

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: P943750

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
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-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44055 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

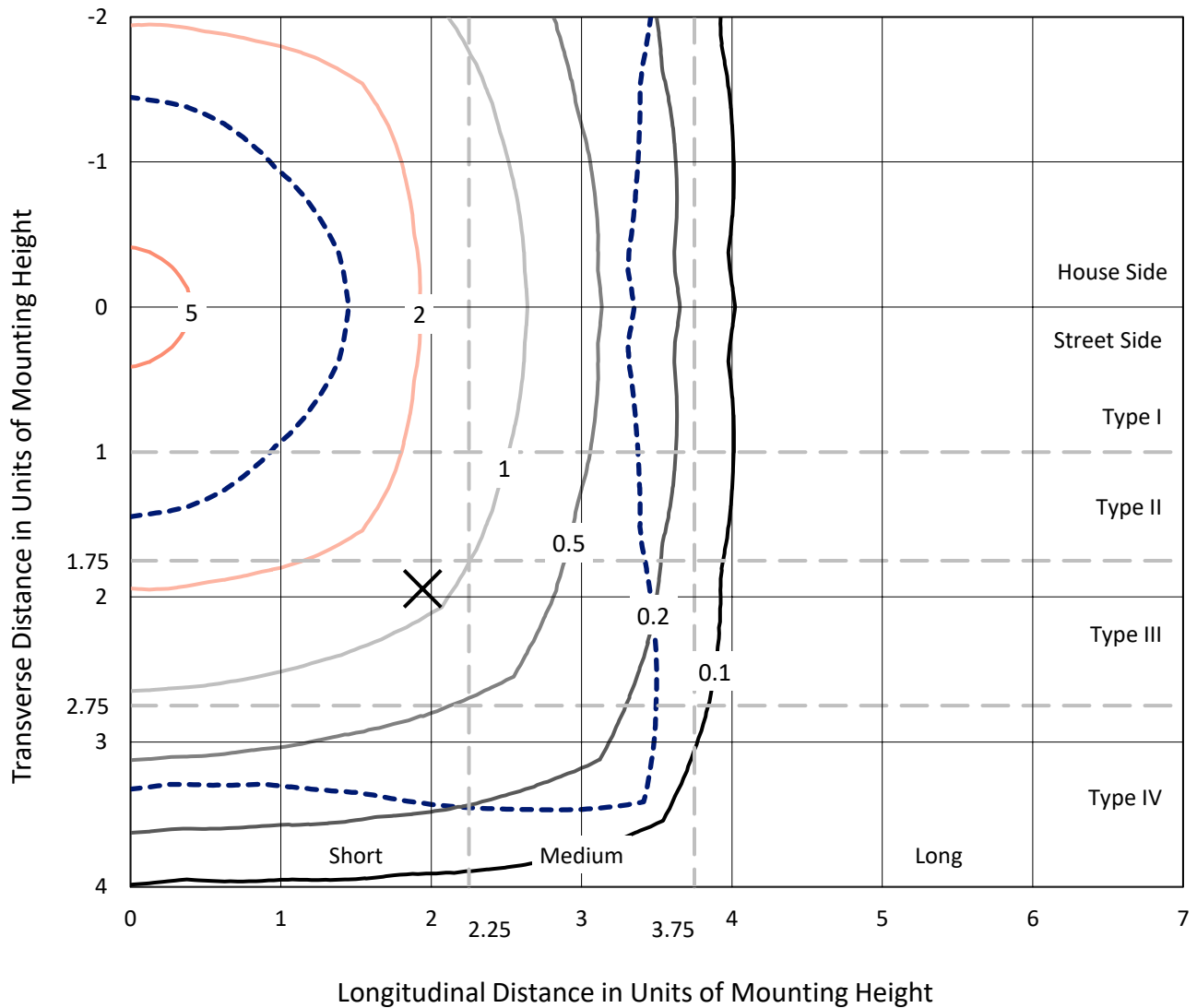
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

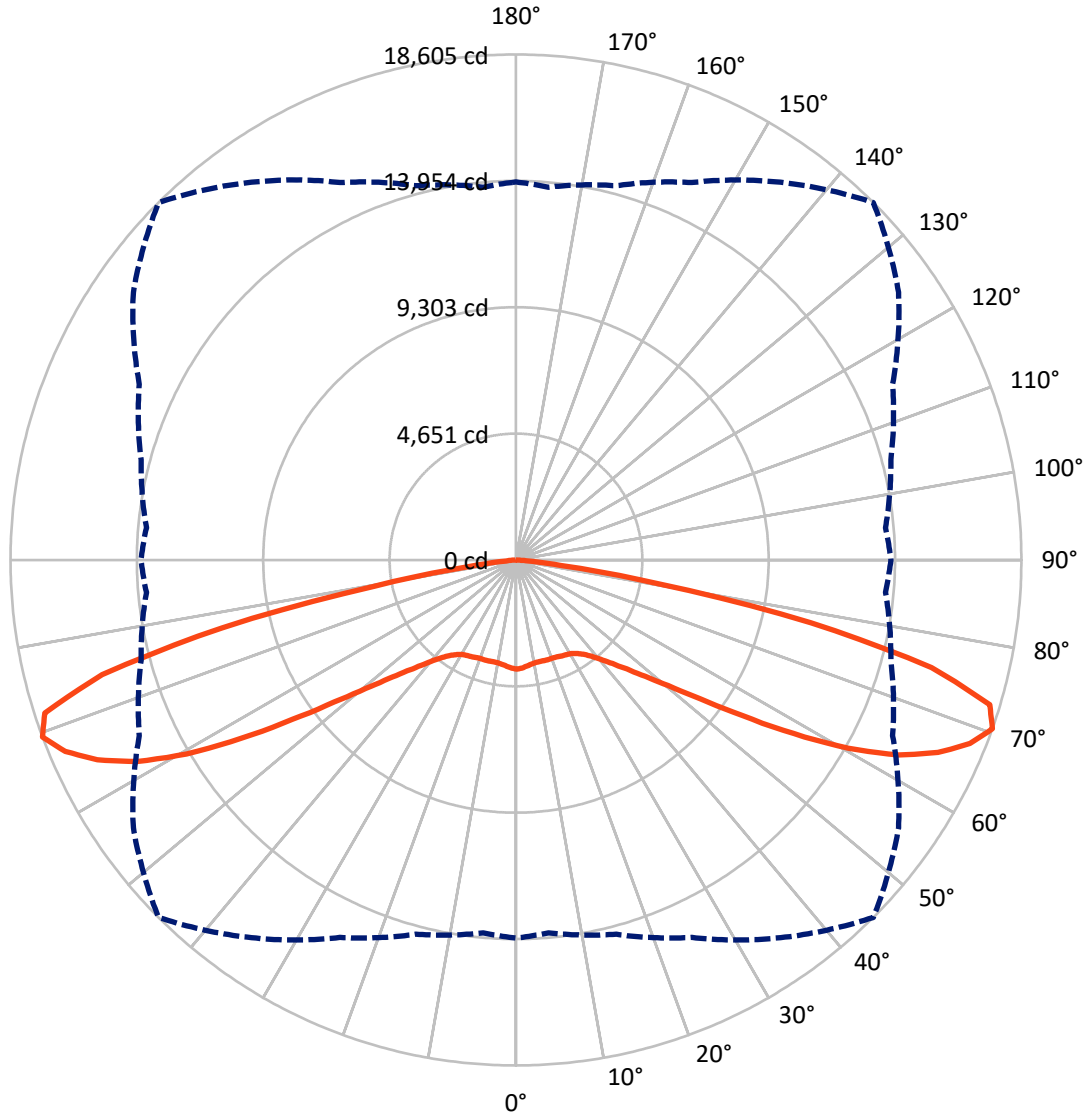
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22027.5	0.0	22027.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22027.5	0.0	22027.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44055.0	0.0	44055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.8	0.8
10°-20°	1097.7	2.5
20°-30°	1826.7	4.1
30°-40°	2762.5	6.3
40°-50°	4590.6	10.4
50°-60°	8662.3	19.7
60°-70°	14626.7	33.2
70°-80°	9611.2	21.8
80°-90°	503.5	1.1
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°	44055.0	100.0
0°-180°	44055.0	100.0

Coefficient of Utilization



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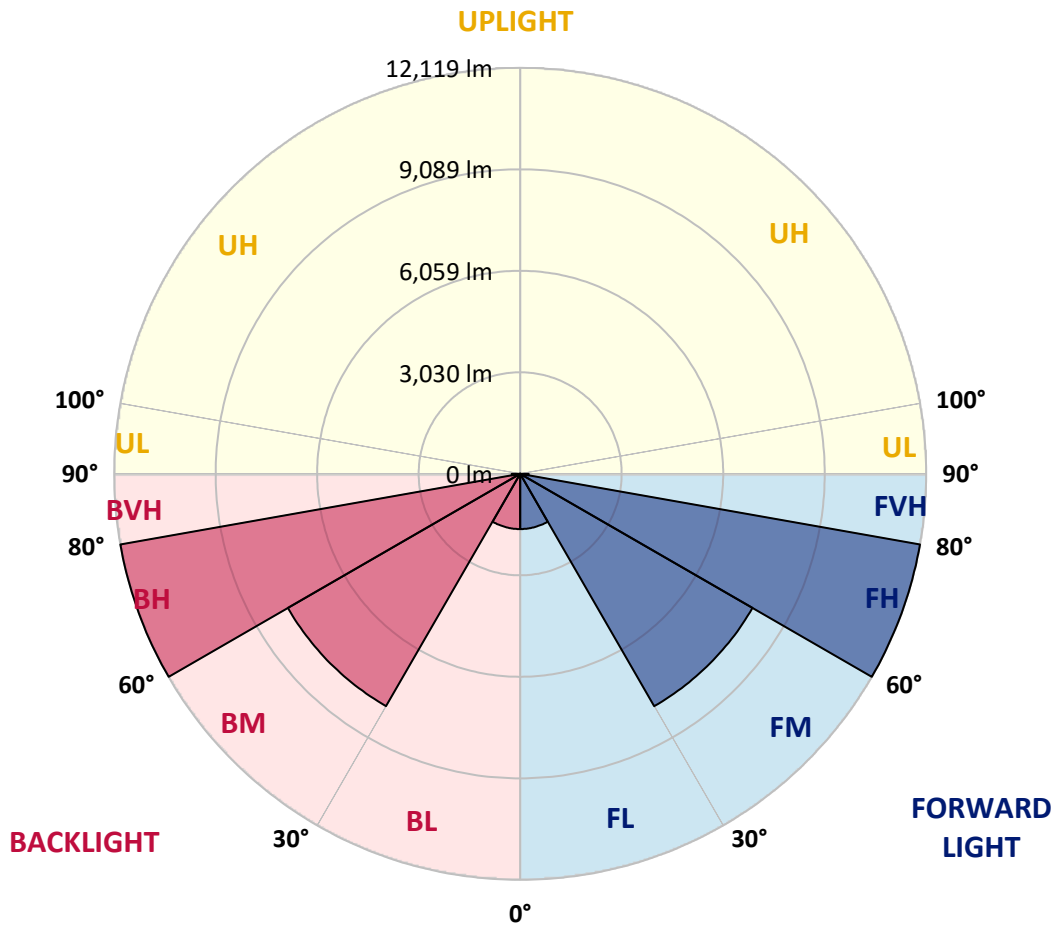
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.1	3.7			
FM (30°-60°)	8007.7	18.2			
FH (60°-80°)	12118.9	27.5			G5
FVH (80°-90°)	251.8	0.6			G3/500
BL (0°-30°)	1649.1	3.7	B3/2500		
BM (30°-60°)	8007.7	18.2	B4/8500		
BH (60°-80°)	12118.9	27.5	B5		G5
BVH (80°-90°)	251.8	0.6			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7
2.5°	3993.5	4005.0	4000.4	3991.2	3991.2	3984.4	3991.2	3995.8	4002.7	4007.3
5°	3940.8	3950.0	3947.7	3940.8	3943.1	3936.3	3940.8	3947.7	3952.3	3954.6
7.5°	3895.1	3904.2	3899.6	3888.2	3888.2	3881.3	3883.6	3890.5	3897.3	3899.6
10°	3883.6	3892.8	3879.0	3860.7	3853.8	3844.7	3847.0	3853.8	3867.6	3874.4
12.5°	3888.2	3895.1	3881.3	3853.8	3847.0	3837.8	3837.8	3844.7	3863.0	3872.2
15°	3901.9	3908.8	3888.2	3858.4	3851.5	3844.7	3842.4	3851.5	3872.2	3888.2
17.5°	3927.1	3934.0	3901.9	3860.7	3851.5	3853.8	3851.5	3858.4	3890.5	3920.2
20°	3950.0	3954.6	3911.1	3860.7	3851.5	3853.8	3851.5	3865.3	3906.5	3947.7
22.5°	3956.9	3961.5	3920.2	3876.7	3869.9	3872.2	3869.9	3883.6	3922.5	3963.7
25°	3959.2	3966.0	3934.0	3899.6	3911.1	3915.7	3911.1	3913.4	3943.1	3979.8
27.5°	3993.5	4002.7	3972.9	3943.1	3950.0	3947.7	3954.6	3961.5	3984.4	4021.0
30°	4064.5	4071.4	4046.2	4016.4	4011.8	3995.8	4016.4	4039.3	4064.5	4096.6
32.5°	4181.3	4195.0	4163.0	4130.9	4110.3	4101.1	4117.2	4156.1	4190.4	4224.8
35°	4375.9	4385.1	4355.3	4295.8	4259.1	4259.1	4272.9	4323.3	4378.2	4421.7
37.5°	4650.7	4662.2	4609.5	4538.5	4483.5	4483.5	4501.9	4554.5	4637.0	4698.8
40°	4985.0	5001.1	4934.6	4861.4	4808.7	4799.5	4822.4	4882.0	4959.8	5037.7
42.5°	5388.0	5406.4	5319.3	5255.2	5214.0	5214.0	5225.5	5280.4	5351.4	5447.6
45°	5903.3	5935.3	5816.2	5752.1	5713.2	5722.4	5729.2	5777.3	5841.4	5951.3
47.5°	6516.9	6549.0	6423.1	6356.6	6349.8	6393.3	6365.8	6400.2	6434.5	6560.4
50°	7213.1	7268.0	7181.0	7176.4	7190.2	7270.3	7206.2	7224.5	7185.6	7265.7
52.5°	8064.9	8145.0	8129.0	8156.5	8309.9	8474.8	8328.2	8264.1	8117.6	8142.7
55°	9097.6	9219.0	9241.9	9406.7	9754.8	10091.4	9780.0	9521.2	9209.8	9152.6
57.5°	10272.3	10368.5	10478.4	10815.0	11465.3	12063.0	11465.3	10892.9	10402.8	10286.0
60°	11536.3	11655.4	11760.7	12257.6	13223.9	14064.3	13205.6	12296.5	11648.5	11490.5
62.5°	12894.2	13047.6	13120.9	13672.7	14799.4	15802.3	14815.4	13714.0	12995.0	12825.5
65°	14197.1	14323.1	14405.5	14994.0	16070.2	17075.5	16143.5	15058.1	14318.5	14096.4
67.5°	14803.9	14872.6	15074.1	15740.5	16876.3	18023.5	17068.6	15811.5	14984.8	14595.6
70°	13915.5	13775.8	14261.2	15328.3	16972.4	18605.1	17192.3	15296.3	14284.1	13652.1
72.5°	10753.2	10512.7	11355.4	13180.4	15873.3	18234.1	15983.2	13283.5	11879.8	10597.5
75°	5850.6	5578.1	6741.3	9049.5	12658.3	15804.6	12949.2	9308.3	7506.2	5807.1
77.5°	1651.0	1547.9	2486.8	4378.2	7613.8	11096.7	7906.9	4474.4	2949.3	1749.5
80°	506.1	490.0	664.1	1319.0	3233.3	5314.8	3107.3	1335.0	845.0	533.5
82.5°	300.0	274.8	329.7	480.9	824.3	1669.3	801.5	501.5	403.0	270.2
85°	171.7	160.3	194.6	233.6	277.1	354.9	231.3	238.1	215.2	144.3
87.5°	71.0	64.1	75.6	73.3	64.1	82.4	61.8	73.3	87.0	57.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4018.7
4005.0
3954.6
3899.6
3874.4
3874.4
3890.5
3920.2
3950.0
3963.7
3977.5
4011.8
4089.7
4211.1
4405.7
4675.9
5012.5
5440.7
5946.8
6523.8
7217.6
8058.0
9063.3
10203.6
11353.1
12688.1
13986.5
14600.1
13803.3
10915.8
6184.9
1944.1
563.3
293.1
151.1
52.7
0.0

OF REPORT)