

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: P938963

Luminaire Tested: **GALN-SB1B-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938963
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-SB1B-830-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5007 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

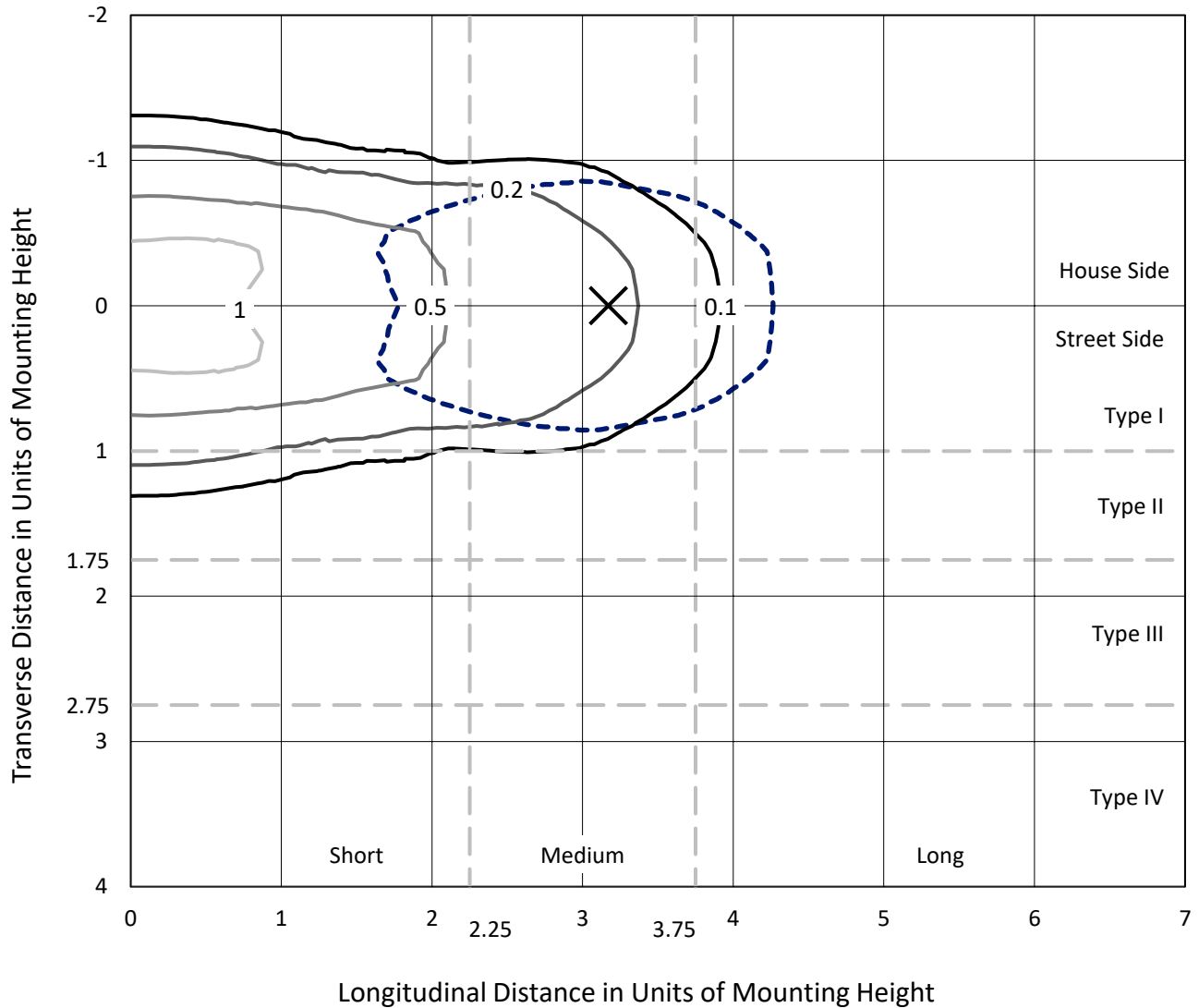
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

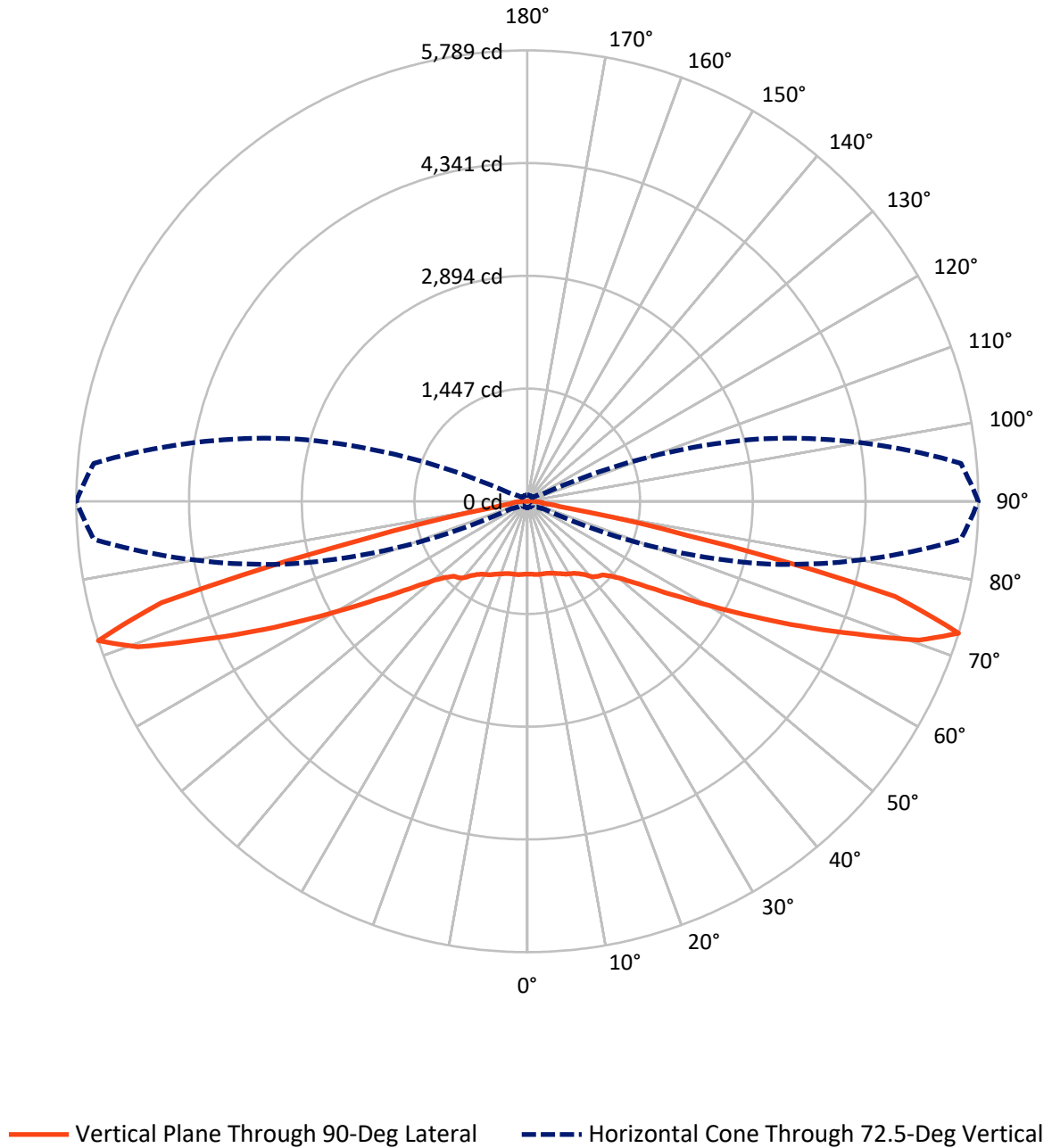
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	2503.5	0.0	2503.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2503.5	0.0	2503.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5007.0	0.0	5007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.8
10°-20°	277.4	5.5
20°-30°	462.5	9.2
30°-40°	636.1	12.7
40°-50°	776.8	15.5
50°-60°	898.5	17.9
60°-70°	1071.3	21.4
70°-80°	747.7	14.9
80°-90°	45.9	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°	5007.0	100.0
0°-180°	5007.0	100.0

Coefficient of Utilization



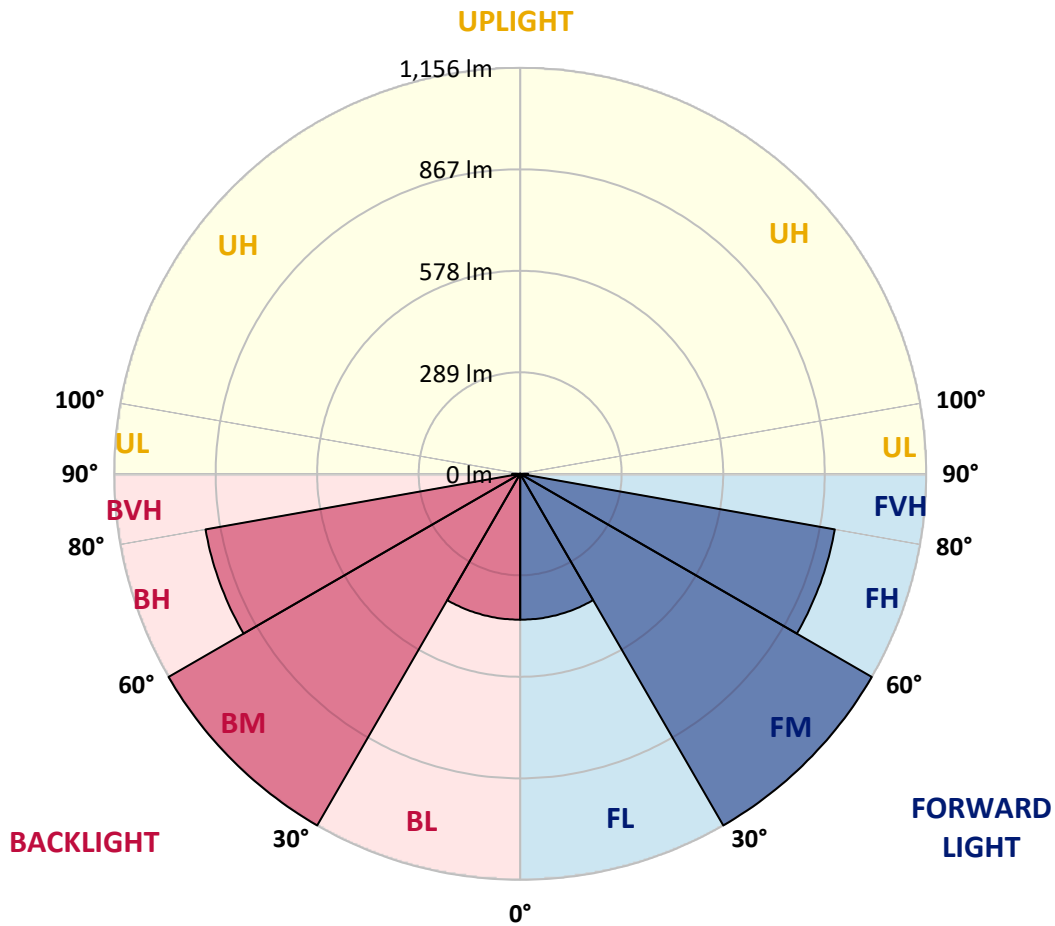
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.3	8.3			
FM (30°-60°)	1155.7	23.1			
FH (60°-80°)	909.5	18.2			G1/1800
FVH (80°-90°)	23.0	0.5			G1/100
BL (0°-30°)	415.3	8.3	B1/500		
BM (30°-60°)	1155.7	23.1	B2/2500		
BH (60°-80°)	909.5	18.2	B2/1000		G2/1000
BVH (80°-90°)	23.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6
2.5°	936.4	937.5	937.5	936.7	938.5	936.9	936.9	936.1	936.9	936.1
5°	941.2	942.5	943.1	942.8	945.2	943.9	943.9	942.8	943.1	942.3
7.5°	950.2	952.1	953.2	954.5	958.0	956.4	955.3	952.1	950.8	948.6
10°	953.2	955.3	958.8	965.7	973.7	973.9	970.7	962.8	956.6	951.8
12.5°	944.1	947.1	954.2	968.3	986.2	993.4	988.3	975.0	963.0	954.5
15°	932.7	935.9	946.8	968.1	994.4	1011.2	1010.7	993.1	973.9	960.6
17.5°	914.9	918.0	933.7	963.6	1000.8	1028.5	1035.9	1017.8	991.0	973.1
20°	882.7	885.6	907.4	949.2	1002.9	1046.8	1066.3	1050.3	1016.8	992.6
22.5°	840.9	845.4	870.9	924.4	997.9	1066.0	1100.9	1089.9	1046.8	1013.3
25°	796.2	801.0	830.8	894.1	984.8	1079.8	1141.8	1134.9	1080.9	1039.1
27.5°	757.6	762.6	795.1	864.0	964.6	1085.2	1182.3	1185.7	1122.1	1067.6
30°	727.3	732.0	766.6	839.8	938.5	1079.8	1217.7	1241.6	1164.2	1092.3
32.5°	694.0	700.1	736.6	810.3	907.7	1067.1	1248.5	1302.0	1212.9	1119.0
35°	651.9	657.5	695.9	769.8	867.2	1046.6	1274.4	1369.1	1282.6	1159.4
37.5°	600.9	606.2	644.2	719.3	827.0	1017.8	1294.0	1444.7	1365.6	1217.7
40°	549.5	554.6	590.2	662.9	778.9	981.1	1301.0	1518.6	1460.9	1297.8
42.5°	502.4	506.9	539.7	607.2	724.9	934.3	1291.9	1583.0	1546.3	1353.7
45°	459.0	463.0	492.0	555.1	668.7	877.3	1264.8	1652.2	1648.0	1393.6
47.5°	409.5	413.5	443.6	504.5	612.6	810.5	1218.7	1720.3	1789.3	1484.0
50°	349.1	352.6	383.5	446.3	554.3	739.5	1154.9	1773.8	1967.6	1621.1
52.5°	277.5	281.3	311.3	374.1	485.1	663.1	1070.8	1808.7	2173.5	1821.2
55°	206.5	209.2	235.2	291.6	399.4	576.1	965.4	1818.5	2407.1	2094.7
57.5°	149.8	151.4	168.2	210.2	302.8	467.3	837.4	1793.0	2685.2	2445.5
60°	121.3	121.9	126.9	145.6	210.5	344.3	682.8	1705.2	2987.0	2897.6
62.5°	110.2	110.2	111.5	116.6	142.4	227.3	495.7	1523.2	3310.6	3468.9
65°	102.4	102.4	103.0	105.4	112.3	144.8	312.9	1226.7	3583.3	4138.1
67.5°	95.5	95.8	95.5	96.3	100.3	107.0	181.5	847.3	3730.2	4831.6
70°	88.3	88.9	87.5	87.5	90.7	91.0	113.6	464.6	3608.3	5412.8
72.5°	79.8	80.6	78.5	78.0	80.4	79.3	85.4	223.0	3097.9	5586.3
75°	72.4	73.4	68.7	67.3	67.3	66.5	69.5	114.4	2010.7	4557.0
77.5°	65.7	67.9	60.1	55.9	54.8	52.4	56.7	70.0	879.5	2139.5
80°	54.3	57.2	49.5	44.4	42.6	39.9	44.7	49.0	261.6	496.8
82.5°	40.4	41.8	35.1	31.7	30.1	28.2	33.5	34.1	85.2	175.9
85°	25.8	26.3	21.6	18.6	17.8	17.0	21.3	18.6	32.5	129.3
87.5°	9.0	10.4	8.2	7.5	8.0	6.7	9.8	5.6	9.0	91.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

935.6
936.1
942.3
948.6
951.0
953.2
958.5
970.2
988.0
1007.2
1030.6
1058.5
1079.3
1102.5
1141.0
1193.2
1271.7
1320.1
1348.3
1431.9
1555.6
1740.6
1993.9
2318.5
2737.6
3254.7
3867.2
4539.1
5335.9
5788.5
4874.2
2095.0
475.8
198.8
187.9
113.1
0.0

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