

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: P939983

Luminaire Tested: **GALN-SB2D-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939983
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-SB2D-830-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18090 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

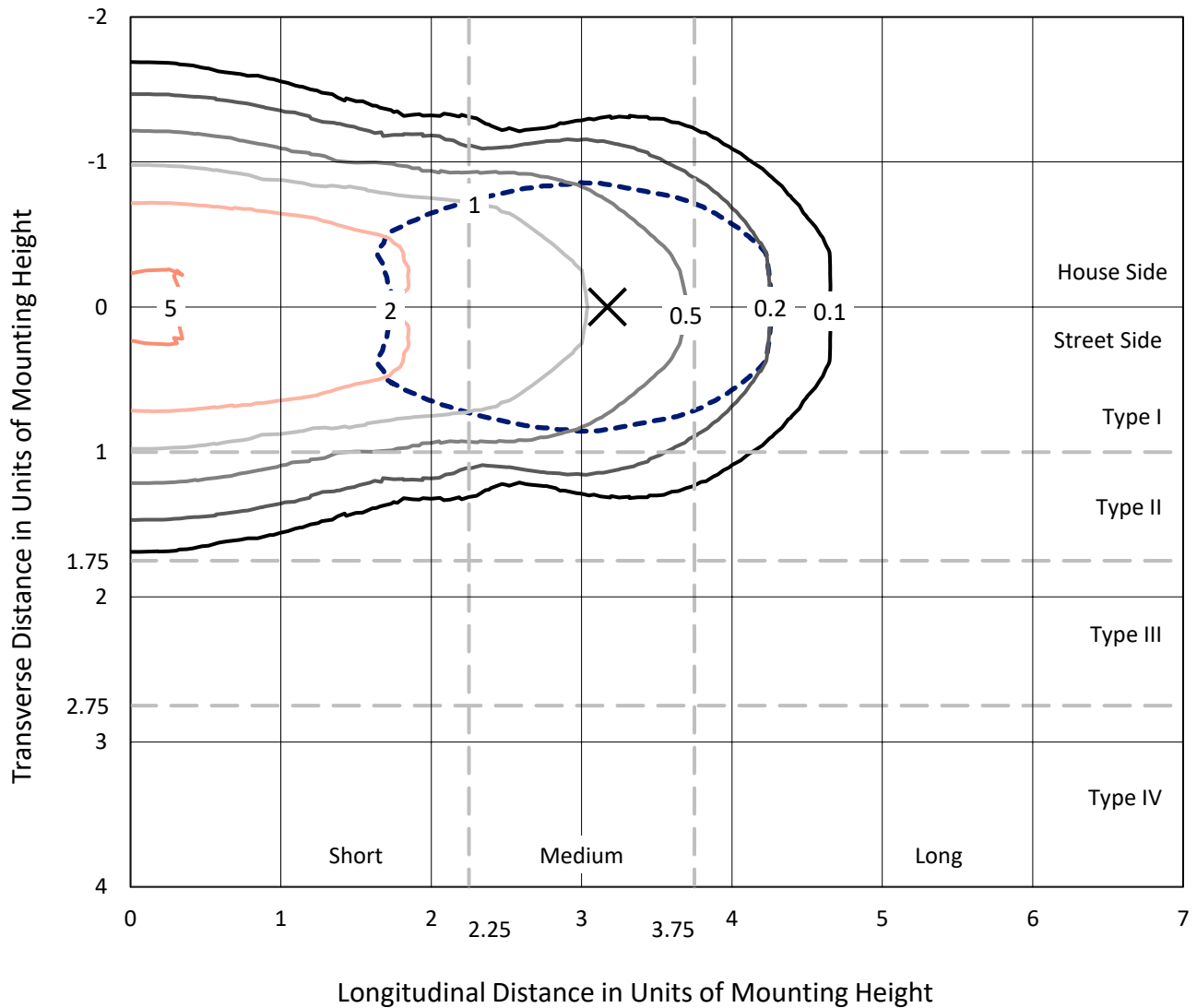
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939983
 CATALOG NUMBER: GALN-SB2D-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

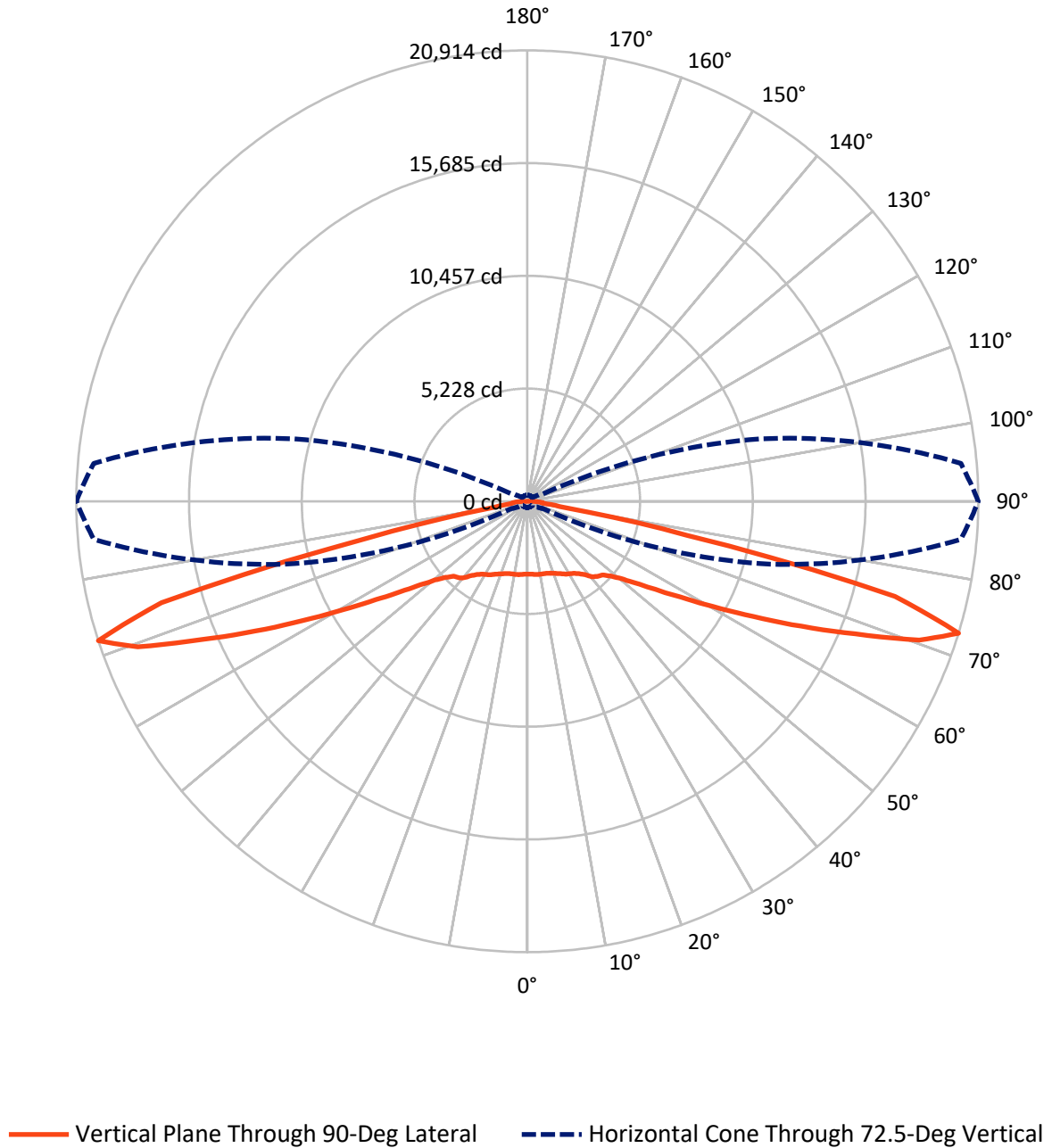
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type I - Short - N/A

REPORT NUMBER: P939983
CATALOG NUMBER: GALN-SB2D-830-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P939983

CATALOG NUMBER: GALN-SB2D-830-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9045.0	0.0	9045.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9045.0	0.0	9045.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18090.0	0.0	18090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.8	1.8
10°-20°	1002.2	5.5
20°-30°	1671.0	9.2
30°-40°	2298.2	12.7
40°-50°	2806.7	15.5
50°-60°	3246.2	17.9
60°-70°	3870.6	21.4
70°-80°	2701.4	14.9
80°-90°	165.9	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°	18090.0	100.0
0°-180°	18090.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939983

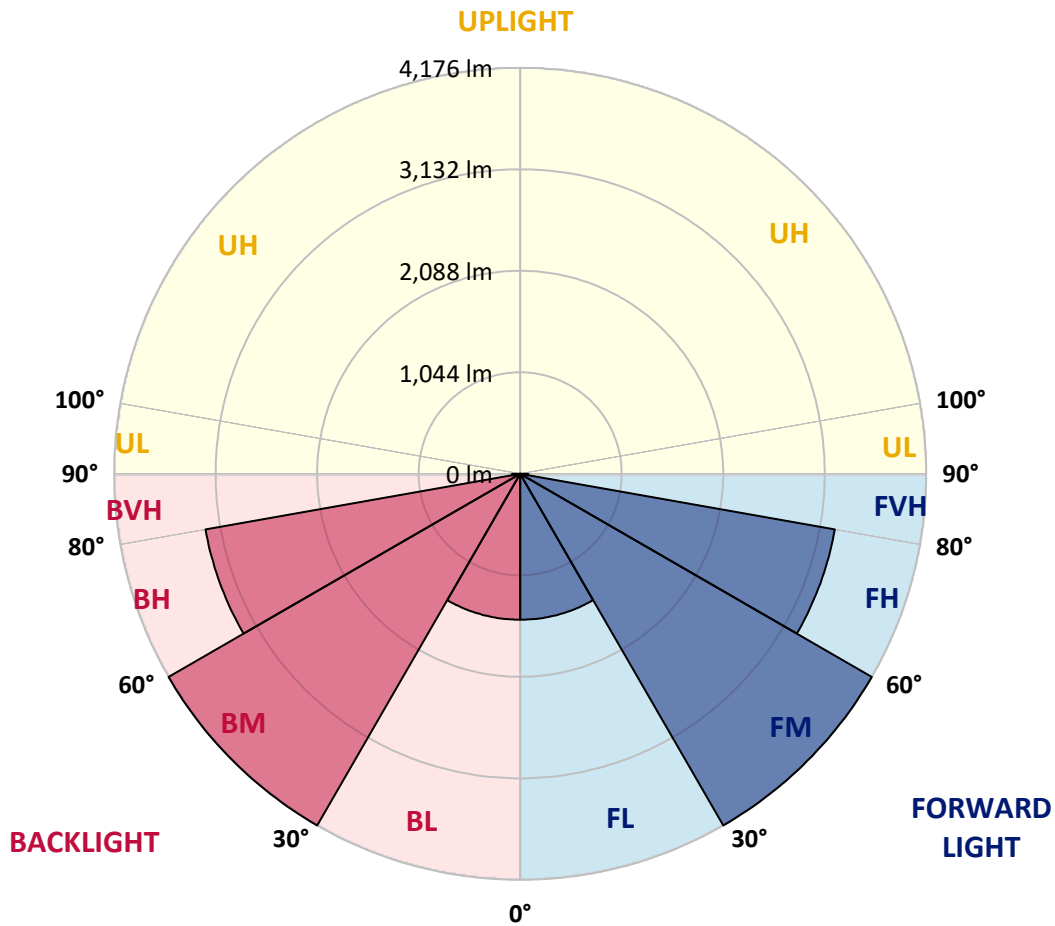
CATALOG NUMBER: GALN-SB2D-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1500.5	8.3			
FM (30°-60°)	4175.6	23.1			
FH (60°-80°)	3286.0	18.2			G2/5000
FVH (80°-90°)	83.0	0.5			G1/100
BL (0°-30°)	1500.5	8.3	B3/2500		
BM (30°-60°)	4175.6	23.1	B3/5000		
BH (60°-80°)	3286.0	18.2	B4/5000		G4/5000
BVH (80°-90°)	83.0	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



REPORT NUMBER: P939983

CATALOG NUMBER: GALN-SB2D-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3380.3	3380.3	3380.3	3380.3	3380.3	3380.3	3380.3	3380.3	3380.3	3380.3
2.5°	3383.2	3387.0	3387.0	3384.2	3390.9	3385.1	3385.1	3382.2	3385.1	3382.2
5°	3400.5	3405.3	3407.2	3406.3	3414.9	3410.1	3410.1	3406.3	3407.2	3404.3
7.5°	3433.2	3439.9	3443.8	3448.6	3461.1	3455.3	3451.5	3439.9	3435.1	3427.4
10°	3443.8	3451.5	3463.9	3488.9	3517.8	3518.8	3507.2	3478.4	3456.3	3439.0
12.5°	3411.1	3421.6	3447.6	3498.6	3563.0	3588.9	3570.7	3522.6	3479.3	3448.6
15°	3369.7	3381.3	3420.7	3497.6	3592.8	3653.3	3651.4	3588.0	3518.8	3470.7
17.5°	3305.3	3316.9	3373.6	3481.3	3615.9	3715.8	3742.8	3677.4	3580.3	3515.9
20°	3189.0	3199.6	3278.4	3429.3	3623.5	3782.2	3852.4	3794.7	3673.5	3586.0
22.5°	3038.0	3054.4	3146.7	3339.9	3605.3	3851.4	3977.3	3937.9	3782.2	3661.0
25°	2876.5	2893.8	3001.5	3230.3	3558.2	3901.4	4125.4	4100.4	3905.2	3754.3
27.5°	2737.1	2755.4	2872.7	3121.7	3485.1	3920.6	4271.5	4284.0	4054.3	3857.2
30°	2627.5	2644.8	2769.8	3034.2	3390.9	3901.4	4399.4	4485.9	4206.2	3946.6
32.5°	2507.3	2529.5	2661.2	2927.5	3279.4	3855.2	4510.9	4704.2	4382.1	4042.7
35°	2355.4	2375.6	2514.1	2781.4	3133.2	3781.2	4604.2	4946.4	4634.0	4188.9
37.5°	2170.9	2190.1	2327.6	2598.7	2988.1	3677.4	4675.3	5219.5	4933.9	4399.4
40°	1985.3	2003.6	2132.4	2394.9	2814.0	3544.7	4700.3	5486.8	5278.1	4688.8
42.5°	1815.1	1831.5	1949.7	2193.9	2618.9	3375.5	4667.6	5719.4	5586.7	4890.7
45°	1658.4	1672.8	1777.6	2005.5	2416.0	3169.8	4569.6	5969.4	5954.0	5034.9
47.5°	1479.6	1494.0	1602.7	1822.8	2213.2	2928.4	4403.2	6215.5	6464.5	5361.8
50°	1261.4	1273.9	1385.4	1612.3	2002.6	2671.8	4172.5	6408.7	7108.6	5856.9
52.5°	1002.7	1016.2	1124.8	1351.7	1752.6	2395.8	3868.7	6534.7	7852.8	6579.9
55°	746.1	755.7	849.9	1053.7	1443.1	2081.4	3488.0	6570.3	8696.9	7568.2
57.5°	541.3	547.0	607.6	759.5	1094.1	1688.2	3025.5	6478.0	9701.6	8835.3
60°	438.4	440.3	458.6	525.9	760.5	1244.1	2467.0	6160.7	10791.8	10468.8
62.5°	398.0	398.0	402.8	421.1	514.4	821.0	1791.1	5503.1	11960.9	12532.9
65°	370.1	370.1	372.1	380.7	405.7	523.0	1130.6	4432.1	12946.3	14950.8
67.5°	345.1	346.1	345.1	348.0	362.5	386.5	655.7	3061.1	13477.0	17456.3
70°	319.2	321.1	316.3	316.3	327.8	328.8	410.5	1678.6	13036.7	19556.0
72.5°	288.4	291.3	283.6	281.7	290.3	286.5	308.6	805.7	11192.7	20182.8
75°	261.5	265.3	248.0	243.2	243.2	240.4	250.9	413.4	7264.4	16464.1
77.5°	237.5	245.2	217.3	201.9	198.0	189.4	204.8	252.9	3177.5	7729.7
80°	196.1	206.7	178.8	160.6	153.8	144.2	161.5	176.9	945.1	1794.9
82.5°	146.1	150.9	126.9	114.4	108.6	101.9	121.1	123.1	307.7	635.5
85°	93.3	95.2	77.9	67.3	64.4	61.5	76.9	67.3	117.3	467.2
87.5°	32.7	37.5	29.8	26.9	28.8	24.0	35.6	20.2	32.7	329.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

3380.3
3382.2
3404.3
3427.4
3436.1
3443.8
3463.0
3505.3
3569.7
3638.9
3723.5
3824.5
3899.5
3983.1
4122.5
4310.9
4594.6
4769.5
4871.4
5173.3
5620.4
6288.6
7203.8
8376.7
9891.0
11759.0
13972.1
16399.7
19278.1
20913.5
17610.1
7569.2
1719.0
718.2
678.8
408.6
0.0

OF REPORT)