

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: P941883

Luminaire Tested: **GALN-SB5C-850-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941883
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-SB5C-850-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35798 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

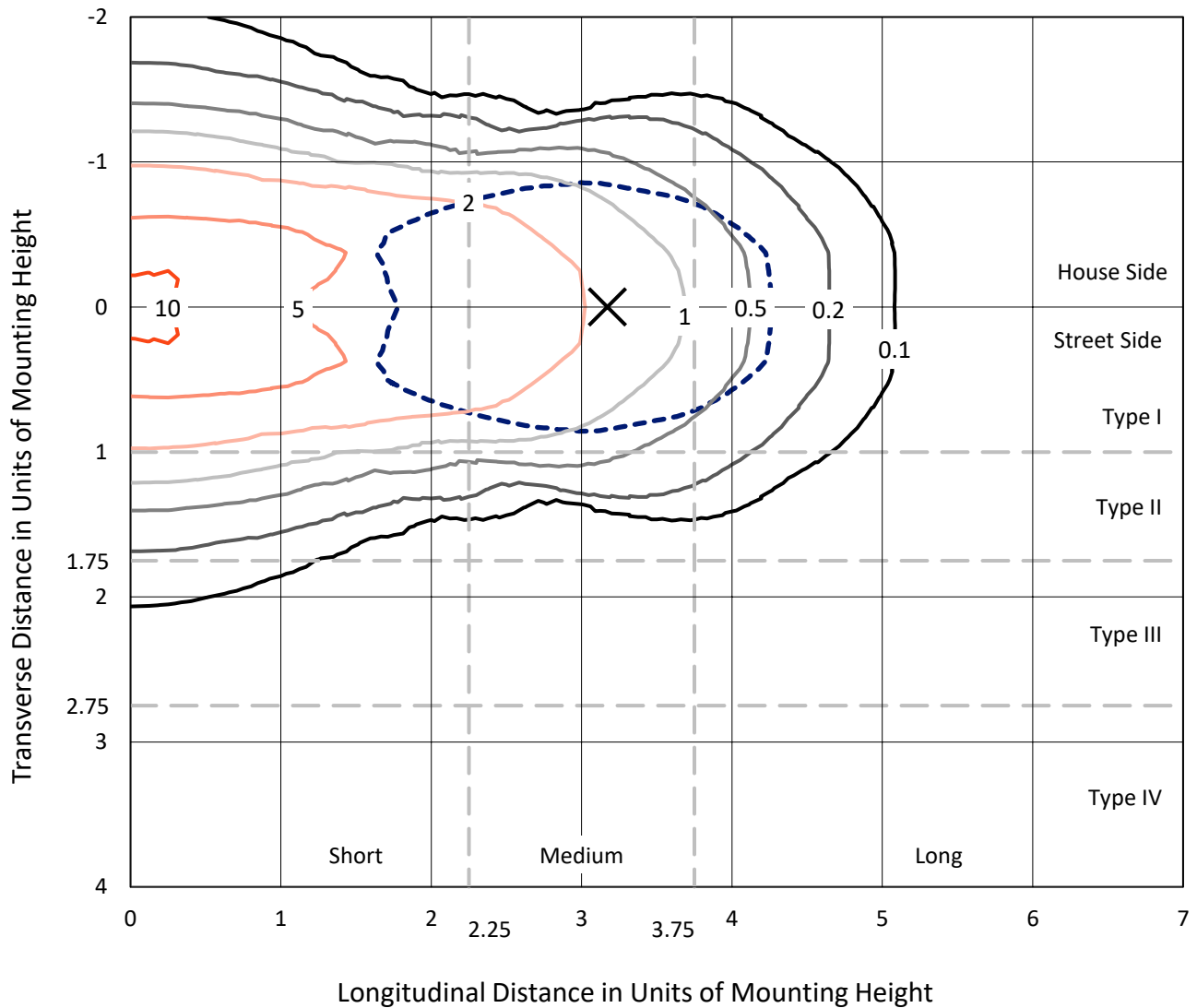
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941883
 CATALOG NUMBER: GALN-SB5C-850-U-T1

Iso-Footcandle Lines of Horizontal Illumination

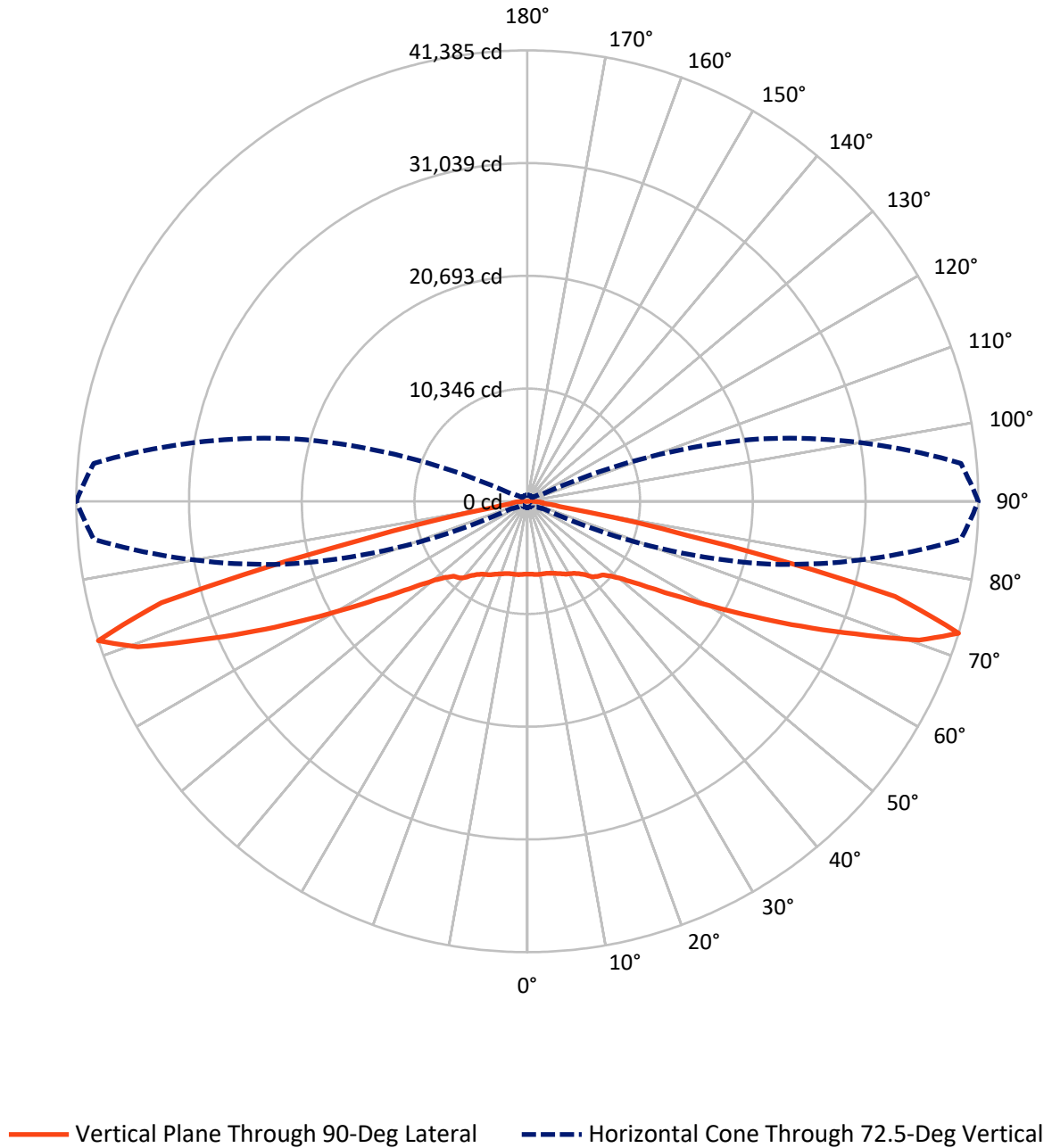
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type I - Short - N/A

REPORT NUMBER: P941883
CATALOG NUMBER: GALN-SB5C-850-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P941883
 CATALOG NUMBER: GALN-SB5C-850-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17899.0	0.0	17899.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17899.0	0.0	17899.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35798.0	0.0	35798.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.6	1.8
10°-20°	1983.2	5.5
20°-30°	3306.8	9.2
30°-40°	4547.8	12.7
40°-50°	5554.1	15.5
50°-60°	6423.9	17.9
60°-70°	7659.5	21.4
70°-80°	5345.8	14.9
80°-90°	328.4	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°	35798.0	100.0
0°-180°	35798.0	100.0



REPORT NUMBER: P941883

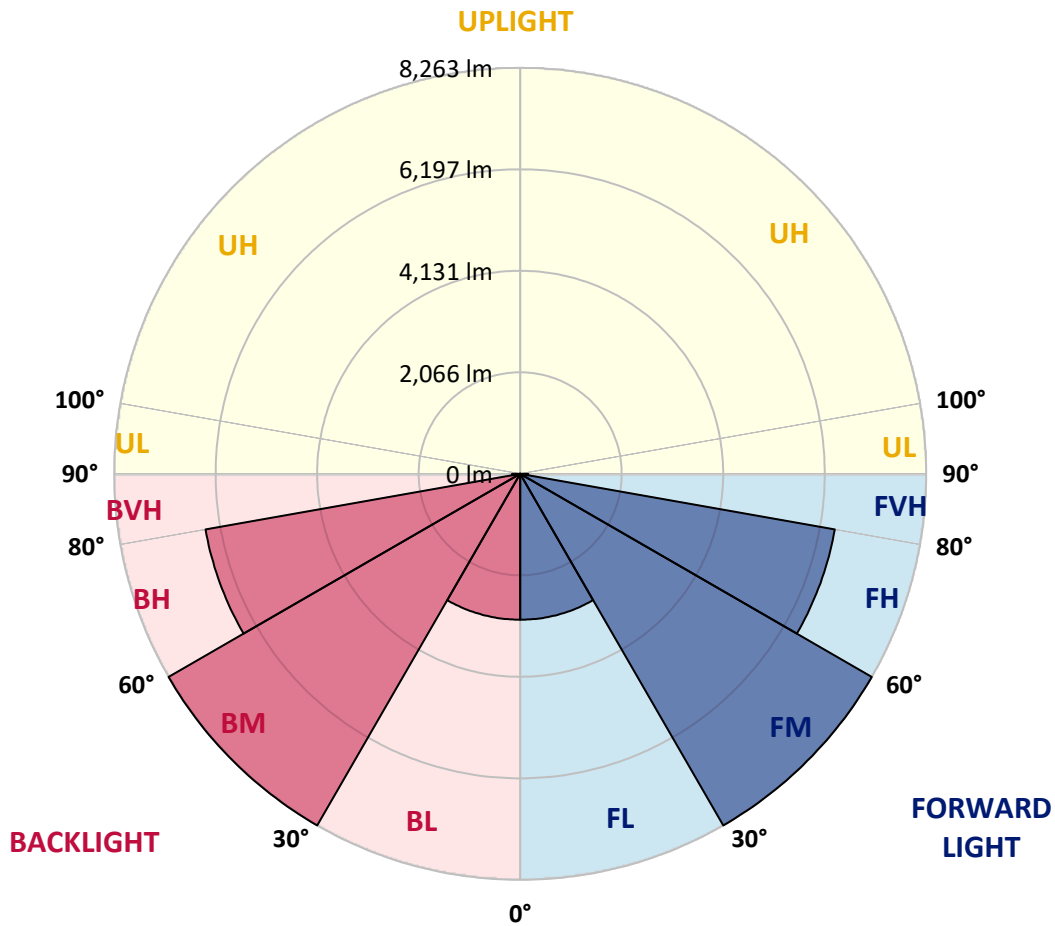
CATALOG NUMBER: GALN-SB5C-850-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2969.3	8.3			
FM (30°-60°)	8262.9	23.1			
FH (60°-80°)	6502.6	18.2			G3/7500
FVH (80°-90°)	164.2	0.5			G2/225
BL (0°-30°)	2969.3	8.3	B4/5000		
BM (30°-60°)	8262.9	23.1	B4/8500		
BH (60°-80°)	6502.6	18.2	B5		G5
BVH (80°-90°)	164.2	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: P941883

CATALOG NUMBER: GALN-SB5C-850-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6689.2	6689.2	6689.2	6689.2	6689.2	6689.2	6689.2	6689.2	6689.2	6689.2
2.5°	6694.9	6702.6	6702.6	6696.8	6710.2	6698.7	6698.7	6693.0	6698.7	6693.0
5°	6729.2	6738.7	6742.5	6740.6	6757.7	6748.2	6748.2	6740.6	6742.5	6736.8
7.5°	6793.9	6807.2	6814.8	6824.3	6849.0	6837.6	6830.0	6807.2	6797.7	6782.5
10°	6814.8	6830.0	6854.8	6904.2	6961.3	6963.2	6940.4	6883.3	6839.5	6805.3
12.5°	6750.1	6771.0	6822.4	6923.2	7050.7	7102.1	7065.9	6970.8	6885.2	6824.3
15°	6668.3	6691.1	6769.1	6921.3	7109.7	7229.5	7225.7	7100.2	6963.2	6868.1
17.5°	6540.8	6563.7	6675.9	6889.0	7155.3	7353.2	7406.5	7277.1	7085.0	6957.5
20°	6310.6	6331.6	6487.6	6786.3	7170.6	7484.5	7623.4	7509.2	7269.5	7096.4
22.5°	6011.9	6044.3	6226.9	6609.3	7134.4	7621.5	7870.7	7792.7	7484.5	7244.8
25°	5692.3	5726.6	5939.6	6392.4	7041.2	7720.4	8163.7	8114.2	7728.0	7429.3
27.5°	5416.5	5452.6	5684.7	6177.5	6896.6	7758.4	8452.9	8477.6	8022.9	7632.9
30°	5199.6	5233.8	5481.1	6004.3	6710.2	7720.4	8705.9	8877.1	8323.5	7809.8
32.5°	4961.8	5005.5	5266.2	5793.2	6489.5	7629.1	8926.6	9309.0	8671.7	8000.1
35°	4661.2	4701.1	4975.1	5504.0	6200.3	7482.6	9111.1	9788.4	9170.1	8289.2
37.5°	4295.9	4333.9	4606.0	5142.5	5913.0	7277.1	9251.9	10328.7	9763.7	8705.9
40°	3928.7	3964.8	4219.8	4739.2	5568.7	7014.6	9301.4	10857.6	10444.8	9278.6
42.5°	3591.9	3624.3	3858.3	4341.5	5182.4	6679.7	9236.7	11318.0	11055.5	9678.1
45°	3281.8	3310.4	3517.7	3968.6	4781.0	6272.6	9042.6	11812.7	11782.3	9963.5
47.5°	2928.0	2956.5	3171.5	3607.2	4379.6	5795.1	8713.5	12299.7	12792.5	10610.3
50°	2496.1	2520.8	2741.5	3190.5	3962.9	5287.1	8256.9	12682.1	14067.2	11590.1
52.5°	1984.3	2011.0	2225.9	2674.9	3468.3	4741.1	7655.7	12931.4	15539.7	13020.8
55°	1476.3	1495.4	1681.8	2085.2	2855.7	4118.9	6902.3	13001.8	17210.1	14976.6
57.5°	1071.1	1082.5	1202.4	1503.0	2165.1	3340.8	5987.2	12819.1	19198.3	17484.1
60°	867.5	871.4	907.5	1040.7	1504.9	2461.9	4881.8	12191.3	21355.7	20716.5
62.5°	787.6	787.6	797.2	833.3	1017.8	1624.7	3544.4	10890.0	23669.2	24801.2
65°	732.5	732.5	736.3	753.4	802.9	1035.0	2237.4	8770.6	25619.2	29586.0
67.5°	683.0	684.9	683.0	688.7	717.2	764.8	1297.5	6057.6	26669.4	34543.9
70°	631.6	635.4	625.9	625.9	648.8	650.7	812.4	3321.8	25798.1	38699.0
72.5°	570.8	576.5	561.2	557.4	574.6	566.9	610.7	1594.3	22149.1	39939.4
75°	517.5	525.1	490.8	481.3	481.3	475.6	496.6	818.1	14375.4	32580.5
77.5°	469.9	485.1	430.0	399.5	391.9	374.8	405.2	500.4	6287.8	15296.2
80°	388.1	409.0	353.9	317.7	304.4	285.4	319.6	350.1	1870.2	3552.0
82.5°	289.2	298.7	251.1	226.4	215.0	201.7	239.7	243.5	608.8	1257.6
85°	184.5	188.3	154.1	133.2	127.5	121.8	152.2	133.2	232.1	924.6
87.5°	64.7	74.2	59.0	53.3	57.1	47.6	70.4	40.0	64.7	652.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

6689.2
6693.0
6736.8
6782.5
6799.6
6814.8
6852.9
6936.6
7064.0
7201.0
7368.4
7568.2
7716.6
7882.1
8158.0
8530.9
9092.1
9438.4
9640.0
10237.4
11122.1
12444.3
14255.5
16576.6
19573.0
23269.6
27649.2
32453.1
38149.2
41385.4
34848.3
14978.5
3401.7
1421.2
1343.2
808.6
0.0

OF REPORT)