

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: P950420

Luminaire Tested: **GALN-SB4D-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950420
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-SB4D-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40171 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

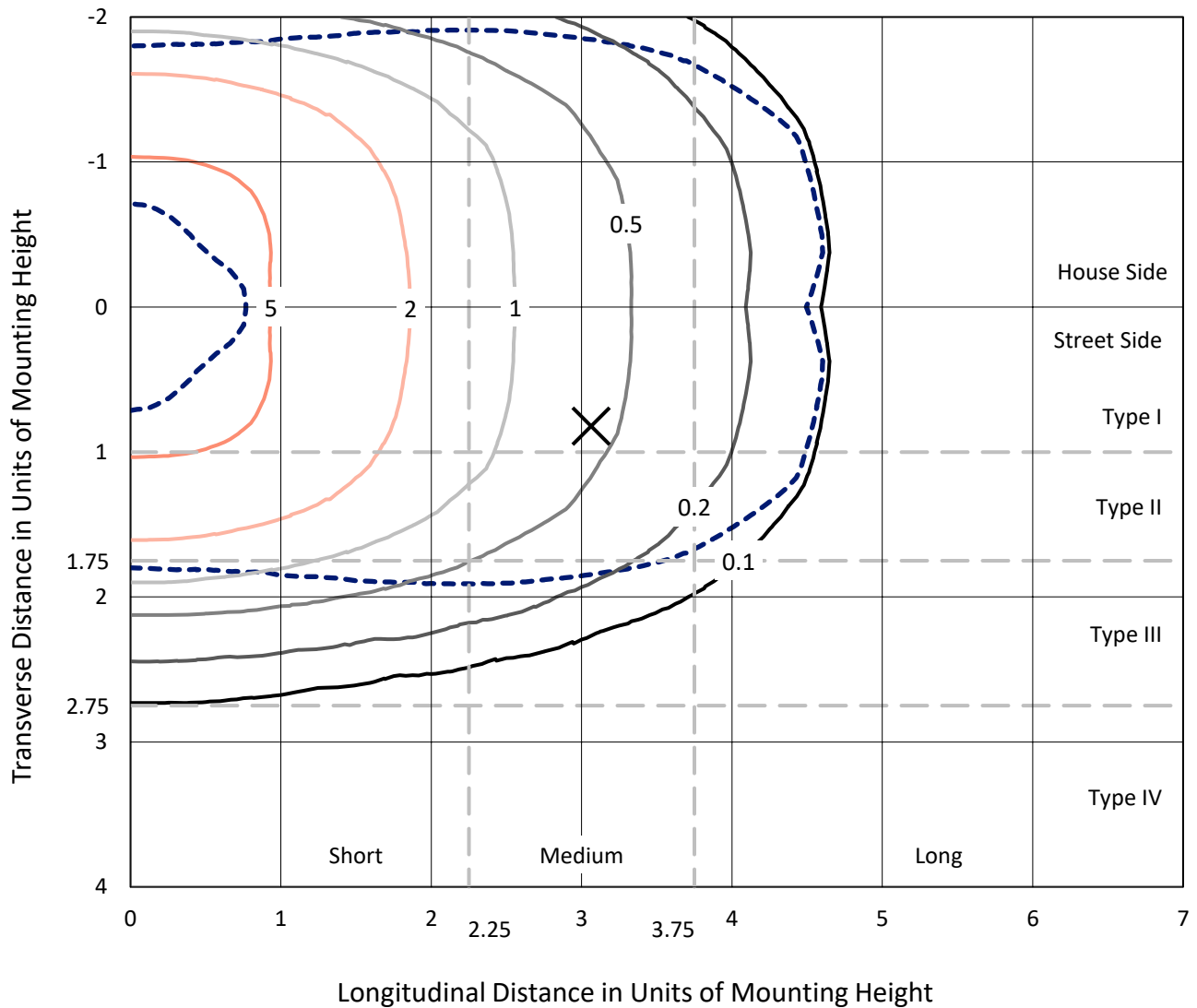
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

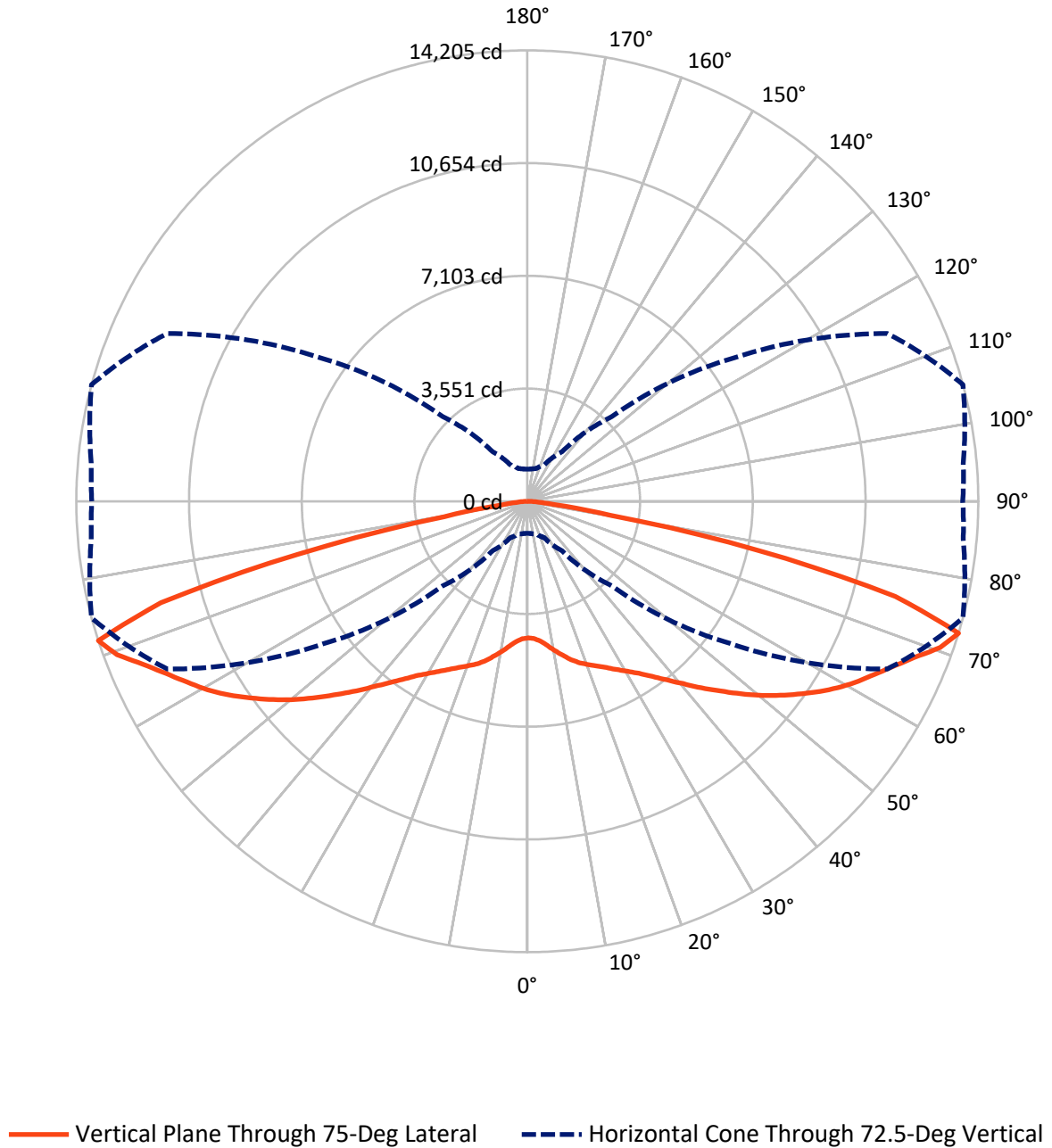
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	20085.5	0.0	20085.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20085.5	0.0	20085.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40171.0	0.0	40171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.5	1.0
10°-20°	1390.3	3.5
20°-30°	2686.4	6.7
30°-40°	4536.1	11.3
40°-50°	7193.8	17.9
50°-60°	9631.6	24.0
60°-70°	9166.2	22.8
70°-80°	4783.1	11.9
80°-90°	362.0	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°	40171.0	100.0
0°-180°	40171.0	100.0

Coefficient of Utilization



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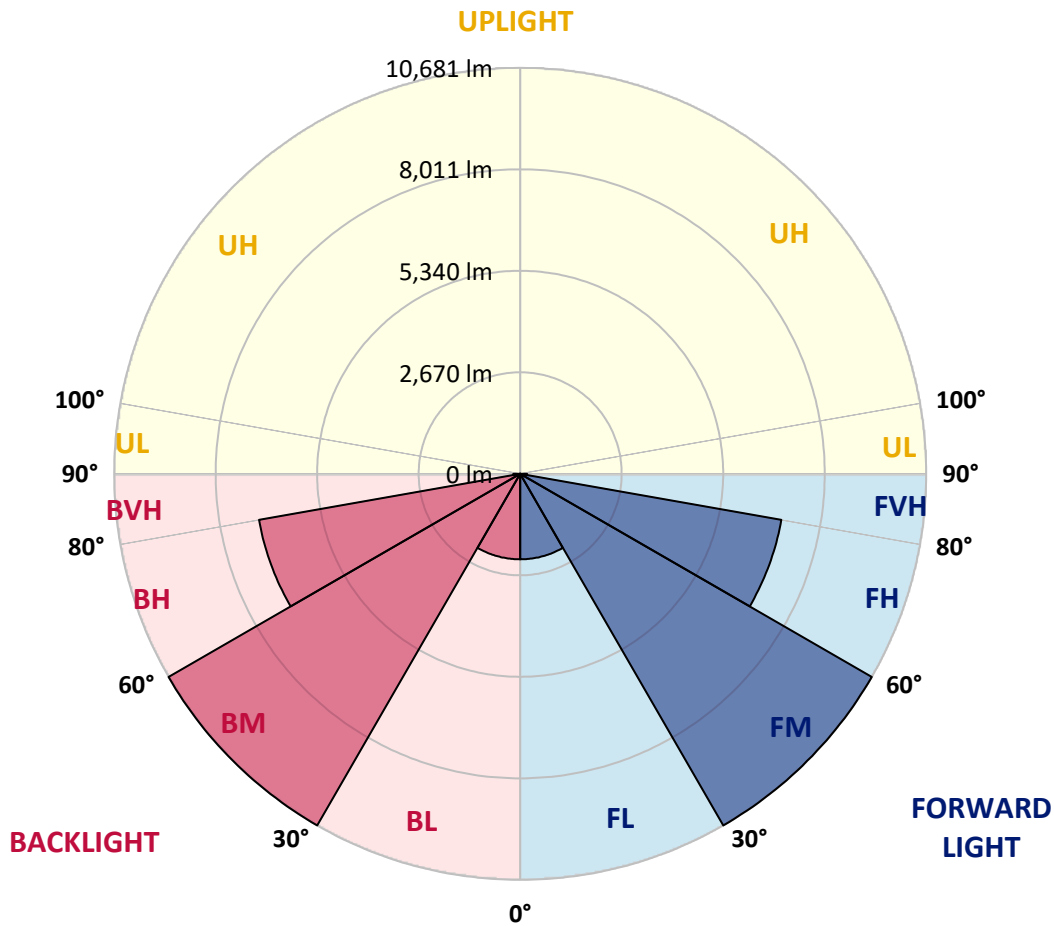
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2249.1	5.6			
FM (30°-60°)	10680.7	26.6			
FH (60°-80°)	6974.6	17.4			G3/7500
FVH (80°-90°)	181.0	0.5			G2/225
BL (0°-30°)	2249.1	5.6	B3/2500		
BM (30°-60°)	10680.7	26.6	B5		
BH (60°-80°)	6974.6	17.4	B5		G5
BVH (80°-90°)	181.0	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°	4303.0	4303.0	4303.0	4303.0	4303.0	4303.0	4303.0	4303.0	4303.0	4303.0
2.5°	4303.0	4298.9	4303.0	4307.1	4305.1	4305.1	4315.3	4321.5	4333.8	4331.7
5°	4274.3	4272.3	4288.7	4307.1	4321.5	4346.1	4376.9	4399.4	4428.1	4434.3
7.5°	4260.0	4253.8	4282.5	4315.3	4360.5	4422.0	4481.5	4543.0	4592.2	4608.6
10°	4270.2	4272.3	4311.2	4372.8	4444.6	4530.7	4614.8	4719.4	4789.1	4805.5
12.5°	4317.4	4313.3	4378.9	4477.4	4575.8	4684.5	4783.0	4897.8	4973.7	5012.7
15°	4403.5	4395.3	4487.6	4633.2	4776.8	4904.0	4984.0	5092.7	5180.9	5230.1
17.5°	4506.1	4510.2	4631.2	4819.9	5008.6	5152.2	5228.0	5283.4	5351.1	5394.2
20°	4686.6	4694.8	4830.1	5053.7	5269.1	5433.1	5494.7	5474.2	5492.6	5525.4
22.5°	4928.6	4932.7	5084.5	5326.5	5552.1	5732.6	5773.6	5689.5	5638.2	5660.8
25°	5209.6	5236.2	5388.0	5636.2	5868.0	6040.2	6058.7	5931.5	5804.4	5810.5
27.5°	5552.1	5576.7	5730.5	5976.7	6212.5	6362.3	6360.2	6190.0	6003.3	5956.2
30°	5923.3	5950.0	6107.9	6362.3	6581.7	6713.0	6684.3	6481.2	6214.6	6126.4
32.5°	6364.3	6380.7	6540.7	6795.0	6998.1	7102.7	7043.2	6793.0	6460.7	6360.2
35°	6897.6	6922.2	7041.1	7281.1	7459.5	7545.7	7445.2	7149.8	6776.6	6663.8
37.5°	7506.7	7490.3	7625.7	7839.0	7986.7	8040.0	7902.6	7551.8	7137.5	7004.2
40°	8142.5	8134.3	8282.0	8487.1	8567.1	8599.9	8396.9	8013.3	7553.9	7410.3
42.5°	8718.9	8712.7	8911.7	9139.3	9235.7	9198.8	8942.4	8503.5	8035.9	7871.8
45°	9180.4	9172.1	9416.2	9736.2	9924.9	9863.3	9518.8	9045.0	8524.0	8353.8
47.5°	9535.2	9539.3	9801.8	10197.7	10527.9	10550.4	10107.4	9596.7	9061.4	8868.6
50°	9791.6	9803.9	10084.8	10523.8	10975.0	11173.9	10708.4	10162.8	9617.2	9399.8
52.5°	9855.1	9877.7	10216.1	10730.9	11262.1	11641.6	11319.6	10706.3	10144.3	9937.2
55°	9516.7	9561.8	9990.5	10714.5	11438.5	11949.2	11856.9	11258.0	10675.5	10462.2
57.5°	8739.4	8803.0	9303.4	10248.9	11399.6	12160.5	12273.3	11787.2	11206.8	11001.7
60°	7650.3	7726.2	8206.1	9237.8	10849.9	12238.4	12566.6	12302.0	11694.9	11495.9
62.5°	6007.4	6105.9	6680.2	7890.3	9689.0	11875.4	12816.8	12767.6	12133.8	11885.6
65°	3853.9	3958.5	4563.5	5993.1	8140.5	10763.7	12894.7	13220.9	12597.3	12250.7
67.5°	2323.8	2371.0	2670.4	3632.4	5950.0	9088.1	12234.3	13723.4	13138.8	12708.1
70°	1487.0	1513.7	1692.1	2133.1	3363.7	6630.9	10597.6	13817.7	13795.1	13177.8
72.5°	1009.1	1017.3	1064.5	1263.4	1903.3	3767.7	7816.4	12509.2	14205.3	13782.8
75°	738.4	783.5	859.4	894.2	1080.9	1882.8	4479.4	8788.6	11971.8	12156.4
77.5°	549.7	551.7	656.3	697.3	771.2	1002.9	1895.1	4906.0	7432.9	7804.1
80°	465.6	441.0	438.9	562.0	580.4	625.6	847.1	1694.1	2662.2	1614.2
82.5°	387.6	361.0	326.1	438.9	395.8	383.5	367.1	689.1	847.1	416.4
85°	270.7	258.4	246.1	287.1	225.6	192.8	176.4	322.0	356.9	176.4
87.5°	116.9	121.0	123.1	127.2	94.3	67.7	67.7	90.2	90.2	69.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4303.0
4329.7
4434.3
4612.7
4821.9
5029.1
5248.6
5414.7
5550.1
5677.2
5820.8
5970.5
6136.6
6384.8
6680.2
7028.8
7457.5
7912.8
8392.8
8926.0
9465.4
9990.5
10521.7
11048.8
11539.0
11914.4
12293.8
12740.9
13173.7
13717.2
11709.3
6961.2
1220.4
354.8
155.9
51.3
0.0

OF REPORT)