

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: P942023

Luminaire Tested: **GALN-SB5D-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942023
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-SB5D-830-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 45693 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

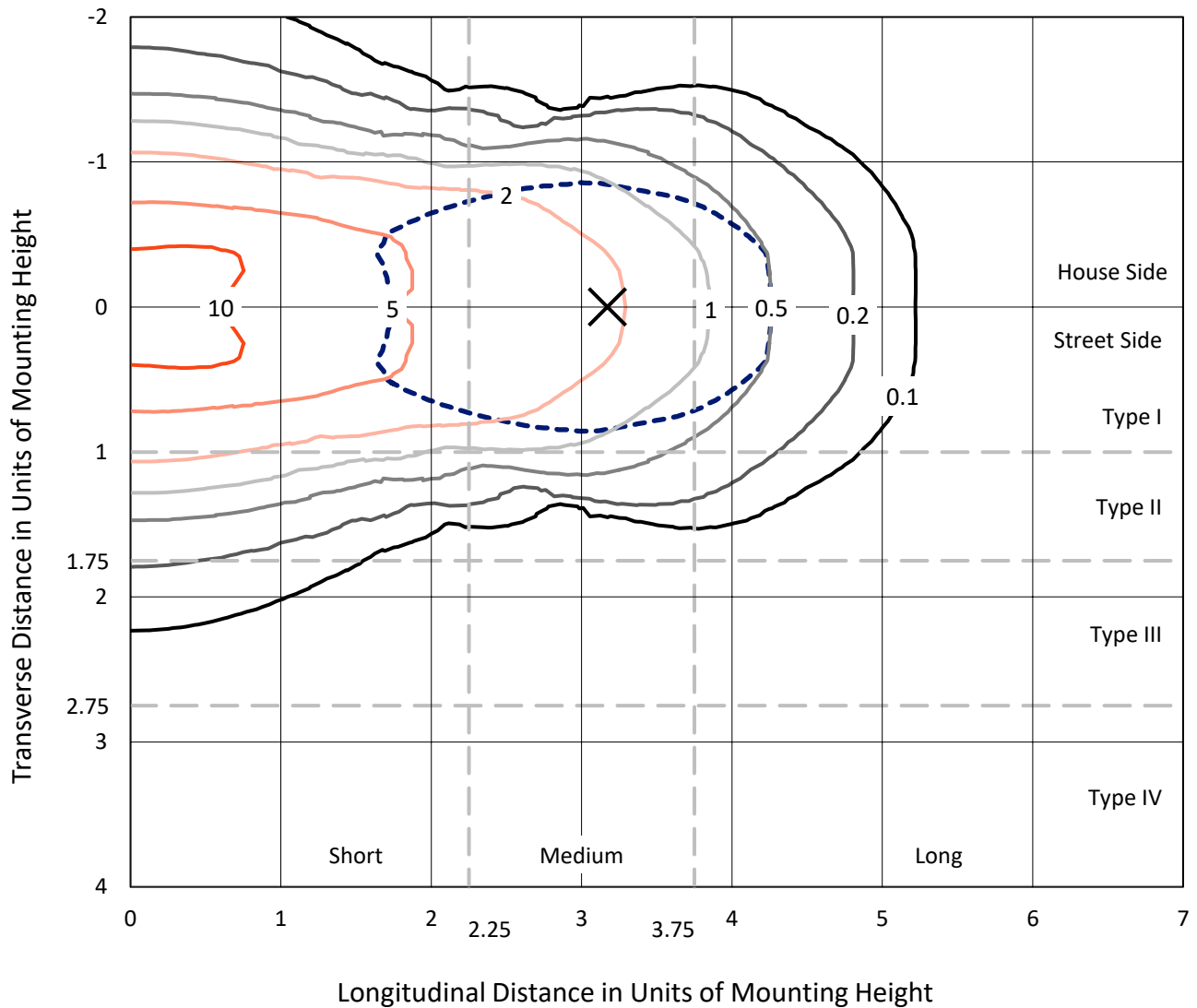
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

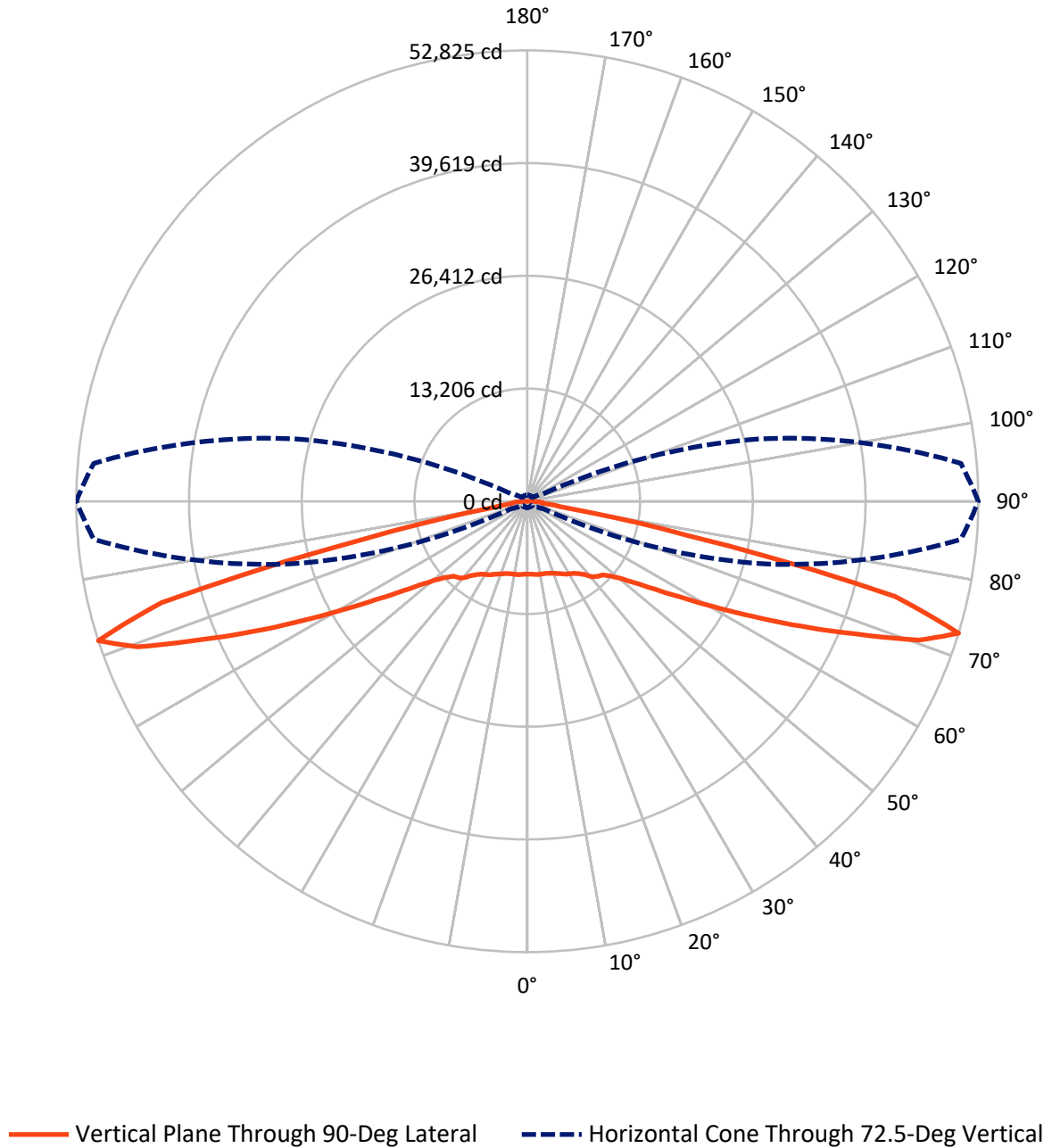
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	22846.5	0.0	22846.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22846.5	0.0	22846.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45693.0	0.0	45693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.9	1.8
10°-20°	2531.3	5.5
20°-30°	4220.8	9.2
30°-40°	5804.9	12.7
40°-50°	7089.3	15.5
50°-60°	8199.6	17.9
60°-70°	9776.6	21.4
70°-80°	6823.5	14.9
80°-90°	419.1	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°	45693.0	100.0
0°-180°	45693.0	100.0

Coefficient of Utilization



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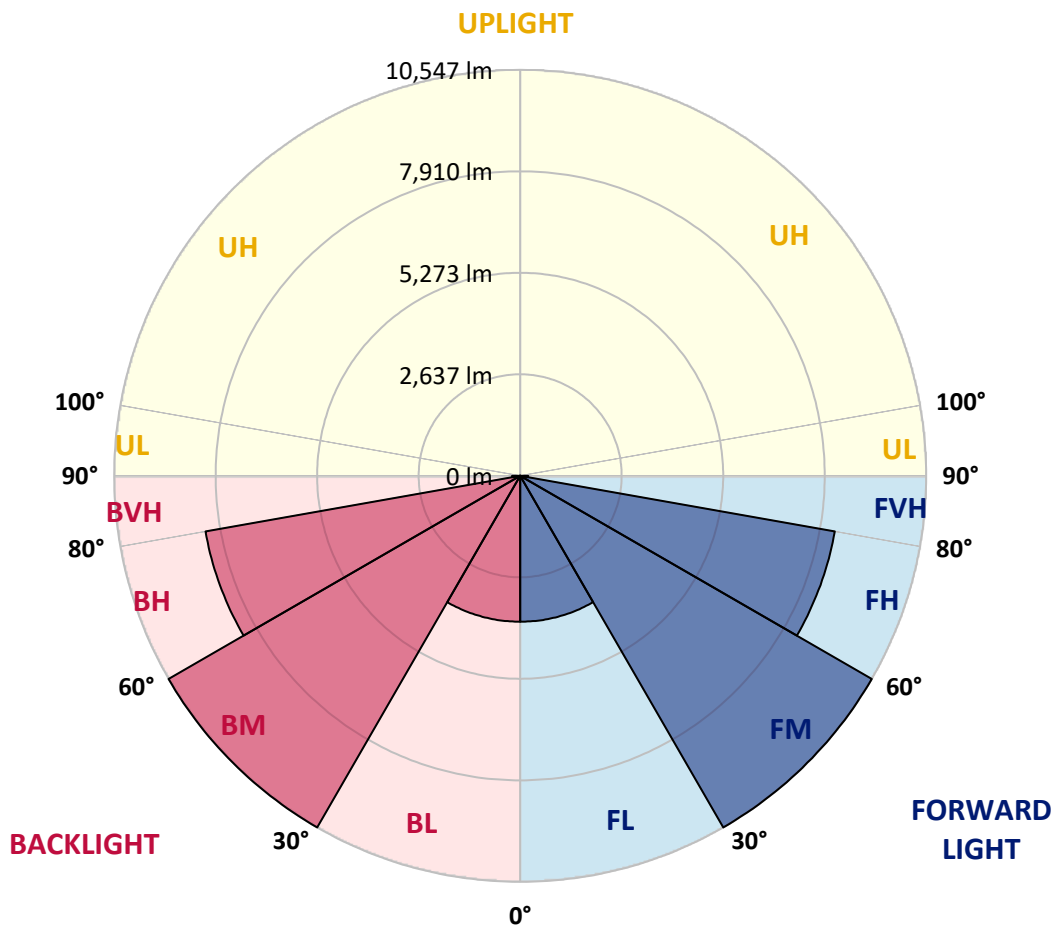
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3790.0	8.3			
FM (30°-60°)	10546.9	23.1			
FH (60°-80°)	8300.1	18.2			G4/12000
FVH (80°-90°)	209.6	0.5			G2/225
BL (0°-30°)	3790.0	8.3	B4/5000		
BM (30°-60°)	10546.9	23.1	B5		
BH (60°-80°)	8300.1	18.2	B5		G5
BVH (80°-90°)	209.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8538.2	8538.2	8538.2	8538.2	8538.2	8538.2	8538.2	8538.2	8538.2	8538.2
2.5°	8545.5	8555.2	8555.2	8547.9	8564.9	8550.4	8550.4	8543.1	8550.4	8543.1
5°	8589.2	8601.4	8606.2	8603.8	8625.6	8613.5	8613.5	8603.8	8606.2	8598.9
7.5°	8671.8	8688.8	8698.5	8710.6	8742.2	8727.6	8717.9	8688.8	8676.6	8657.2
10°	8698.5	8717.9	8749.5	8812.6	8885.5	8887.9	8858.8	8785.9	8730.1	8686.4
12.5°	8615.9	8642.6	8708.2	8836.9	8999.6	9065.2	9019.0	8897.6	8788.3	8710.6
15°	8511.5	8540.6	8640.2	8834.5	9074.9	9227.9	9223.0	9062.8	8887.9	8766.5
17.5°	8348.8	8377.9	8521.2	8793.2	9133.2	9385.7	9453.7	9288.6	9043.3	8880.6
20°	8055.0	8081.7	8280.8	8662.1	9152.6	9553.3	9730.6	9584.9	9278.9	9057.9
22.5°	7673.7	7715.0	7948.1	8436.2	9106.5	9728.1	10046.2	9946.7	9553.3	9247.3
25°	7265.7	7309.5	7581.4	8159.4	8987.5	9854.4	10420.2	10357.1	9864.1	9482.9
27.5°	6913.6	6959.8	7256.0	7885.0	8802.9	9903.0	10789.3	10820.9	10240.5	9742.7
30°	6636.8	6680.5	6996.2	7664.0	8564.9	9854.4	11112.3	11330.9	10624.2	9968.5
32.5°	6333.2	6389.1	6721.8	7394.4	8283.2	9737.8	11394.0	11882.1	11068.6	10211.4
35°	5949.6	6000.6	6350.2	7025.3	7914.1	9550.9	11629.6	12494.1	11704.8	10580.5
37.5°	5483.3	5531.9	5879.1	6563.9	7547.4	9288.6	11809.3	13183.7	12462.5	11112.3
40°	5014.6	5060.8	5386.2	6049.1	7107.9	8953.5	11872.4	13858.8	13331.9	11843.3
42.5°	4584.8	4626.1	4924.8	5541.6	6614.9	8526.1	11789.8	14446.5	14111.4	12353.2
45°	4189.0	4225.4	4490.1	5065.6	6102.5	8006.4	11542.1	15077.9	15039.0	12717.5
47.5°	3737.3	3773.7	4048.1	4604.2	5590.2	7396.9	11122.0	15699.5	16328.5	13543.1
50°	3186.0	3217.6	3499.3	4072.4	5058.3	6748.5	10539.2	16187.6	17955.5	14793.8
52.5°	2532.8	2566.8	2841.2	3414.3	4427.0	6051.5	9771.8	16505.8	19835.1	16619.9
55°	1884.4	1908.7	2146.7	2661.5	3645.0	5257.5	8810.2	16595.6	21967.2	19116.3
57.5°	1367.2	1381.8	1534.7	1918.4	2763.5	4264.3	7642.1	16362.5	24504.9	22316.9
60°	1107.3	1112.2	1158.3	1328.3	1920.9	3142.3	6231.2	15561.1	27258.7	26442.7
62.5°	1005.4	1005.4	1017.5	1063.6	1299.2	2073.8	4524.1	13900.1	30211.6	31656.5
65°	934.9	934.9	939.8	961.6	1024.8	1321.0	2855.8	11194.9	32700.7	37763.9
67.5°	871.8	874.2	871.8	879.1	915.5	976.2	1656.2	7732.0	34041.2	44092.3
70°	806.2	811.1	798.9	798.9	828.1	830.5	1036.9	4240.0	32929.0	49395.9
72.5°	728.5	735.8	716.4	711.5	733.4	723.7	779.5	2035.0	28271.3	50979.2
75°	660.5	670.2	626.5	614.4	614.4	607.1	633.8	1044.2	18348.9	41586.2
77.5°	599.8	619.2	548.8	510.0	500.2	478.4	517.2	638.7	8025.8	19524.3
80°	495.4	522.1	451.7	405.5	388.5	364.3	408.0	446.8	2387.1	4533.8
82.5°	369.1	381.3	320.5	289.0	274.4	257.4	306.0	310.8	777.1	1605.2
85°	235.6	240.4	196.7	170.0	162.7	155.4	194.3	170.0	296.3	1180.2
87.5°	82.6	94.7	75.3	68.0	72.9	60.7	89.9	51.0	82.6	832.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

8538.2
8543.1
8598.9
8657.2
8679.1
8698.5
8747.1
8853.9
9016.6
9191.5
9405.2
9660.1
9849.6
10060.8
10412.9
10888.9
11605.3
12047.2
12304.7
13067.2
14196.4
15884.1
18195.9
21158.6
24983.3
29701.6
35291.8
41423.5
48694.1
52824.8
44480.8
19118.7
4342.0
1814.0
1714.4
1032.1
0.0

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