

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: P940910

Luminaire Tested: **GALN-SB4A-950-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-950-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12650 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

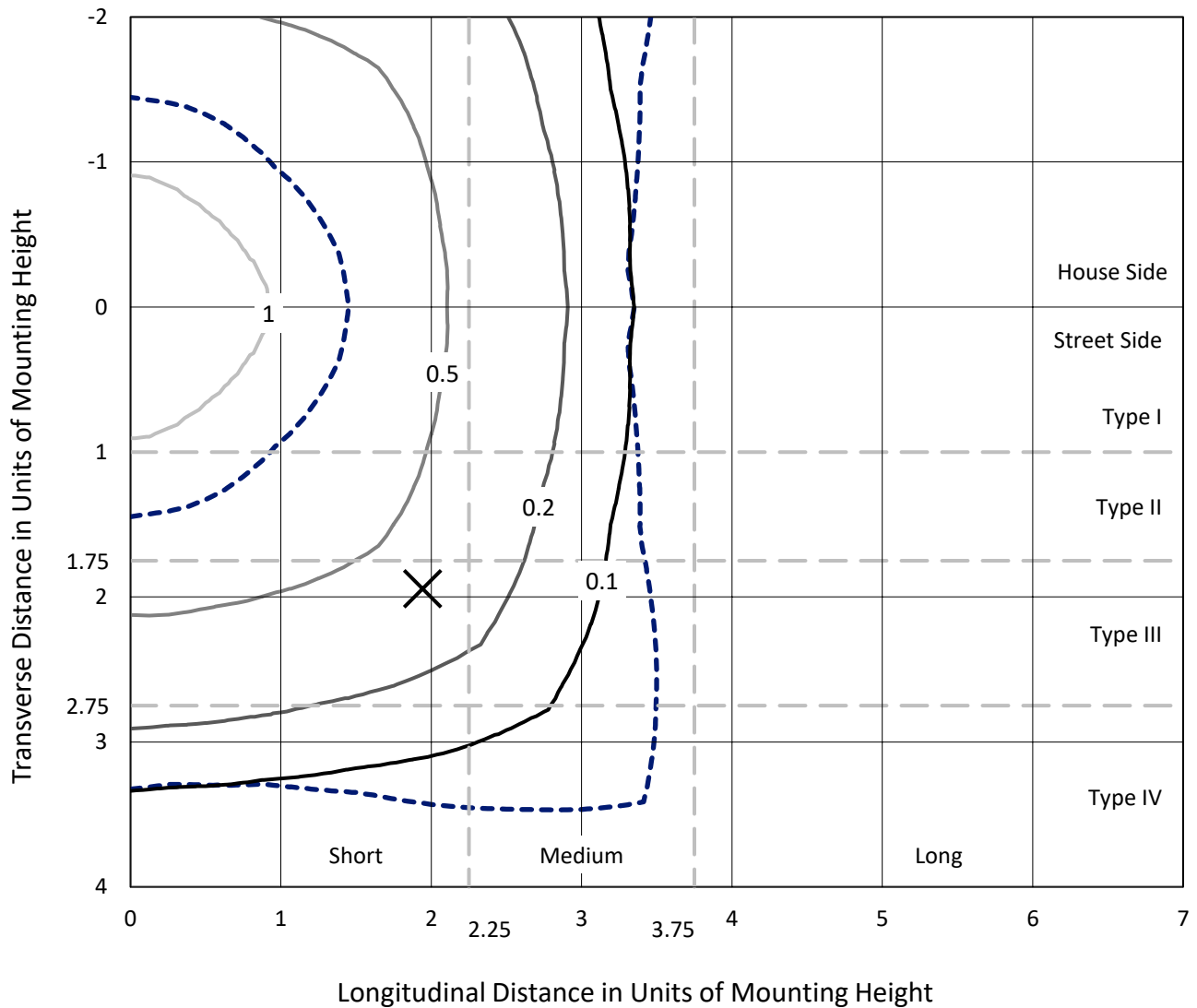
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

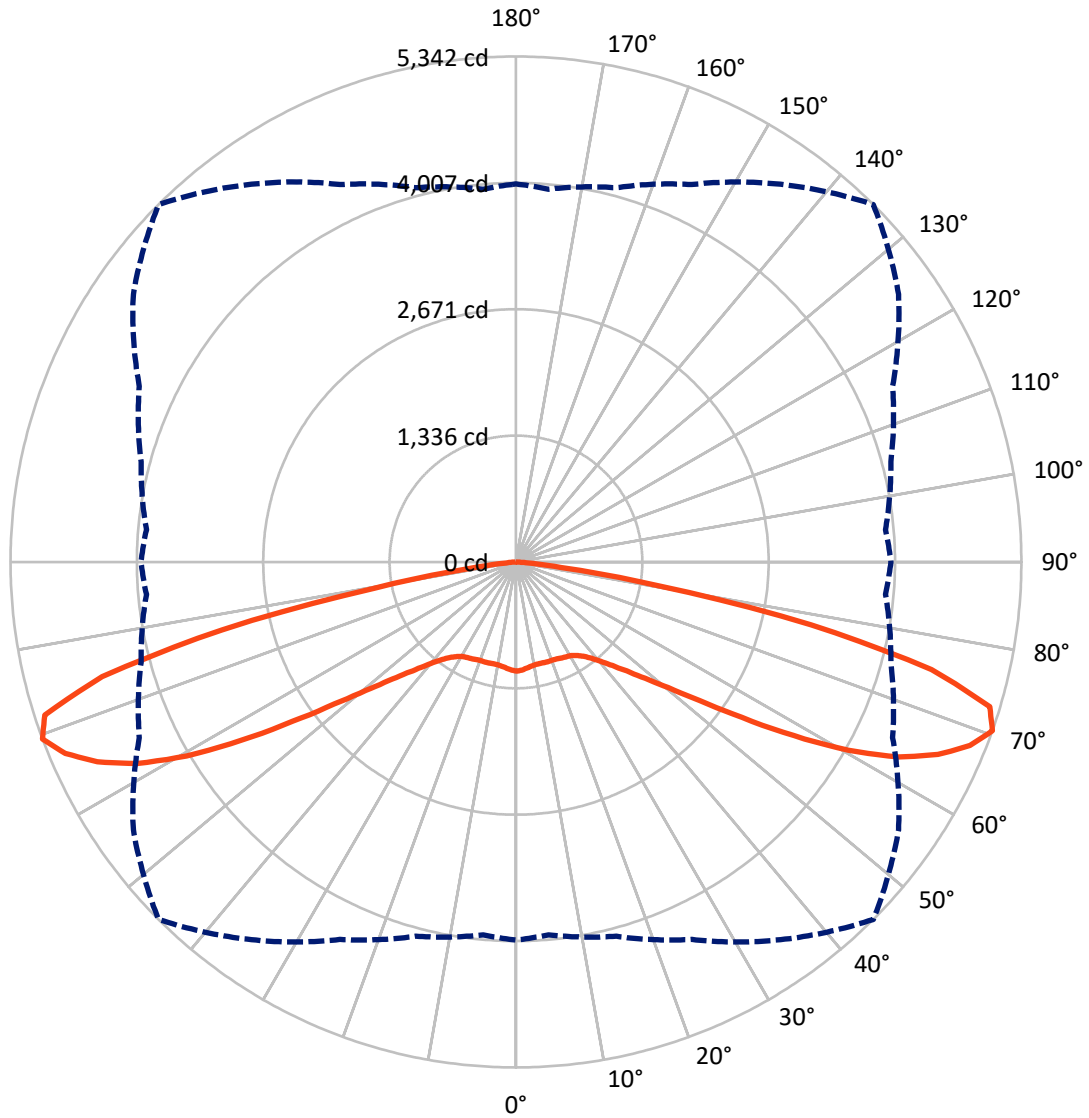
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	6325.0	0.0	6325.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6325.0	0.0	6325.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12650.0	0.0	12650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	0.8
10°-20°	315.2	2.5
20°-30°	524.5	4.1
30°-40°	793.2	6.3
40°-50°	1318.2	10.4
50°-60°	2487.3	19.7
60°-70°	4199.9	33.2
70°-80°	2759.8	21.8
80°-90°	144.6	1.1
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°	12650.0	100.0
0°-180°	12650.0	100.0

Coefficient of Utilization



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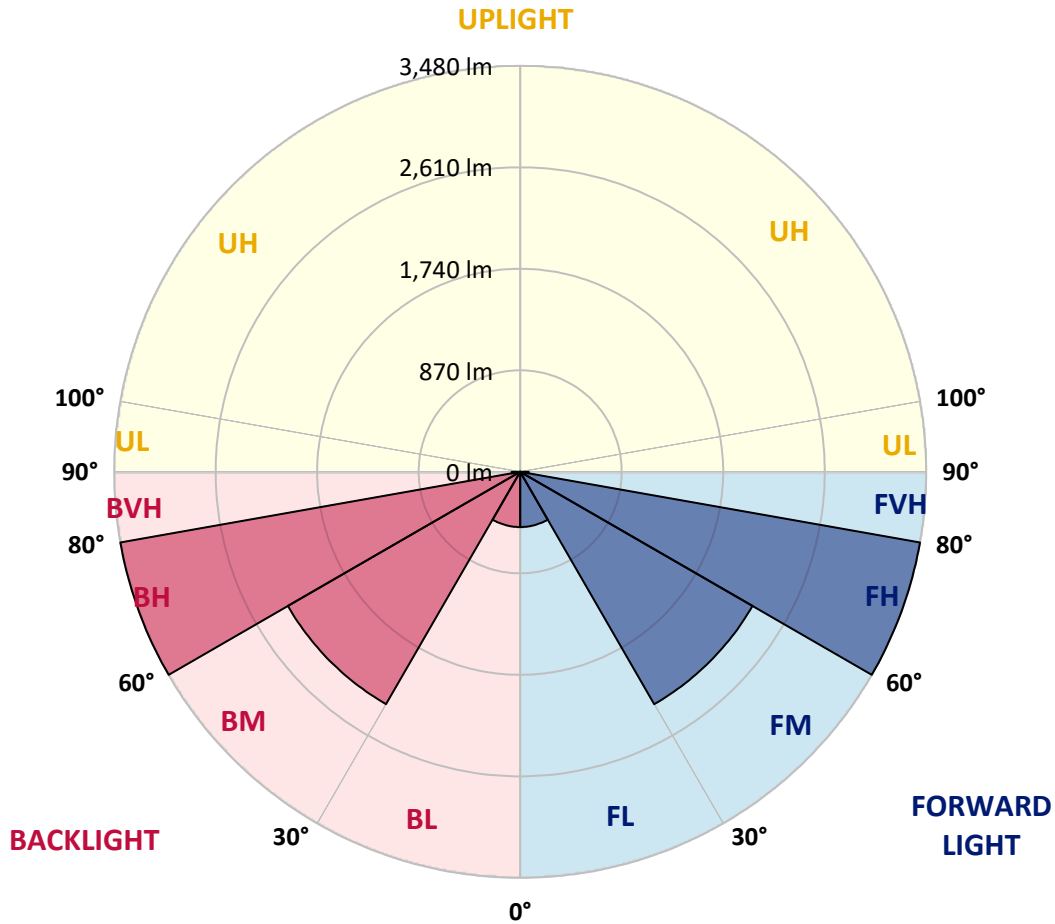
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.5	3.7			
FM (30°-60°)	2299.3	18.2			
FH (60°-80°)	3479.8	27.5			G2/5000
FVH (80°-90°)	72.3	0.6			G1/100
BL (0°-30°)	473.5	3.7	B1/500		
BM (30°-60°)	2299.3	18.2	B2/2500		
BH (60°-80°)	3479.8	27.5	B4/5000		G2/5000
BVH (80°-90°)	72.3	0.6			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°	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9	1153.9
2.5°	1146.7	1150.0	1148.7	1146.0	1146.0	1144.1	1146.0	1147.4	1149.3	1150.6
5°	1131.6	1134.2	1133.6	1131.6	1132.2	1130.3	1131.6	1133.6	1134.9	1135.5
7.5°	1118.4	1121.1	1119.7	1116.5	1116.5	1114.5	1115.1	1117.1	1119.1	1119.7
10°	1115.1	1117.8	1113.8	1108.6	1106.6	1104.0	1104.6	1106.6	1110.5	1112.5
12.5°	1116.5	1118.4	1114.5	1106.6	1104.6	1102.0	1102.0	1104.0	1109.2	1111.9
15°	1120.4	1122.4	1116.5	1107.9	1105.9	1104.0	1103.3	1105.9	1111.9	1116.5
17.5°	1127.6	1129.6	1120.4	1108.6	1105.9	1106.6	1105.9	1107.9	1117.1	1125.7
20°	1134.2	1135.5	1123.0	1108.6	1105.9	1106.6	1105.9	1109.9	1121.7	1133.6
22.5°	1136.2	1137.5	1125.7	1113.2	1111.2	1111.9	1111.2	1115.1	1126.3	1138.2
25°	1136.8	1138.8	1129.6	1119.7	1123.0	1124.3	1123.0	1123.7	1132.2	1142.8
27.5°	1146.7	1149.3	1140.8	1132.2	1134.2	1133.6	1135.5	1137.5	1144.1	1154.6
30°	1167.1	1169.1	1161.8	1153.3	1152.0	1147.4	1153.3	1159.9	1167.1	1176.3
32.5°	1200.6	1204.6	1195.4	1186.2	1180.2	1177.6	1182.2	1193.4	1203.2	1213.1
35°	1256.5	1259.1	1250.6	1233.5	1223.0	1223.0	1226.9	1241.4	1257.2	1269.7
37.5°	1335.4	1338.7	1323.6	1303.2	1287.4	1287.4	1292.7	1307.8	1331.5	1349.2
40°	1431.4	1436.0	1416.9	1395.9	1380.8	1378.1	1384.7	1401.8	1424.2	1446.5
42.5°	1547.1	1552.4	1527.4	1509.0	1497.2	1497.2	1500.4	1516.2	1536.6	1564.2
45°	1695.1	1704.3	1670.1	1651.7	1640.5	1643.1	1645.1	1658.9	1677.3	1708.9
47.5°	1871.3	1880.5	1844.3	1825.3	1823.3	1835.8	1827.9	1837.7	1847.6	1883.8
50°	2071.2	2086.9	2062.0	2060.6	2064.6	2087.6	2069.2	2074.5	2063.3	2086.3
52.5°	2315.8	2338.8	2334.2	2342.1	2386.1	2433.5	2391.4	2373.0	2330.9	2338.1
55°	2612.3	2647.1	2653.7	2701.1	2801.0	2897.7	2808.2	2733.9	2644.5	2628.1
57.5°	2949.6	2977.2	3008.8	3105.4	3292.2	3463.8	3292.2	3127.8	2987.1	2953.5
60°	3312.5	3346.7	3377.0	3519.7	3797.1	4038.4	3791.9	3530.8	3344.8	3299.4
62.5°	3702.5	3746.5	3767.5	3926.0	4249.5	4537.5	4254.1	3937.8	3731.4	3682.7
65°	4076.6	4112.7	4136.4	4305.4	4614.4	4903.1	4635.5	4323.8	4111.4	4047.6
67.5°	4250.8	4270.5	4328.4	4519.7	4845.9	5175.3	4901.1	4540.1	4302.8	4191.0
70°	3995.7	3955.6	4095.0	4401.4	4873.5	5342.3	4936.6	4392.2	4101.6	3920.1
72.5°	3087.7	3018.6	3260.6	3784.6	4557.9	5235.8	4589.4	3814.2	3411.2	3043.0
75°	1679.9	1601.7	1935.7	2598.5	3634.7	4538.2	3718.2	2672.8	2155.3	1667.5
77.5°	474.1	444.5	714.1	1257.2	2186.2	3186.3	2270.4	1284.8	846.9	502.3
80°	145.3	140.7	190.7	378.7	928.4	1526.1	892.2	383.3	242.6	153.2
82.5°	86.1	78.9	94.7	138.1	236.7	479.3	230.1	144.0	115.7	77.6
85°	49.3	46.0	55.9	67.1	79.6	101.9	66.4	68.4	61.8	41.4
87.5°	20.4	18.4	21.7	21.0	18.4	23.7	17.8	21.0	25.0	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1153.9
1150.0
1135.5
1119.7
1112.5
1112.5
1117.1
1125.7
1134.2
1138.2
1142.1
1152.0
1174.3
1209.2
1265.1
1342.6
1439.3
1562.3
1707.6
1873.3
2072.5
2313.8
2602.4
2929.9
3259.9
3643.3
4016.1
4192.3
3963.5
3134.4
1775.9
558.2
161.7
84.2
43.4
15.1
0.0

OF REPORT)