

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: P941853

Luminaire Tested: **GALN-SB5C-830-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941853  
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-SB5C-830-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33628 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

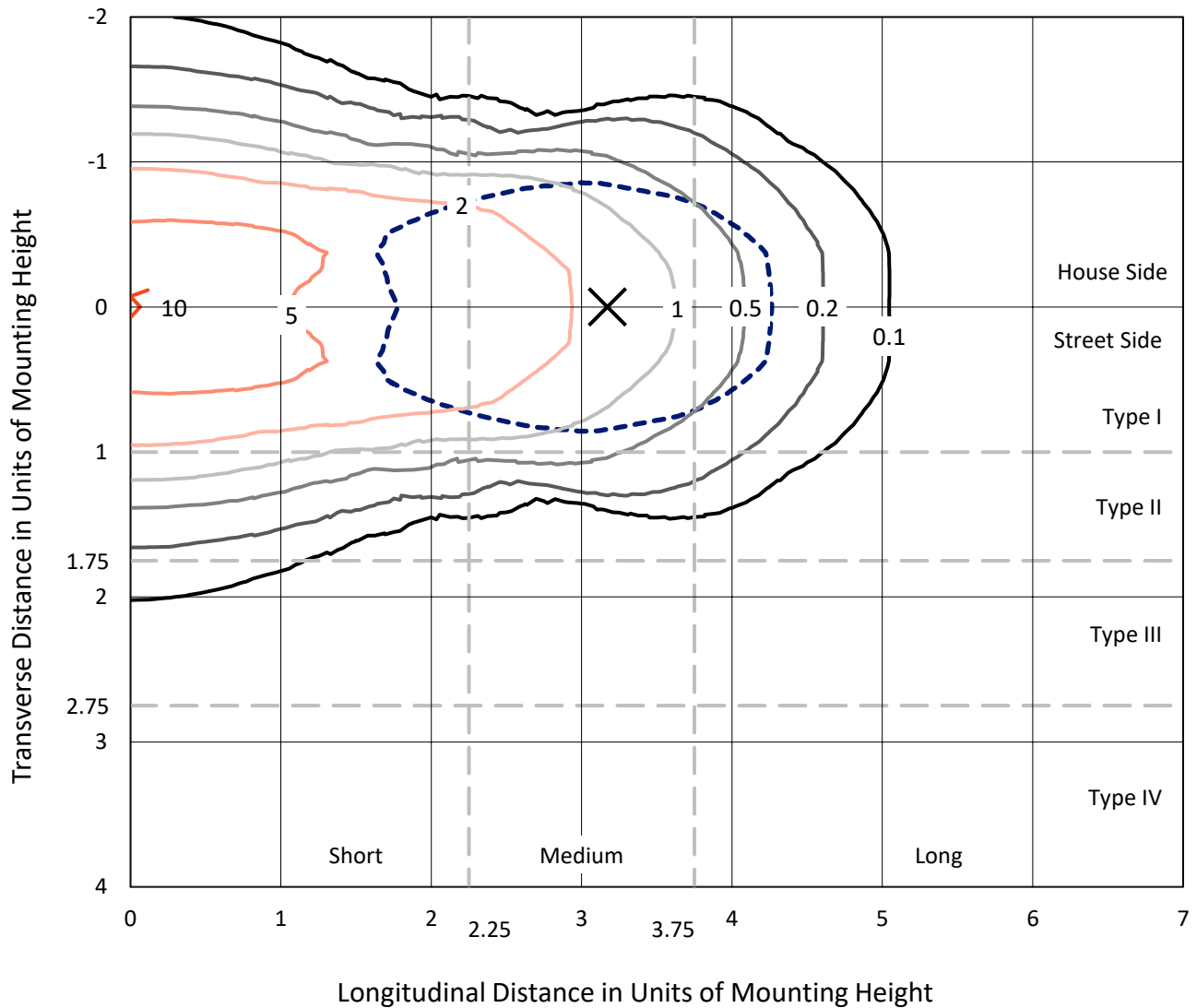
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

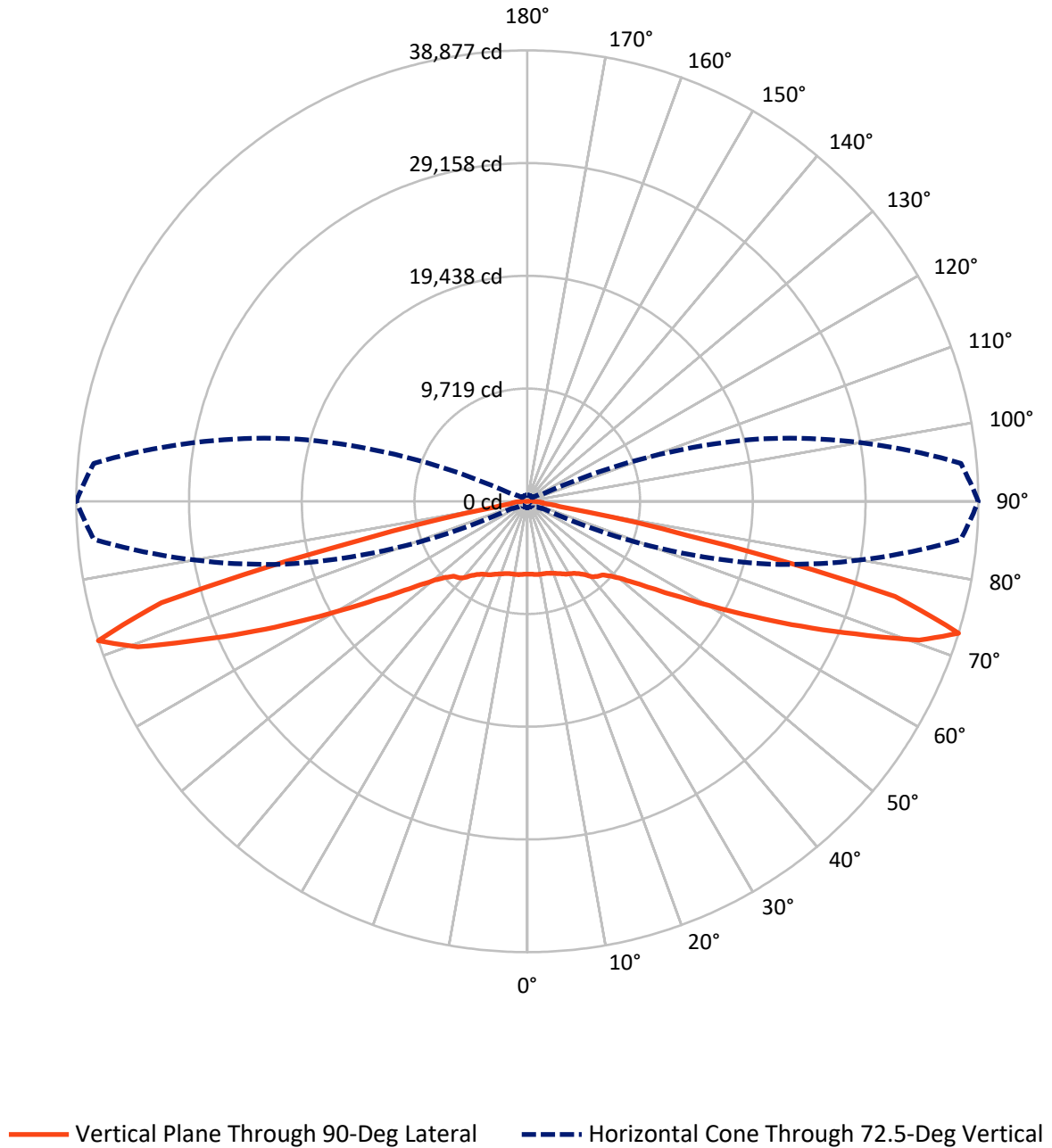
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16814.0	0.0	16814.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16814.0	0.0	16814.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33628.0	0.0	33628.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	609.3	1.8
10°-20°	1862.9	5.5
20°-30°	3106.3	9.2
30°-40°	4272.1	12.7
40°-50°	5217.4	15.5
50°-60°	6034.5	17.9
60°-70°	7195.2	21.4
70°-80°	5021.8	14.9
80°-90°	308.4	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°	33628.0	100.0
0°-180°	33628.0	100.0

**Coefficient of Utilization**



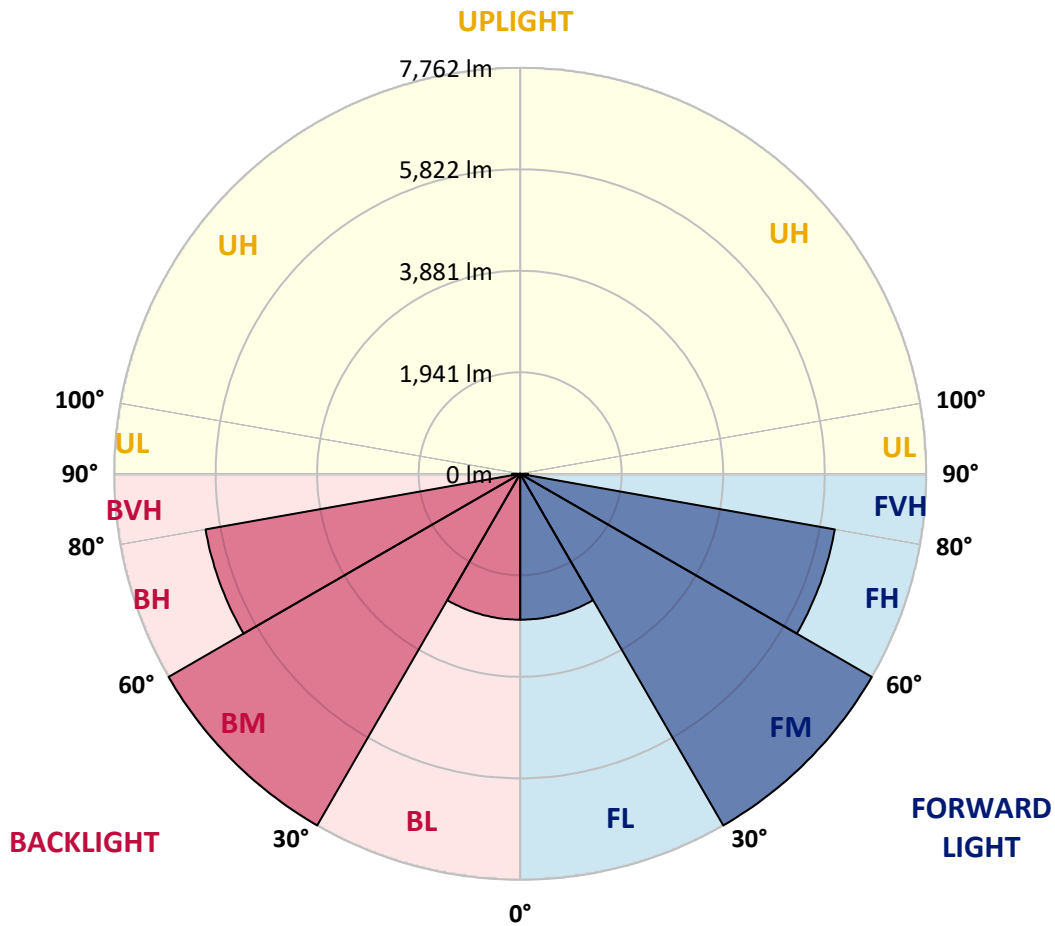
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2789.3	8.3			
FM (30°-60°)	7762.0	23.1			
FH (60°-80°)	6108.5	18.2			G3/7500
FVH (80°-90°)	154.2	0.5			G2/225
BL (0°-30°)	2789.3	8.3	B4/5000		
BM (30°-60°)	7762.0	23.1	B4/8500		
BH (60°-80°)	6108.5	18.2	B5		G5
BVH (80°-90°)	154.2	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°	6283.7	6283.7	6283.7	6283.7	6283.7	6283.7	6283.7	6283.7	6283.7	6283.7
2.5°	6289.1	6296.3	6296.3	6290.9	6303.4	6292.7	6292.7	6287.3	6292.7	6287.3
5°	6321.3	6330.2	6333.8	6332.0	6348.1	6339.1	6339.1	6332.0	6333.8	6328.4
7.5°	6382.0	6394.6	6401.7	6410.6	6433.9	6423.1	6416.0	6394.6	6385.6	6371.3
10°	6401.7	6416.0	6439.2	6485.7	6539.3	6541.1	6519.7	6466.0	6424.9	6392.8
12.5°	6340.9	6360.6	6408.8	6503.6	6623.3	6671.6	6637.6	6548.3	6467.8	6410.6
15°	6264.1	6285.5	6358.8	6501.8	6678.7	6791.3	6787.7	6669.8	6541.1	6451.7
17.5°	6144.3	6165.8	6271.2	6471.4	6721.6	6907.5	6957.5	6836.0	6655.5	6535.7
20°	5928.1	5947.8	6094.3	6374.9	6735.9	7030.8	7161.3	7054.0	6828.8	6666.2
22.5°	5647.5	5677.9	5849.5	6208.7	6701.9	7159.5	7393.6	7320.3	7030.8	6805.6
25°	5347.3	5379.4	5579.6	6004.9	6614.4	7252.4	7668.8	7622.3	7259.6	6979.0
27.5°	5088.1	5122.1	5340.1	5803.0	6478.6	7288.1	7940.5	7963.7	7536.6	7170.2
30°	4884.4	4916.5	5148.9	5640.4	6303.4	7252.4	8178.2	8339.0	7818.9	7336.4
32.5°	4661.0	4702.1	4946.9	5442.0	6096.1	7166.6	8385.5	8744.7	8146.0	7515.1
35°	4378.6	4416.1	4673.5	5170.3	5824.4	7029.0	8558.8	9195.1	8614.2	7786.8
37.5°	4035.5	4071.2	4326.8	4830.8	5554.6	6836.0	8691.1	9702.6	9171.8	8178.2
40°	3690.5	3724.5	3964.0	4451.9	5231.1	6589.4	8737.6	10199.5	9811.7	8716.1
42.5°	3374.2	3404.6	3624.4	4078.4	4868.3	6274.8	8676.8	10632.0	10385.3	9091.4
45°	3082.9	3109.7	3304.5	3728.1	4491.2	5892.4	8494.5	11096.6	11068.0	9359.5
47.5°	2750.5	2777.3	2979.2	3388.5	4114.1	5443.8	8185.3	11554.2	12017.0	9967.1
50°	2344.8	2368.0	2575.3	2997.1	3722.7	4966.6	7756.4	11913.4	13214.5	10887.5
52.5°	1864.0	1889.1	2091.0	2512.8	3258.0	4453.7	7191.6	12147.5	14597.7	12231.5
55°	1386.9	1404.7	1579.9	1958.8	2682.6	3869.3	6483.9	12213.6	16166.9	14068.7
57.5°	1006.2	1016.9	1129.5	1411.9	2033.8	3138.3	5624.3	12042.1	18034.5	16424.2
60°	815.0	818.5	852.5	977.6	1413.7	2312.6	4585.9	11452.3	20061.2	19460.7
62.5°	739.9	739.9	748.8	782.8	956.1	1526.3	3329.5	10229.9	22234.4	23297.8
65°	688.1	688.1	691.6	707.7	754.2	972.2	2101.7	8238.9	24066.2	27792.5
67.5°	641.6	643.4	641.6	647.0	673.8	718.4	1218.9	5690.4	25052.8	32449.9
70°	593.3	596.9	588.0	588.0	609.4	611.2	763.1	3120.4	24234.2	36353.2
72.5°	536.2	541.5	527.2	523.6	539.7	532.6	573.7	1497.7	20806.4	37518.4
75°	486.1	493.3	461.1	452.2	452.2	446.8	466.5	768.5	13504.0	30605.6
77.5°	441.4	455.7	403.9	375.3	368.2	352.1	380.7	470.0	5906.7	14369.0
80°	364.6	384.2	332.4	298.5	285.9	268.1	300.2	328.8	1756.8	3336.7
82.5°	271.7	280.6	235.9	212.7	202.0	189.4	225.2	228.8	571.9	1181.3
85°	173.4	176.9	144.8	125.1	119.7	114.4	143.0	125.1	218.0	868.6
87.5°	60.8	69.7	55.4	50.0	53.6	44.7	66.1	37.5	60.8	613.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

6283.7  
6287.3  
6328.4  
6371.3  
6387.4  
6401.7  
6437.4  
6516.1  
6635.8  
6764.5  
6921.8  
7109.4  
7248.8  
7404.3  
7663.5  
8013.7  
8541.0  
8866.2  
9055.7  
9616.8  
10447.9  
11690.0  
13391.4  
15571.8  
18386.6  
21859.1  
25973.2  
30485.8  
35836.7  
38876.7  
32735.9  
14070.5  
3195.5  
1335.0  
1261.8  
759.6  
0.0

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