

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: P941343

Luminaire Tested: **GALN-SB4D-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941343
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-SB4D-830-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 36253 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

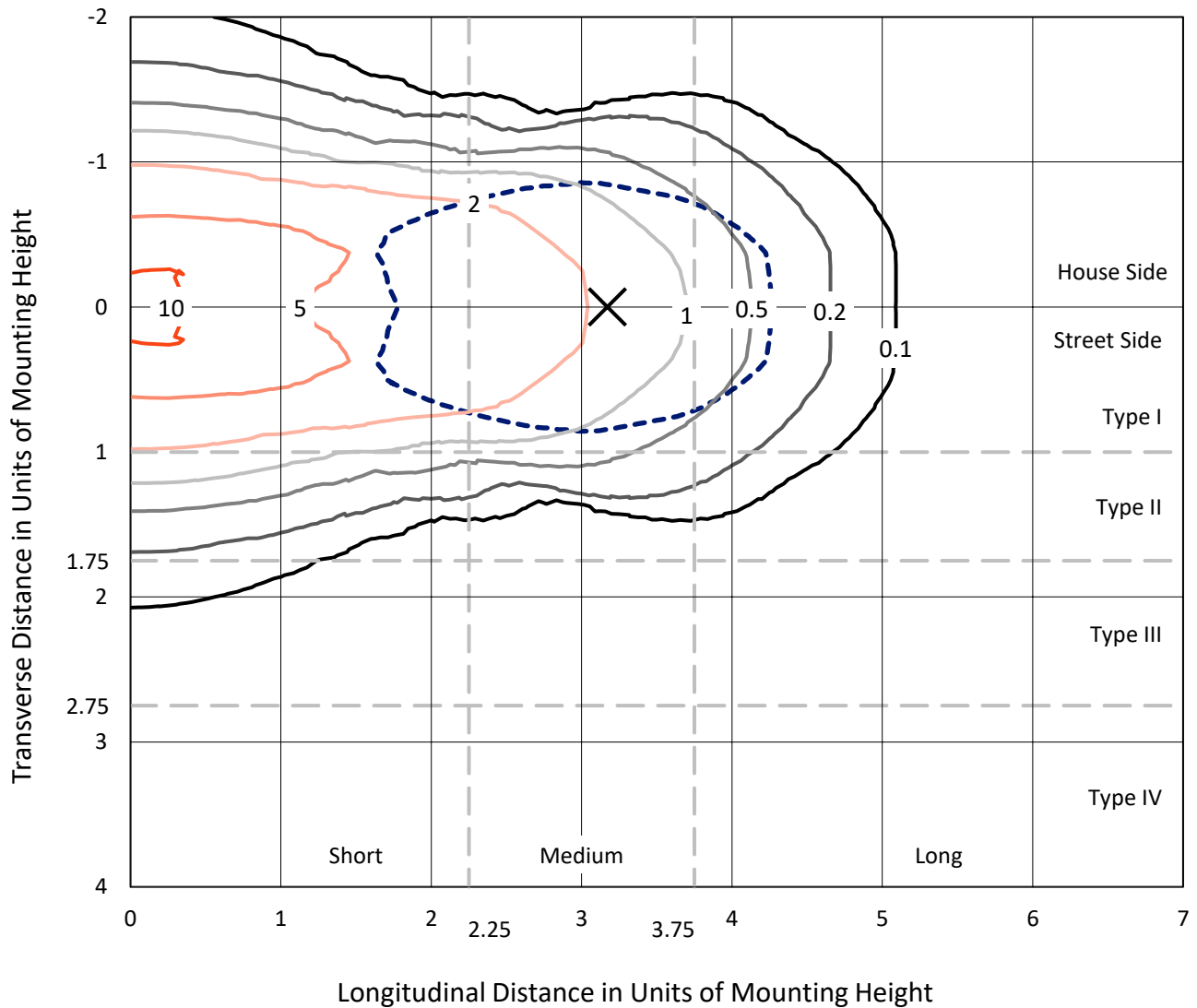
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

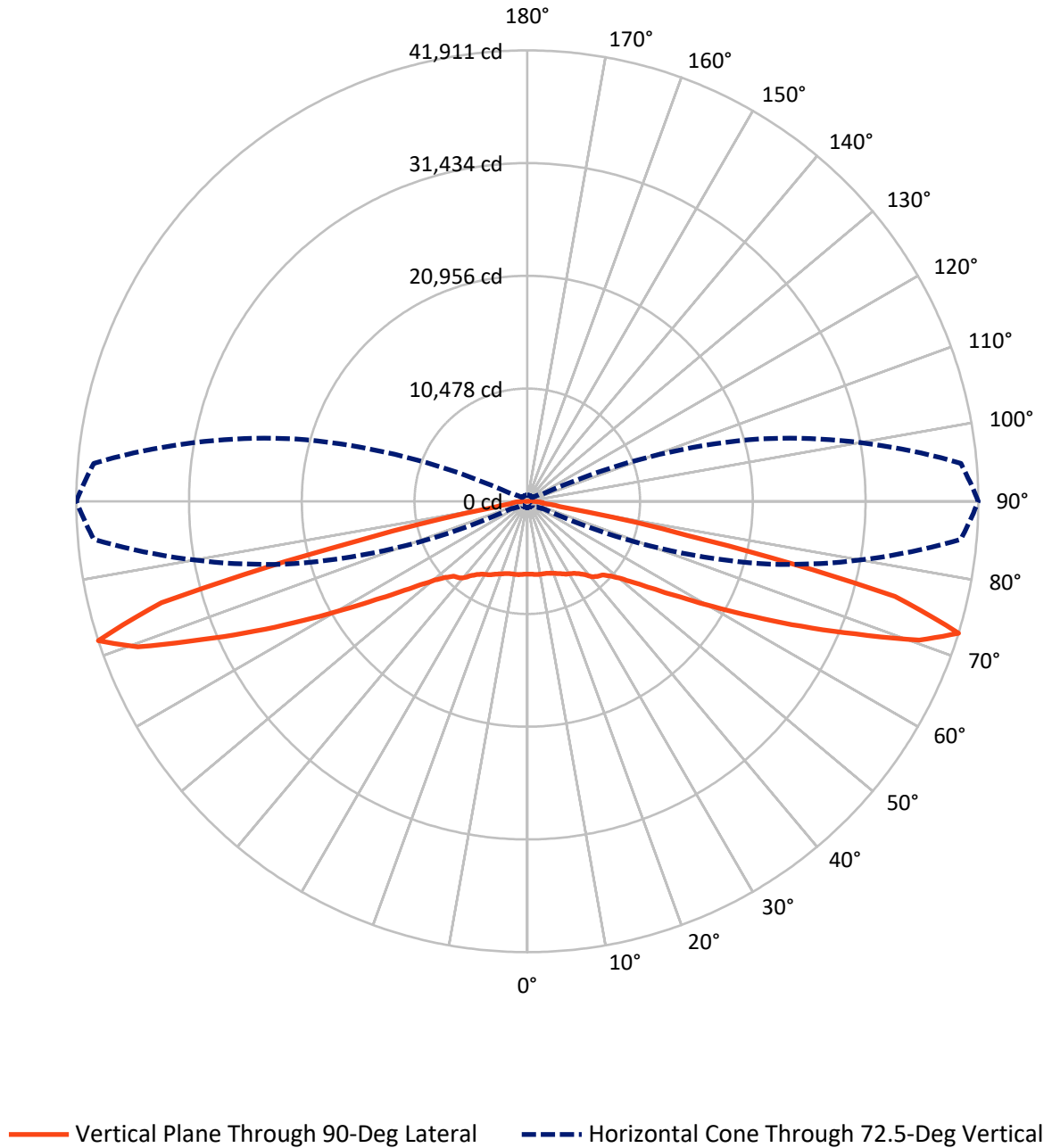
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	18126.5	0.0	18126.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18126.5	0.0	18126.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36253.0	0.0	36253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.8	1.8
10°-20°	2008.4	5.5
20°-30°	3348.8	9.2
30°-40°	4605.6	12.7
40°-50°	5624.7	15.5
50°-60°	6505.6	17.9
60°-70°	7756.8	21.4
70°-80°	5413.8	14.9
80°-90°	332.5	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°	36253.0	100.0
0°-180°	36253.0	100.0

Coefficient of Utilization



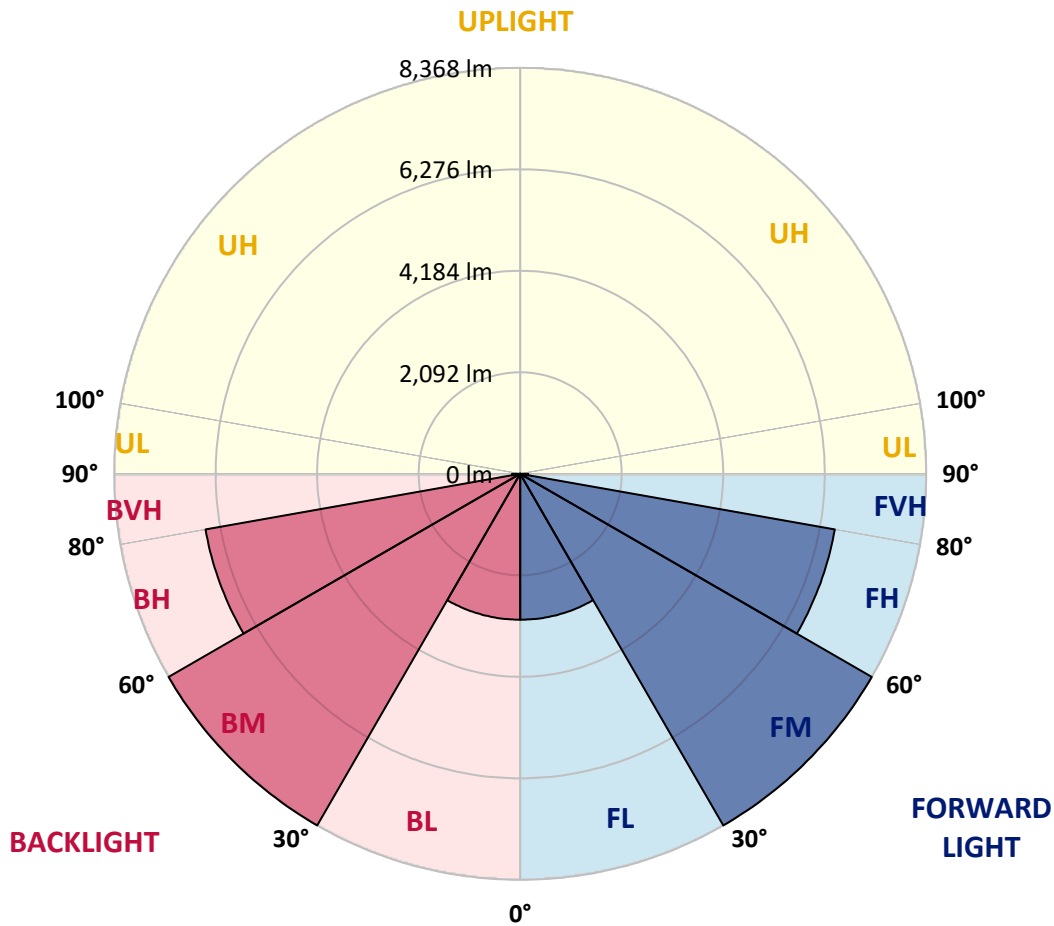
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3007.0	8.3			
FM (30°-60°)	8367.9	23.1			
FH (60°-80°)	6585.3	18.2			G3/7500
FVH (80°-90°)	166.3	0.5			G2/225
BL (0°-30°)	3007.0	8.3	B4/5000		
BM (30°-60°)	8367.9	23.1	B4/8500		
BH (60°-80°)	6585.3	18.2	B5		G5
BVH (80°-90°)	166.3	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°	6774.3	6774.3	6774.3	6774.3	6774.3	6774.3	6774.3	6774.3	6774.3	6774.3
2.5°	6780.0	6787.7	6787.7	6782.0	6795.4	6783.9	6783.9	6778.1	6783.9	6778.1
5°	6814.7	6824.3	6828.2	6826.3	6843.6	6834.0	6834.0	6826.3	6828.2	6822.4
7.5°	6880.2	6893.7	6901.4	6911.1	6936.1	6924.5	6916.8	6893.7	6884.1	6868.7
10°	6901.4	6916.8	6941.9	6992.0	7049.8	7051.7	7028.6	6970.8	6926.5	6891.8
12.5°	6835.9	6857.1	6909.1	7011.2	7140.3	7192.3	7155.7	7059.4	6972.7	6911.1
15°	6753.1	6776.2	6855.2	7009.3	7200.1	7321.4	7317.6	7190.4	7051.7	6955.4
17.5°	6624.0	6647.1	6760.8	6976.6	7246.3	7446.7	7500.6	7369.6	7175.0	7045.9
20°	6390.8	6412.0	6570.0	6872.5	7261.7	7579.6	7720.3	7604.7	7361.9	7186.6
22.5°	6088.4	6121.1	6306.1	6693.3	7225.1	7718.3	7970.7	7891.7	7579.6	7336.9
25°	5764.7	5799.3	6015.1	6473.7	7130.7	7818.5	8267.4	8217.3	7826.2	7523.7
27.5°	5485.3	5521.9	5757.0	6256.0	6984.3	7857.1	8560.3	8585.3	8124.9	7729.9
30°	5265.7	5300.3	5550.8	6080.6	6795.4	7818.5	8816.6	8990.0	8429.3	7909.1
32.5°	5024.8	5069.1	5333.1	5866.8	6572.0	7726.0	9040.0	9427.3	8781.9	8101.7
35°	4720.4	4760.9	5038.3	5573.9	6279.1	7577.7	9226.9	9912.8	9286.7	8394.6
37.5°	4350.5	4389.0	4664.5	5207.9	5988.2	7369.6	9369.5	10460.0	9887.8	8816.6
40°	3978.6	4015.2	4273.4	4799.4	5639.4	7103.7	9419.6	10995.6	10577.5	9396.5
42.5°	3637.6	3670.4	3907.3	4396.7	5248.3	6764.6	9354.1	11461.9	11196.0	9801.1
45°	3323.5	3352.4	3562.5	4019.1	4841.8	6352.3	9157.6	11962.8	11932.0	10090.1
47.5°	2965.2	2994.1	3211.8	3653.0	4435.2	5868.7	8824.3	12456.1	12955.1	10745.2
50°	2527.8	2552.9	2776.4	3231.1	4013.3	5354.3	8361.9	12843.3	14246.0	11737.4
52.5°	2009.5	2036.5	2254.2	2708.9	3512.4	4801.3	7753.0	13095.7	15737.2	13186.3
55°	1495.1	1514.4	1703.2	2111.7	2892.0	4171.3	6990.0	13167.0	17428.9	15166.9
57.5°	1084.7	1096.3	1217.7	1522.1	2192.6	3383.3	6063.3	12982.1	19442.3	17706.3
60°	878.6	882.4	919.0	1053.9	1524.0	2493.1	4943.9	12346.3	21627.1	20979.8
62.5°	797.7	797.7	807.3	843.9	1030.8	1645.4	3589.4	11028.4	23970.0	25116.4
65°	741.8	741.8	745.6	763.0	813.1	1048.1	2265.8	8882.1	25944.9	29962.0
67.5°	691.7	693.6	691.7	697.5	726.4	774.5	1314.0	6134.6	27008.4	34983.0
70°	639.7	643.5	633.9	633.9	657.0	658.9	822.7	3364.0	26126.0	39190.9
72.5°	578.0	583.8	568.4	564.5	581.9	574.2	618.5	1614.6	22430.6	40447.1
75°	524.1	531.8	497.1	487.5	487.5	481.7	502.9	828.5	14558.1	32994.6
77.5°	475.9	491.3	435.4	404.6	396.9	379.6	410.4	506.7	6367.7	15490.6
80°	393.0	414.2	358.4	321.8	308.3	289.0	323.7	354.5	1893.9	3597.1
82.5°	292.9	302.5	254.3	229.3	217.7	204.2	242.8	246.6	616.5	1273.5
85°	186.9	190.7	156.1	134.9	129.1	123.3	154.1	134.9	235.1	936.4
87.5°	65.5	75.1	59.7	53.9	57.8	48.2	71.3	40.5	65.5	660.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

6774.3
6778.1
6822.4
6868.7
6886.0
6901.4
6940.0
7024.7
7153.8
7292.5
7462.1
7664.4
7814.7
7982.3
8261.7
8639.3
9207.7
9558.3
9762.6
10367.5
11263.5
12602.5
14436.7
16787.3
19821.8
23565.4
28000.6
32865.5
38634.1
41911.4
35291.3
15168.9
3444.9
1439.2
1360.2
818.8
0.0

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