

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: P941040

Luminaire Tested: **GALN-SB4B-927-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941040
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-SB4B-927-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13895 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

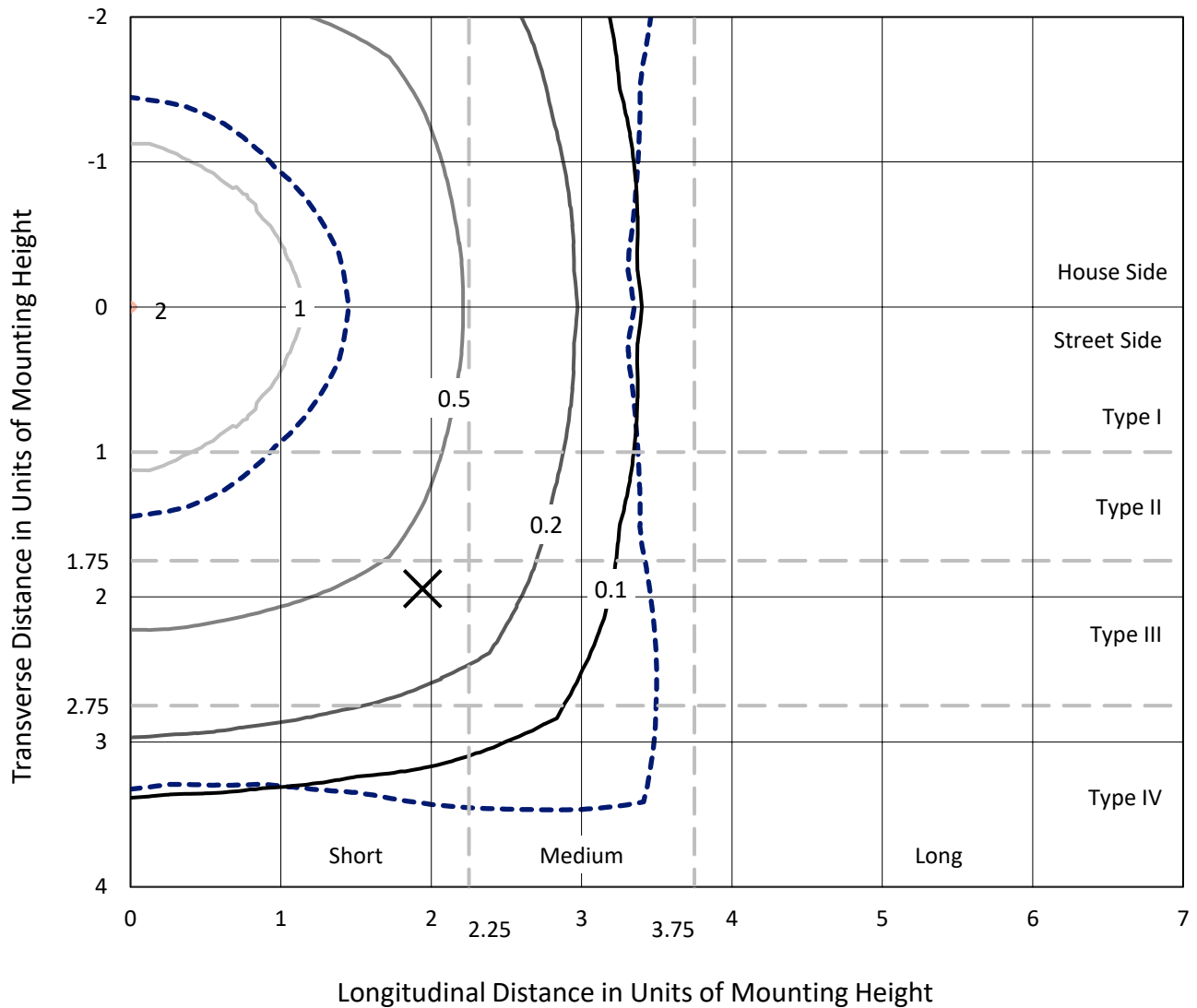
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

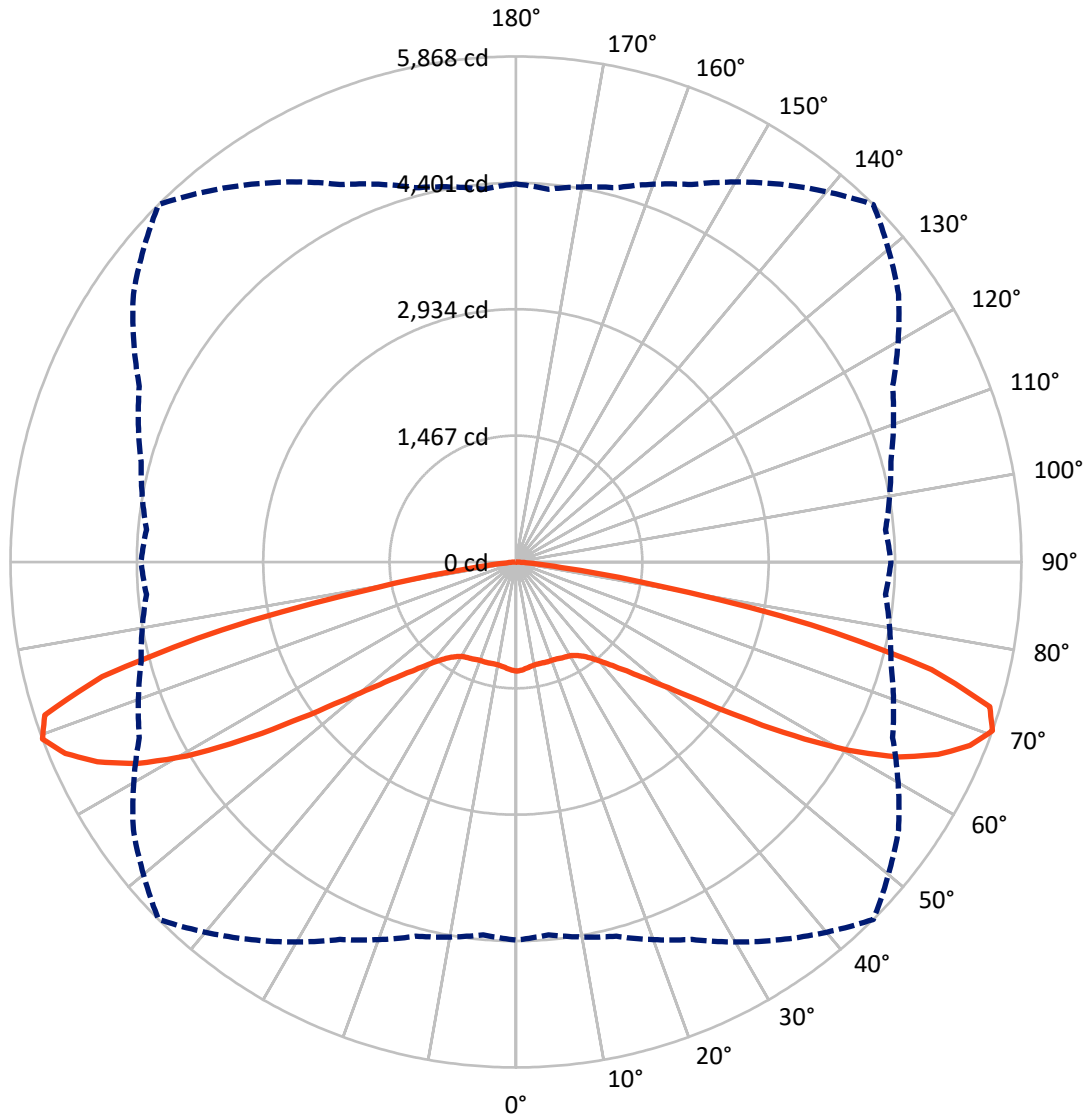
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type 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	6947.5	0.0	6947.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6947.5	0.0	6947.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13895.0	0.0	13895.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	0.8
10°-20°	346.2	2.5
20°-30°	576.1	4.1
30°-40°	871.3	6.3
40°-50°	1447.9	10.4
50°-60°	2732.1	19.7
60°-70°	4613.3	33.2
70°-80°	3031.4	21.8
80°-90°	158.8	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°	13895.0	100.0
0°-180°	13895.0	100.0



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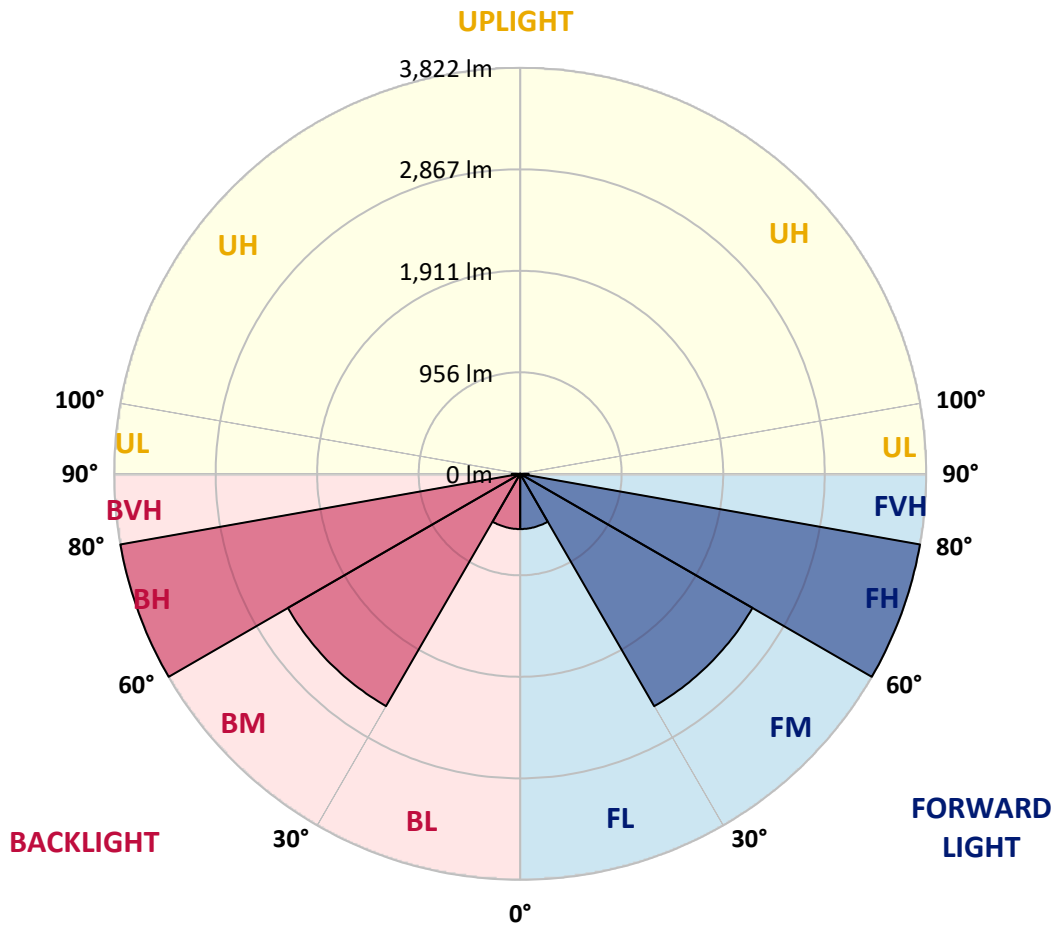
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.1	3.7			
FM (30°-60°)	2525.6	18.2			
FH (60°-80°)	3822.3	27.5			G2/5000
FVH (80°-90°)	79.4	0.6			G1/100
BL (0°-30°)	520.1	3.7	B2/1000		
BM (30°-60°)	2525.6	18.2	B3/5000		
BH (60°-80°)	3822.3	27.5	B4/5000		G2/5000
BVH (80°-90°)	79.4	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°	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5
2.5°	1259.6	1263.2	1261.7	1258.8	1258.8	1256.7	1258.8	1260.3	1262.4	1263.9
5°	1242.9	1245.8	1245.1	1242.9	1243.7	1241.5	1242.9	1245.1	1246.6	1247.3
7.5°	1228.5	1231.4	1229.9	1226.3	1226.3	1224.2	1224.9	1227.1	1229.2	1229.9
10°	1224.9	1227.8	1223.4	1217.7	1215.5	1212.6	1213.3	1215.5	1219.8	1222.0
12.5°	1226.3	1228.5	1224.2	1215.5	1213.3	1210.4	1210.4	1212.6	1218.4	1221.3
15°	1230.7	1232.8	1226.3	1216.9	1214.8	1212.6	1211.9	1214.8	1221.3	1226.3
17.5°	1238.6	1240.8	1230.7	1217.7	1214.8	1215.5	1214.8	1216.9	1227.1	1236.4
20°	1245.8	1247.3	1233.6	1217.7	1214.8	1215.5	1214.8	1219.1	1232.1	1245.1
22.5°	1248.0	1249.4	1236.4	1222.7	1220.6	1221.3	1220.6	1224.9	1237.2	1250.2
25°	1248.7	1250.9	1240.8	1229.9	1233.6	1235.0	1233.6	1234.3	1243.7	1255.2
27.5°	1259.6	1262.4	1253.1	1243.7	1245.8	1245.1	1247.3	1249.4	1256.7	1268.2
30°	1281.9	1284.1	1276.2	1266.8	1265.3	1260.3	1266.8	1274.0	1281.9	1292.1
32.5°	1318.8	1323.1	1313.0	1302.9	1296.4	1293.5	1298.6	1310.8	1321.7	1332.5
35°	1380.2	1383.1	1373.7	1354.9	1343.3	1343.3	1347.7	1363.6	1380.9	1394.6
37.5°	1466.8	1470.4	1453.8	1431.4	1414.1	1414.1	1419.9	1436.5	1462.5	1482.0
40°	1572.3	1577.3	1556.4	1533.3	1516.7	1513.8	1521.0	1539.8	1564.3	1588.9
42.5°	1699.4	1705.2	1677.7	1657.5	1644.5	1644.5	1648.1	1665.4	1687.8	1718.2
45°	1861.9	1872.0	1834.4	1814.2	1801.9	1804.8	1807.0	1822.2	1842.4	1877.1
47.5°	2055.5	2065.6	2025.8	2004.9	2002.7	2016.5	2007.8	2018.6	2029.5	2069.2
50°	2275.0	2292.3	2264.9	2263.5	2267.8	2293.1	2272.8	2278.6	2266.3	2291.6
52.5°	2543.7	2569.0	2563.9	2572.6	2621.0	2673.0	2626.7	2606.5	2560.3	2568.2
55°	2869.4	2907.7	2914.9	2966.9	3076.7	3182.8	3084.6	3003.0	2904.8	2886.7
57.5°	3239.9	3270.2	3304.9	3411.1	3616.2	3804.7	3616.2	3435.6	3281.1	3244.2
60°	3638.6	3676.1	3709.3	3866.1	4170.8	4435.9	4165.1	3878.3	3674.0	3624.1
62.5°	4066.8	4115.2	4138.3	4312.4	4667.7	4984.1	4672.8	4325.4	4098.6	4045.2
65°	4477.8	4517.5	4543.5	4729.1	5068.6	5385.6	5091.7	4749.3	4516.1	4446.0
67.5°	4669.2	4690.8	4754.4	4964.6	5322.8	5684.6	5383.5	4987.0	4726.2	4603.5
70°	4389.0	4344.9	4498.0	4834.6	5353.1	5868.1	5422.5	4824.5	4505.2	4305.9
72.5°	3391.6	3315.7	3581.5	4157.1	5006.5	5751.1	5041.1	4189.6	3746.9	3342.5
75°	1845.3	1759.3	2126.2	2854.2	3992.5	4984.8	4084.2	2935.8	2367.5	1831.6
77.5°	520.7	488.2	784.3	1380.9	2401.4	3499.9	2493.8	1411.2	930.2	551.8
80°	159.6	154.6	209.4	416.0	1019.8	1676.3	980.1	421.1	266.5	168.3
82.5°	94.6	86.7	104.0	151.7	260.0	526.5	252.8	158.2	127.1	85.2
85°	54.2	50.6	61.4	73.7	87.4	111.9	72.9	75.1	67.9	45.5
87.5°	22.4	20.2	23.8	23.1	20.2	26.0	19.5	23.1	27.4	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

<u>90°</u>
1267.5
1263.2
1247.3
1229.9
1222.0
1222.0
1227.1
1236.4
1245.8
1250.2
1254.5
1265.3
1289.9
1328.2
1389.6
1474.8
1580.9
1716.0
1875.6
2057.6
2276.5
2541.5
2858.6
3218.2
3580.8
4001.8
4411.3
4604.9
4353.6
3442.8
1950.7
613.2
177.7
92.4
47.7
16.6
0.0

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