

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: P947833

Luminaire Tested: **GALN-SB3A-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947833
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-SB3A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12256 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

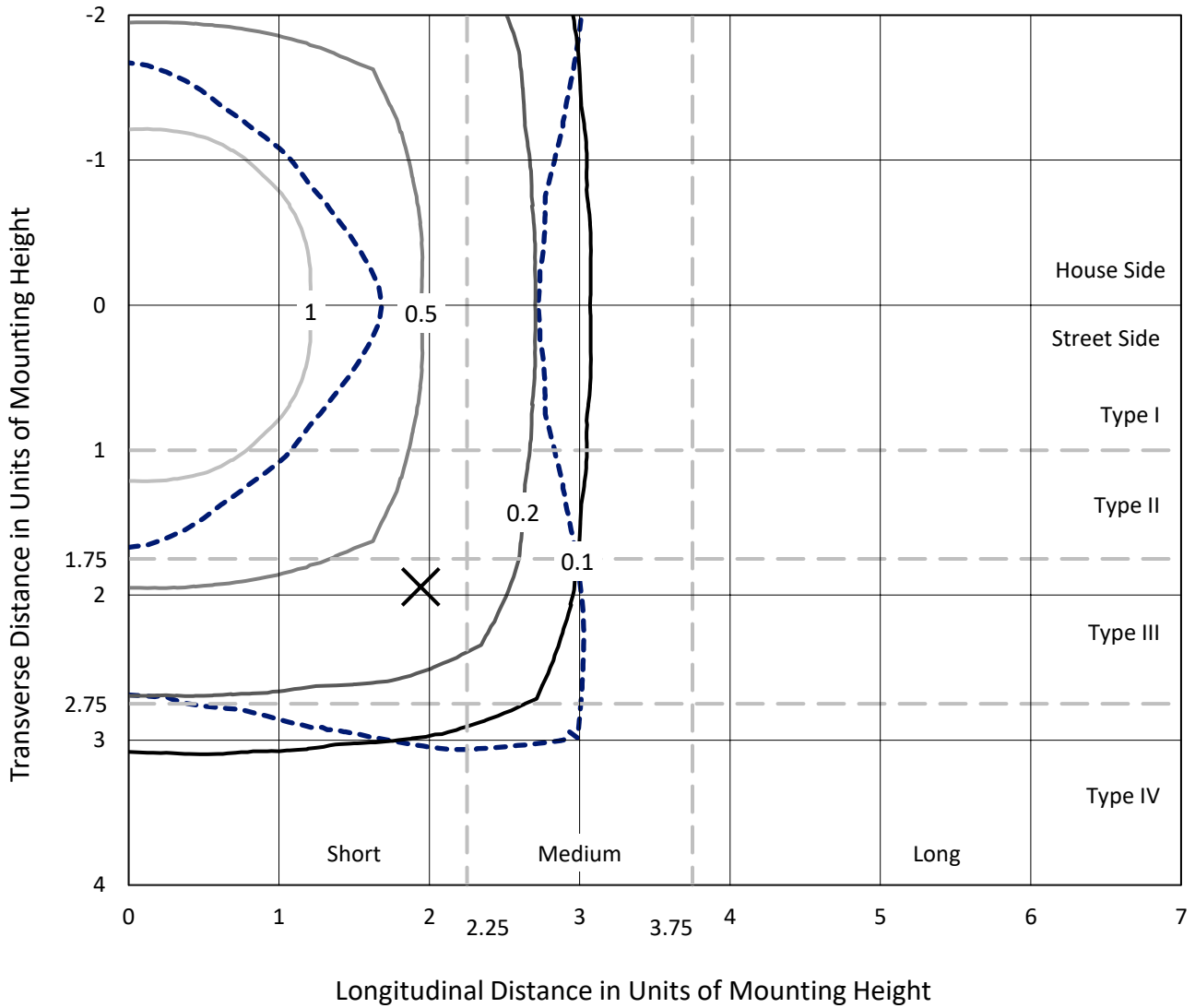
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

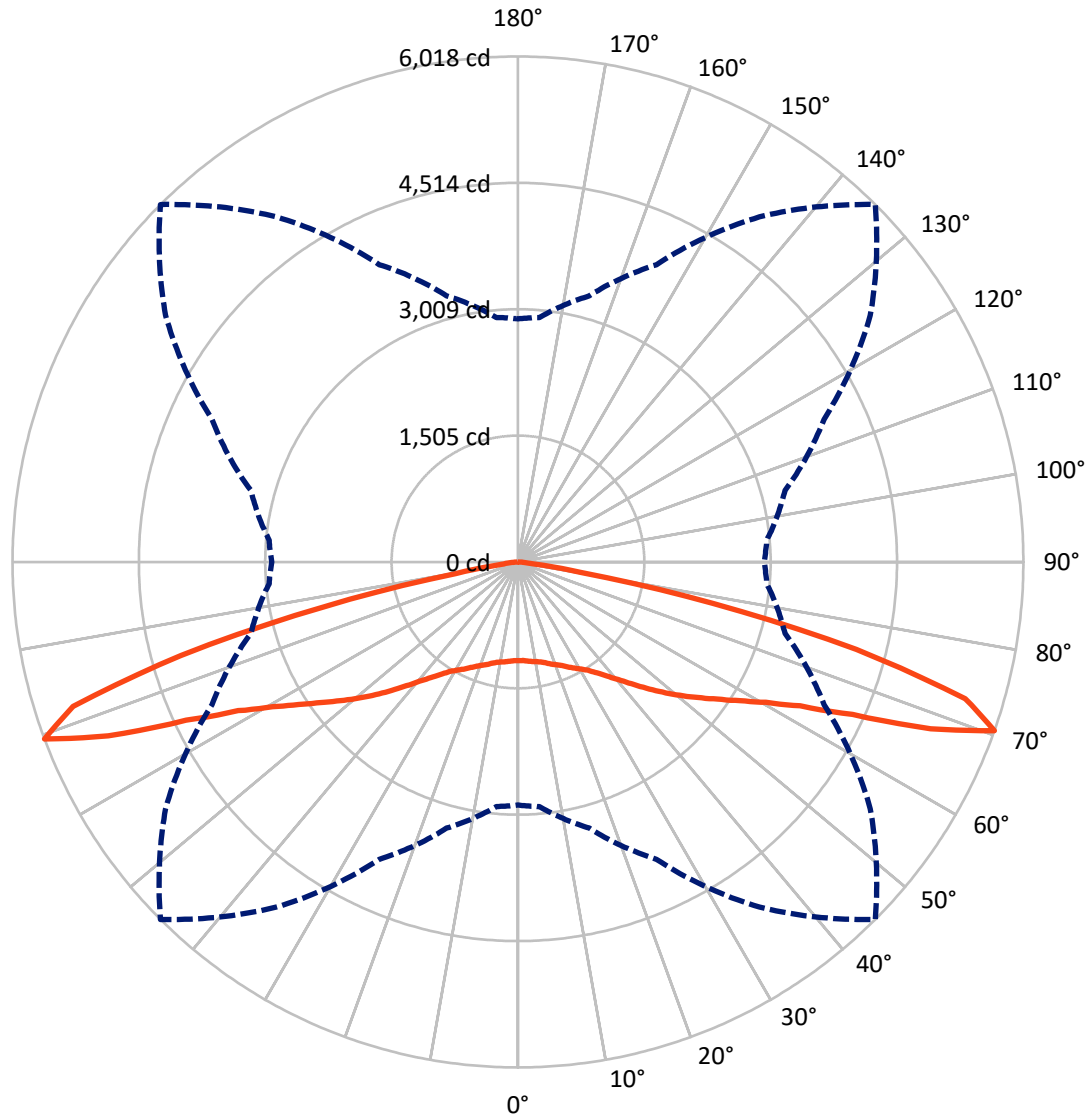
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	6128.0	0.0	6128.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6128.0	0.0	6128.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12256.0	0.0	12256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	0.9
10°-20°	353.7	2.9
20°-30°	632.0	5.2
30°-40°	1024.5	8.4
40°-50°	1668.8	13.6
50°-60°	2544.4	20.8
60°-70°	3785.2	30.9
70°-80°	2063.1	16.8
80°-90°	70.3	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°	12256.0	100.0
0°-180°	12256.0	100.0

Coefficient of Utilization



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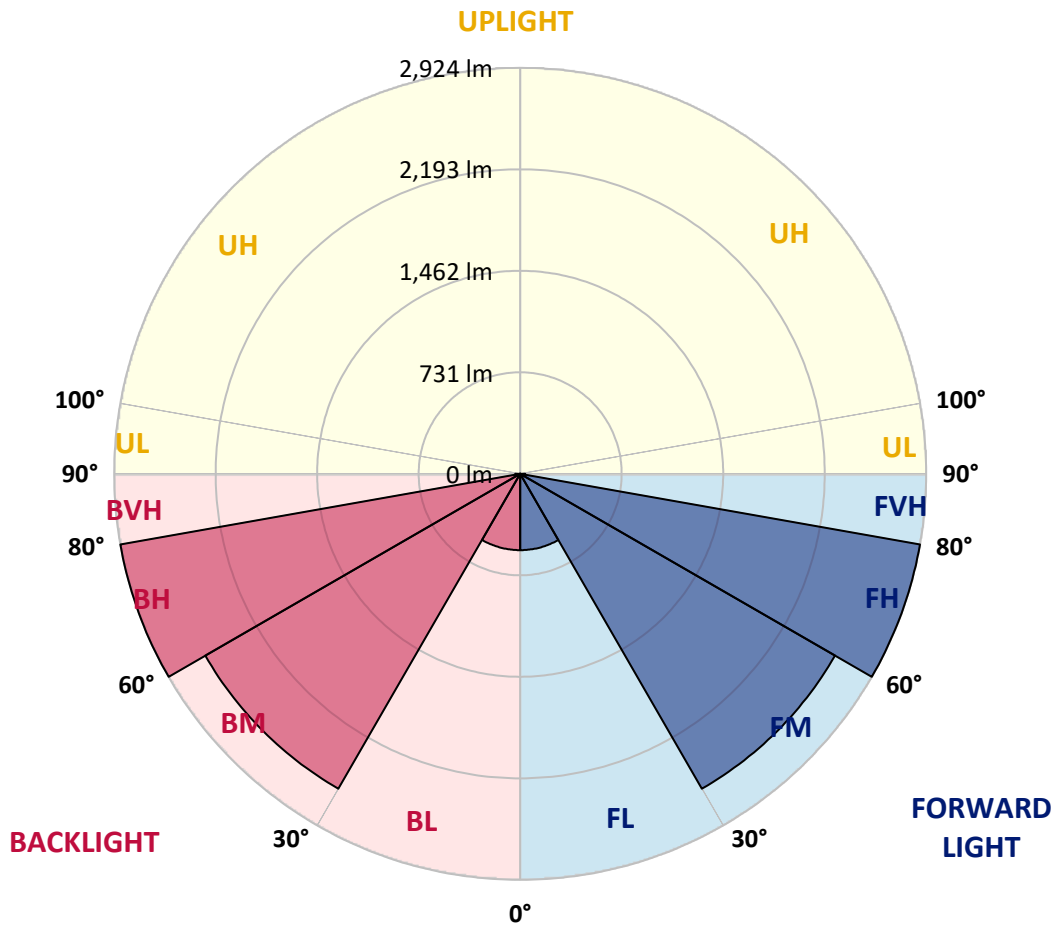
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.9	4.5			
FM (30°-60°)	2618.9	21.4			
FH (60°-80°)	2924.1	23.9			G2/5000
FVH (80°-90°)	35.1	0.3			G1/100
BL (0°-30°)	549.9	4.5	B2/1000		
BM (30°-60°)	2618.9	21.4	B3/5000		
BH (60°-80°)	2924.1	23.9	B4/5000		G2/5000
BVH (80°-90°)	35.1	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°	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0
2.5°	1179.5	1180.8	1178.3	1177.1	1175.8	1174.0	1174.6	1177.7	1180.2	1179.5
5°	1189.4	1190.6	1188.8	1188.1	1185.7	1185.1	1185.1	1188.1	1190.0	1188.8
7.5°	1200.5	1202.3	1199.2	1198.6	1197.4	1196.1	1195.5	1198.6	1200.5	1200.5
10°	1210.9	1212.8	1210.3	1208.5	1207.2	1207.2	1206.0	1208.5	1211.5	1210.9
12.5°	1222.0	1223.2	1220.8	1219.5	1219.5	1221.4	1219.5	1220.8	1223.2	1222.0
15°	1235.5	1236.1	1235.5	1237.4	1240.5	1246.6	1241.1	1239.8	1241.1	1238.0
17.5°	1254.0	1255.2	1257.7	1262.0	1266.3	1277.4	1267.5	1264.4	1264.4	1258.3
20°	1276.8	1278.6	1282.3	1289.7	1295.2	1305.7	1295.8	1291.5	1289.7	1281.7
22.5°	1300.8	1303.8	1309.4	1319.2	1329.1	1338.9	1329.1	1321.7	1316.1	1305.7
25°	1328.4	1332.1	1340.7	1356.7	1370.3	1384.4	1372.7	1358.0	1346.9	1332.1
27.5°	1367.8	1372.1	1382.6	1402.3	1419.5	1431.8	1420.7	1401.7	1386.3	1368.4
30°	1423.2	1427.5	1439.8	1460.7	1472.4	1480.4	1473.0	1458.3	1439.8	1419.5
32.5°	1494.6	1500.1	1513.6	1533.3	1535.8	1537.0	1534.6	1527.2	1513.6	1489.0
35°	1585.0	1591.2	1606.6	1622.6	1620.1	1622.6	1618.9	1616.4	1606.6	1578.3
37.5°	1695.8	1703.2	1719.2	1731.5	1725.3	1722.2	1722.8	1723.5	1717.9	1686.5
40°	1824.4	1834.2	1845.9	1858.8	1848.4	1839.1	1845.3	1850.2	1845.3	1813.3
42.5°	1956.7	1970.8	1983.1	2001.6	1993.0	1981.3	1989.9	1995.4	1985.0	1950.5
45°	2103.7	2117.3	2133.3	2160.9	2154.8	2142.5	2154.8	2156.0	2138.2	2097.6
47.5°	2255.7	2269.9	2293.8	2330.8	2328.3	2314.8	2330.8	2322.2	2299.4	2250.8
50°	2399.7	2419.4	2456.3	2508.0	2512.9	2496.3	2517.8	2501.2	2463.1	2402.1
52.5°	2535.0	2556.0	2614.4	2684.6	2702.4	2680.9	2709.8	2680.9	2623.7	2545.5
55°	2677.2	2700.6	2770.1	2861.8	2897.5	2881.5	2908.5	2864.9	2783.6	2688.9
57.5°	2844.5	2858.7	2941.8	3050.7	3111.0	3114.7	3127.0	3053.1	2954.7	2847.0
60°	3026.1	3045.7	3136.2	3266.6	3362.0	3392.8	3379.9	3270.3	3155.9	3032.2
62.5°	3258.6	3280.2	3388.5	3544.8	3695.5	3771.8	3721.4	3562.6	3421.1	3272.8
65°	3451.2	3475.2	3670.9	3949.6	4224.1	4377.3	4250.5	3958.2	3703.5	3494.3
67.5°	3311.6	3341.1	3648.1	4160.1	4842.4	5299.6	4865.8	4222.8	3723.8	3440.2
70°	2894.4	2922.1	3280.2	3905.9	5016.6	6018.3	5121.2	4021.0	3291.9	2974.4
72.5°	1921.6	2010.8	2373.2	3123.9	4479.4	5569.1	4523.7	3060.5	2201.6	1917.3
75°	637.5	708.8	956.2	1619.5	3000.2	4165.0	2856.2	1433.0	757.4	545.2
77.5°	160.6	185.2	255.4	463.3	1196.8	2371.4	1077.4	378.4	206.1	144.0
80°	78.1	86.1	123.1	154.4	299.7	753.7	281.2	145.2	97.2	75.1
82.5°	43.1	43.7	69.5	87.4	111.4	195.1	115.7	84.9	56.0	45.5
85°	26.5	25.8	36.9	46.8	46.8	69.5	55.4	46.8	32.0	28.3
87.5°	10.5	10.5	13.5	14.8	12.9	17.8	14.2	15.4	12.3	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1174.0
1180.2
1189.4
1200.5
1210.9
1221.4
1238.0
1258.3
1281.7
1305.1
1331.5
1367.8
1419.5
1489.6
1578.3
1686.5
1813.3
1953.0
2101.9
2247.7
2400.9
2538.1
2676.0
2832.2
3012.5
3247.0
3459.8
3397.7
2931.9
1855.1
515.6
128.6
68.9
45.5
29.5
12.3
0.0

OF REPORT)