

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: P941713

Luminaire Tested: **GALN-SB5B-850-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941713
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-SB5B-850-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 26916 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

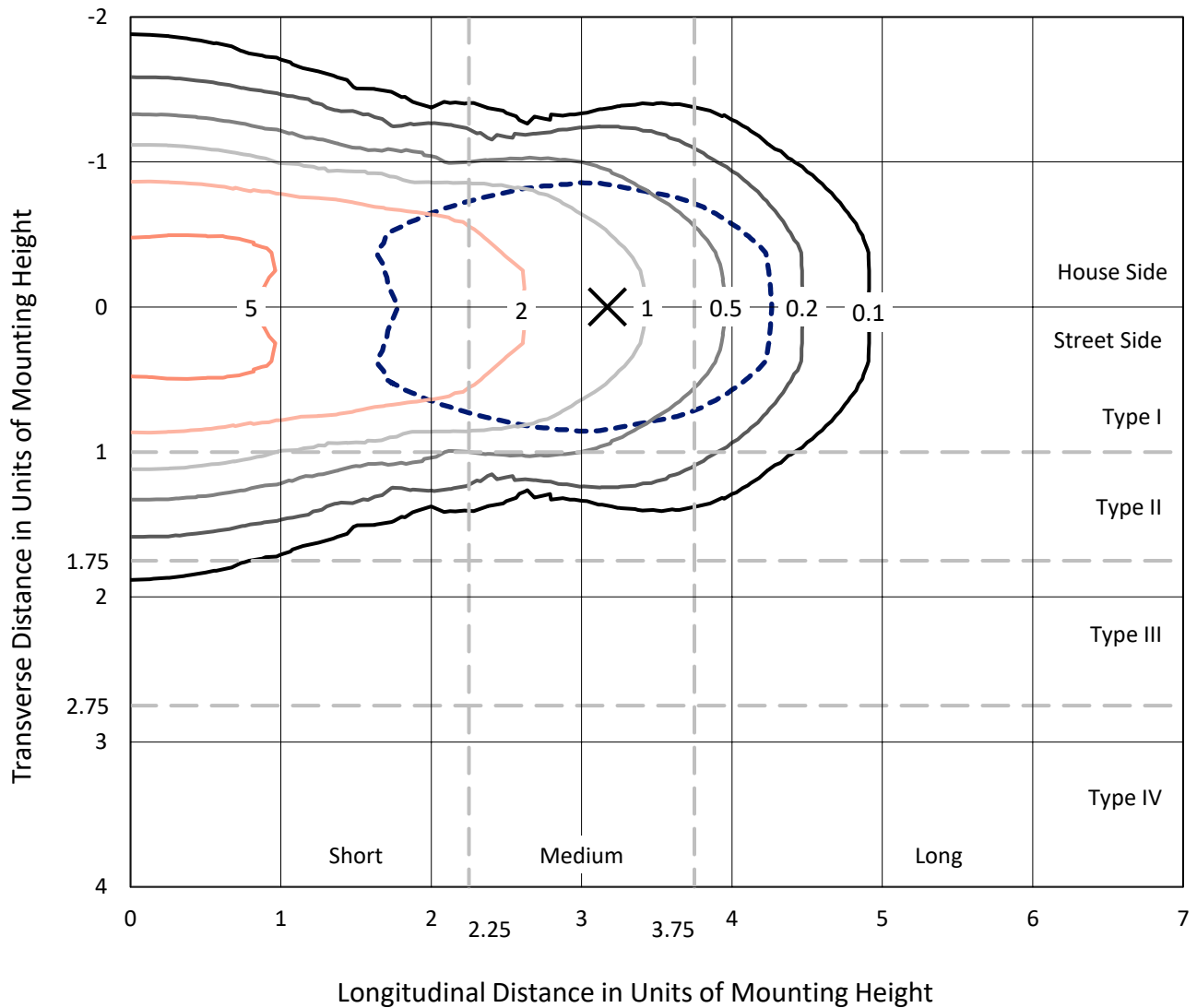
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941713
 CATALOG NUMBER: GALN-SB5B-850-U-T1

Iso-Footcandle Lines of Horizontal Illumination

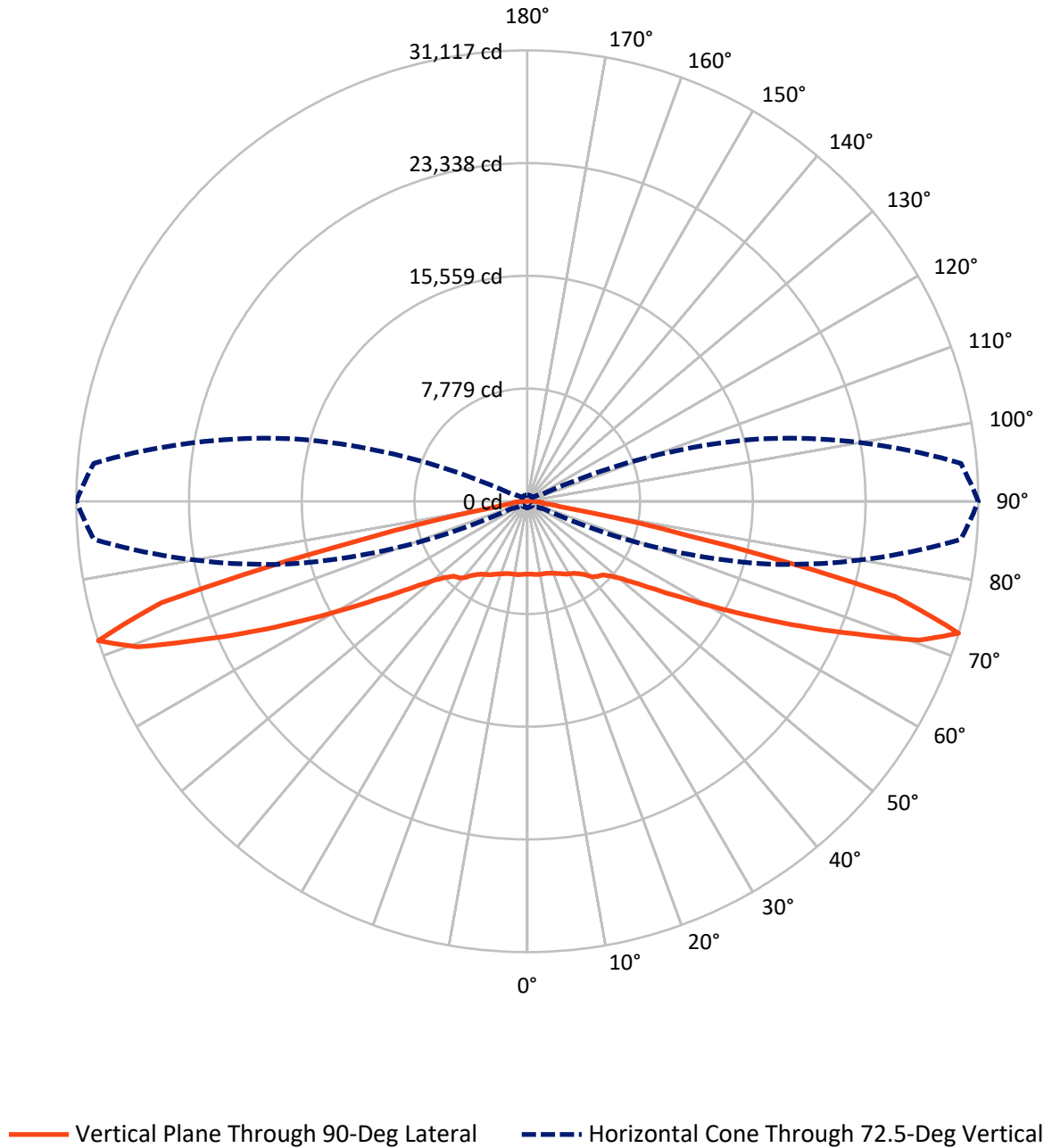
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type I - Short - N/A

REPORT NUMBER: P941713
CATALOG NUMBER: GALN-SB5B-850-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P941713

CATALOG NUMBER: GALN-SB5B-850-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13458.0	0.0	13458.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13458.0	0.0	13458.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26916.0	0.0	26916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.7	1.8
10°-20°	1491.1	5.5
20°-30°	2486.3	9.2
30°-40°	3419.4	12.7
40°-50°	4176.1	15.5
50°-60°	4830.1	17.9
60°-70°	5759.0	21.4
70°-80°	4019.4	14.9
80°-90°	246.9	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°	26916.0	100.0
0°-180°	26916.0	100.0

Coefficient of Utilization



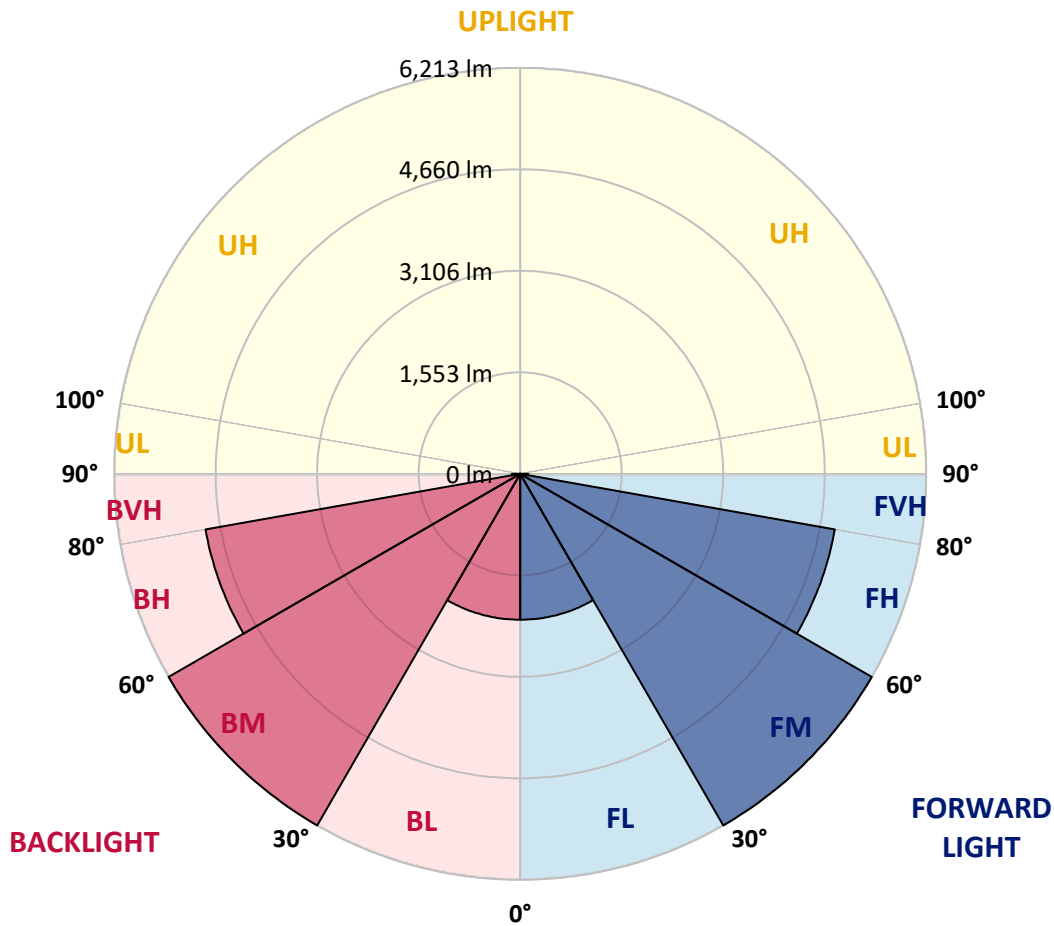
REPORT NUMBER: P941713
 CATALOG NUMBER: GALN-SB5B-850-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2232.5	8.3			
FM (30°-60°)	6212.8	23.1			
FH (60°-80°)	4889.2	18.2			G2/5000
FVH (80°-90°)	123.4	0.5			G2/225
BL (0°-30°)	2232.5	8.3	B3/2500		
BM (30°-60°)	6212.8	23.1	B4/8500		
BH (60°-80°)	4889.2	18.2	B4/5000		G4/5000
BVH (80°-90°)	123.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



REPORT NUMBER: P941713
 CATALOG NUMBER: GALN-SB5B-850-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5029.5	5029.5	5029.5	5029.5	5029.5	5029.5	5029.5	5029.5	5029.5	5029.5
2.5°	5033.8	5039.6	5039.6	5035.3	5045.3	5036.7	5036.7	5032.4	5036.7	5032.4
5°	5059.6	5066.7	5069.6	5068.2	5081.0	5073.9	5073.9	5068.2	5069.6	5065.3
7.5°	5108.2	5118.2	5123.9	5131.1	5149.7	5141.1	5135.4	5118.2	5111.1	5099.6
10°	5123.9	5135.4	5154.0	5191.2	5234.1	5235.5	5218.4	5175.4	5142.5	5116.8
12.5°	5075.3	5091.0	5129.7	5205.5	5301.3	5340.0	5312.8	5241.2	5176.9	5131.1
15°	5013.8	5031.0	5089.6	5204.1	5345.7	5435.8	5432.9	5338.5	5235.5	5164.0
17.5°	4918.0	4935.1	5019.5	5179.7	5380.0	5528.8	5568.8	5471.6	5327.1	5231.2
20°	4744.9	4760.6	4877.9	5102.5	5391.4	5627.5	5731.9	5646.1	5465.8	5335.7
22.5°	4520.3	4544.6	4681.9	4969.5	5364.3	5730.5	5917.9	5859.2	5627.5	5447.2
25°	4280.0	4305.7	4465.9	4806.4	5294.2	5804.9	6138.2	6101.0	5810.6	5586.0
27.5°	4072.6	4099.7	4274.2	4644.7	5185.5	5833.5	6355.6	6374.2	6032.3	5739.1
30°	3909.5	3935.2	4121.2	4514.6	5045.3	5804.9	6545.8	6674.6	6258.3	5872.1
32.5°	3730.7	3763.6	3959.5	4355.8	4879.3	5736.2	6711.8	6999.3	6520.1	6015.1
35°	3504.7	3534.7	3740.7	4138.4	4661.9	5626.0	6850.5	7359.8	6894.9	6232.6
37.5°	3230.0	3258.6	3463.2	3866.6	4445.9	5471.6	6956.4	7766.0	7341.2	6545.8
40°	2953.9	2981.1	3172.8	3563.3	4187.0	5274.1	6993.6	8163.7	7853.3	6976.4
42.5°	2700.7	2725.0	2901.0	3264.3	3896.6	5022.4	6944.9	8509.9	8312.5	7276.8
45°	2467.6	2489.0	2644.9	2984.0	3594.8	4716.3	6799.0	8881.8	8858.9	7491.4
47.5°	2201.5	2223.0	2384.6	2712.2	3292.9	4357.2	6551.6	9248.0	9618.5	7977.7
50°	1876.8	1895.4	2061.3	2398.9	2979.7	3975.3	6208.2	9535.5	10576.9	8714.4
52.5°	1492.0	1512.0	1673.7	2011.2	2607.8	3564.7	5756.2	9722.9	11684.1	9790.1
55°	1110.0	1124.4	1264.5	1567.8	2147.1	3097.0	5189.8	9775.8	12940.0	11260.7
57.5°	805.4	813.9	904.1	1130.1	1627.9	2511.9	4501.7	9638.5	14434.9	13146.0
60°	652.3	655.2	682.3	782.5	1131.5	1851.0	3670.6	9166.5	16057.0	15576.4
62.5°	592.2	592.2	599.4	626.5	765.3	1221.6	2665.0	8188.0	17796.5	18647.6
65°	550.7	550.7	553.6	566.5	603.7	778.2	1682.2	6594.5	19262.7	22245.3
67.5°	513.5	515.0	513.5	517.8	539.3	575.0	975.6	4554.6	20052.4	25973.1
70°	474.9	477.8	470.6	470.6	487.8	489.2	610.8	2497.6	19397.2	29097.2
72.5°	429.1	433.4	422.0	419.1	432.0	426.3	459.2	1198.7	16653.6	30029.9
75°	389.1	394.8	369.1	361.9	361.9	357.6	373.4	615.1	10808.6	24496.8
77.5°	353.3	364.8	323.3	300.4	294.7	281.8	304.7	376.2	4727.7	11501.0
80°	291.8	307.6	266.1	238.9	228.9	214.6	240.3	263.2	1406.2	2670.7
82.5°	217.4	224.6	188.8	170.2	161.6	151.6	180.2	183.1	457.8	945.5
85°	138.8	141.6	115.9	100.1	95.8	91.6	114.4	100.1	174.5	695.2
87.5°	48.6	55.8	44.3	40.1	42.9	35.8	52.9	30.0	48.6	490.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

5029.5
5032.4
5065.3
5099.6
5112.5
5123.9
5152.6
5215.5
5311.3
5414.3
5540.2
5690.4
5802.0
5926.4
6133.9
6414.2
6836.2
7096.6
7248.2
7697.4
8362.5
9356.7
10718.5
12463.7
14716.7
17496.1
20789.0
24401.0
28683.8
31117.1
26202.0
11262.1
2557.7
1068.6
1009.9
608.0
0.0

OF REPORT)