

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: P955415

Luminaire Tested: **GALN-SB8B-850-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
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-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45640 lumens
Efficiency: N/A
Efficacy: 155.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

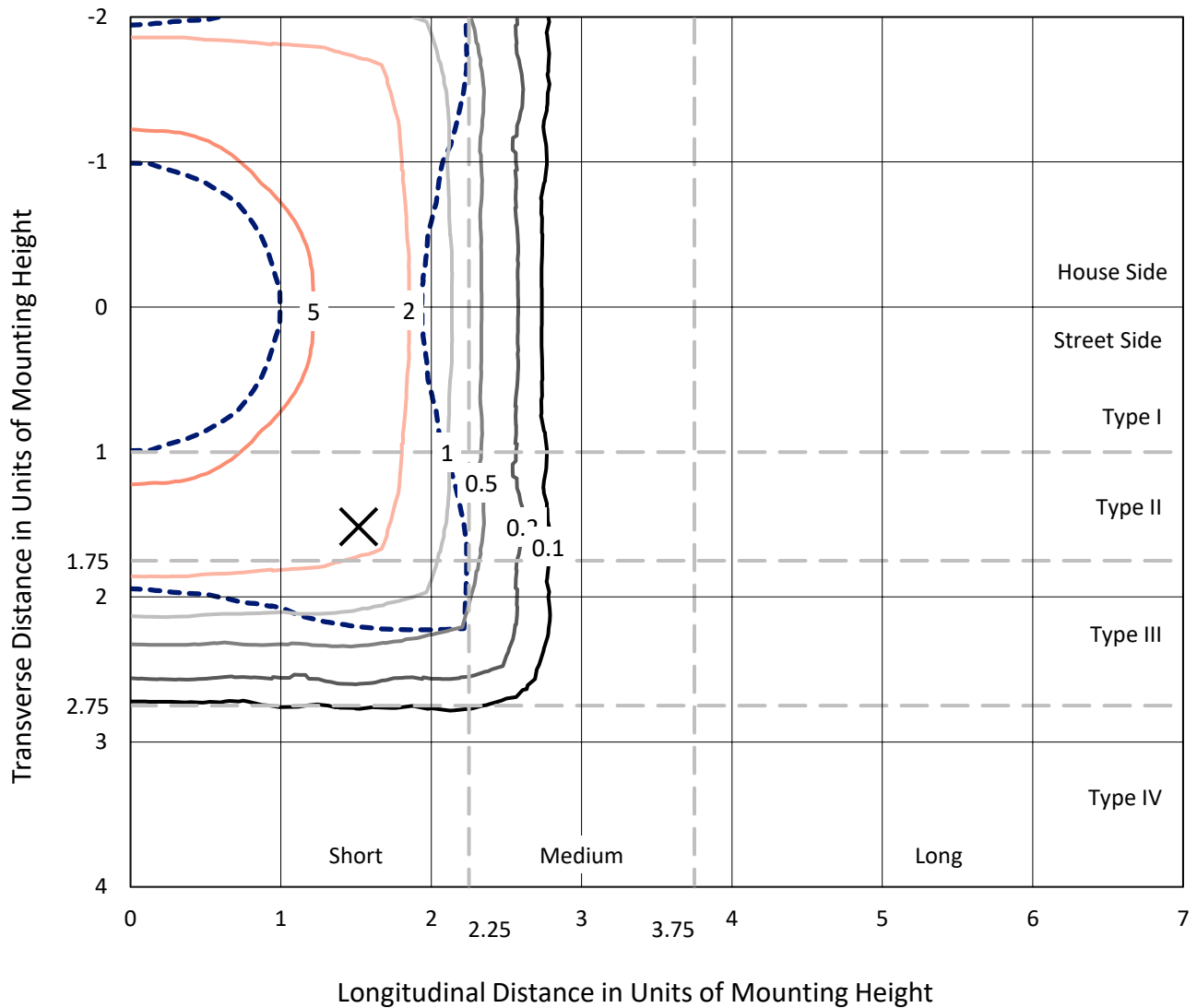
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

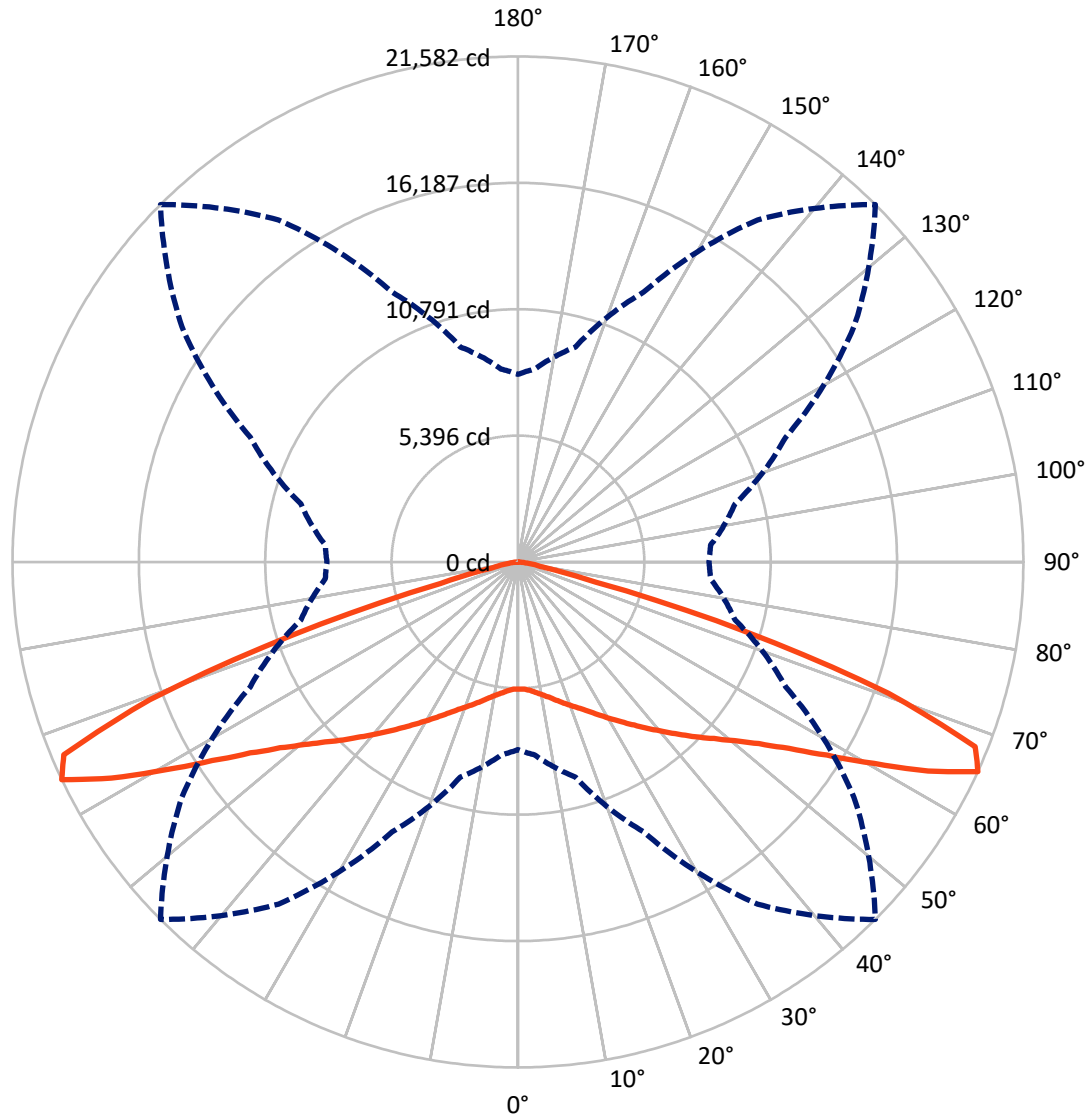
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22820.0	0.0	22820.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22820.0	0.0	22820.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	45640.0	0.0	45640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.0	1.2
10°-20°	1749.2	3.8
20°-30°	3302.6	7.2
30°-40°	5407.9	11.8
40°-50°	8385.1	18.4
50°-60°	12386.5	27.1
60°-70°	11790.8	25.8
70°-80°	1902.6	4.2
80°-90°	179.3	0.4
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°	45640.0	100.0
0°-180°	45640.0	100.0

Coefficient of Utilization



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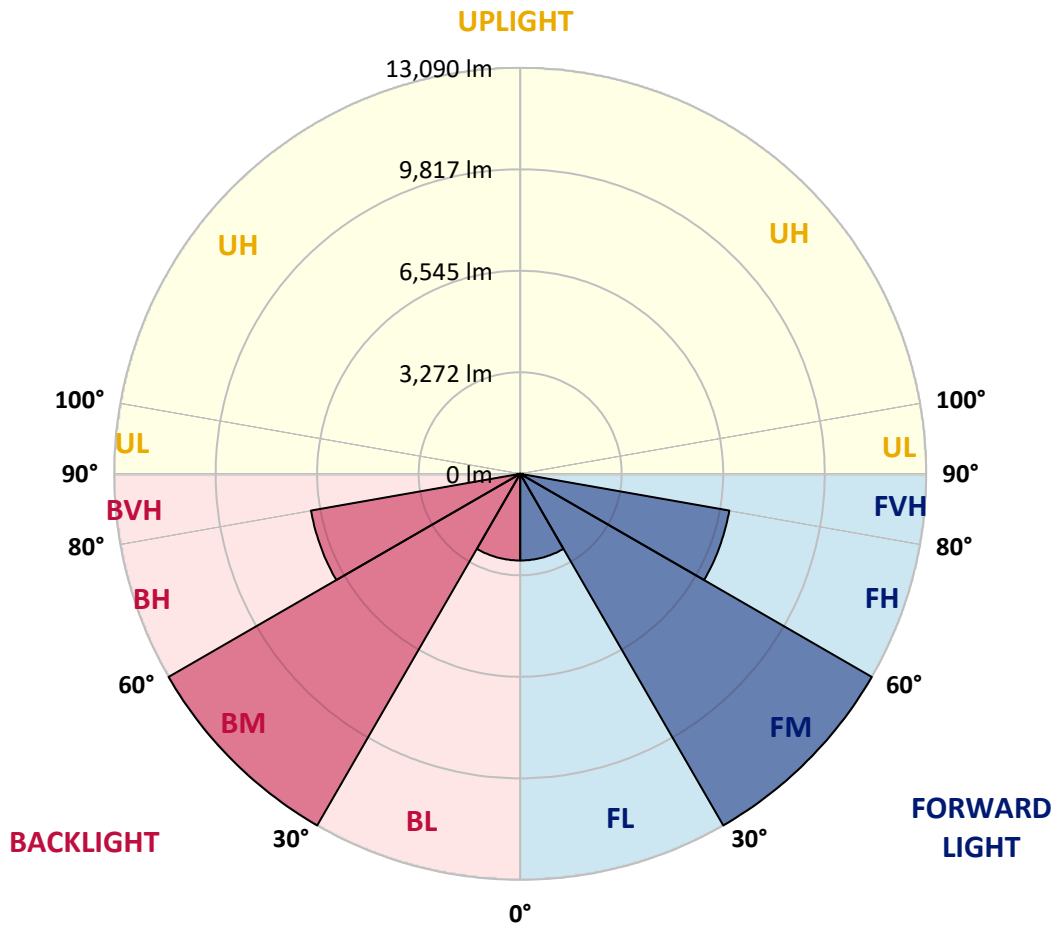
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2793.9	6.1			
FM (30°-60°)	13089.7	28.7			
FH (60°-80°)	6846.7	15.0			G3/7500
FVH (80°-90°)	89.7	0.2			G1/100
BL (0°-30°)	2793.9	6.1	B4/5000		
BM (30°-60°)	13089.7	28.7	B5		
BH (60°-80°)	6846.7	15.0	B5		G3/7500
BVH (80°-90°)	89.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6	5431.6
2.5°	5468.3	5449.9	5463.7	5452.2	5443.1	5433.9	5438.5	5454.5	5461.4	5463.7
5°	5541.5	5525.5	5532.4	5532.4	5516.3	5511.8	5514.1	5525.5	5539.2	5539.2
7.5°	5660.6	5644.6	5660.6	5651.4	5637.7	5633.1	5630.8	5640.0	5660.6	5660.6
10°	5804.9	5786.5	5795.7	5791.1	5775.1	5768.2	5765.9	5779.7	5798.0	5795.7
12.5°	5962.9	5942.3	5953.7	5940.0	5935.4	5928.5	5928.5	5926.2	5937.7	5928.5
15°	6139.2	6125.5	6130.0	6120.9	6127.7	6123.2	6104.8	6095.7	6100.3	6086.5
17.5°	6347.6	6315.5	6331.5	6327.0	6327.0	6336.1	6306.4	6294.9	6304.1	6290.3
20°	6588.0	6556.0	6562.8	6553.7	6542.2	6551.4	6514.7	6523.9	6530.8	6521.6
22.5°	6851.3	6810.1	6807.8	6812.4	6787.2	6789.5	6764.3	6787.2	6801.0	6775.8
25°	7121.6	7078.0	7107.8	7096.4	7064.3	7071.2	7052.9	7075.8	7087.2	7055.1
27.5°	7407.8	7378.0	7405.5	7412.4	7373.4	7400.9	7373.4	7394.1	7405.5	7357.4
30°	7742.1	7712.3	7737.5	7755.9	7710.1	7753.6	7730.7	7744.4	7746.7	7689.4
32.5°	8106.2	8060.4	8124.5	8133.7	8083.3	8136.0	8106.2	8124.5	8136.0	8058.1
35°	8550.4	8493.2	8566.5	8555.0	8511.5	8555.0	8527.5	8555.0	8582.5	8488.6
37.5°	9029.0	8969.5	9047.4	9026.7	8985.5	9015.3	8999.3	9017.6	9061.1	8960.3
40°	9555.7	9482.4	9587.8	9551.1	9512.2	9507.6	9516.8	9528.2	9585.5	9473.3
42.5°	10119.0	10041.2	10199.2	10141.9	10087.0	10050.3	10080.1	10103.0	10157.9	10032.0
45°	10762.5	10673.2	10879.3	10810.6	10723.5	10648.0	10696.1	10730.4	10810.6	10659.4
47.5°	11472.3	11371.6	11591.4	11570.8	11428.8	11264.0	11373.9	11472.3	11531.9	11348.7
50°	12166.2	12088.3	12376.8	12402.0	12228.0	11996.7	12150.2	12299.0	12315.0	12074.6
52.5°	12816.5	12738.7	13157.7	13315.7	13160.0	12885.2	13047.8	13198.9	13077.6	12766.1
55°	13336.3	13272.2	13805.7	14213.3	14266.0	14039.3	14135.5	14130.9	13732.5	13253.9
57.5°	13462.3	13453.1	14126.3	14989.6	15539.2	15566.7	15376.6	14891.1	14032.4	13389.0
60°	12889.8	12947.0	13872.1	15394.9	16860.5	17469.6	16647.5	15262.1	13691.2	12798.2
62.5°	11176.9	11328.1	12443.3	14900.3	17927.5	19658.7	17666.5	14698.8	12289.8	11124.3
65°	8010.0	8273.4	9505.3	12715.8	17831.4	21582.2	17519.9	12612.7	9596.9	8252.8
67.5°	3634.1	3902.0	4948.4	8706.2	15500.3	21060.1	15463.6	8797.8	5195.8	3915.7
70°	1316.7	1362.5	1699.1	3485.2	9906.1	16780.3	10329.7	3510.4	1806.7	1451.8
72.5°	796.9	803.8	874.7	1248.0	3441.7	10187.7	3588.3	1289.2	893.1	792.3
75°	506.1	501.5	622.8	762.5	1220.5	3437.1	1280.0	762.5	620.6	565.6
77.5°	364.1	375.5	446.5	570.2	769.4	1165.6	755.7	545.0	446.5	366.4
80°	272.5	279.4	325.2	444.2	540.4	725.9	480.9	403.0	336.6	229.0
82.5°	196.9	196.9	213.0	322.9	329.7	391.6	261.0	283.9	222.1	162.6
85°	116.8	114.5	132.8	192.4	171.7	144.3	119.1	174.0	139.7	100.8
87.5°	41.2	43.5	41.2	55.0	45.8	38.9	36.6	48.1	38.9	34.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5431.6
5463.7
5539.2
5653.7
5791.1
5933.1
6088.8
6301.8
6542.2
6801.0
7091.8
7394.1
7723.8
8110.8
8545.9
9022.2
9509.9
10098.4
10737.3
11410.5
12104.4
12775.3
13269.9
13347.8
12692.9
11055.6
8154.3
3858.5
1433.5
806.0
570.2
373.3
235.9
162.6
98.5
32.1
0.0

OF REPORT)