

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: P943073

Luminaire Tested: **GALN-SB7B-850-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
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-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37894 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

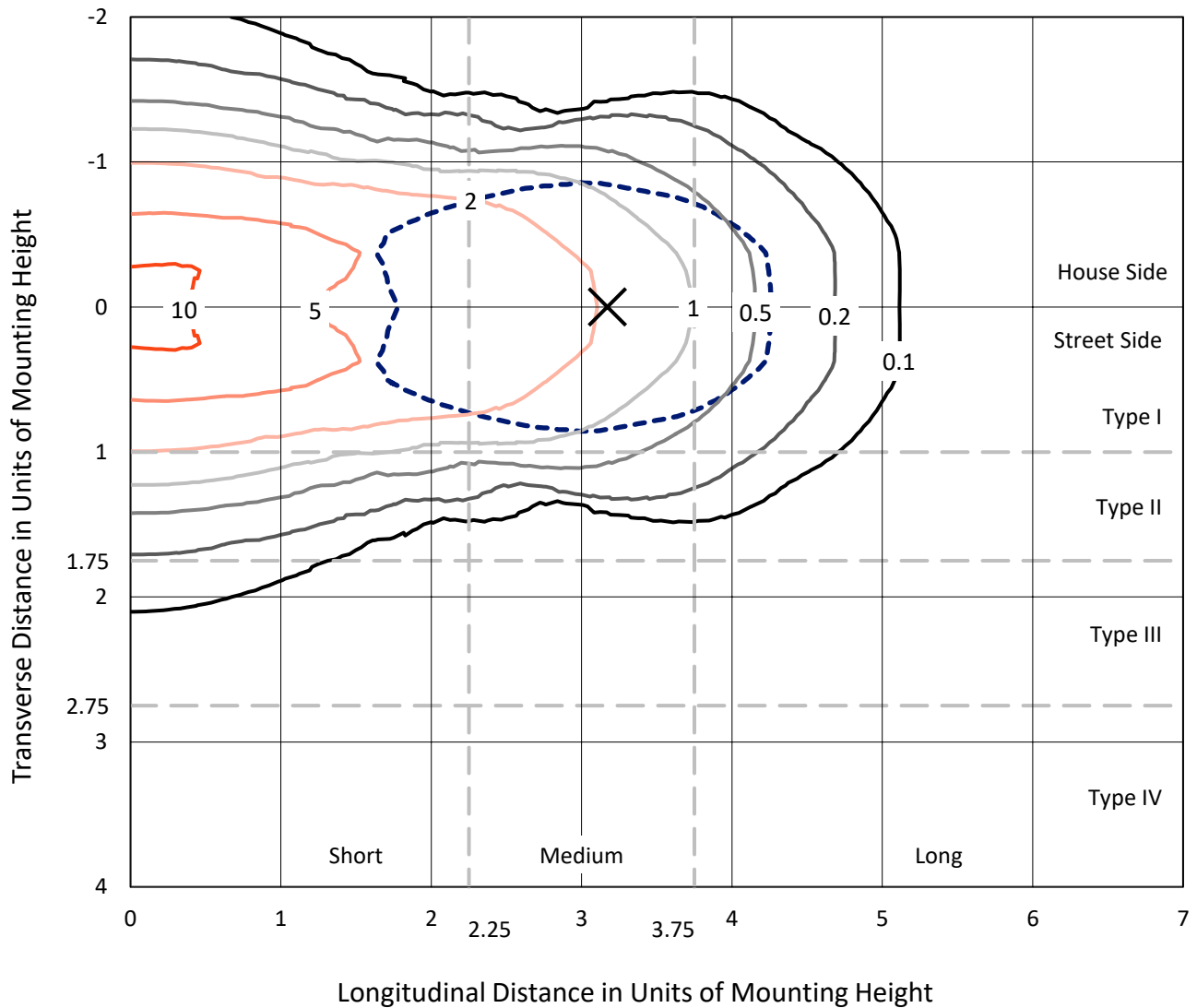
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943073
 CATALOG NUMBER: GALN-SB7B-850-U-T1

Iso-Footcandle Lines of Horizontal Illumination

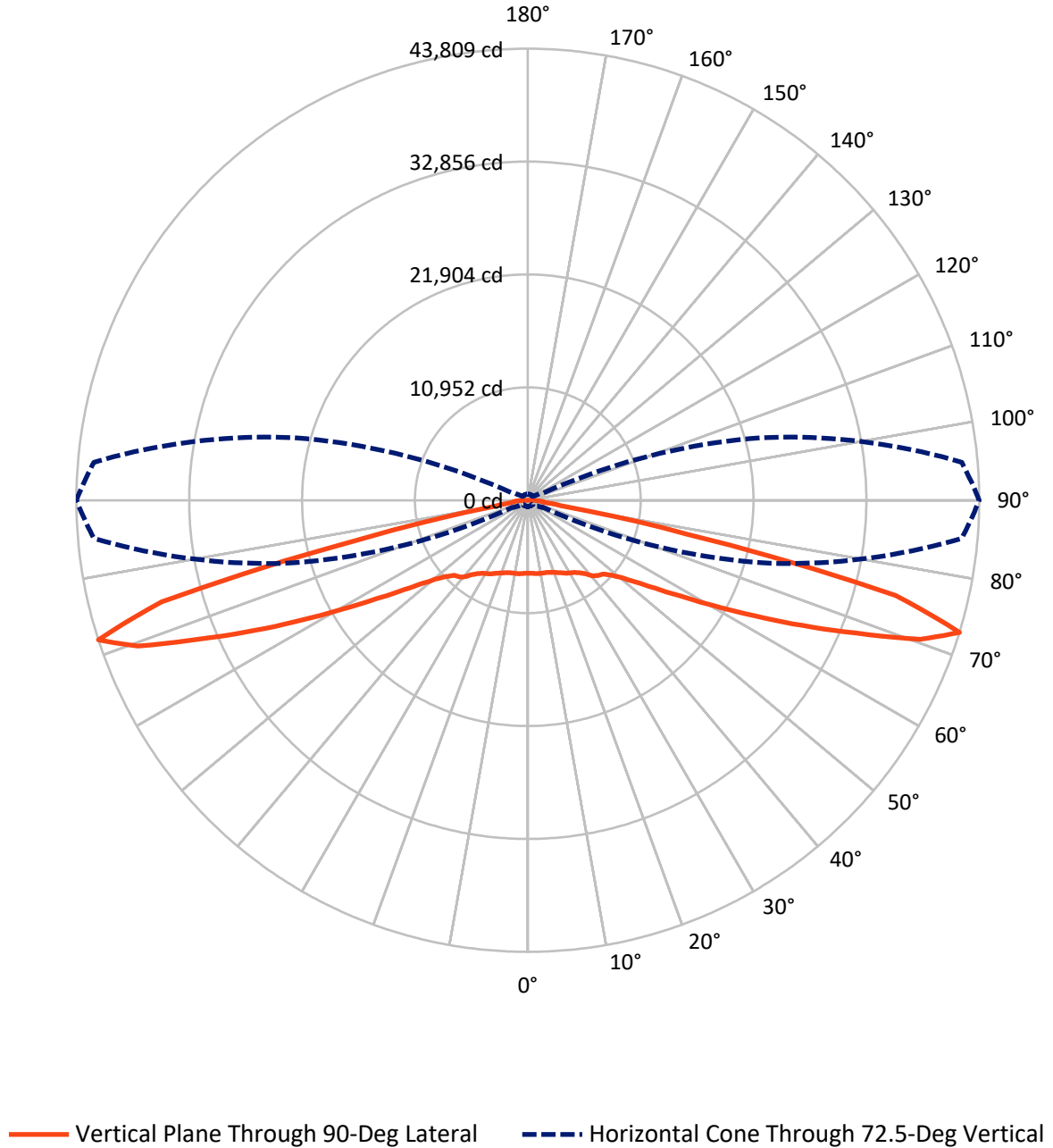
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type I - Short - N/A

REPORT NUMBER: P943073
CATALOG NUMBER: GALN-SB7B-850-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P943073
 CATALOG NUMBER: GALN-SB7B-850-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18947.0	0.0	18947.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18947.0	0.0	18947.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37894.0	0.0	37894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.6	1.8
10°-20°	2099.3	5.5
20°-30°	3500.4	9.2
30°-40°	4814.1	12.7
40°-50°	5879.3	15.5
50°-60°	6800.1	17.9
60°-70°	8108.0	21.4
70°-80°	5658.8	14.9
80°-90°	347.6	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°	37894.0	100.0
0°-180°	37894.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943073

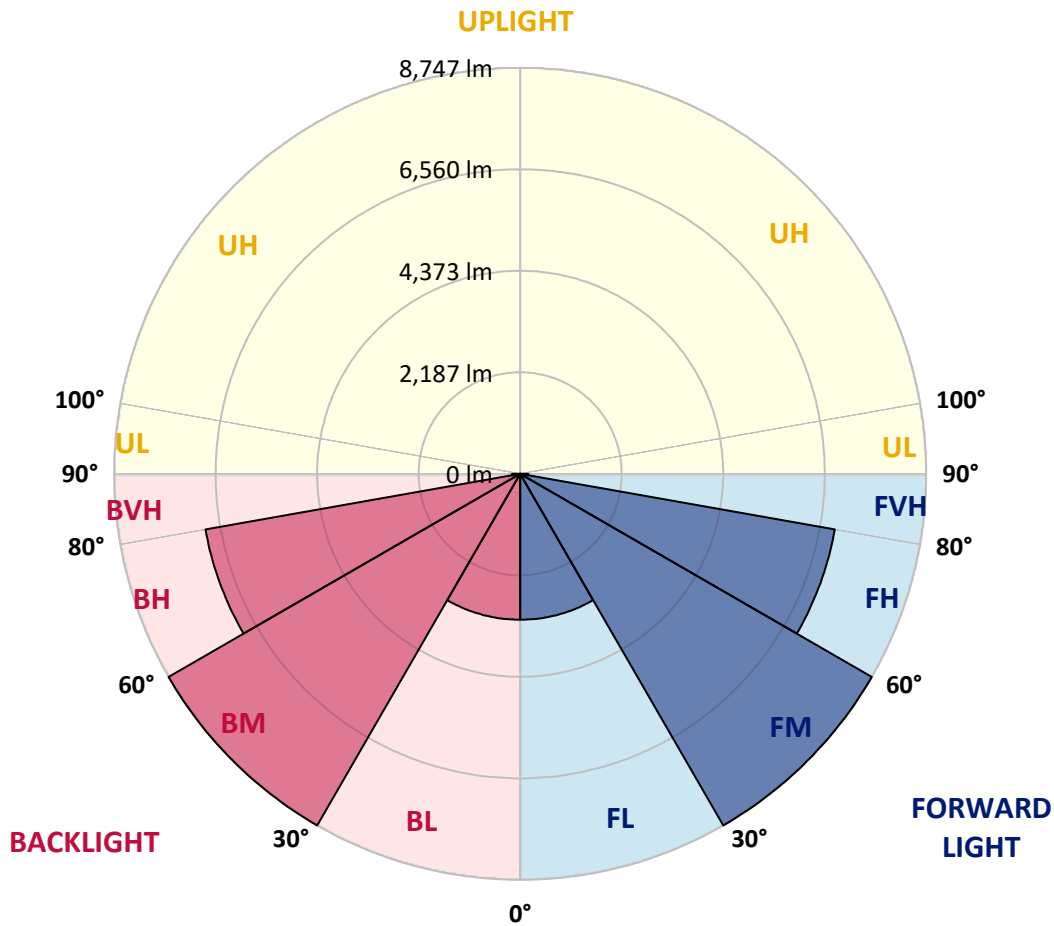
CATALOG NUMBER: GALN-SB7B-850-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3143.1	8.3			
FM (30°-60°)	8746.7	23.1			
FH (60°-80°)	6883.4	18.2			G3/7500
FVH (80°-90°)	173.8	0.5			G2/225
BL (0°-30°)	3143.1	8.3	B4/5000		
BM (30°-60°)	8746.7	23.1	B5		
BH (60°-80°)	6883.4	18.2	B5		G5
BVH (80°-90°)	173.8	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 I Short



REPORT NUMBER: P943073

CATALOG NUMBER: GALN-SB7B-850-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7080.9	7080.9	7080.9	7080.9	7080.9	7080.9	7080.9	7080.9	7080.9	7080.9
2.5°	7086.9	7095.0	7095.0	7088.9	7103.0	7091.0	7091.0	7084.9	7091.0	7084.9
5°	7123.2	7133.3	7137.3	7135.3	7153.4	7143.3	7143.3	7135.3	7137.3	7131.2
7.5°	7191.7	7205.8	7213.8	7223.9	7250.1	7238.0	7229.9	7205.8	7195.7	7179.6
10°	7213.8	7229.9	7256.1	7308.5	7368.9	7370.9	7346.7	7286.3	7240.0	7203.7
12.5°	7145.3	7167.5	7221.9	7328.6	7463.5	7517.9	7479.6	7379.0	7288.3	7223.9
15°	7058.7	7082.9	7165.5	7326.6	7526.0	7652.8	7648.8	7515.9	7370.9	7270.2
17.5°	6923.8	6948.0	7066.8	7292.4	7574.3	7783.7	7840.1	7703.2	7499.8	7364.9
20°	6680.1	6702.3	6867.4	7183.6	7590.4	7922.7	8069.7	7948.9	7695.1	7511.9
22.5°	6363.9	6398.2	6591.5	6996.3	7552.1	8067.7	8331.5	8249.0	7922.7	7669.0
25°	6025.6	6061.9	6287.4	6766.7	7453.5	8172.4	8641.7	8589.3	8180.5	7864.3
27.5°	5733.6	5771.9	6017.6	6539.2	7300.4	8212.7	8947.8	8974.0	8492.6	8079.8
30°	5504.0	5540.3	5802.1	6355.9	7103.0	8172.4	9215.6	9396.9	8810.8	8267.1
32.5°	5252.3	5298.6	5574.5	6132.3	6869.4	8075.8	9449.2	9854.0	9179.4	8468.5
35°	4934.1	4976.4	5266.4	5826.2	6563.3	7920.7	9644.6	10361.5	9707.0	8774.6
37.5°	4547.4	4587.7	4875.7	5443.6	6259.2	7703.2	9793.6	10933.5	10335.4	9215.6
40°	4158.7	4197.0	4466.8	5016.6	5894.7	7425.3	9846.0	11493.4	11056.3	9821.8
42.5°	3802.3	3836.5	4084.2	4595.7	5485.9	7070.8	9777.5	11980.7	11702.8	10244.7
45°	3474.0	3504.2	3723.7	4201.0	5060.9	6639.8	9572.1	12504.3	12472.1	10546.8
47.5°	3099.4	3129.6	3357.2	3818.4	4636.0	6134.4	9223.7	13019.9	13541.5	11231.6
50°	2642.2	2668.4	2902.0	3377.3	4195.0	5596.6	8740.4	13424.7	14890.8	12268.7
52.5°	2100.5	2128.7	2356.3	2831.6	3671.4	5018.7	8104.0	13688.5	16449.6	13783.2
55°	1562.8	1582.9	1780.3	2207.2	3022.9	4360.1	7306.5	13763.0	18217.8	15853.5
57.5°	1133.8	1145.9	1272.8	1591.0	2291.8	3536.4	6337.8	13569.7	20322.3	18507.8
60°	918.3	922.4	960.6	1101.6	1593.0	2606.0	5167.7	12905.1	22606.1	21929.4
62.5°	833.8	833.8	843.8	882.1	1077.4	1719.9	3751.9	11527.6	25055.0	26253.3
65°	775.4	775.4	779.4	797.5	849.9	1095.6	2368.4	9284.1	27119.3	31318.3
67.5°	723.0	725.0	723.0	729.0	759.2	809.6	1373.5	6412.3	28230.9	36566.5
70°	668.6	672.6	662.6	662.6	686.7	688.8	859.9	3516.3	27308.6	40964.9
72.5°	604.2	610.2	594.1	590.1	608.2	600.1	646.5	1687.7	23445.9	42277.9
75°	547.8	555.8	519.6	509.5	509.5	503.5	525.6	866.0	15217.1	34488.1
77.5°	497.4	513.5	455.1	422.9	414.9	396.7	429.0	529.7	6656.0	16191.8
80°	410.8	433.0	374.6	336.3	322.2	302.1	338.3	370.6	1979.7	3760.0
82.5°	306.1	316.2	265.8	239.7	227.6	213.5	253.8	257.8	644.4	1331.2
85°	195.3	199.4	163.1	141.0	134.9	128.9	161.1	141.0	245.7	978.8
87.5°	68.5	78.5	62.4	56.4	60.4	50.3	74.5	42.3	68.5	690.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

7080.9
7084.9
7131.2
7179.6
7197.7
7213.8
7254.1
7342.7
7477.6
7622.6
7799.9
8011.3
8168.4
8343.6
8635.6
9030.4
9624.5
9991.0
10204.5
10836.8
11773.3
13173.0
15090.2
17547.2
20719.1
24632.1
29268.1
34353.2
40382.8
43808.5
36888.7
15855.5
3600.9
1504.4
1421.8
855.9
0.0

OF REPORT)