

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: P941683

Luminaire Tested: **GALN-SB5B-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941683
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-830-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25285 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

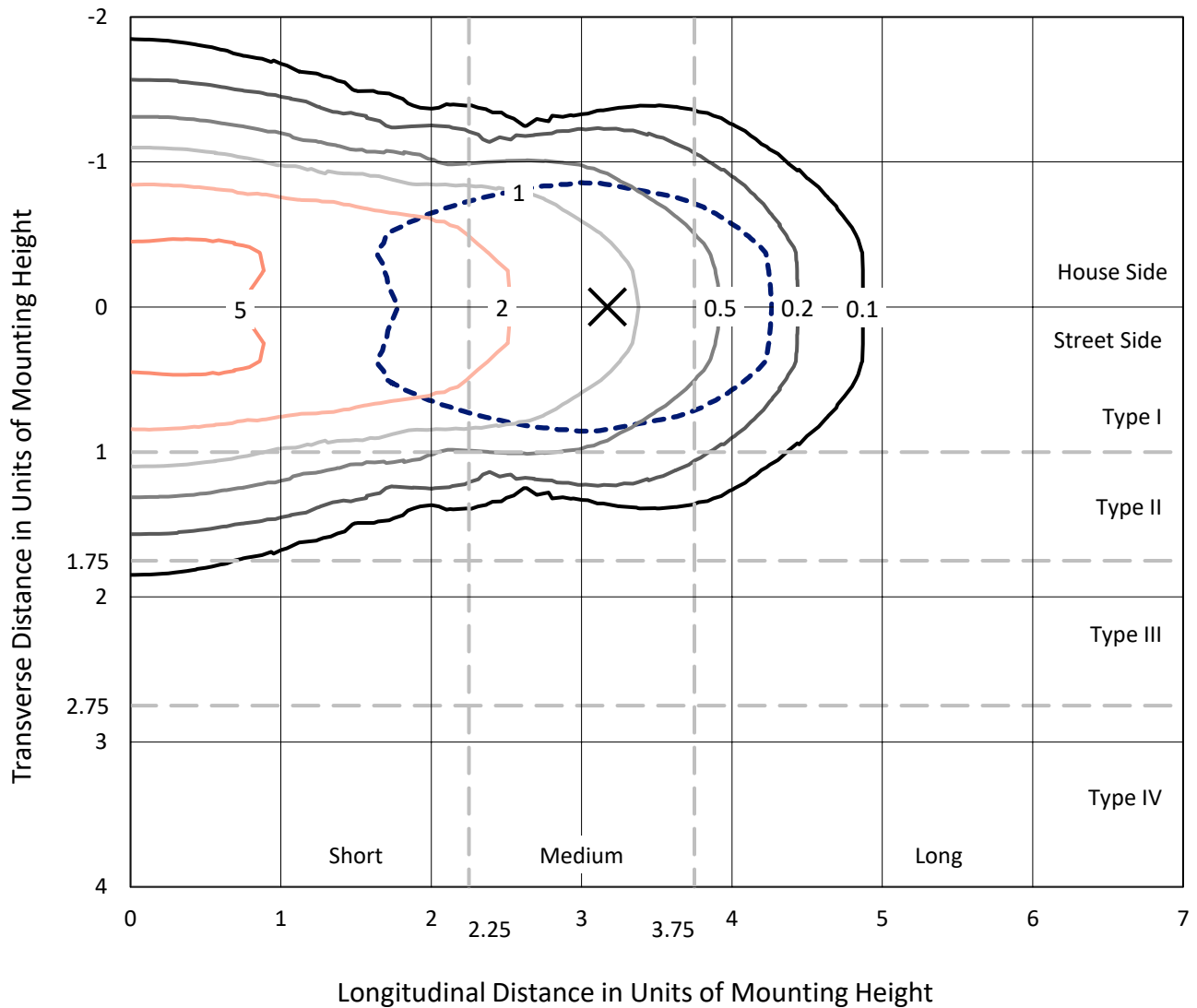
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

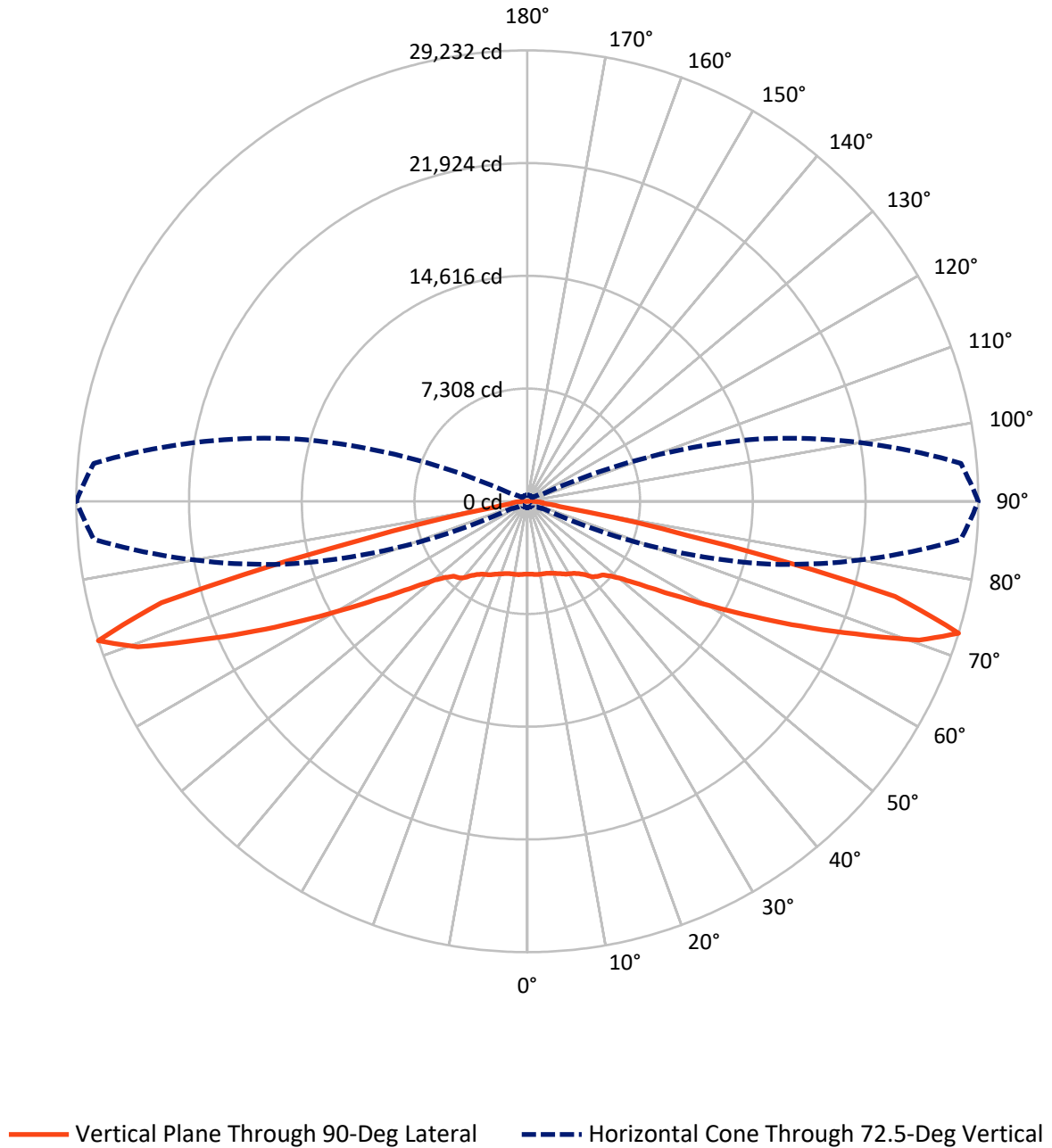
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	12642.5	0.0	12642.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12642.5	0.0	12642.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25285.0	0.0	25285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.1	1.8
10°-20°	1400.8	5.5
20°-30°	2335.6	9.2
30°-40°	3212.2	12.7
40°-50°	3923.0	15.5
50°-60°	4537.4	17.9
60°-70°	5410.1	21.4
70°-80°	3775.9	14.9
80°-90°	231.9	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°	25285.0	100.0
0°-180°	25285.0	100.0

Coefficient of Utilization



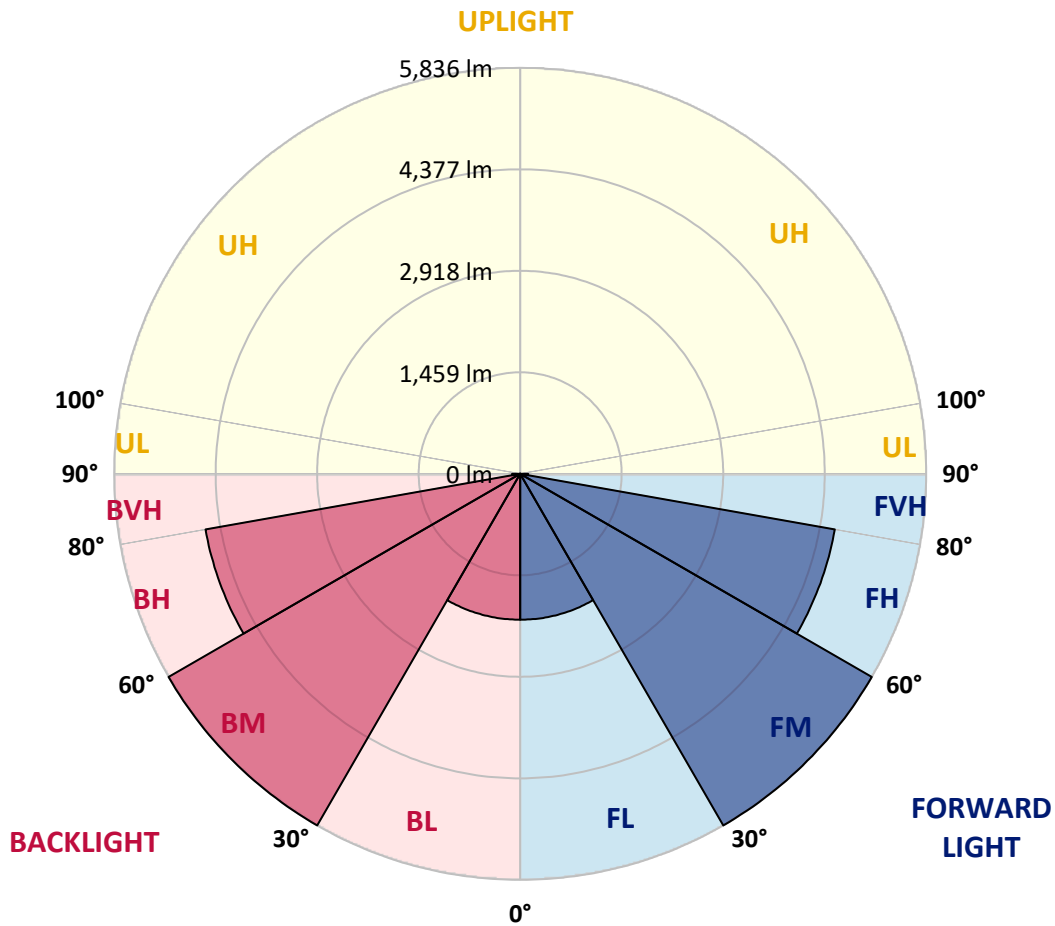
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2097.3	8.3			
FM (30°-60°)	5836.3	23.1			
FH (60°-80°)	4593.0	18.2			G2/5000
FVH (80°-90°)	116.0	0.5			G2/225
BL (0°-30°)	2097.3	8.3	B3/2500		
BM (30°-60°)	5836.3	23.1	B4/8500		
BH (60°-80°)	4593.0	18.2	B4/5000		G4/5000
BVH (80°-90°)	116.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4724.8	4724.8	4724.8	4724.8	4724.8	4724.8	4724.8	4724.8	4724.8	4724.8
2.5°	4728.8	4734.2	4734.2	4730.1	4739.6	4731.5	4731.5	4727.5	4731.5	4727.5
5°	4753.0	4759.7	4762.4	4761.1	4773.1	4766.4	4766.4	4761.1	4762.4	4758.4
7.5°	4798.7	4808.1	4813.5	4820.2	4837.6	4829.6	4824.2	4808.1	4801.4	4790.6
10°	4813.5	4824.2	4841.7	4876.6	4916.9	4918.3	4902.1	4861.8	4830.9	4806.7
12.5°	4767.8	4782.6	4818.8	4890.1	4980.1	5016.4	4990.8	4923.7	4863.2	4820.2
15°	4710.0	4726.1	4781.2	4888.7	5021.7	5106.4	5103.7	5015.0	4918.3	4851.1
17.5°	4620.0	4636.1	4715.4	4865.9	5054.0	5193.8	5231.4	5140.0	5004.3	4914.2
20°	4457.4	4472.1	4582.3	4793.3	5064.7	5286.5	5384.6	5303.9	5134.6	5012.3
22.5°	4246.4	4269.2	4398.2	4668.3	5039.2	5383.2	5559.3	5504.2	5286.5	5117.2
25°	4020.6	4044.8	4195.3	4515.1	4973.4	5453.1	5766.2	5731.3	5458.5	5247.5
27.5°	3825.8	3851.3	4015.2	4363.3	4871.2	5480.0	5970.5	5987.9	5666.8	5391.3
30°	3672.6	3696.8	3871.5	4241.0	4739.6	5453.1	6149.2	6270.1	5879.1	5516.3
32.5°	3504.6	3535.5	3719.6	4091.8	4583.7	5388.6	6305.1	6575.2	6125.0	5650.6
35°	3292.3	3320.5	3514.0	3887.6	4379.4	5285.1	6435.4	6913.8	6477.1	5854.9
37.5°	3034.3	3061.2	3253.3	3632.3	4176.5	5140.0	6534.9	7295.4	6896.3	6149.2
40°	2774.9	2800.5	2980.5	3347.4	3933.3	4954.6	6569.8	7669.0	7377.4	6553.7
42.5°	2537.1	2559.9	2725.2	3066.5	3660.5	4718.1	6524.1	7994.2	7808.8	6835.9
45°	2318.0	2338.2	2484.7	2803.1	3376.9	4430.5	6387.0	8343.6	8322.1	7037.4
47.5°	2068.1	2088.3	2240.1	2547.8	3093.4	4093.2	6154.6	8687.6	9035.7	7494.3
50°	1763.1	1780.5	1936.4	2253.5	2799.1	3734.4	5832.1	8957.7	9936.0	8186.4
52.5°	1401.6	1420.4	1572.2	1889.4	2449.7	3348.7	5407.4	9133.7	10976.1	9196.9
55°	1042.8	1056.2	1187.9	1472.8	2017.0	2909.3	4875.3	9183.5	12155.9	10578.3
57.5°	756.6	764.6	849.3	1061.6	1529.2	2359.7	4228.9	9054.5	13560.2	12349.4
60°	612.8	615.5	641.0	735.1	1062.9	1738.9	3448.2	8611.0	15084.1	14632.5
62.5°	556.3	556.3	563.0	588.6	718.9	1147.6	2503.5	7691.9	16718.1	17517.7
65°	517.4	517.4	520.0	532.1	567.1	731.0	1580.3	6194.9	18095.5	20897.3
67.5°	482.4	483.8	482.4	486.5	506.6	540.2	916.5	4278.6	18837.3	24399.2
70°	446.1	448.8	442.1	442.1	458.2	459.6	573.8	2346.3	18221.8	27334.1
72.5°	403.1	407.2	396.4	393.7	405.8	400.4	431.4	1126.1	15644.4	28210.2
75°	365.5	370.9	346.7	340.0	340.0	335.9	350.7	577.8	10153.7	23012.4
77.5°	331.9	342.7	303.7	282.2	276.8	264.7	286.2	353.4	4441.2	10804.1
80°	274.1	288.9	249.9	224.4	215.0	201.6	225.8	247.3	1320.9	2508.9
82.5°	204.3	211.0	177.4	159.9	151.8	142.4	169.3	172.0	430.0	888.2
85°	130.3	133.0	108.8	94.1	90.0	86.0	107.5	94.1	163.9	653.1
87.5°	45.7	52.4	41.7	37.6	40.3	33.6	49.7	28.2	45.7	460.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

4724.8
4727.5
4758.4
4790.6
4802.7
4813.5
4840.3
4899.5
4989.5
5086.2
5204.5
5345.6
5450.4
5567.3
5762.2
6025.6
6422.0
6666.5
6809.0
7230.9
7855.8
8789.7
10069.0
11708.5
13824.9
16435.9
19529.3
22922.4
26945.7
29231.5
24614.2
10579.7
2402.7
1003.8
948.7
571.1
0.0

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