

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: P941543

Luminaire Tested: **GALN-SB5A-850-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941543
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-SB5A-850-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21442 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

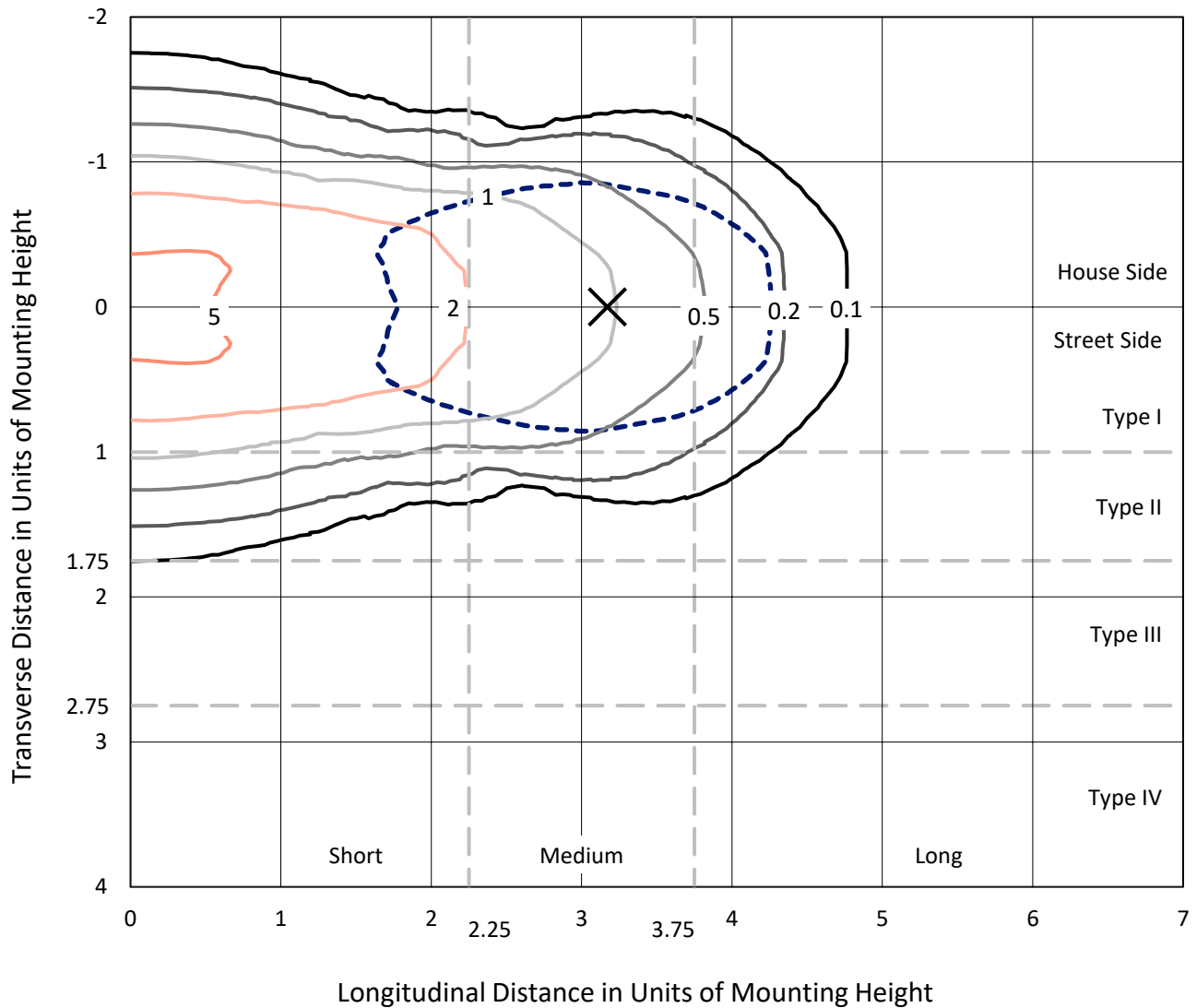
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

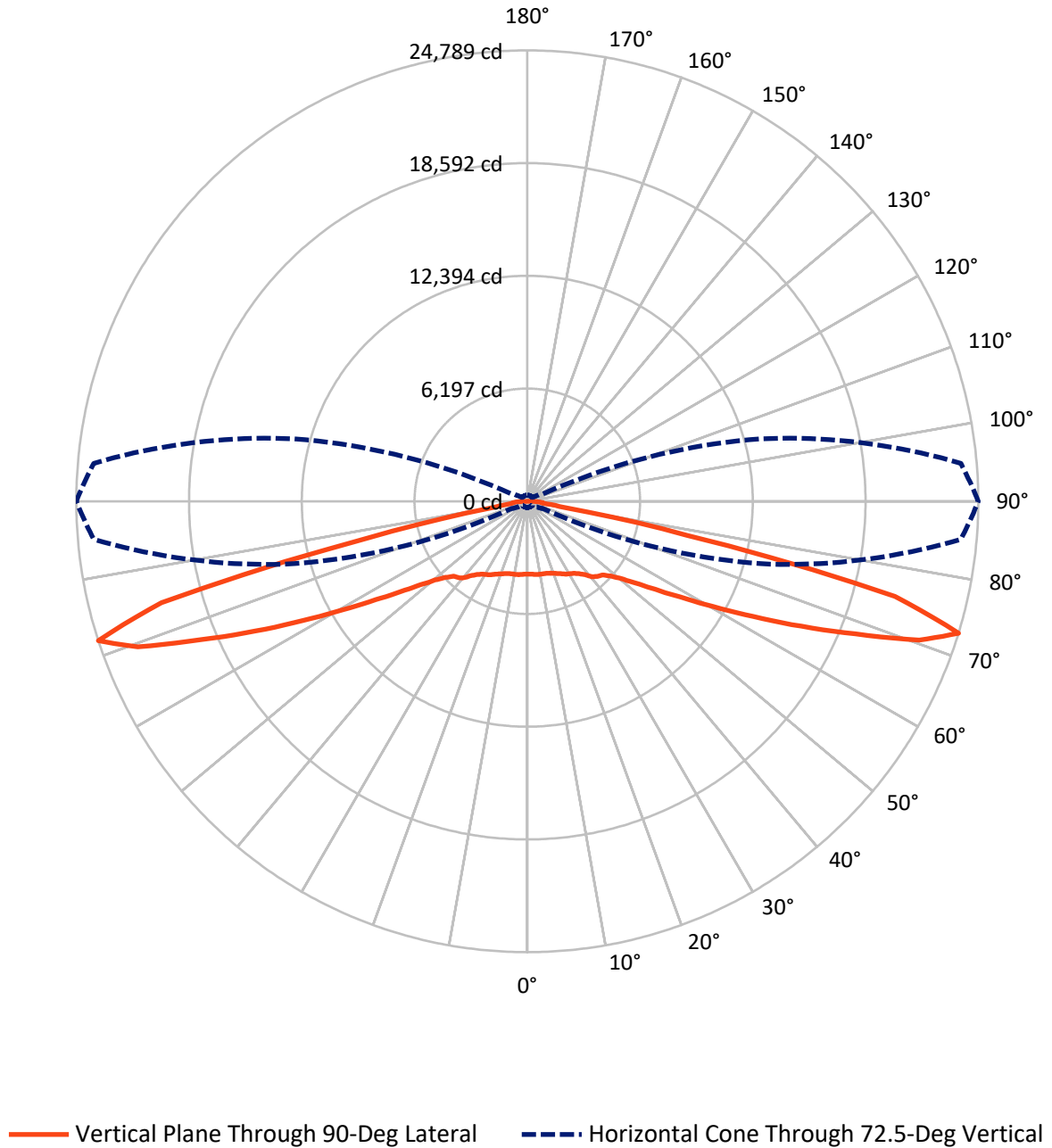
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10721.0	0.0	10721.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10721.0	0.0	10721.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21442.0	0.0	21442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.5	1.8
10°-20°	1187.9	5.5
20°-30°	1980.7	9.2
30°-40°	2724.0	12.7
40°-50°	3326.8	15.5
50°-60°	3847.8	17.9
60°-70°	4587.8	21.4
70°-80°	3202.0	14.9
80°-90°	196.7	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°	21442.0	100.0
0°-180°	21442.0	100.0

Coefficient of Utilization



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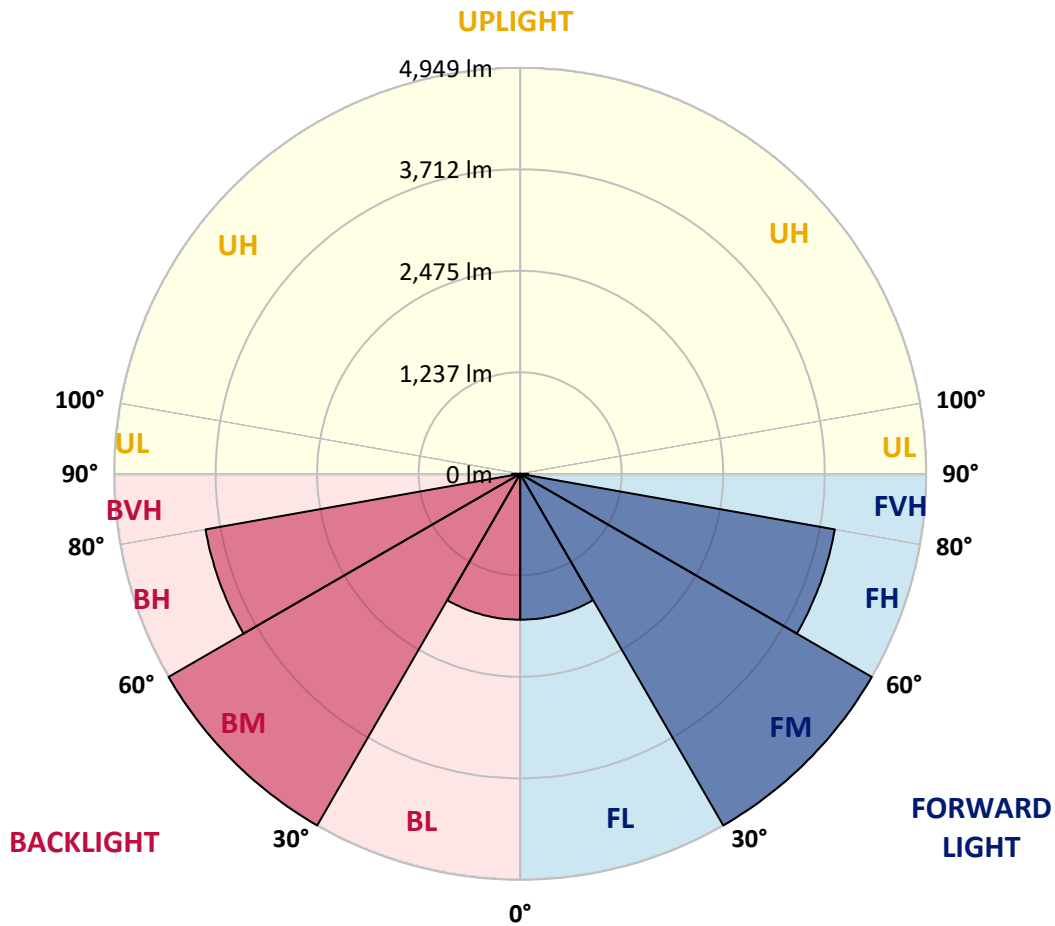
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1778.5	8.3			
FM (30°-60°)	4949.3	23.1			
FH (60°-80°)	3894.9	18.2			G2/5000
FVH (80°-90°)	98.3	0.5			G1/100
BL (0°-30°)	1778.5	8.3	B3/2500		
BM (30°-60°)	4949.3	23.1	B3/5000		
BH (60°-80°)	3894.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	98.3	0.5			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7
2.5°	4010.1	4014.6	4014.6	4011.2	4019.2	4012.4	4012.4	4008.9	4012.4	4008.9
5°	4030.6	4036.3	4038.6	4037.4	4047.7	4042.0	4042.0	4037.4	4038.6	4035.2
7.5°	4069.3	4077.3	4081.9	4087.6	4102.4	4095.5	4091.0	4077.3	4071.6	4062.5
10°	4081.9	4091.0	4105.8	4135.4	4169.6	4170.8	4157.1	4122.9	4096.7	4076.2
12.5°	4043.1	4055.7	4086.4	4146.8	4223.2	4253.9	4232.3	4175.3	4124.0	4087.6
15°	3994.1	4007.8	4054.5	4145.7	4258.5	4330.3	4328.0	4252.8	4170.8	4113.8
17.5°	3917.8	3931.5	3998.7	4126.3	4285.9	4404.4	4436.3	4358.8	4243.7	4167.3
20°	3779.9	3792.4	3885.9	4064.8	4295.0	4483.0	4566.2	4497.8	4354.2	4250.5
22.5°	3601.0	3620.4	3729.8	3958.8	4273.3	4565.0	4714.3	4667.6	4483.0	4339.4
25°	3409.5	3430.1	3557.7	3828.9	4217.5	4624.3	4889.8	4860.2	4628.9	4449.9
27.5°	3244.3	3266.0	3405.0	3700.1	4130.9	4647.1	5063.0	5077.8	4805.5	4571.9
30°	3114.4	3134.9	3283.0	3596.4	4019.2	4624.3	5214.6	5317.1	4985.5	4677.9
32.5°	2972.0	2998.2	3154.3	3469.9	3887.0	4569.6	5346.8	5575.8	5194.1	4791.8
35°	2791.9	2815.8	2979.9	3296.7	3713.8	4481.9	5457.3	5863.0	5492.6	4965.0
37.5°	2573.1	2595.9	2758.9	3080.2	3541.7	4358.8	5541.6	6186.6	5848.2	5214.6
40°	2353.2	2374.8	2527.5	2838.6	3335.5	4201.5	5571.3	6503.4	6256.1	5557.6
42.5°	2151.5	2170.8	2311.0	2600.5	3104.1	4001.0	5532.5	6779.2	6621.9	5796.9
45°	1965.7	1982.8	2107.0	2377.1	2863.7	3757.1	5416.3	7075.5	7057.2	5967.8
47.5°	1753.8	1770.9	1899.6	2160.6	2623.2	3471.1	5219.1	7367.2	7662.3	6355.3
50°	1495.1	1509.9	1642.1	1911.0	2373.7	3166.8	4945.7	7596.3	8425.8	6942.1
52.5°	1188.6	1204.5	1333.3	1602.2	2077.4	2839.8	4585.6	7745.5	9307.9	7799.1
55°	884.3	895.7	1007.4	1248.9	1710.5	2467.1	4134.3	7787.7	10308.4	8970.6
57.5°	641.6	648.4	720.2	900.2	1296.8	2001.1	3586.2	7678.3	11499.2	10472.5
60°	519.6	521.9	543.6	623.3	901.4	1474.6	2924.1	7302.2	12791.5	12408.6
62.5°	471.8	471.8	477.5	499.1	609.7	973.2	2123.0	6522.8	14177.2	14855.2
65°	438.7	438.7	441.0	451.3	480.9	619.9	1340.1	5253.3	15345.2	17721.2
67.5°	409.1	410.2	409.1	412.5	429.6	458.1	777.2	3628.3	15974.2	20690.8
70°	378.3	380.6	374.9	374.9	388.6	389.7	486.6	1989.7	15452.3	23179.6
72.5°	341.9	345.3	336.2	333.9	344.1	339.6	365.8	954.9	13266.7	23922.6
75°	310.0	314.5	294.0	288.3	288.3	284.9	297.4	490.0	8610.5	19514.8
77.5°	281.5	290.6	257.5	239.3	234.7	224.5	242.7	299.7	3766.2	9162.0
80°	232.5	245.0	212.0	190.3	182.3	170.9	191.4	209.7	1120.2	2127.5
82.5°	173.2	178.9	150.4	135.6	128.8	120.8	143.6	145.9	364.7	753.2
85°	110.5	112.8	92.3	79.8	76.3	72.9	91.2	79.8	139.0	553.8
87.5°	38.7	44.4	35.3	31.9	34.2	28.5	42.2	23.9	38.7	390.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

4006.7
4008.9
4035.2
4062.5
4072.8
4081.9
4104.7
4154.8
4231.2
4313.2
4413.5
4533.1
4622.0
4721.2
4886.4
5109.8
5445.9
5653.3
5774.1
6131.9
6661.8
7453.8
8538.7
9928.9
11723.7
13937.9
16561.1
19438.5
22850.3
24788.7
20873.2
8971.7
2037.5
851.2
804.5
484.3
0.0

OF REPORT)