

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: P946783

Luminaire Tested: **GALN-SB2B-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-830-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10597 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

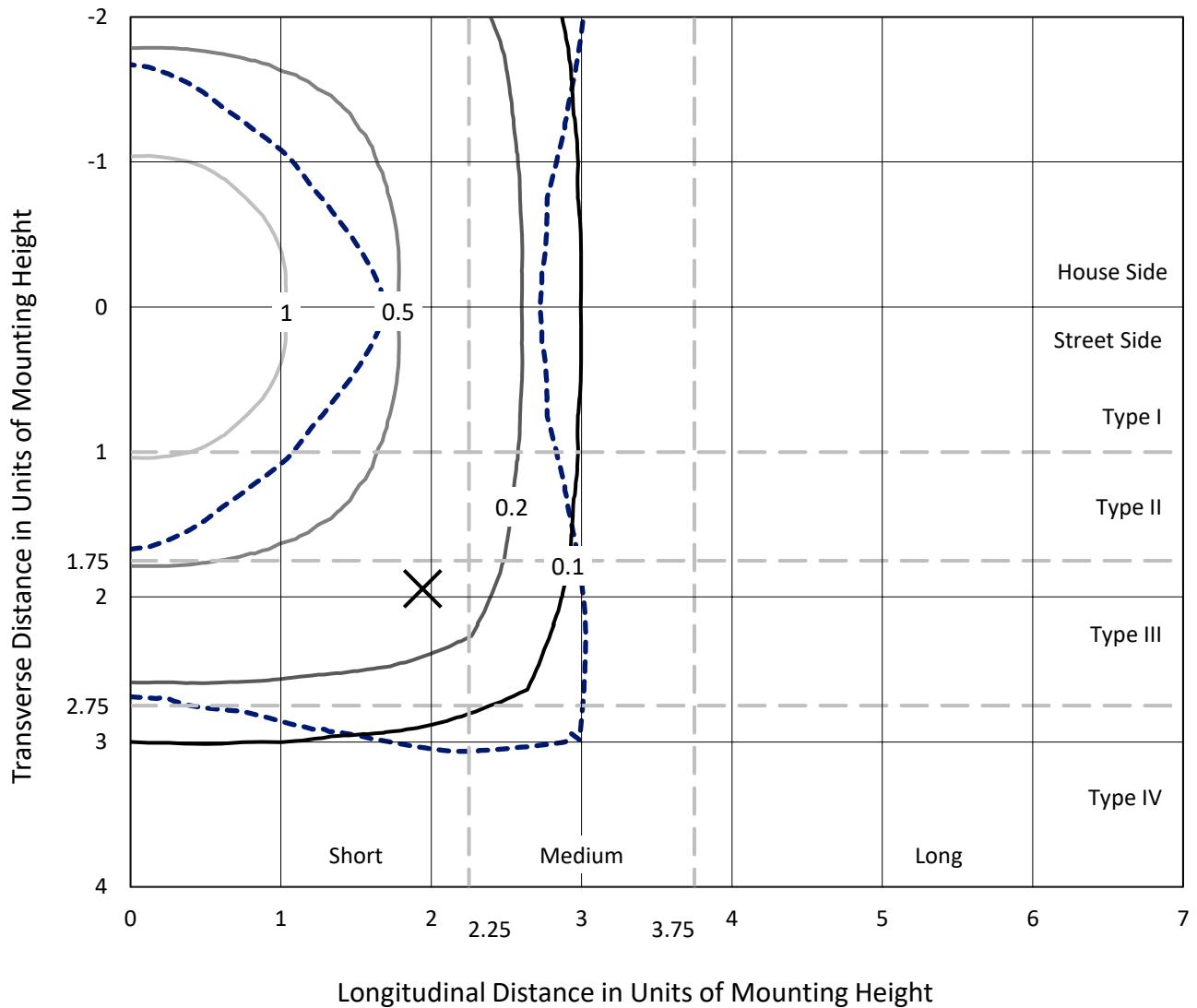
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

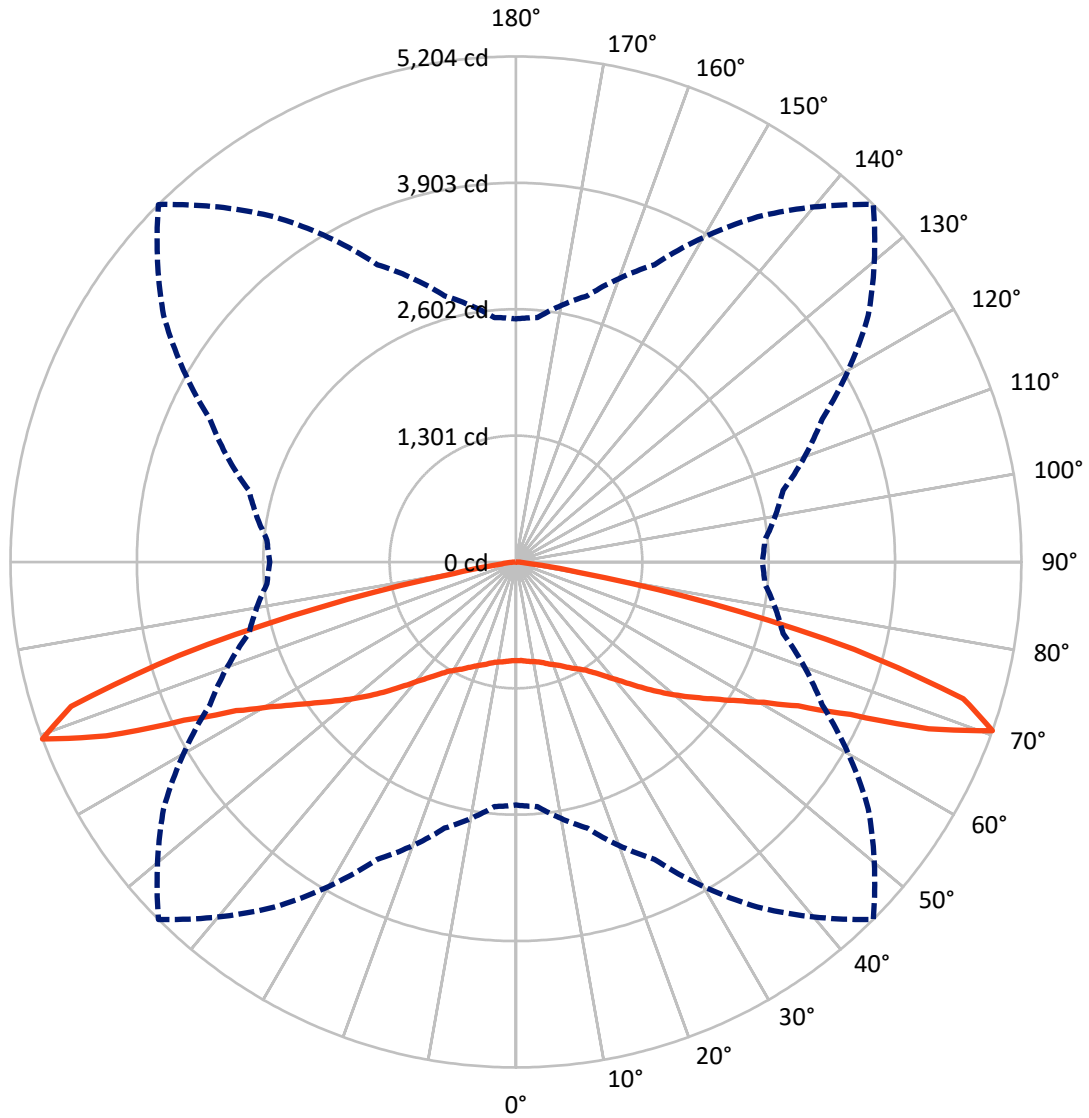
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5298.5	0.0	5298.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5298.5	0.0	5298.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10597.0	0.0	10597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	0.9
10°-20°	305.8	2.9
20°-30°	546.5	5.2
30°-40°	885.9	8.4
40°-50°	1442.9	13.6
50°-60°	2200.0	20.8
60°-70°	3272.8	30.9
70°-80°	1783.8	16.8
80°-90°	60.7	0.6
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°	10597.0	100.0
0°-180°	10597.0	100.0

Coefficient of Utilization



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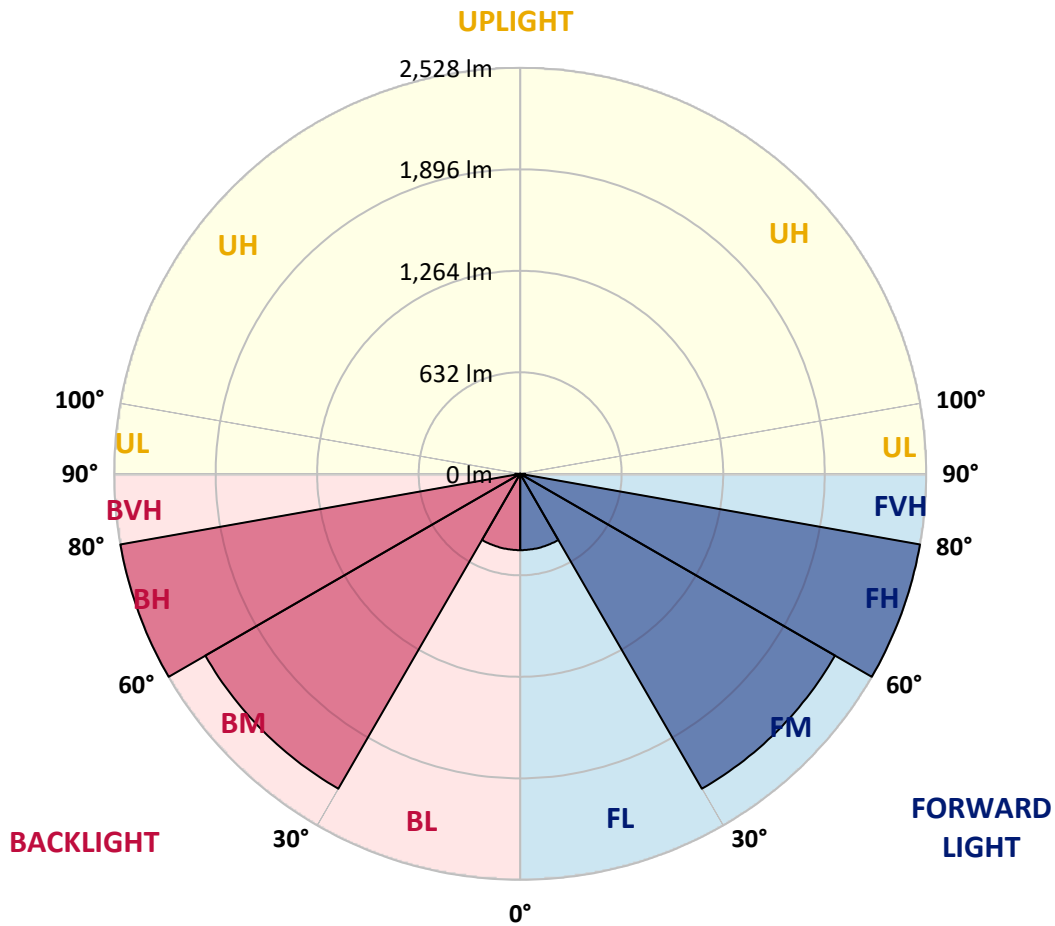
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.5	4.5			
FM (30°-60°)	2264.4	21.4			
FH (60°-80°)	2528.3	23.9			G2/5000
FVH (80°-90°)	30.4	0.3			G1/100
BL (0°-30°)	475.5	4.5	B1/500		
BM (30°-60°)	2264.4	21.4	B2/2500		
BH (60°-80°)	2528.3	23.9	B4/5000		G2/5000
BVH (80°-90°)	30.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1019.9	1020.9	1018.8	1017.7	1016.7	1015.1	1015.6	1018.3	1020.4	1019.9
5°	1028.4	1029.4	1027.9	1027.3	1025.2	1024.7	1024.7	1027.3	1028.9	1027.9
7.5°	1038.0	1039.6	1036.9	1036.4	1035.3	1034.2	1033.7	1036.4	1038.0	1038.0
10°	1047.0	1048.6	1046.5	1044.9	1043.8	1043.8	1042.7	1044.9	1047.5	1047.0
12.5°	1056.6	1057.6	1055.5	1054.5	1054.5	1056.0	1054.5	1055.5	1057.6	1056.6
15°	1068.3	1068.8	1068.3	1069.9	1072.5	1077.9	1073.1	1072.0	1073.1	1070.4
17.5°	1084.2	1085.3	1087.4	1091.2	1094.9	1104.5	1095.9	1093.3	1093.3	1088.0
20°	1103.9	1105.5	1108.7	1115.1	1119.9	1128.9	1120.4	1116.7	1115.1	1108.2
22.5°	1124.7	1127.3	1132.1	1140.6	1149.2	1157.7	1149.2	1142.8	1138.0	1128.9
25°	1148.6	1151.8	1159.3	1173.1	1184.8	1197.0	1186.9	1174.2	1164.6	1151.8
27.5°	1182.7	1186.4	1195.4	1212.5	1227.4	1238.0	1228.4	1211.9	1198.6	1183.2
30°	1230.5	1234.3	1244.9	1263.0	1273.1	1280.0	1273.6	1260.9	1244.9	1227.4
32.5°	1292.3	1297.1	1308.8	1325.8	1327.9	1329.0	1326.8	1320.5	1308.8	1287.5
35°	1370.5	1375.8	1389.1	1402.9	1400.8	1402.9	1399.7	1397.6	1389.1	1364.6
37.5°	1466.2	1472.6	1486.4	1497.1	1491.8	1489.1	1489.6	1490.2	1485.4	1458.3
40°	1577.4	1585.9	1596.0	1607.2	1598.2	1590.2	1595.5	1599.8	1595.5	1567.8
42.5°	1691.8	1704.0	1714.7	1730.6	1723.2	1713.1	1720.5	1725.3	1716.3	1686.5
45°	1819.0	1830.7	1844.5	1868.4	1863.1	1852.5	1863.1	1864.2	1848.7	1813.6
47.5°	1950.4	1962.6	1983.3	2015.3	2013.1	2001.4	2015.3	2007.8	1988.1	1946.1
50°	2074.9	2091.9	2123.8	2168.5	2172.7	2158.4	2177.0	2162.6	2129.7	2077.0
52.5°	2191.9	2210.0	2260.5	2321.2	2336.6	2318.0	2343.0	2318.0	2268.5	2200.9
55°	2314.8	2335.0	2395.1	2474.4	2505.3	2491.4	2514.8	2477.1	2406.8	2324.9
57.5°	2459.5	2471.7	2543.6	2637.7	2689.9	2693.1	2703.7	2639.9	2554.7	2461.6
60°	2616.4	2633.5	2711.7	2824.5	2906.9	2933.5	2922.4	2827.7	2728.7	2621.8
62.5°	2817.5	2836.2	2929.8	3064.9	3195.3	3261.2	3217.6	3080.4	2958.0	2829.8
65°	2984.1	3004.8	3174.0	3415.0	3652.3	3784.7	3675.2	3422.4	3202.2	3021.3
67.5°	2863.3	2888.8	3154.3	3596.9	4187.0	4582.2	4207.2	3651.2	3219.7	2974.5
70°	2502.6	2526.5	2836.2	3377.2	4337.5	5203.6	4428.0	3476.7	2846.3	2571.8
72.5°	1661.5	1738.6	2052.0	2701.0	3873.1	4815.3	3911.4	2646.2	1903.5	1657.8
75°	551.2	612.9	826.7	1400.3	2594.1	3601.2	2469.6	1239.1	654.9	471.4
77.5°	138.9	160.1	220.8	400.6	1034.8	2050.4	931.6	327.2	178.2	124.5
80°	67.6	74.5	106.4	133.5	259.1	651.7	243.1	125.6	84.1	64.9
82.5°	37.2	37.8	60.1	75.5	96.3	168.6	100.0	73.4	48.4	39.4
85°	22.9	22.3	31.9	40.4	40.4	60.1	47.9	40.4	27.7	24.5
87.5°	9.0	9.0	11.7	12.8	11.2	15.4	12.2	13.3	10.6	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1015.1
1020.4
1028.4
1038.0
1047.0
1056.0
1070.4
1088.0
1108.2
1128.4
1151.3
1182.7
1227.4
1288.0
1364.6
1458.3
1567.8
1688.6
1817.4
1943.4
2075.9
2194.6
2313.7
2448.9
2604.7
2807.4
2991.5
2937.8
2535.0
1604.0
445.8
111.2
59.6
39.4
25.5
10.6
0.0

OF REPORT)