

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: P939923

Luminaire Tested: **GALN-SB2D-730-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939923
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-730-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20132 lumens
Efficiency: N/A
Efficacy: 136.4 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

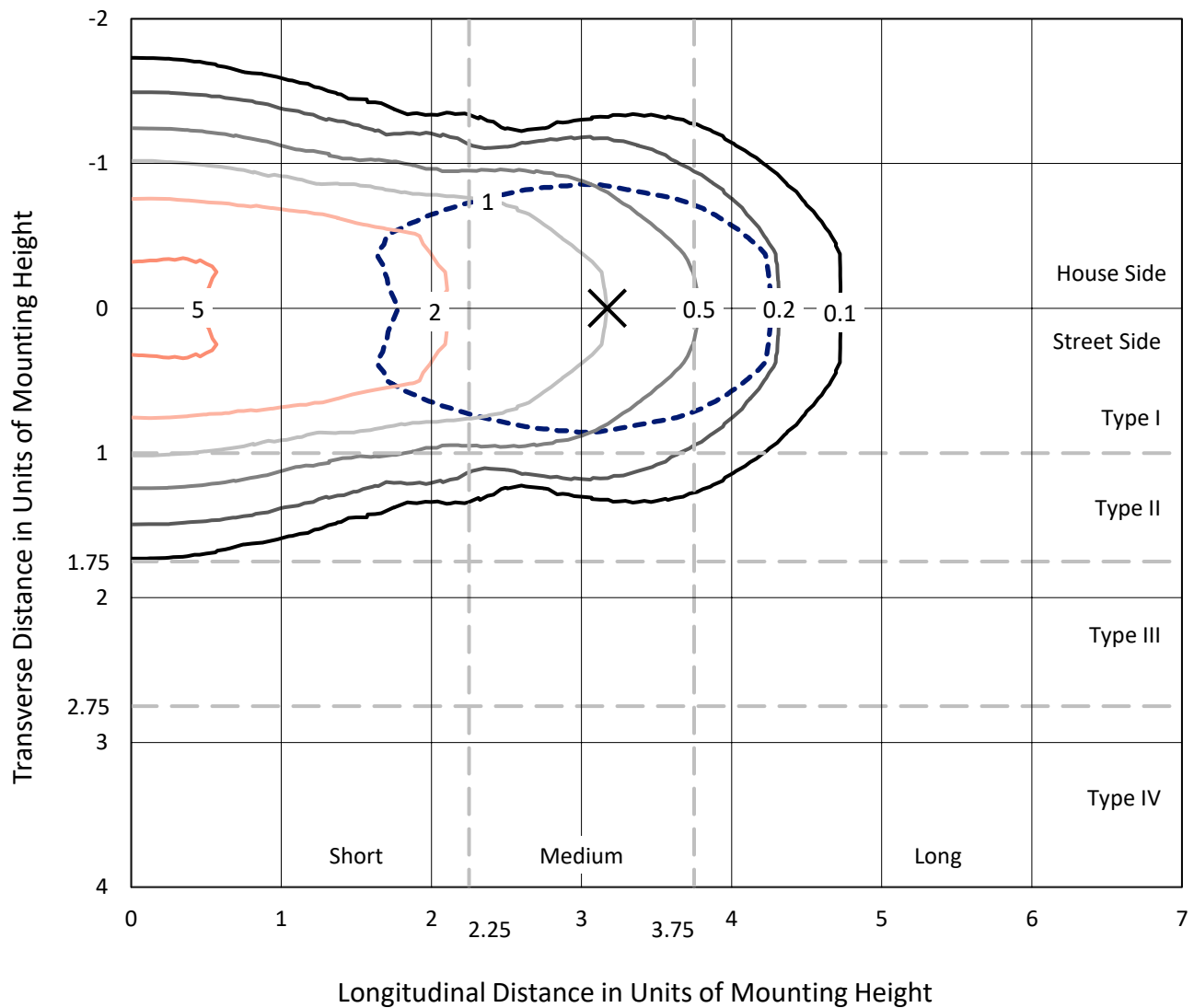


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

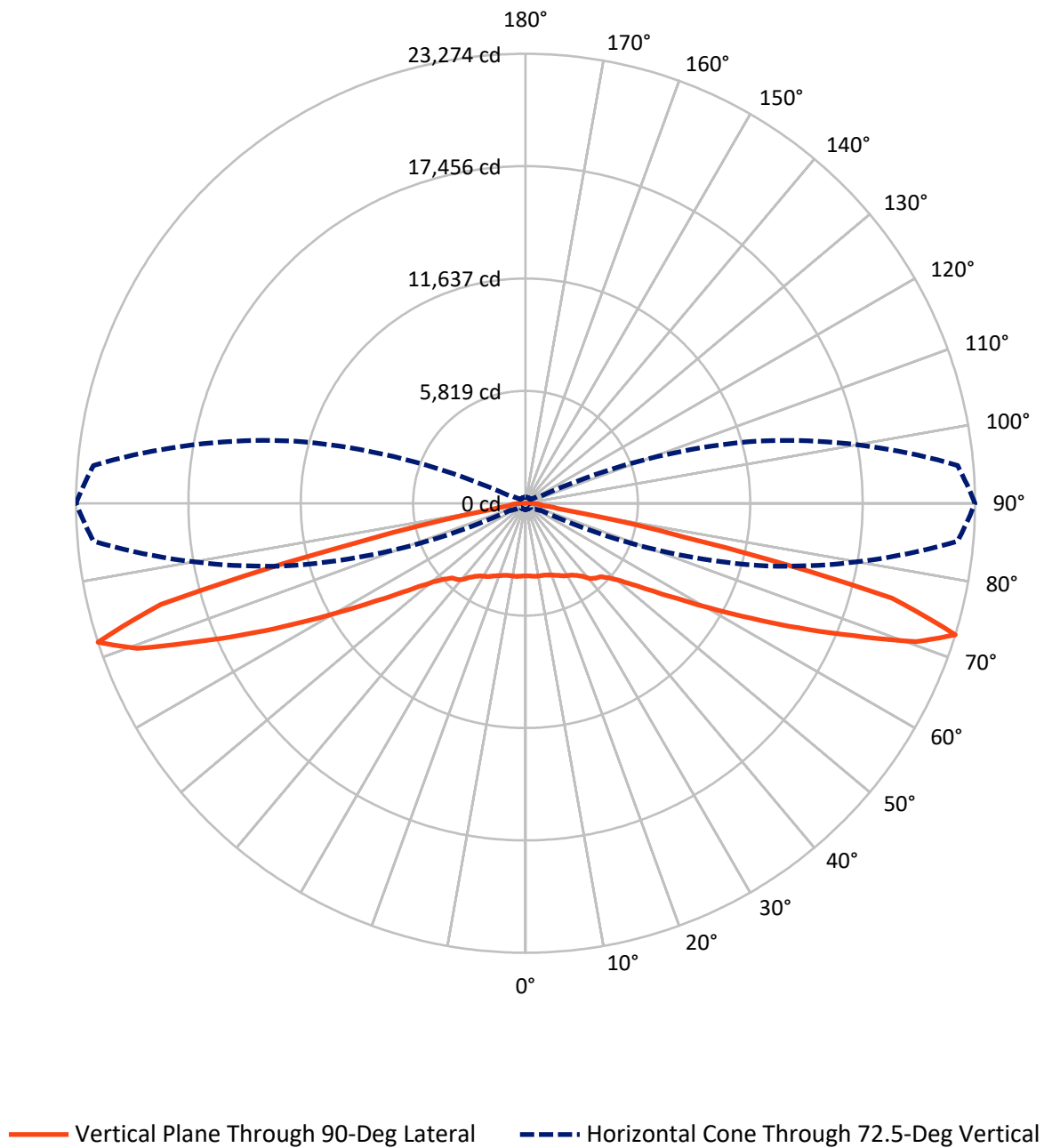


Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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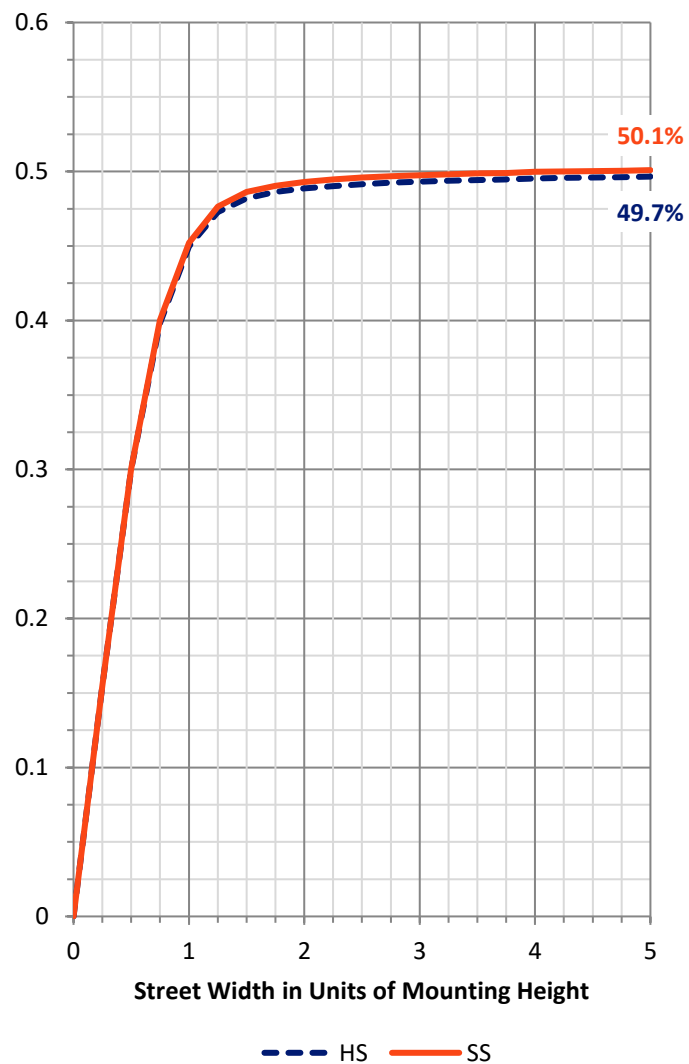
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10066.0	0.0	10066.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10066.0	0.0	10066.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20132.0	0.0	20132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.8	1.8
10°-20°	1115.3	5.5
20°-30°	1859.6	9.2
30°-40°	2557.6	12.7
40°-50°	3123.5	15.5
50°-60°	3612.7	17.9
60°-70°	4307.5	21.4
70°-80°	3006.4	14.9
80°-90°	184.7	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°	20132.0	100.0
0°-180°	20132.0	100.0

Coefficient of Utilization



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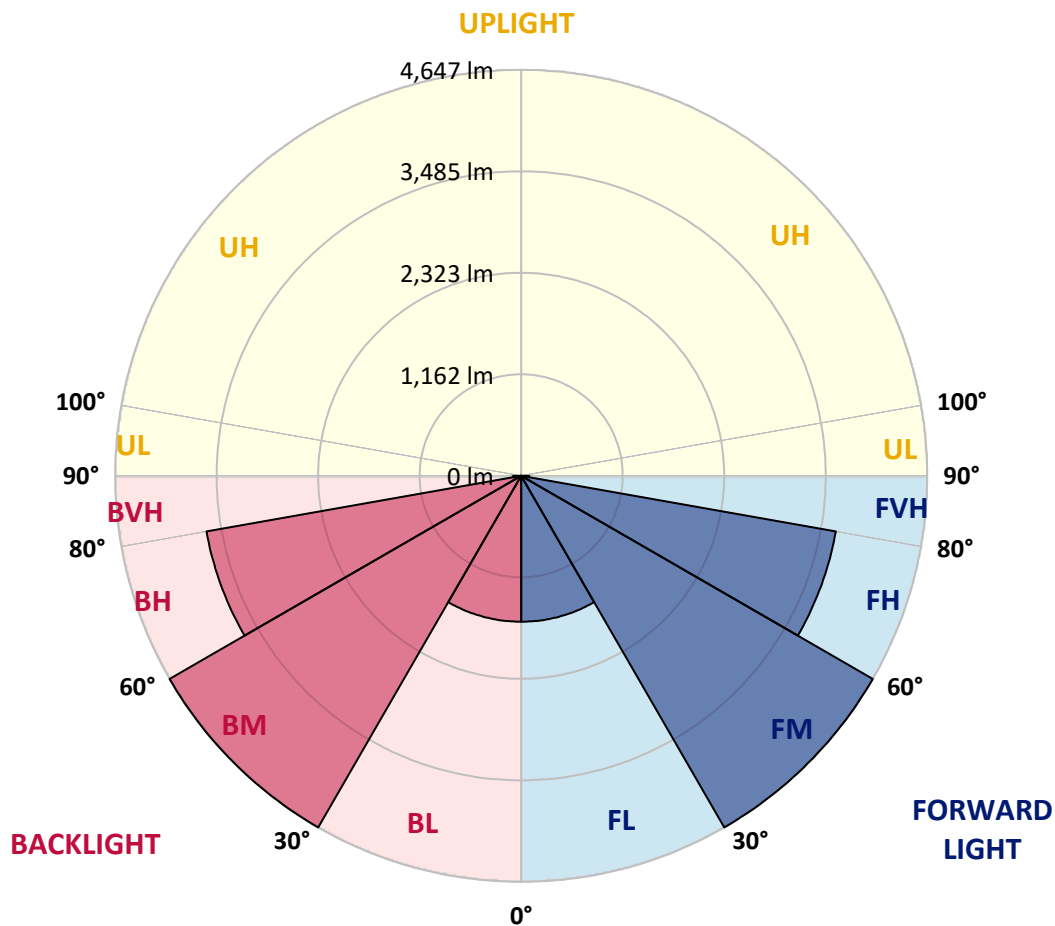
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1669.8	8.3			
FM	(30°-60°)	4646.9	23.1			
FH	(60°-80°)	3656.9	18.2			G2/5000
FVH	(80°-90°)	92.3	0.5			G1/100
BL	(0°-30°)	1669.8	8.3	B3/2500		
BM	(30°-60°)	4646.9	23.1	B3/5000		
BH	(60°-80°)	3656.9	18.2	B4/5000		G4/5000
BVH	(80°-90°)	92.3	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°	90°
0°	3761.9	3761.9	3761.9	3761.9	3761.9	3761.9	3761.9	3761.9	3761.9	3761.9	3761.9
2.5°	3765.1	3769.4	3769.4	3766.2	3773.6	3767.2	3767.2	3764.0	3767.2	3764.0	3764.0
5°	3784.3	3789.7	3791.8	3790.8	3800.4	3795.0	3795.0	3790.8	3791.8	3788.6	3788.6
7.5°	3820.7	3828.2	3832.5	3837.8	3851.8	3845.3	3841.1	3828.2	3822.9	3814.3	3814.3
10°	3832.5	3841.1	3855.0	3882.8	3914.9	3915.9	3903.1	3871.0	3846.4	3827.1	3823.9
12.5°	3796.1	3807.9	3836.8	3893.5	3965.2	3994.1	3973.7	3920.2	3872.1	3837.8	3832.5
15°	3750.1	3762.9	3806.8	3892.4	3998.3	4065.7	4063.6	3993.0	3915.9	3862.5	3853.9
17.5°	3678.4	3691.3	3754.4	3874.2	4024.0	4135.3	4165.2	4092.5	3984.4	3912.7	3901.0
20°	3549.0	3560.7	3648.5	3816.4	4032.6	4209.1	4287.2	4223.0	4088.2	3990.8	3972.7
22.5°	3381.0	3399.2	3501.9	3716.9	4012.2	4286.1	4426.3	4382.4	4209.1	4074.3	4049.7
25°	3201.2	3220.5	3340.3	3595.0	3959.8	4341.8	4591.1	4563.3	4346.1	4178.1	4143.8
27.5°	3046.1	3066.4	3197.0	3474.1	3878.5	4363.2	4753.7	4767.6	4511.9	4292.6	4256.2
30°	2924.1	2943.4	3082.5	3376.7	3773.6	4341.8	4896.0	4992.3	4680.9	4392.1	4339.6
32.5°	2790.4	2815.0	2961.6	3257.9	3649.5	4290.4	5020.1	5235.2	4876.7	4499.1	4432.7
35°	2621.3	2643.8	2797.9	3095.3	3486.9	4208.0	5123.9	5504.8	5157.1	4661.7	4587.9
37.5°	2415.9	2437.3	2590.3	2892.0	3325.3	4092.5	5203.1	5808.7	5490.9	4896.0	4797.6
40°	2209.4	2229.7	2373.1	2665.2	3131.7	3944.8	5230.9	6106.1	5873.9	5218.1	5113.2
42.5°	2020.0	2038.2	2169.8	2441.6	2914.5	3756.5	5194.5	6365.0	6217.4	5442.7	5307.9
45°	1845.6	1861.7	1978.3	2231.9	2688.7	3527.6	5085.4	6643.2	6626.1	5603.2	5421.3
47.5°	1646.6	1662.7	1783.6	2028.6	2463.0	3259.0	4900.3	6917.1	7194.2	5967.0	5757.3
50°	1403.7	1417.7	1541.8	1794.3	2228.7	2973.3	4643.5	7132.2	7911.1	6518.0	6254.8
52.5°	1115.9	1130.9	1251.8	1504.3	1950.5	2666.3	4305.4	7272.3	8739.2	7322.6	6998.4
55°	830.3	841.0	945.8	1172.6	1606.0	2316.4	3881.7	7311.9	9678.6	8422.5	8017.0
57.5°	602.4	608.8	676.2	845.2	1217.6	1878.8	3367.1	7209.2	10796.7	9832.7	9322.3
60°	487.9	490.0	510.4	585.3	846.3	1384.5	2745.4	6856.1	12010.0	11650.5	11007.4
62.5°	443.0	443.0	448.3	468.6	572.4	913.7	1993.3	6124.3	13311.0	13947.6	13086.3
65°	411.9	411.9	414.1	423.7	451.5	582.0	1258.2	4932.4	14407.7	16638.5	15549.3
67.5°	384.1	385.2	384.1	387.3	403.4	430.1	729.7	3406.7	14998.3	19426.7	18250.9
70°	355.2	357.4	352.0	352.0	364.8	365.9	456.9	1868.1	14508.3	21763.5	21454.3
72.5°	321.0	324.2	315.6	313.5	323.1	318.8	343.4	896.6	12456.1	22461.1	23274.2
75°	291.0	295.3	276.0	270.7	270.7	267.5	279.3	460.1	8084.4	18322.6	19597.9
77.5°	264.3	272.8	241.8	224.7	220.4	210.8	227.9	281.4	3536.1	8602.2	8423.6
80°	218.3	230.0	199.0	178.7	171.2	160.5	179.7	196.9	1051.7	1997.6	1913.0
82.5°	162.6	168.0	141.2	127.3	120.9	113.4	134.8	137.0	342.4	707.2	799.2
85°	103.8	105.9	86.7	74.9	71.7	68.5	85.6	74.9	130.5	520.0	755.4
87.5°	36.4	41.7	33.2	30.0	32.1	26.7	39.6	22.5	36.4	367.0	454.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)