

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: P944063

Luminaire Tested: **GALN-SB8D-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944063
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-SB8D-830-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 73144 lumens
Efficiency: N/A
Efficacy: 125.1 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

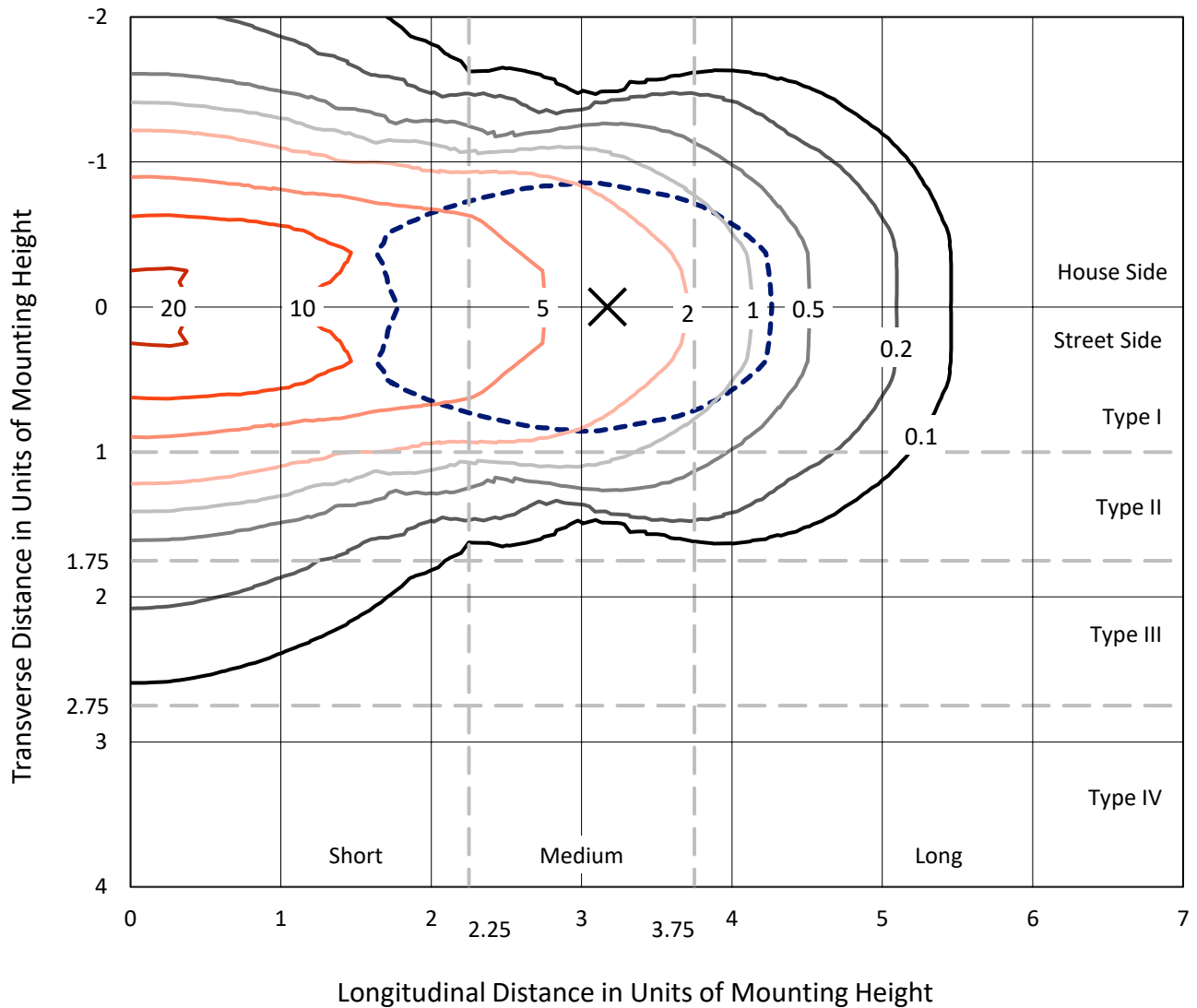
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

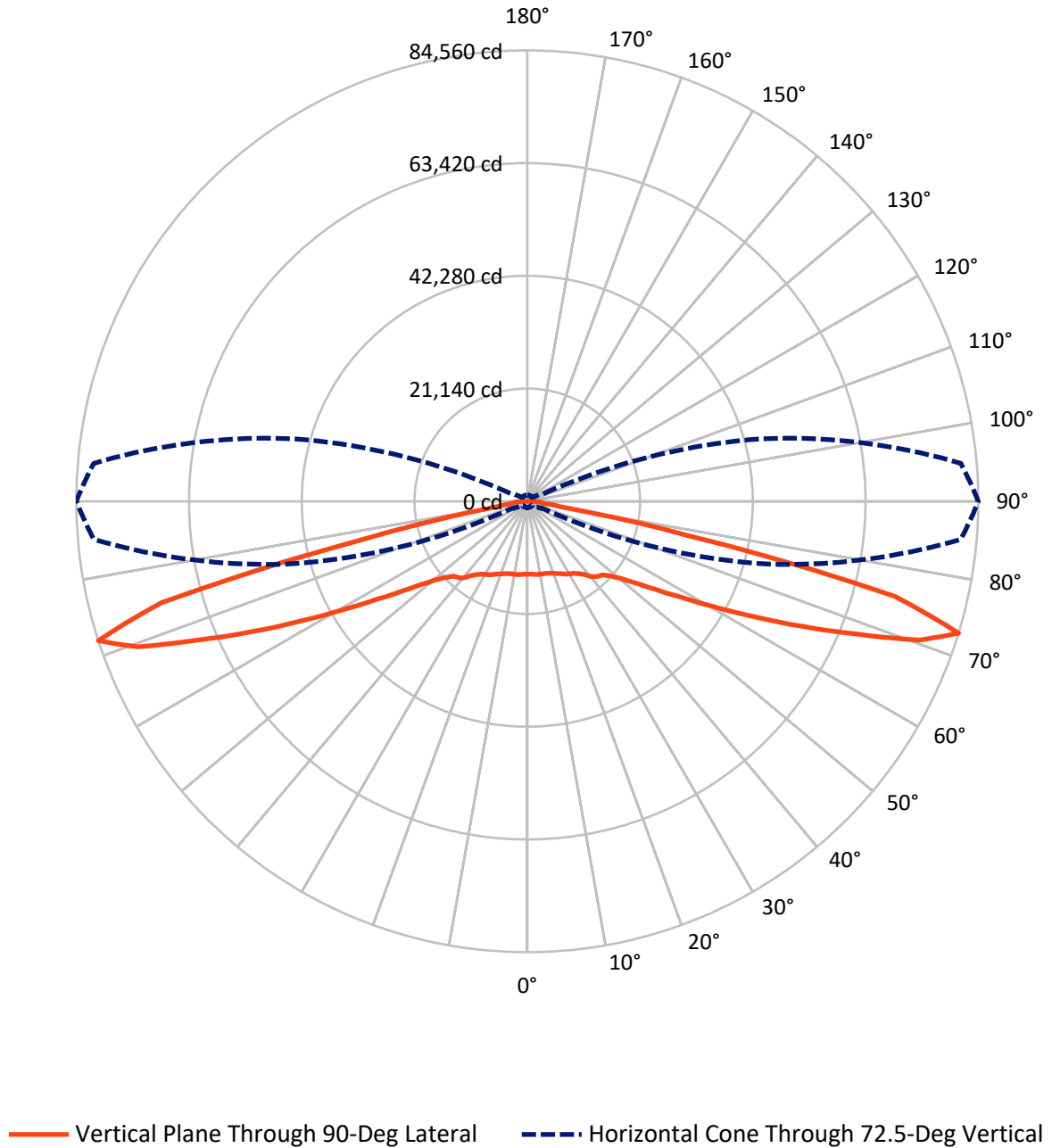
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 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	36572.0	0.0	36572.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36572.0	0.0	36572.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	73144.0	0.0	73144.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1325.3	1.8
10°-20°	4052.1	5.5
20°-30°	6756.5	9.2
30°-40°	9292.3	12.7
40°-50°	11348.4	15.5
50°-60°	13125.6	17.9
60°-70°	15650.2	21.4
70°-80°	10922.8	14.9
80°-90°	670.9	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°	73144.0	100.0
0°-180°	73144.0	100.0



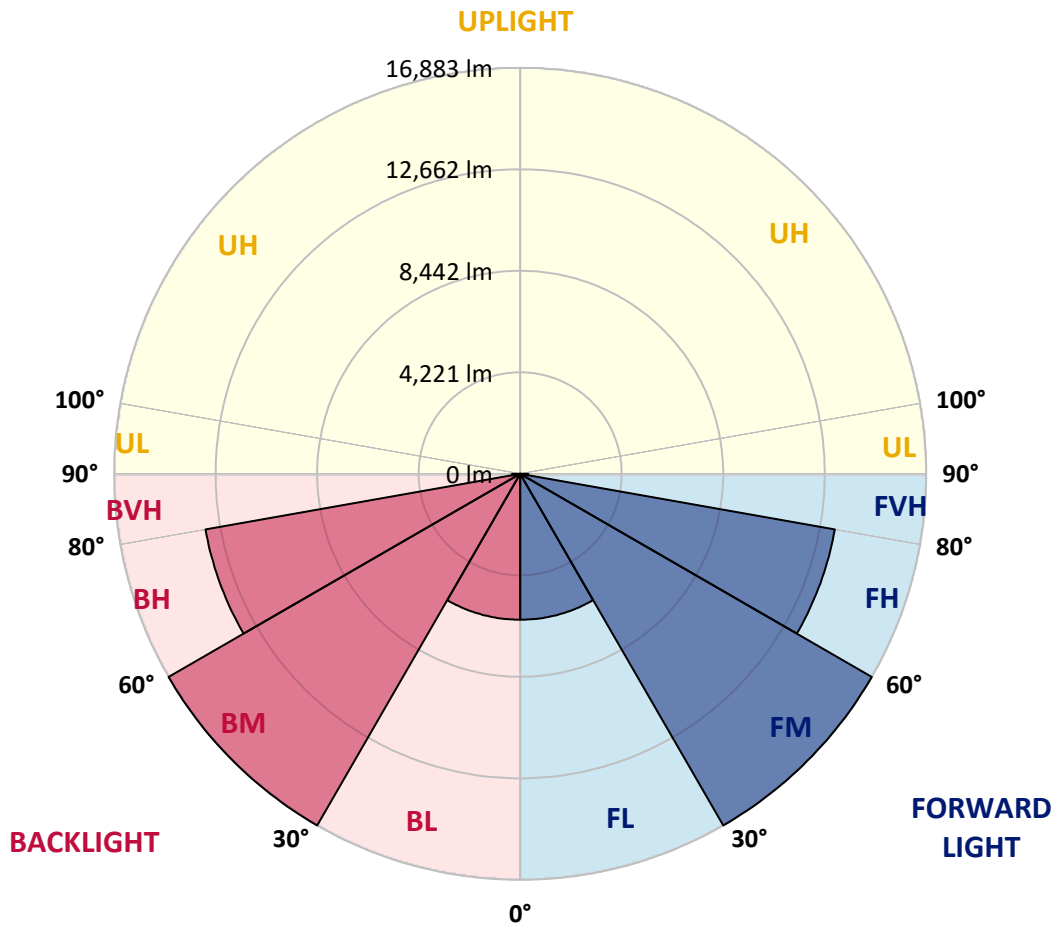
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6066.9	8.3			
FM (30°-60°)	16883.2	23.1			
FH (60°-80°)	13286.5	18.2			G5
FVH (80°-90°)	335.4	0.5			G3/500
BL (0°-30°)	6066.9	8.3	B5		
BM (30°-60°)	16883.2	23.1	B5		
BH (60°-80°)	13286.5	18.2	B5		G5
BVH (80°-90°)	335.4	0.5			G3/500
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°	13667.7	13667.7	13667.7	13667.7	13667.7	13667.7	13667.7	13667.7	13667.7	13667.7
2.5°	13679.4	13694.9	13694.9	13683.3	13710.5	13687.2	13687.2	13675.5	13687.2	13675.5
5°	13749.4	13768.8	13776.6	13772.7	13807.7	13788.2	13788.2	13772.7	13776.6	13764.9
7.5°	13881.5	13908.7	13924.3	13943.7	13994.3	13970.9	13955.4	13908.7	13889.3	13858.2
10°	13924.3	13955.4	14005.9	14107.0	14223.6	14227.5	14180.9	14064.2	13974.8	13904.9
12.5°	13792.1	13834.9	13939.8	14145.9	14406.3	14511.3	14437.4	14243.0	14068.1	13943.7
15°	13625.0	13671.6	13831.0	14142.0	14526.8	14771.7	14763.9	14507.4	14227.5	14033.1
17.5°	13364.5	13411.2	13640.5	14075.9	14620.1	15024.4	15133.2	14868.9	14476.3	14215.8
20°	12894.2	12936.9	13255.7	13866.0	14651.2	15292.6	15576.4	15343.2	14853.4	14499.6
22.5°	12283.9	12349.9	12723.1	13504.5	14577.4	15572.5	16081.7	15922.4	15292.6	14802.8
25°	11630.8	11700.8	12136.1	13061.3	14386.9	15774.6	16680.4	16579.3	15790.2	15179.9
27.5°	11067.1	11141.0	11615.2	12622.0	14091.4	15852.4	17271.3	17321.8	16392.7	15595.8
30°	10624.0	10693.9	11199.3	12268.3	13710.5	15774.6	17788.3	18138.1	17006.9	15957.3
32.5°	10138.1	10227.5	10760.0	11836.8	13259.6	15588.1	18239.2	19020.5	17718.3	16346.1
35°	9523.9	9605.5	10165.3	11245.9	12668.7	15288.7	18616.3	20000.1	18736.8	16936.9
37.5°	8777.5	8855.3	9411.1	10507.4	12081.7	14868.9	18903.9	21104.1	19949.6	17788.3
40°	8027.3	8101.1	8622.0	9683.3	11378.1	14332.5	19005.0	22184.8	21341.2	18958.3
42.5°	7339.2	7405.3	7883.4	8870.8	10589.0	13648.3	18872.8	23125.5	22589.1	19774.7
45°	6705.6	6763.9	7187.6	8108.9	9768.8	12816.4	18476.3	24136.2	24074.0	20357.8
47.5°	5982.5	6040.9	6480.1	7370.3	8948.6	11840.7	17803.8	25131.4	26138.2	21679.4
50°	5100.1	5150.7	5601.6	6519.0	8097.2	10802.8	16870.9	25912.7	28742.7	23681.4
52.5°	4054.4	4108.9	4548.1	5465.5	7086.5	9687.1	15642.5	26421.9	31751.4	26604.6
55°	3016.5	3055.4	3436.4	4260.5	5834.8	8416.0	14103.1	26565.8	35164.5	30600.8
57.5°	2188.5	2211.9	2456.8	3071.0	4423.7	6826.1	12233.3	26192.6	39226.7	35724.2
60°	1772.6	1780.4	1854.2	2126.4	3074.9	5030.2	9974.8	24909.8	43634.9	42328.8
62.5°	1609.3	1609.3	1628.8	1702.6	2079.7	3319.7	7242.0	22250.9	48361.8	50674.8
65°	1496.6	1496.6	1504.4	1539.4	1640.4	2114.7	4571.5	17920.4	52346.3	60451.3
67.5°	1395.5	1399.4	1395.5	1407.2	1465.5	1562.7	2651.1	12377.1	54492.1	70581.6
70°	1290.6	1298.4	1278.9	1278.9	1325.6	1329.5	1659.9	6787.2	52711.7	79071.5
72.5°	1166.2	1177.9	1146.8	1139.0	1174.0	1158.4	1247.8	3257.6	45255.9	81606.0
75°	1057.3	1072.9	1002.9	983.5	983.5	971.8	1014.6	1671.5	29372.4	66569.9
77.5°	960.2	991.3	878.5	816.3	800.8	765.8	828.0	1022.4	12847.5	31253.9
80°	793.0	835.8	723.0	649.2	622.0	583.1	653.1	715.3	3821.2	7257.6
82.5°	590.9	610.3	513.1	462.6	439.3	412.1	489.8	497.6	1243.9	2569.5
85°	377.1	384.8	314.9	272.1	260.4	248.8	311.0	272.1	474.2	1889.2
87.5°	132.2	151.6	120.5	108.8	116.6	97.2	143.8	81.6	132.2	1333.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

13667.7
13675.5
13764.9
13858.2
13893.2
13924.3
14002.0
14173.1
14433.5
14713.4
15055.5
15463.7
15766.9
16105.1
16668.7
17430.6
18577.4
19284.9
19696.9
20917.5
22725.1
25426.8
29127.5
33870.0
39992.5
47545.5
56494.1
66309.5
77948.0
84560.3
71203.6
30604.7
6950.5
2903.8
2744.4
1652.1
0.0

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