

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: P953986

Luminaire Tested: **GALN-SB7B-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40115 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

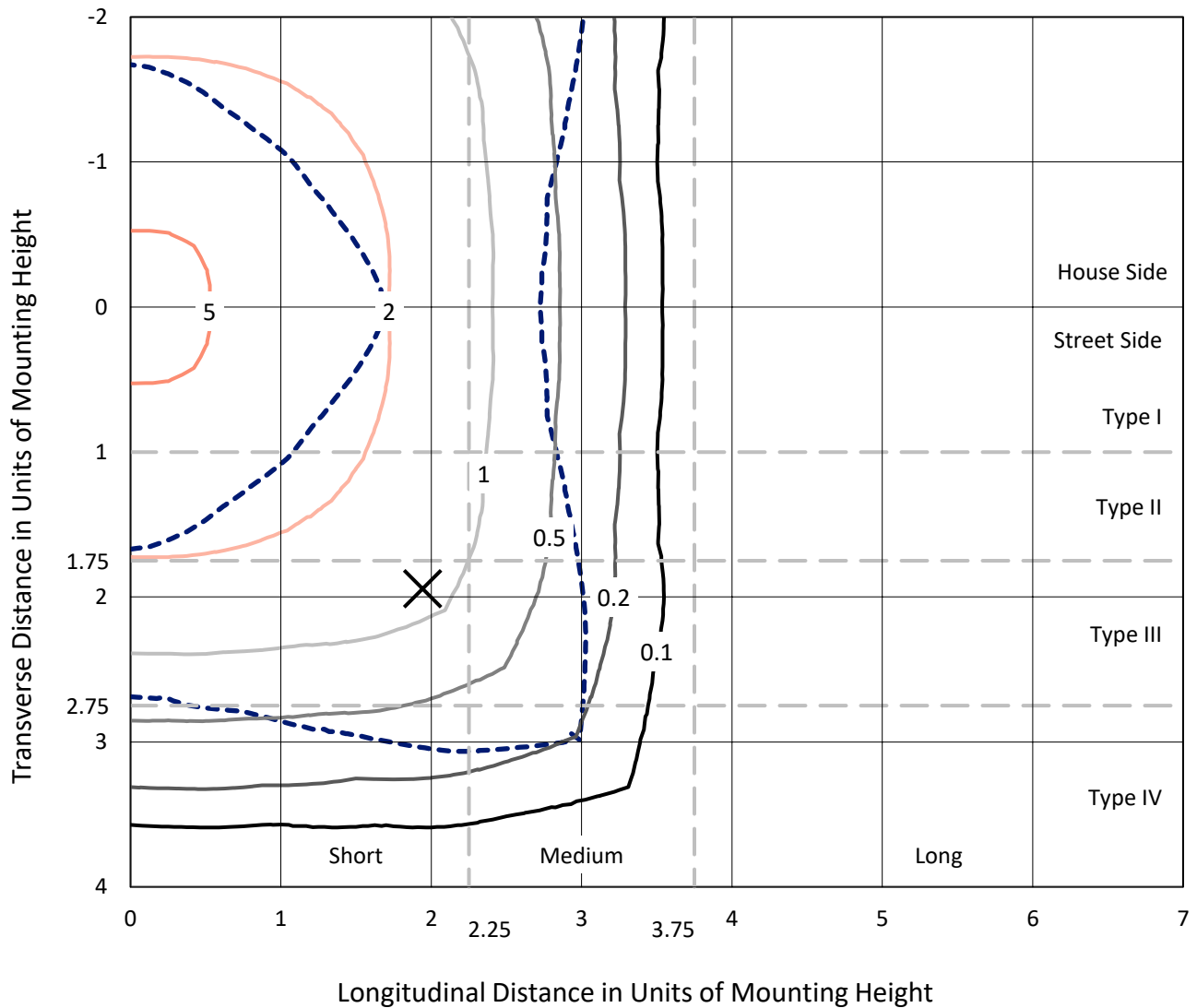
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

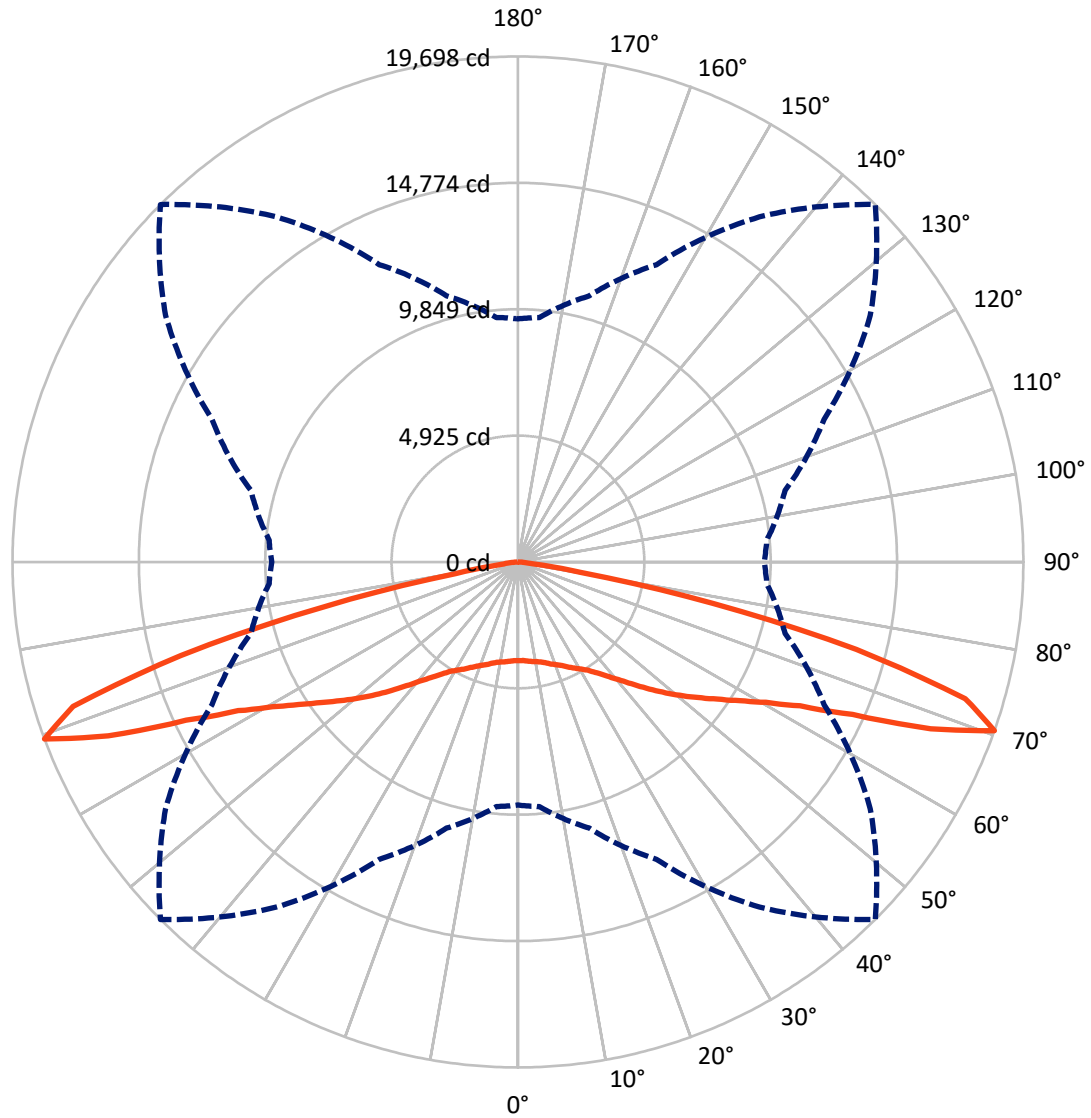
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	20057.5	0.0	20057.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20057.5	0.0	20057.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40115.0	0.0	40115.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.3	0.9
10°-20°	1157.6	2.9
20°-30°	2068.7	5.2
30°-40°	3353.4	8.4
40°-50°	5462.2	13.6
50°-60°	8327.9	20.8
60°-70°	12389.3	30.9
70°-80°	6752.6	16.8
80°-90°	229.9	0.6
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°	40115.0	100.0
0°-180°	40115.0	100.0



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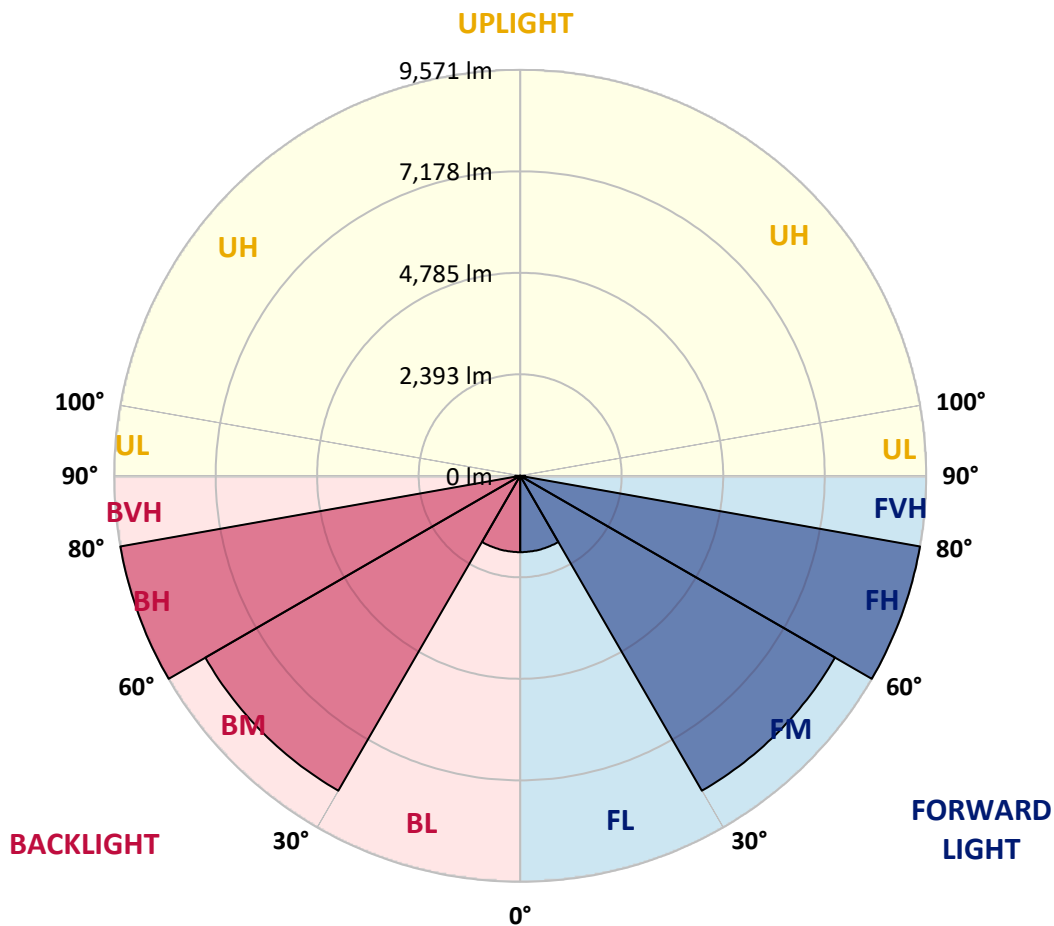
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1799.8	4.5			
FM (30°-60°)	8571.8	21.4			
FH (60°-80°)	9571.0	23.9			G4/12000
FVH (80°-90°)	115.0	0.3			G2/225
BL (0°-30°)	1799.8	4.5	B3/2500		
BM (30°-60°)	8571.8	21.4	B5		
BH (60°-80°)	9571.0	23.9	B5		G4/12000
BVH (80°-90°)	115.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6
2.5°	3860.7	3864.8	3856.7	3852.7	3848.6	3842.6	3844.6	3854.7	3862.7	3860.7
5°	3893.0	3897.0	3890.9	3888.9	3880.9	3878.9	3878.9	3888.9	3895.0	3890.9
7.5°	3929.2	3935.2	3925.2	3923.2	3919.1	3915.1	3913.1	3923.2	3929.2	3929.2
10°	3963.4	3969.5	3961.4	3955.4	3951.4	3951.4	3947.3	3955.4	3965.5	3963.4
12.5°	3999.7	4003.7	3995.7	3991.6	3991.6	3997.7	3991.6	3995.7	4003.7	3999.7
15°	4044.0	4046.0	4044.0	4050.0	4060.1	4080.2	4062.1	4058.1	4062.1	4052.1
17.5°	4104.4	4108.4	4116.5	4130.6	4144.7	4180.9	4148.7	4138.7	4138.7	4118.5
20°	4178.9	4185.0	4197.1	4221.2	4239.3	4273.6	4241.4	4227.3	4221.2	4195.0
22.5°	4257.5	4267.5	4285.7	4317.9	4350.1	4382.3	4350.1	4325.9	4307.8	4273.6
25°	4348.1	4360.2	4388.4	4440.7	4485.0	4531.4	4493.1	4444.8	4408.5	4360.2
27.5°	4477.0	4491.1	4525.3	4589.8	4646.2	4686.4	4650.2	4587.8	4537.4	4479.0
30°	4658.2	4672.3	4712.6	4781.1	4819.4	4845.5	4821.4	4773.0	4712.6	4646.2
32.5°	4891.9	4910.0	4954.3	5018.7	5026.8	5030.8	5022.8	4998.6	4954.3	4873.7
35°	5187.9	5208.1	5258.4	5310.8	5302.7	5310.8	5298.7	5290.6	5258.4	5165.8
37.5°	5550.4	5574.6	5627.0	5667.2	5647.1	5637.0	5639.0	5641.1	5622.9	5520.2
40°	5971.3	6003.6	6041.8	6084.1	6049.9	6019.7	6039.8	6055.9	6039.8	5935.1
42.5°	6404.3	6450.7	6490.9	6551.4	6523.2	6484.9	6513.1	6531.2	6497.0	6384.2
45°	6885.7	6930.0	6982.3	7073.0	7052.8	7012.5	7052.8	7056.9	6998.4	6865.5
47.5°	7383.1	7429.4	7508.0	7628.8	7620.8	7576.5	7628.8	7600.6	7526.1	7367.0
50°	7854.4	7918.8	8039.7	8208.8	8224.9	8170.6	8241.1	8186.7	8061.8	7862.4
52.5°	8297.4	8365.9	8557.2	8786.8	8845.2	8774.7	8869.4	8774.7	8587.4	8331.7
55°	8762.7	8839.2	9066.8	9366.8	9483.7	9431.3	9519.9	9376.9	9111.1	8800.9
57.5°	9310.5	9356.8	9628.7	9985.1	10182.5	10194.6	10234.9	9993.2	9671.0	9318.5
60°	9904.6	9969.0	10265.1	10692.0	11004.2	11104.9	11062.6	10704.1	10329.5	9924.7
62.5°	10665.8	10736.3	11090.8	11602.3	12095.7	12345.5	12180.3	11660.7	11197.5	10712.2
65°	11296.2	11374.7	12015.2	12927.5	13825.7	14327.2	13912.3	12955.7	12121.9	11437.2
67.5°	10839.0	10935.7	11940.7	13616.3	15849.7	17346.1	15926.3	13821.7	12188.4	11260.0
70°	9473.6	9564.2	10736.3	12784.5	16419.7	19698.4	16762.0	13161.1	10774.6	9735.4
72.5°	6289.5	6581.6	7767.8	10224.8	14661.5	18228.2	14806.5	10017.3	7205.9	6275.4
75°	2086.4	2320.1	3129.7	5300.7	9820.0	13632.4	9348.7	4690.5	2479.2	1784.4
77.5°	525.6	606.2	835.8	1516.5	3917.1	7761.7	3526.4	1238.6	674.7	471.3
80°	255.8	282.0	402.8	505.5	980.8	2467.1	920.4	475.3	318.2	245.7
82.5°	141.0	143.0	227.6	286.0	364.5	638.4	378.6	277.9	183.3	149.0
85°	86.6	84.6	120.8	153.1	153.1	227.6	181.3	153.1	104.7	92.6
87.5°	34.2	34.2	44.3	48.3	42.3	58.4	46.3	50.3	40.3	38.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3842.6
3862.7
3893.0
3929.2
3963.4
3997.7
4052.1
4118.5
4195.0
4271.6
4358.2
4477.0
4646.2
4875.8
5165.8
5520.2
5935.1
6392.3
6879.6
7356.9
7858.4
8307.5
8758.6
9270.2
9860.3
10627.6
11324.4
11121.0
9596.4
6072.0
1687.7
420.9
225.6
149.0
96.7
40.3
0.0

OF REPORT)