

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: P939830

Luminaire Tested: **GALN-SB2C-840-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939830
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-SB2C-840-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14491 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

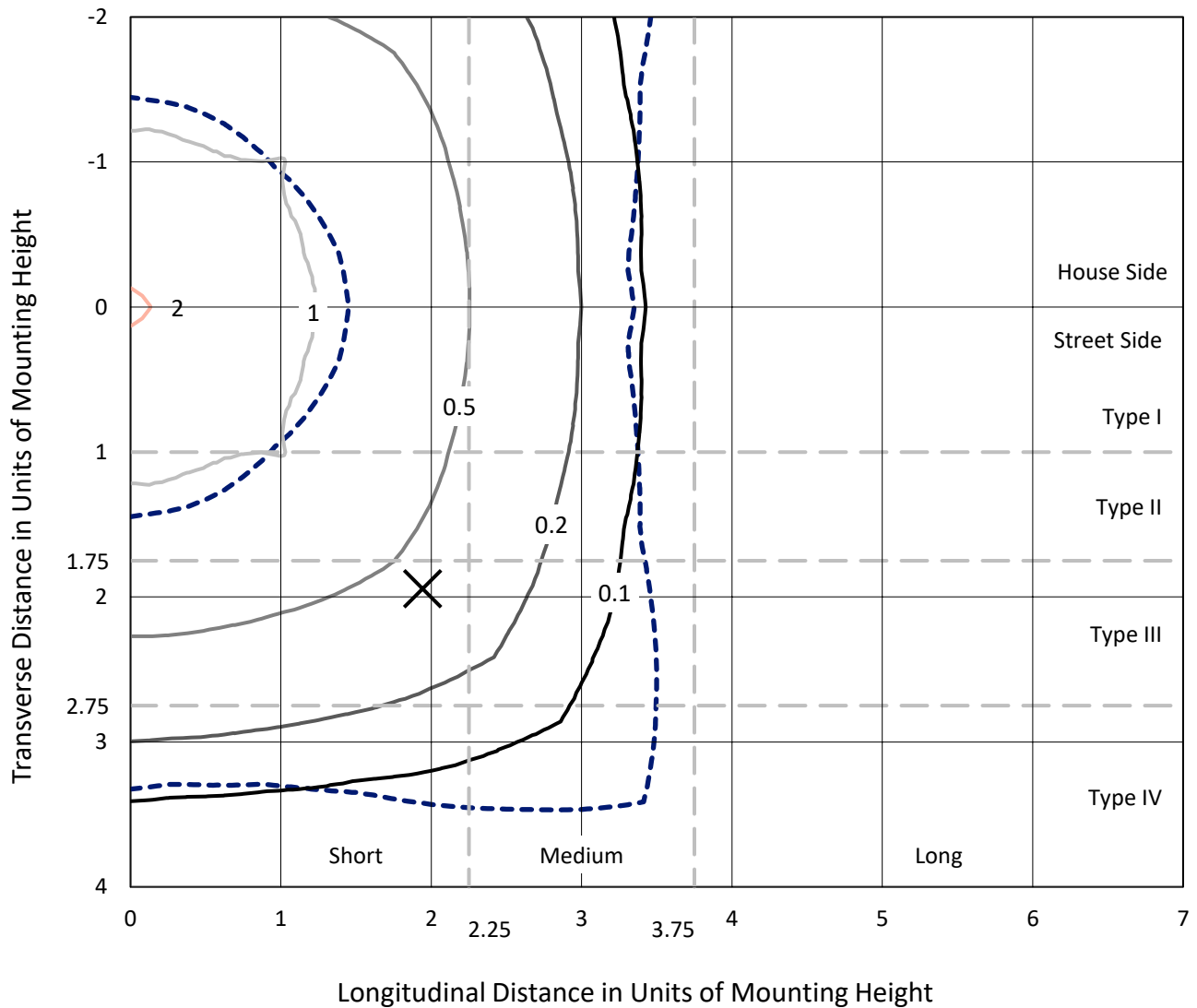
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

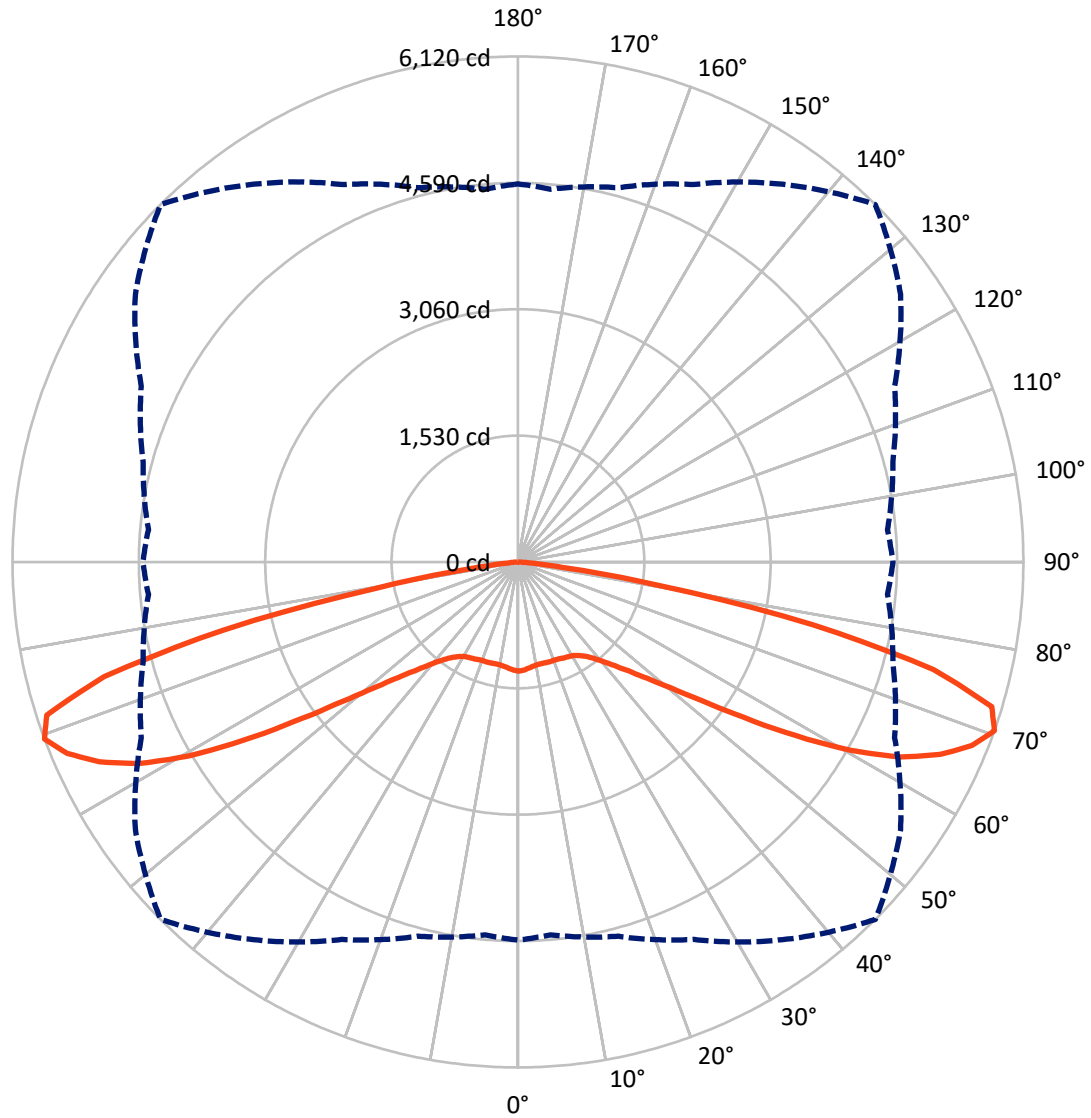
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	7245.5	0.0	7245.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7245.5	0.0	7245.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14491.0	0.0	14491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	0.8
10°-20°	361.1	2.5
20°-30°	600.8	4.1
30°-40°	908.7	6.3
40°-50°	1510.0	10.4
50°-60°	2849.3	19.7
60°-70°	4811.1	33.2
70°-80°	3161.4	21.8
80°-90°	165.6	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°	14491.0	100.0
0°-180°	14491.0	100.0

Coefficient of Utilization



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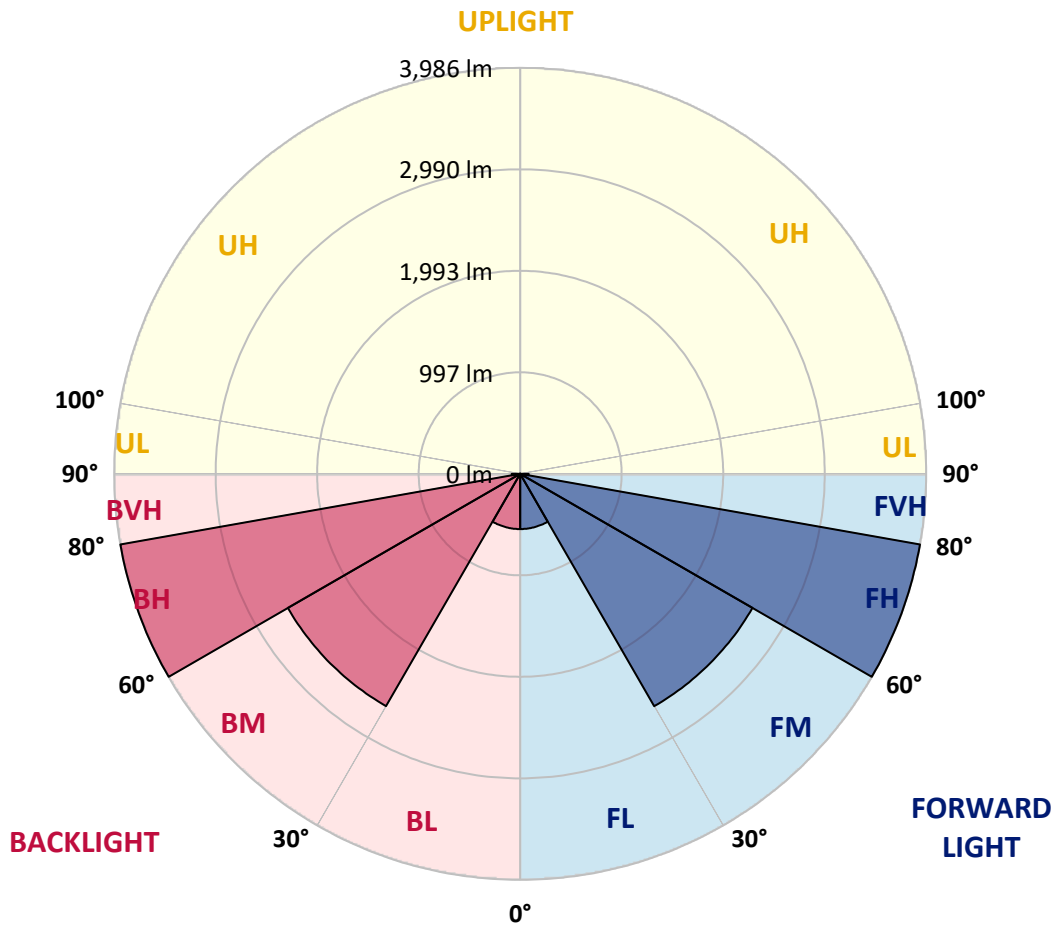
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	542.4	3.7			
FM (30°-60°)	2634.0	18.2			
FH (60°-80°)	3986.3	27.5			G2/5000
FVH (80°-90°)	82.8	0.6			G1/100
BL (0°-30°)	542.4	3.7	B2/1000		
BM (30°-60°)	2634.0	18.2	B3/5000		
BH (60°-80°)	3986.3	27.5	B4/5000		G2/5000
BVH (80°-90°)	82.8	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°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
2.5°	1313.6	1317.4	1315.8	1312.8	1312.8	1310.6	1312.8	1314.3	1316.6	1318.1
5°	1296.3	1299.3	1298.5	1296.3	1297.0	1294.8	1296.3	1298.5	1300.0	1300.8
7.5°	1281.2	1284.2	1282.7	1278.9	1278.9	1276.7	1277.4	1279.7	1282.0	1282.7
10°	1277.4	1280.4	1275.9	1269.9	1267.6	1264.6	1265.4	1267.6	1272.2	1274.4
12.5°	1278.9	1281.2	1276.7	1267.6	1265.4	1262.4	1262.4	1264.6	1270.7	1273.7
15°	1283.5	1285.7	1278.9	1269.1	1266.9	1264.6	1263.9	1266.9	1273.7	1278.9
17.5°	1291.7	1294.0	1283.5	1269.9	1266.9	1267.6	1266.9	1269.1	1279.7	1289.5
20°	1299.3	1300.8	1286.5	1269.9	1266.9	1267.6	1266.9	1271.4	1285.0	1298.5
22.5°	1301.5	1303.0	1289.5	1275.2	1272.9	1273.7	1272.9	1277.4	1290.2	1303.8
25°	1302.3	1304.5	1294.0	1282.7	1286.5	1288.0	1286.5	1287.2	1297.0	1309.1
27.5°	1313.6	1316.6	1306.8	1297.0	1299.3	1298.5	1300.8	1303.0	1310.6	1322.6
30°	1336.9	1339.2	1330.9	1321.1	1319.6	1314.3	1321.1	1328.6	1336.9	1347.5
32.5°	1375.3	1379.9	1369.3	1358.8	1352.0	1349.0	1354.3	1367.1	1378.4	1389.7
35°	1439.4	1442.4	1432.6	1413.0	1401.0	1401.0	1405.5	1422.0	1440.1	1454.4
37.5°	1529.8	1533.5	1516.2	1492.8	1474.8	1474.8	1480.8	1498.1	1525.2	1545.6
40°	1639.7	1645.0	1623.2	1599.0	1581.7	1578.7	1586.2	1605.8	1631.4	1657.0
42.5°	1772.3	1778.3	1749.7	1728.6	1715.0	1715.0	1718.8	1736.9	1760.2	1791.9
45°	1941.8	1952.3	1913.1	1892.0	1879.2	1882.3	1884.5	1900.3	1921.4	1957.6
47.5°	2143.6	2154.2	2112.7	2090.9	2088.6	2102.9	2093.9	2105.2	2116.5	2157.9
50°	2372.6	2390.7	2362.0	2360.5	2365.1	2391.4	2370.3	2376.4	2363.6	2389.9
52.5°	2652.8	2679.1	2673.9	2682.9	2733.4	2787.6	2739.4	2718.3	2670.1	2678.4
55°	2992.5	3032.4	3039.9	3094.2	3208.6	3319.4	3216.9	3131.8	3029.4	3010.6
57.5°	3378.9	3410.5	3446.7	3557.4	3771.3	3967.9	3771.3	3583.0	3421.8	3383.4
60°	3794.6	3833.8	3868.4	4031.9	4349.7	4626.2	4343.7	4044.7	3831.5	3779.6
62.5°	4241.3	4291.7	4315.9	4497.4	4867.9	5197.9	4873.2	4510.9	4274.4	4218.7
65°	4669.9	4711.3	4738.4	4932.0	5286.0	5616.6	5310.1	4953.1	4709.8	4636.7
67.5°	4869.5	4892.1	4958.3	5177.5	5551.1	5928.5	5614.4	5200.9	4929.0	4800.9
70°	4577.2	4531.3	4690.9	5041.9	5582.7	6119.8	5655.0	5031.4	4698.5	4490.6
72.5°	3537.0	3458.0	3735.1	4335.4	5221.2	5997.8	5257.4	4369.3	3907.6	3485.8
75°	1924.4	1834.8	2217.4	2976.7	4163.7	5198.6	4259.4	3061.8	2469.0	1910.1
77.5°	543.1	509.2	818.0	1440.1	2504.4	3650.0	2600.8	1471.8	970.1	575.4
80°	166.5	161.2	218.4	433.8	1063.5	1748.2	1022.1	439.1	277.9	175.5
82.5°	98.7	90.4	108.5	158.2	271.2	549.1	263.6	165.0	132.6	88.9
85°	56.5	52.7	64.0	76.8	91.1	116.7	76.1	78.3	70.8	47.5
87.5°	23.3	21.1	24.9	24.1	21.1	27.1	20.3	24.1	28.6	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1321.9
1317.4
1300.8
1282.7
1274.4
1274.4
1279.7
1289.5
1299.3
1303.8
1308.3
1319.6
1345.2
1385.1
1449.2
1538.0
1648.8
1789.6
1956.1
2145.9
2374.1
2650.5
2981.2
3356.3
3734.4
4173.5
4600.6
4802.4
4540.3
3590.5
2034.4
639.5
185.3
96.4
49.7
17.3
0.0

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