

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: P939290

Luminaire Tested: **GALN-SB1D-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939290
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-SB1D-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8953 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

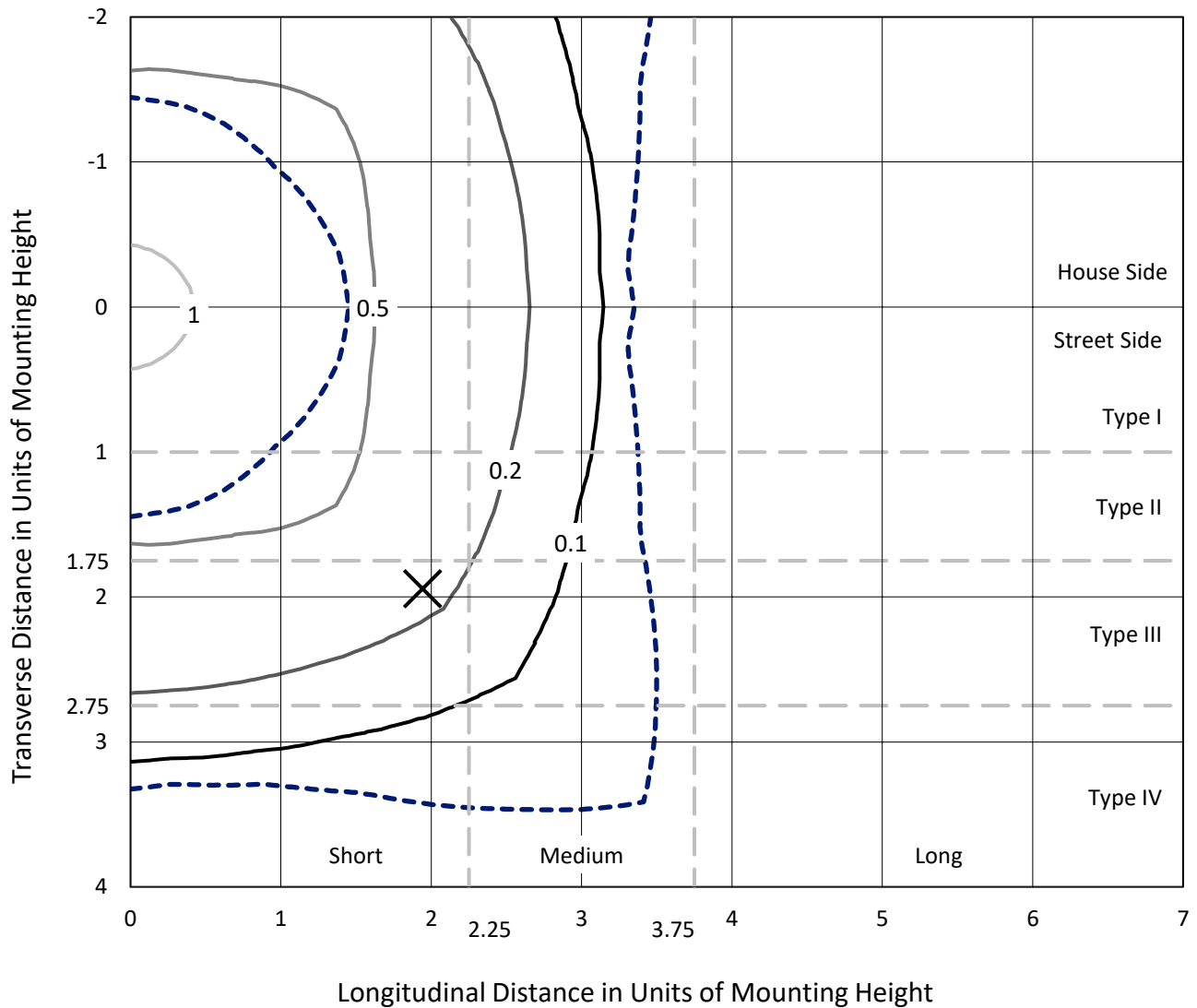
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

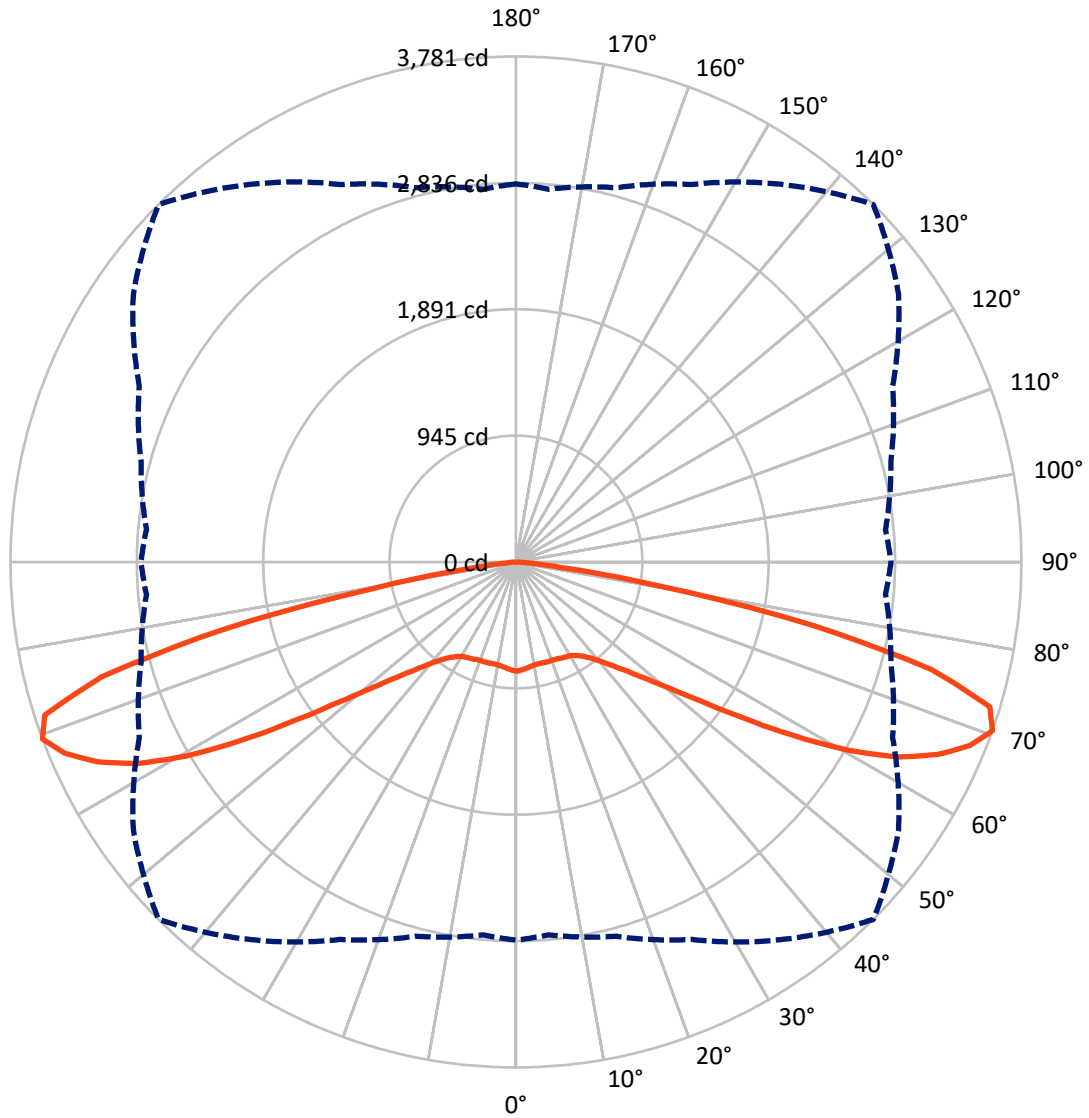
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	4476.5	0.0	4476.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4476.5	0.0	4476.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8953.0	0.0	8953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	0.8
10°-20°	223.1	2.5
20°-30°	371.2	4.1
30°-40°	561.4	6.3
40°-50°	932.9	10.4
50°-60°	1760.4	19.7
60°-70°	2972.5	33.2
70°-80°	1953.2	21.8
80°-90°	102.3	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°	8953.0	100.0
0°-180°	8953.0	100.0

Coefficient of Utilization



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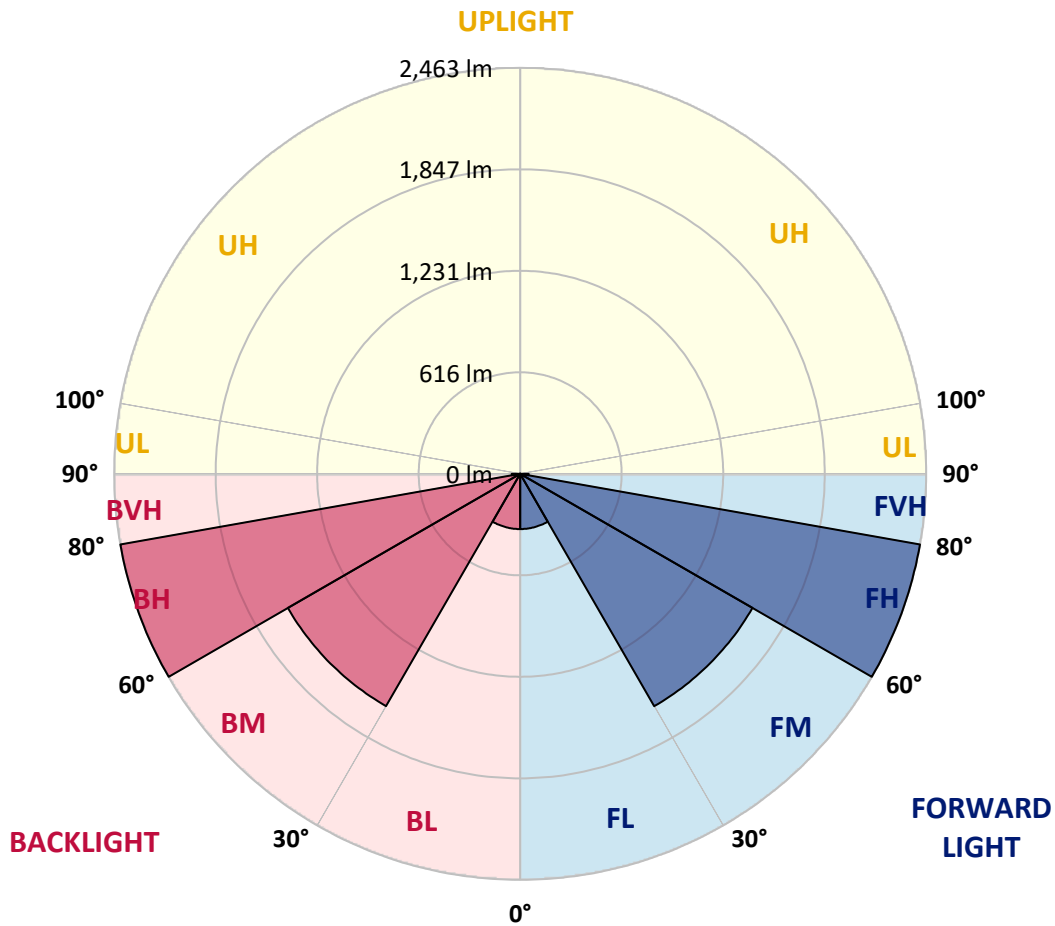
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.1	3.7			
FM (30°-60°)	1627.4	18.2			
FH (60°-80°)	2462.9	27.5			G2/5000
FVH (80°-90°)	51.2	0.6			G1/100
BL (0°-30°)	335.1	3.7	B1/500		
BM (30°-60°)	1627.4	18.2	B2/2500		
BH (60°-80°)	2462.9	27.5	B3/2500		G2/5000
BVH (80°-90°)	51.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7
2.5°	811.6	813.9	813.0	811.1	811.1	809.7	811.1	812.0	813.4	814.4
5°	800.9	802.7	802.3	800.9	801.3	799.9	800.9	802.3	803.2	803.7
7.5°	791.6	793.4	792.5	790.2	790.2	788.8	789.2	790.6	792.0	792.5
10°	789.2	791.1	788.3	784.6	783.2	781.3	781.8	783.2	786.0	787.4
12.5°	790.2	791.6	788.8	783.2	781.8	779.9	779.9	781.3	785.0	786.9
15°	793.0	794.4	790.2	784.1	782.7	781.3	780.9	782.7	786.9	790.2
17.5°	798.1	799.5	793.0	784.6	782.7	783.2	782.7	784.1	790.6	796.7
20°	802.7	803.7	794.8	784.6	782.7	783.2	782.7	785.5	793.9	802.3
22.5°	804.1	805.1	796.7	787.8	786.4	786.9	786.4	789.2	797.1	805.5
25°	804.6	806.0	799.5	792.5	794.8	795.8	794.8	795.3	801.3	808.8
27.5°	811.6	813.4	807.4	801.3	802.7	802.3	803.7	805.1	809.7	817.2
30°	826.0	827.4	822.3	816.2	815.3	812.0	816.2	820.9	826.0	832.5
32.5°	849.7	852.5	846.0	839.5	835.3	833.4	836.7	844.6	851.6	858.6
35°	889.3	891.2	885.1	873.0	865.6	865.6	868.3	878.6	889.8	898.6
37.5°	945.1	947.5	936.8	922.3	911.2	911.2	914.9	925.6	942.3	954.9
40°	1013.1	1016.3	1002.8	987.9	977.2	975.4	980.0	992.1	1008.0	1023.8
42.5°	1095.0	1098.7	1081.0	1068.0	1059.6	1059.6	1061.9	1073.1	1087.5	1107.1
45°	1199.7	1206.2	1182.0	1169.0	1161.1	1162.9	1164.3	1174.1	1187.1	1209.5
47.5°	1324.4	1330.9	1305.3	1291.8	1290.4	1299.3	1293.7	1300.7	1307.6	1333.2
50°	1465.9	1477.0	1459.3	1458.4	1461.2	1477.5	1464.5	1468.2	1460.3	1476.6
52.5°	1639.0	1655.3	1652.0	1657.6	1688.8	1722.3	1692.5	1679.5	1649.7	1654.8
55°	1848.8	1873.5	1878.2	1911.7	1982.4	2050.8	1987.5	1934.9	1871.6	1860.0
57.5°	2087.6	2107.1	2129.5	2197.9	2330.0	2451.5	2330.0	2213.7	2114.1	2090.4
60°	2344.4	2368.6	2390.1	2491.0	2687.4	2858.2	2683.7	2498.9	2367.2	2335.1
62.5°	2620.4	2651.6	2666.5	2778.6	3007.6	3211.4	3010.8	2787.0	2640.9	2606.4
65°	2885.2	2910.8	2927.5	3047.1	3265.8	3470.1	3280.7	3060.2	2909.8	2864.7
67.5°	3008.5	3022.5	3063.4	3198.8	3429.6	3662.8	3468.7	3213.3	3045.3	2966.2
70°	2827.9	2799.6	2898.2	3115.1	3449.2	3781.0	3493.9	3108.6	2902.9	2774.4
72.5°	2185.3	2136.4	2307.7	2678.6	3225.8	3705.6	3248.2	2699.5	2414.2	2153.7
75°	1189.0	1133.6	1370.0	1839.1	2572.5	3211.9	2631.6	1891.7	1525.4	1180.1
77.5°	335.5	314.6	505.4	889.8	1547.3	2255.1	1606.9	909.3	599.4	355.5
80°	102.8	99.6	135.0	268.0	657.1	1080.1	631.5	271.3	171.7	108.4
82.5°	61.0	55.8	67.0	97.7	167.5	339.2	162.9	101.9	81.9	54.9
85°	34.9	32.6	39.6	47.5	56.3	72.1	47.0	48.4	43.7	29.3
87.5°	14.4	13.0	15.4	14.9	13.0	16.8	12.6	14.9	17.7	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
816.7
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787.4
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1018.7
1105.7
1208.5
1325.8
1466.8
1637.6
1841.9
2073.6
2307.2
2578.5
2842.4
2967.1
2805.1
2218.3
1256.9
395.1
114.5
59.6
30.7
10.7
0.0

OF REPORT)