

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: P943043

Luminaire Tested: **GALN-SB7B-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943043
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-SB7B-830-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 35597 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

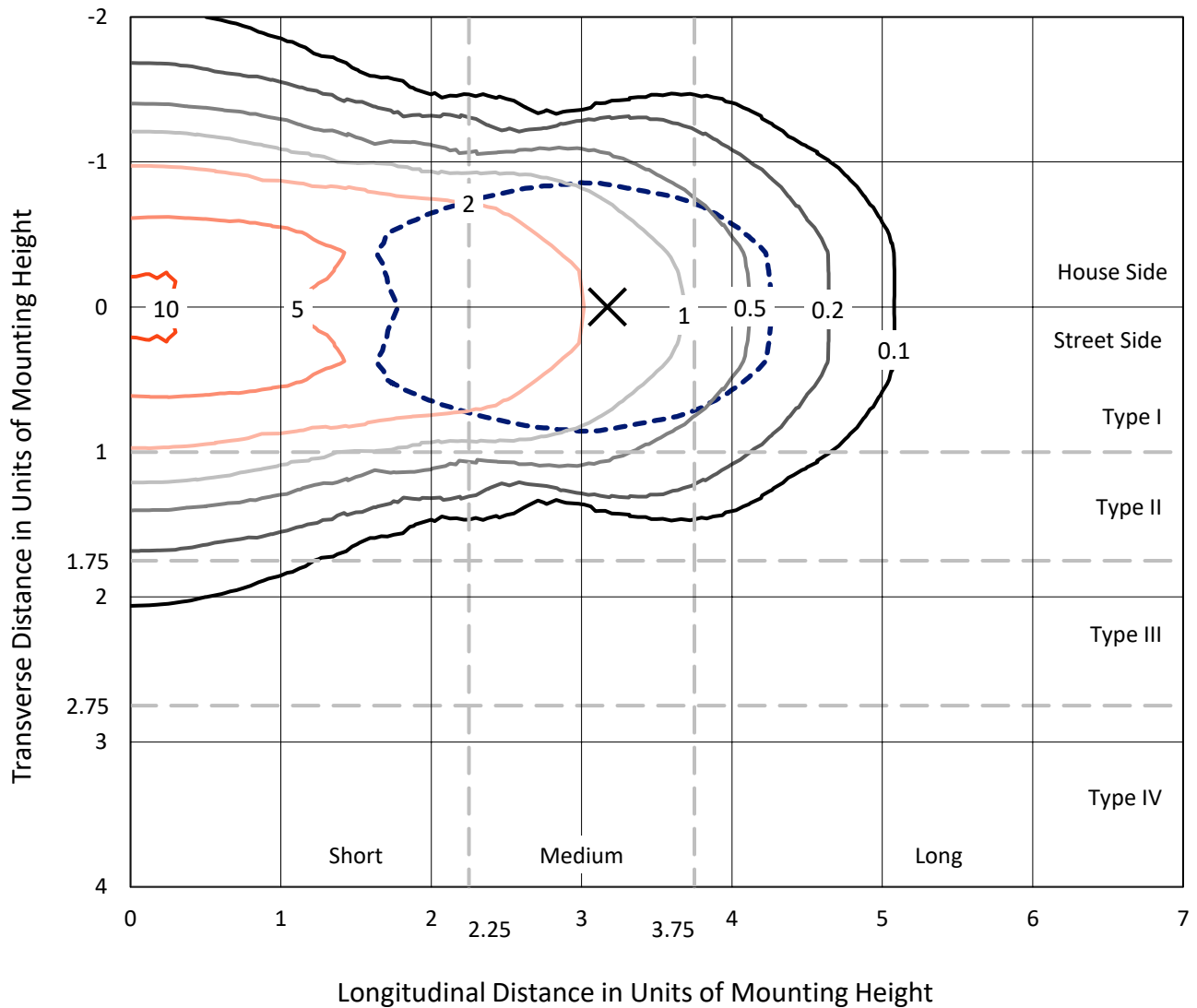
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

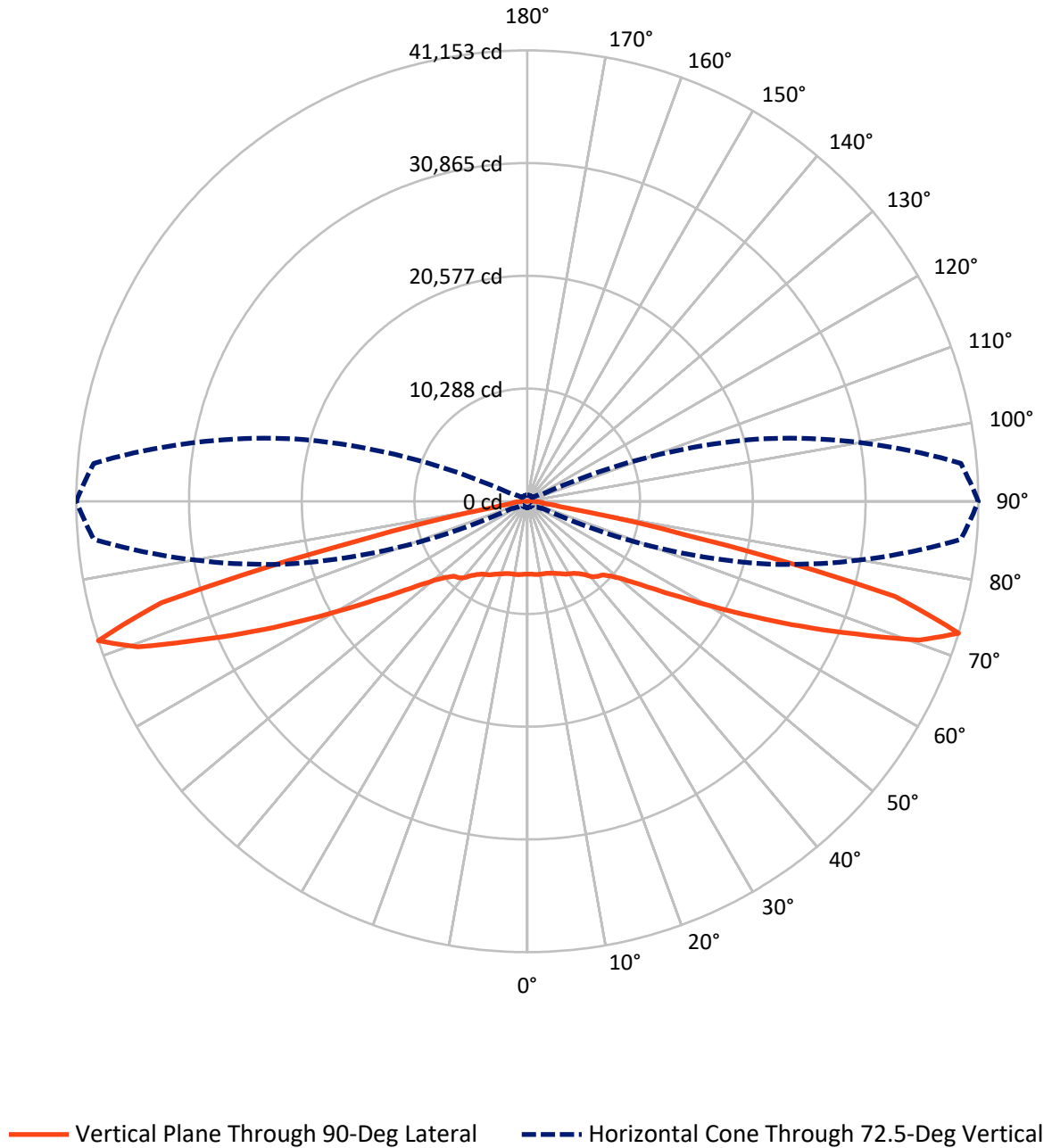
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	17798.5	0.0	17798.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17798.5	0.0	17798.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35597.0	0.0	35597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.0	1.8
10°-20°	1972.0	5.5
20°-30°	3288.2	9.2
30°-40°	4522.3	12.7
40°-50°	5522.9	15.5
50°-60°	6387.9	17.9
60°-70°	7616.5	21.4
70°-80°	5315.8	14.9
80°-90°	326.5	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°	35597.0	100.0
0°-180°	35597.0	100.0

Coefficient of Utilization



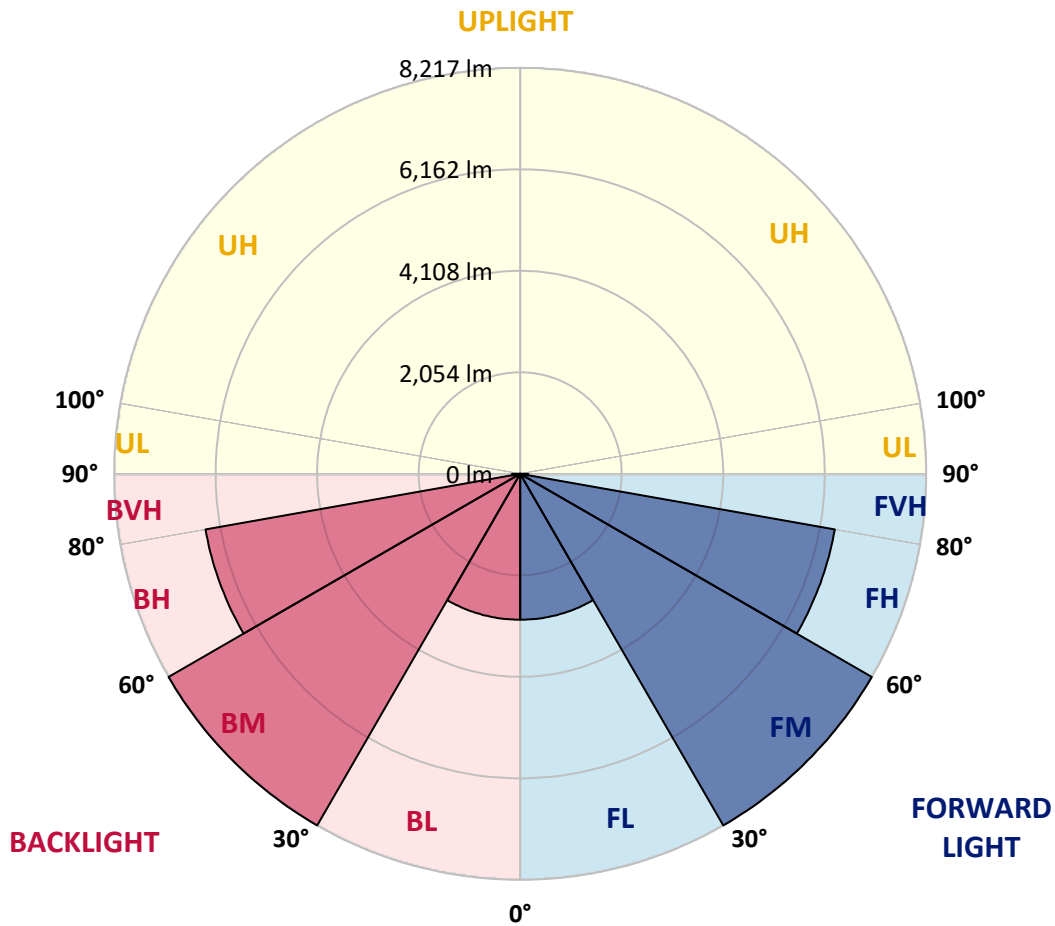
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2952.6	8.3			
FM (30°-60°)	8216.5	23.1			
FH (60°-80°)	6466.1	18.2			G3/7500
FVH (80°-90°)	163.2	0.5			G2/225
BL (0°-30°)	2952.6	8.3	B4/5000		
BM (30°-60°)	8216.5	23.1	B4/8500		
BH (60°-80°)	6466.1	18.2	B5		G5
BVH (80°-90°)	163.2	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°	6651.7	6651.7	6651.7	6651.7	6651.7	6651.7	6651.7	6651.7	6651.7	6651.7
2.5°	6657.4	6664.9	6664.9	6659.2	6672.5	6661.1	6661.1	6655.5	6661.1	6655.5
5°	6691.4	6700.9	6704.6	6702.8	6719.8	6710.3	6710.3	6702.8	6704.6	6699.0
7.5°	6755.7	6769.0	6776.5	6786.0	6810.6	6799.2	6791.7	6769.0	6759.5	6744.4
10°	6776.5	6791.7	6816.3	6865.5	6922.2	6924.1	6901.4	6844.6	6801.1	6767.1
12.5°	6712.2	6733.0	6784.1	6884.4	7011.1	7062.2	7026.3	6931.7	6846.5	6786.0
15°	6630.9	6653.6	6731.1	6882.5	7069.8	7189.0	7185.2	7060.3	6924.1	6829.5
17.5°	6504.1	6526.8	6638.4	6850.3	7115.2	7311.9	7364.9	7236.3	7045.2	6918.4
20°	6275.2	6296.0	6451.1	6748.2	7130.3	7442.5	7580.6	7467.1	7228.7	7056.5
22.5°	5978.2	6010.3	6192.0	6572.2	7094.4	7578.7	7826.5	7748.9	7442.5	7204.1
25°	5660.4	5694.4	5906.3	6356.5	7001.7	7677.0	8117.8	8068.7	7684.6	7387.6
27.5°	5386.0	5422.0	5652.8	6142.8	6857.9	7714.9	8405.4	8430.0	7977.8	7590.0
30°	5170.4	5204.4	5450.4	5970.6	6672.5	7677.0	8657.0	8827.3	8276.8	7766.0
32.5°	4933.9	4977.4	5236.6	5760.6	6453.0	7586.2	8876.5	9256.7	8623.0	7955.1
35°	4635.0	4674.7	4947.1	5473.1	6165.5	7440.6	9060.0	9733.5	9118.6	8242.7
37.5°	4271.8	4309.6	4580.1	5113.6	5879.8	7236.3	9200.0	10270.7	9708.9	8657.0
40°	3906.6	3942.6	4196.1	4712.5	5537.4	6975.2	9249.2	10796.7	10386.1	9226.5
42.5°	3571.8	3603.9	3836.6	4317.2	5153.3	6642.2	9184.8	11254.5	10993.4	9623.7
45°	3263.4	3291.8	3498.0	3946.4	4754.2	6237.4	8991.9	11746.4	11716.1	9907.5
47.5°	2911.5	2939.9	3153.7	3586.9	4355.0	5762.5	8664.6	12230.7	12720.7	10550.7
50°	2482.1	2506.7	2726.1	3172.6	3940.7	5257.4	8210.5	12610.9	13988.2	11525.0
52.5°	1973.2	1999.7	2213.4	2659.9	3448.8	4714.4	7612.7	12858.8	15452.5	12947.7
55°	1468.1	1487.0	1672.4	2073.4	2839.6	4095.8	6863.6	12928.8	17113.5	14892.5
57.5°	1065.1	1076.5	1195.6	1494.5	2152.9	3322.1	5953.6	12747.2	19090.5	17385.9
60°	862.7	866.5	902.4	1034.8	1496.4	2448.0	4854.4	12122.8	21235.8	20600.1
62.5°	783.2	783.2	792.7	828.6	1012.1	1615.6	3524.5	10828.8	23536.3	24661.9
65°	728.4	728.4	732.1	749.2	798.4	1029.2	2224.8	8721.3	25475.4	29419.9
67.5°	679.2	681.1	679.2	684.8	713.2	760.5	1290.2	6023.6	26519.7	34350.0
70°	628.1	631.9	622.4	622.4	645.1	647.0	807.8	3303.1	25653.2	38481.7
72.5°	567.5	573.2	558.1	554.3	571.3	563.8	607.3	1585.4	22024.7	39715.2
75°	514.6	522.1	488.1	478.6	478.6	473.0	493.8	813.5	14294.7	32397.6
77.5°	467.3	482.4	427.6	397.3	389.7	372.7	403.0	497.6	6252.5	15210.3
80°	385.9	406.7	351.9	315.9	302.7	283.8	317.8	348.1	1859.7	3532.0
82.5°	287.6	297.0	249.7	225.1	213.8	200.5	238.4	242.2	605.4	1250.5
85°	183.5	187.3	153.2	132.4	126.8	121.1	151.3	132.4	230.8	919.4
87.5°	64.3	73.8	58.6	53.0	56.8	47.3	70.0	39.7	64.3	648.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

6651.7
6655.5
6699.0
6744.4
6761.4
6776.5
6814.4
6897.6
7024.4
7160.6
7327.1
7525.7
7673.3
7837.9
8112.2
8483.0
9041.1
9385.4
9585.9
10179.9
11059.6
12374.5
14175.5
16483.5
19463.1
23139.0
27494.0
32270.8
37935.0
41153.0
34652.7
14894.4
3382.6
1413.2
1335.6
804.0
0.0

OF REPORT)