

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: P946787

Luminaire Tested: **GALN-SB2B-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
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-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10420 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

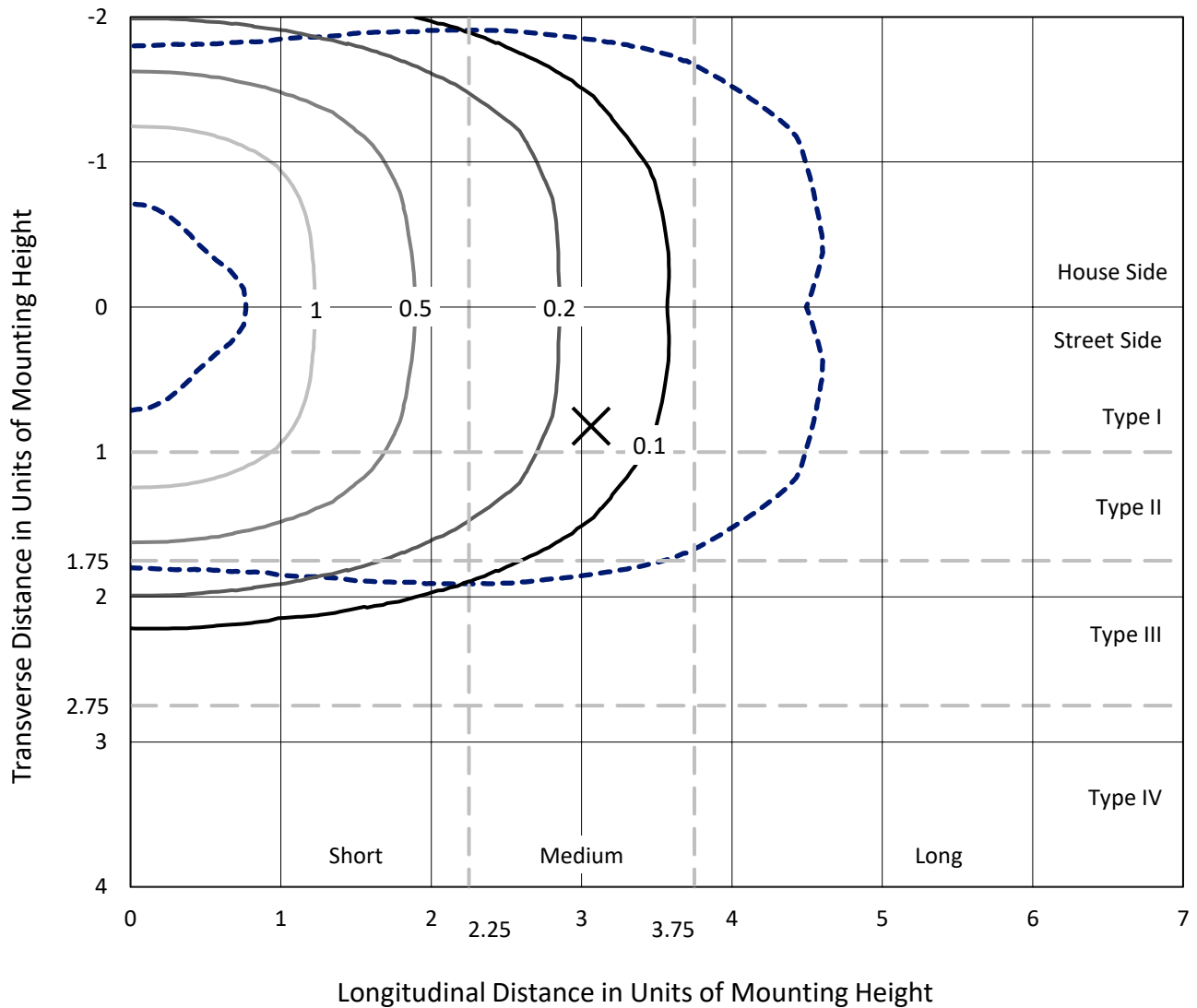
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

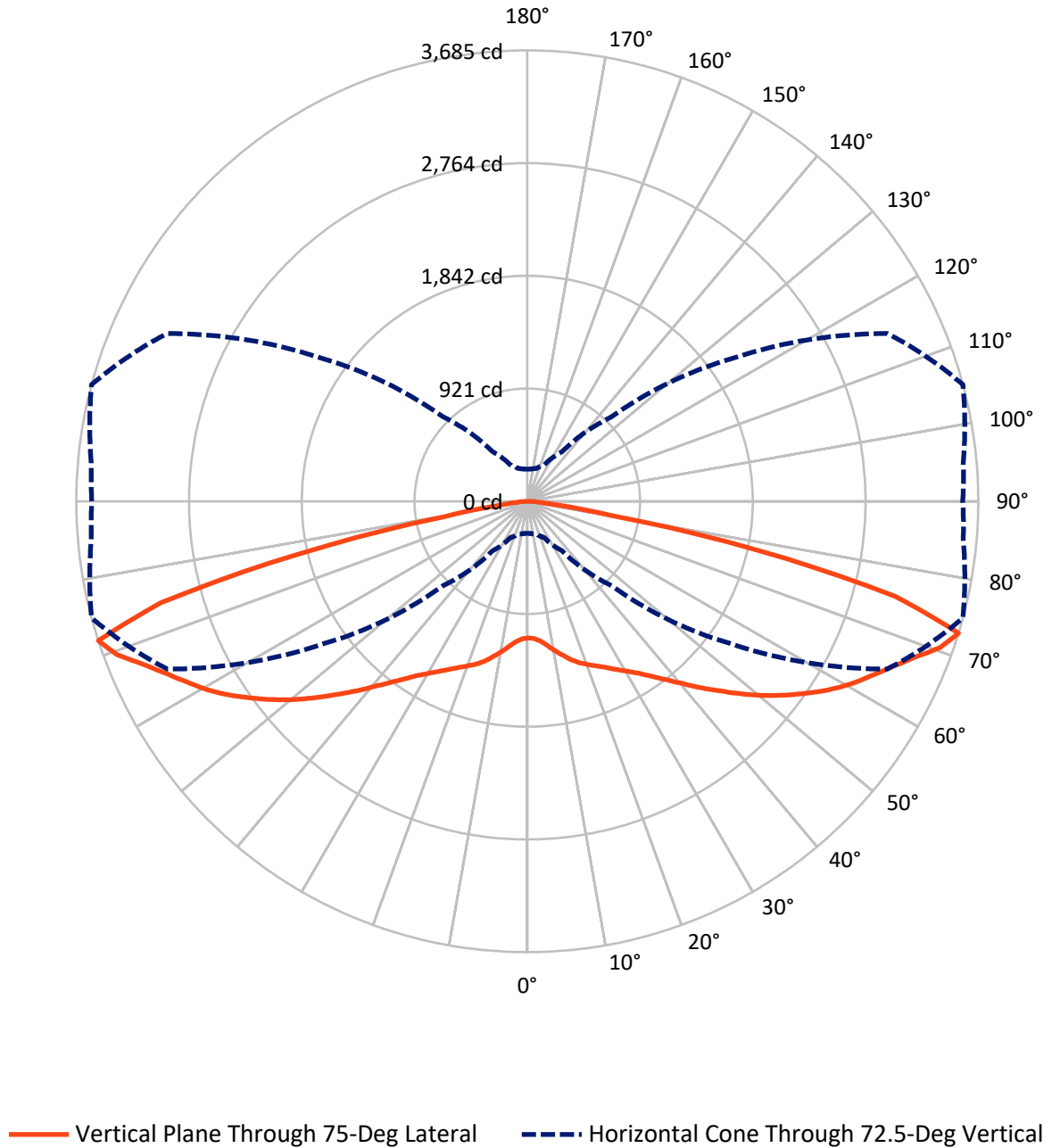
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5210.0	0.0	5210.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5210.0	0.0	5210.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10420.0	0.0	10420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	1.0
10°-20°	360.6	3.5
20°-30°	696.8	6.7
30°-40°	1176.6	11.3
40°-50°	1866.0	17.9
50°-60°	2498.3	24.0
60°-70°	2377.6	22.8
70°-80°	1240.7	11.9
80°-90°	93.9	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°	10420.0	100.0
0°-180°	10420.0	100.0

Coefficient of Utilization



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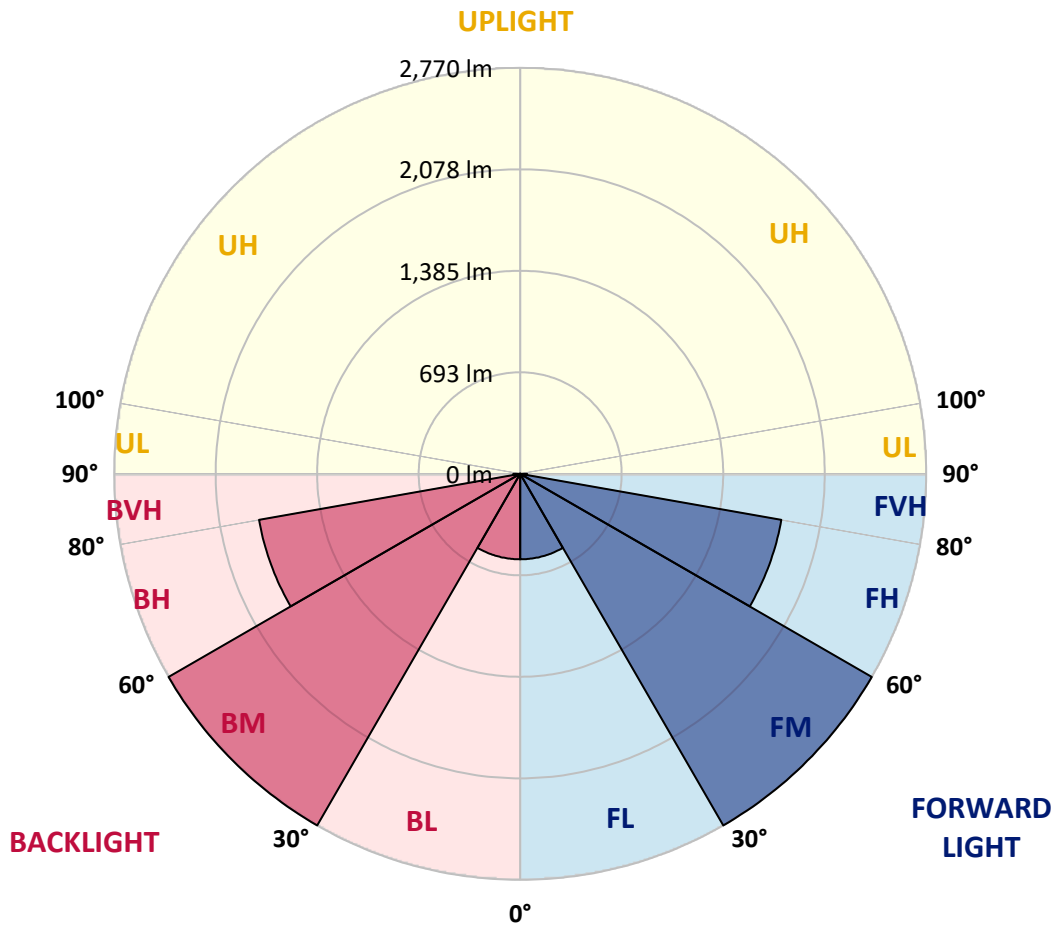
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.4	5.6			
FM (30°-60°)	2770.5	26.6			
FH (60°-80°)	1809.2	17.4			G2/5000
FVH (80°-90°)	47.0	0.5			G1/100
BL (0°-30°)	583.4	5.6	B2/1000		
BM (30°-60°)	2770.5	26.6	B3/5000		
BH (60°-80°)	1809.2	17.4	B3/2500		G3/2500
BVH (80°-90°)	47.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2
2.5°	1116.2	1115.1	1116.2	1117.2	1116.7	1116.7	1119.4	1121.0	1124.1	1123.6
5°	1108.7	1108.2	1112.4	1117.2	1121.0	1127.3	1135.3	1141.2	1148.6	1150.2
7.5°	1105.0	1103.4	1110.8	1119.4	1131.1	1147.0	1162.5	1178.4	1191.2	1195.4
10°	1107.7	1108.2	1118.3	1134.3	1152.9	1175.2	1197.0	1224.2	1242.3	1246.5
12.5°	1119.9	1118.8	1135.9	1161.4	1186.9	1215.1	1240.7	1270.5	1290.1	1300.2
15°	1142.2	1140.1	1164.0	1201.8	1239.1	1272.0	1292.8	1321.0	1343.9	1356.6
17.5°	1168.8	1169.9	1201.3	1250.2	1299.2	1336.4	1356.1	1370.5	1388.0	1399.2
20°	1215.7	1217.8	1252.9	1310.9	1366.7	1409.3	1425.3	1419.9	1424.7	1433.2
22.5°	1278.4	1279.5	1318.9	1381.6	1440.2	1487.0	1497.6	1475.8	1462.5	1468.4
25°	1351.3	1358.2	1397.6	1462.0	1522.1	1566.8	1571.6	1538.6	1505.6	1507.2
27.5°	1440.2	1446.6	1486.5	1550.3	1611.5	1650.3	1649.8	1605.6	1557.2	1545.0
30°	1536.5	1543.4	1584.3	1650.3	1707.2	1741.3	1733.8	1681.2	1612.0	1589.1
32.5°	1650.8	1655.1	1696.6	1762.6	1815.2	1842.4	1826.9	1762.0	1675.8	1649.8
35°	1789.2	1795.6	1826.4	1888.7	1934.9	1957.3	1931.2	1854.6	1757.8	1728.5
37.5°	1947.2	1942.9	1978.0	2033.4	2071.7	2085.5	2049.9	1958.9	1851.4	1816.8
40°	2112.1	2110.0	2148.3	2201.5	2222.2	2230.7	2178.1	2078.6	1959.4	1922.2
42.5°	2261.6	2260.0	2311.6	2370.7	2395.7	2386.1	2319.6	2205.7	2084.4	2041.9
45°	2381.3	2379.2	2442.5	2525.5	2574.4	2558.5	2469.1	2346.2	2211.1	2166.9
47.5°	2473.3	2474.4	2542.5	2645.2	2730.8	2736.7	2621.8	2489.3	2350.4	2300.4
50°	2539.8	2543.0	2615.9	2729.8	2846.8	2898.4	2777.7	2636.1	2494.6	2438.2
52.5°	2556.3	2562.2	2650.0	2783.5	2921.3	3019.7	2936.2	2777.1	2631.3	2577.6
55°	2468.6	2480.3	2591.4	2779.2	2967.1	3099.5	3075.6	2920.2	2769.1	2713.8
57.5°	2266.9	2283.4	2413.2	2658.5	2956.9	3154.3	3183.6	3057.5	2906.9	2853.7
60°	1984.4	2004.1	2128.6	2396.2	2814.4	3174.5	3259.7	3191.0	3033.6	2981.9
62.5°	1558.3	1583.8	1732.8	2046.7	2513.2	3080.4	3324.6	3311.8	3147.4	3083.0
65°	999.7	1026.8	1183.7	1554.5	2111.6	2792.0	3344.8	3429.4	3267.6	3177.7
67.5°	602.8	615.0	692.7	942.2	1543.4	2357.4	3173.5	3559.7	3408.1	3296.4
70°	385.7	392.6	438.9	553.3	872.5	1720.0	2748.9	3584.2	3578.3	3418.2
72.5°	261.8	263.9	276.1	327.7	493.7	977.3	2027.5	3244.8	3684.7	3575.1
75°	191.5	203.2	222.9	232.0	280.4	488.4	1161.9	2279.7	3105.4	3153.3
77.5°	142.6	143.1	170.2	180.9	200.0	260.2	491.6	1272.6	1928.0	2024.3
80°	120.8	114.4	113.9	145.8	150.6	162.3	219.7	439.4	690.6	418.7
82.5°	100.6	93.6	84.6	113.9	102.7	99.5	95.2	178.8	219.7	108.0
85°	70.2	67.0	63.8	74.5	58.5	50.0	45.8	83.5	92.6	45.8
87.5°	30.3	31.4	31.9	33.0	24.5	17.6	17.6	23.4	23.4	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1116.2
1123.1
1150.2
1196.5
1250.8
1304.5
1361.4
1404.5
1439.6
1472.6
1509.9
1548.7
1591.8
1656.2
1732.8
1823.2
1934.4
2052.5
2177.0
2315.3
2455.3
2591.4
2729.2
2866.0
2993.1
3090.5
3188.9
3304.9
3417.1
3558.1
3037.3
1805.7
316.5
92.0
40.4
13.3
0.0

OF REPORT)