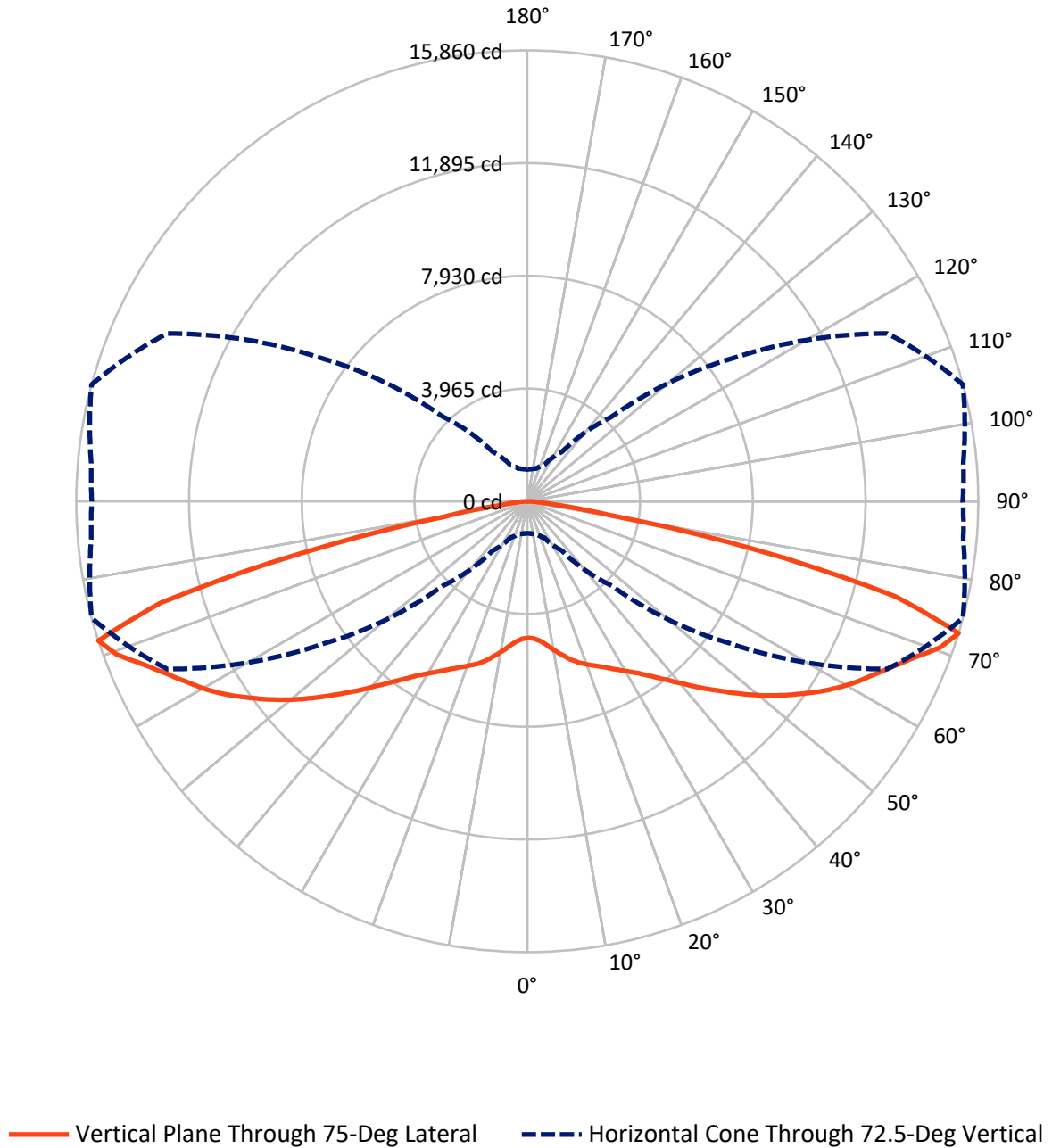
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22425.0	0.0	22425.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22425.0	0.0	22425.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	44850.0	0.0	44850.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.6	1.0
10°-20°	1552.2	3.5
20°-30°	2999.3	6.7
30°-40°	5064.5	11.3
40°-50°	8031.7	17.9
50°-60°	10753.5	24.0
60°-70°	10233.9	22.8
70°-80°	5340.2	11.9
80°-90°	404.2	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°	44850.0	100.0
0°-180°	44850.0	100.0

Coefficient of Utilization



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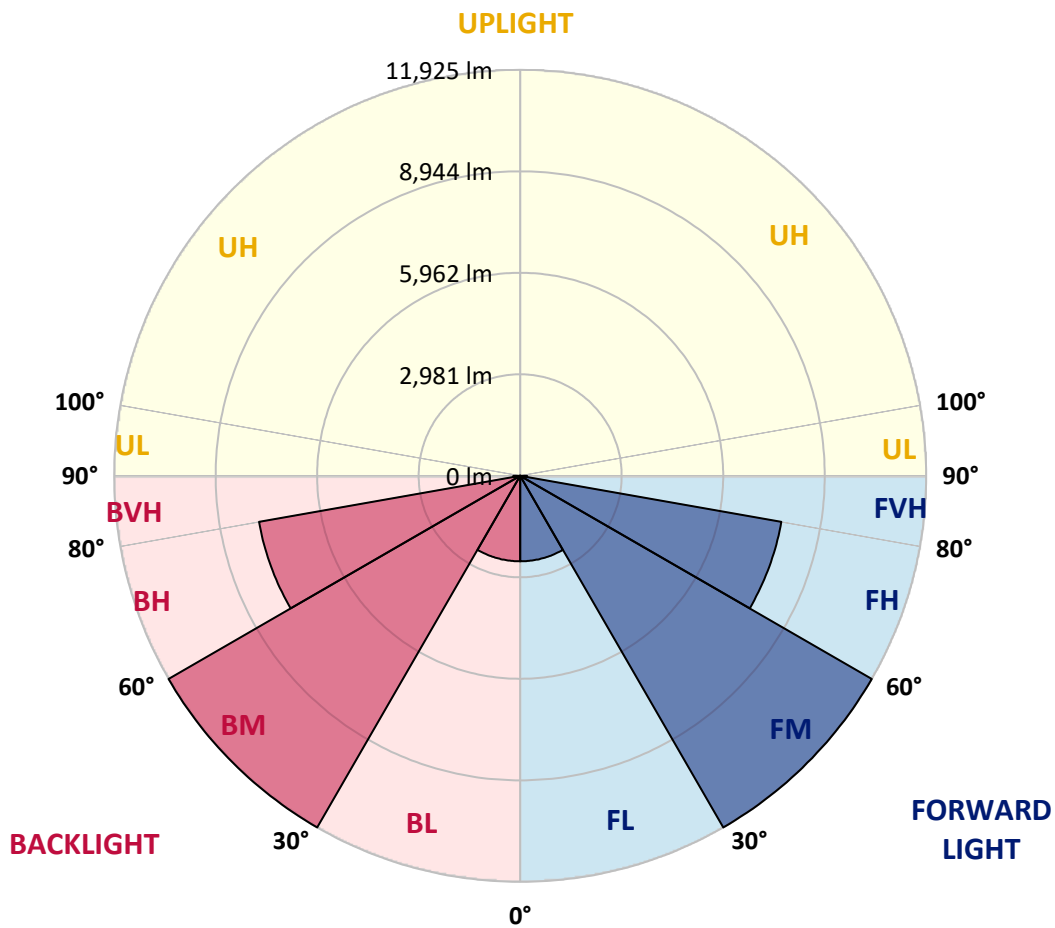
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2511.0	5.6			
FM (30°-60°)	11924.8	26.6			
FH (60°-80°)	7787.0	17.4			G4/12000
FVH (80°-90°)	202.1	0.5			G2/225
BL (0°-30°)	2511.0	5.6	B4/5000		
BM (30°-60°)	11924.8	26.6	B5		
BH (60°-80°)	7787.0	17.4	B5		G5
BVH (80°-90°)	202.1	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2
2.5°	4804.2	4799.7	4804.2	4808.8	4806.5	4806.5	4818.0	4824.8	4838.6	4836.3
5°	4772.2	4769.9	4788.2	4808.8	4824.8	4852.3	4886.7	4911.9	4943.9	4950.8
7.5°	4756.1	4749.3	4781.3	4818.0	4868.4	4937.1	5003.5	5072.2	5127.1	5145.4
10°	4767.6	4769.9	4813.4	4882.1	4962.2	5058.4	5152.3	5269.1	5346.9	5365.3
12.5°	4820.3	4815.7	4889.0	4998.9	5108.8	5230.2	5340.1	5468.3	5553.0	5596.5
15°	4916.4	4907.3	5010.3	5172.9	5333.2	5475.2	5564.5	5685.9	5784.3	5839.3
17.5°	5030.9	5035.5	5170.6	5381.3	5592.0	5752.3	5837.0	5898.8	5974.4	6022.5
20°	5232.5	5241.6	5392.7	5642.3	5882.8	6066.0	6134.7	6111.8	6132.4	6169.0
22.5°	5502.7	5507.2	5676.7	5946.9	6198.8	6400.3	6446.1	6352.2	6295.0	6320.2
25°	5816.4	5846.1	6015.6	6292.7	6551.4	6743.8	6764.4	6622.4	6480.5	6487.3
27.5°	6198.8	6226.3	6398.0	6672.8	6936.1	7103.3	7101.0	6911.0	6702.6	6649.9
30°	6613.3	6643.0	6819.4	7103.3	7348.3	7494.9	7462.8	7236.1	6938.4	6840.0
32.5°	7105.6	7123.9	7302.5	7586.5	7813.2	7930.0	7863.6	7584.2	7213.2	7101.0
35°	7701.0	7728.5	7861.3	8129.2	8328.4	8424.6	8312.4	7982.6	7565.9	7439.9
37.5°	8381.1	8362.8	8513.9	8752.0	8916.9	8976.5	8823.0	8431.5	7968.9	7820.1
40°	9091.0	9081.8	9246.7	9475.7	9565.0	9601.6	9374.9	8946.7	8433.8	8273.5
42.5°	9734.4	9727.6	9949.7	10203.9	10311.5	10270.3	9984.0	9494.0	8971.9	8788.7
45°	10249.7	10240.5	10513.0	10870.2	11080.9	11012.2	10627.5	10098.5	9516.9	9326.8
47.5°	10645.8	10650.4	10943.5	11385.4	11754.1	11779.3	11284.7	10714.5	10116.8	9901.6
50°	10932.0	10945.8	11259.5	11749.5	12253.3	12475.4	11955.6	11346.5	10737.4	10494.7
52.5°	11003.0	11028.2	11406.1	11980.8	12573.9	12997.5	12638.0	11953.3	11325.9	11094.6
55°	10625.2	10675.6	11154.2	11962.5	12770.8	13341.0	13238.0	12569.3	11919.0	11680.8
57.5°	9757.3	9828.3	10387.0	11442.7	12727.3	13576.9	13702.8	13160.1	12512.1	12283.1
60°	8541.4	8626.1	9161.9	10313.8	12113.6	13663.9	14030.3	13734.9	13057.1	12835.0
62.5°	6707.2	6817.1	7458.2	8809.3	10817.5	13258.6	14309.7	14254.7	13547.1	13270.0
65°	4302.7	4419.5	5095.1	6691.1	9088.7	12017.5	14396.7	14760.8	14064.6	13677.7
67.5°	2594.5	2647.1	2981.5	4055.4	6643.0	10146.6	13659.3	15321.8	14669.2	14188.3
70°	1660.2	1690.0	1889.2	2381.5	3755.5	7403.3	11832.0	15427.1	15402.0	14712.7
72.5°	1126.6	1135.8	1188.5	1410.6	2125.0	4206.6	8726.9	13966.2	15859.9	15388.2
75°	824.4	874.7	959.5	998.4	1206.8	2102.1	5001.2	9812.3	13366.2	13572.3
77.5°	613.7	616.0	732.8	778.6	861.0	1119.8	2115.9	5477.5	8298.6	8713.1
80°	519.8	492.3	490.0	627.4	648.0	698.4	945.7	1891.5	2972.3	1802.2
82.5°	432.8	403.0	364.1	490.0	442.0	428.2	409.9	769.4	945.7	464.9
85°	302.3	288.5	274.8	320.6	251.9	215.3	196.9	359.5	398.4	196.9
87.5°	130.5	135.1	137.4	142.0	105.3	75.6	75.6	100.8	100.8	77.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4804.2
4834.0
4950.8
5150.0
5383.6
5614.9
5859.9
6045.4
6196.5
6338.5
6498.8
6665.9
6851.4
7128.5
7458.2
7847.5
8326.1
8834.5
9370.3
9965.7
10567.9
11154.2
11747.3
12335.8
12883.1
13302.1
13725.7
14224.9
14708.1
15314.9
13073.1
7772.0
1362.5
396.2
174.0
57.2
0.0

OF REPORT)