

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: P939230

Luminaire Tested: **GALN-SB1D-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939230
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-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9550 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - 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



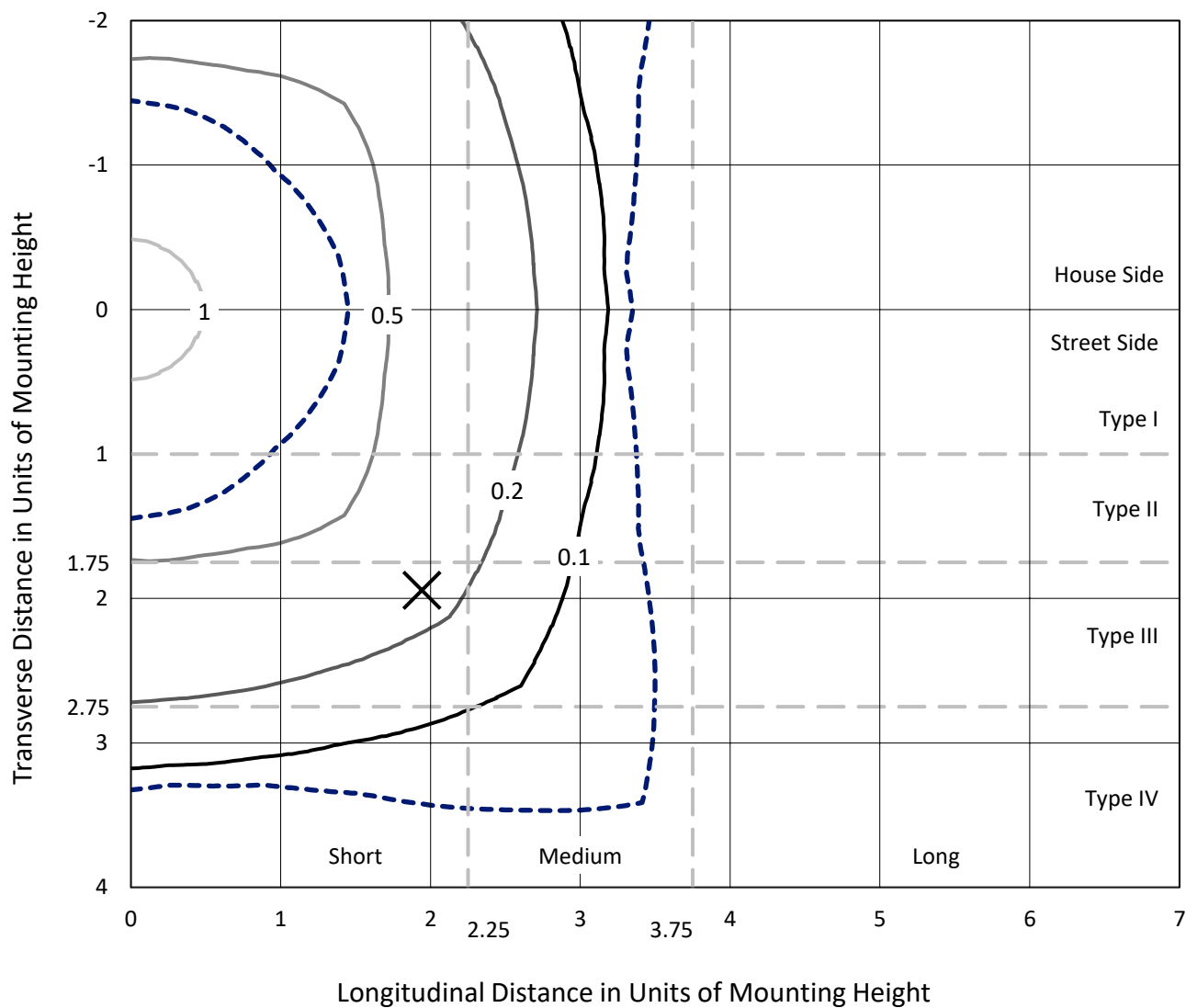
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

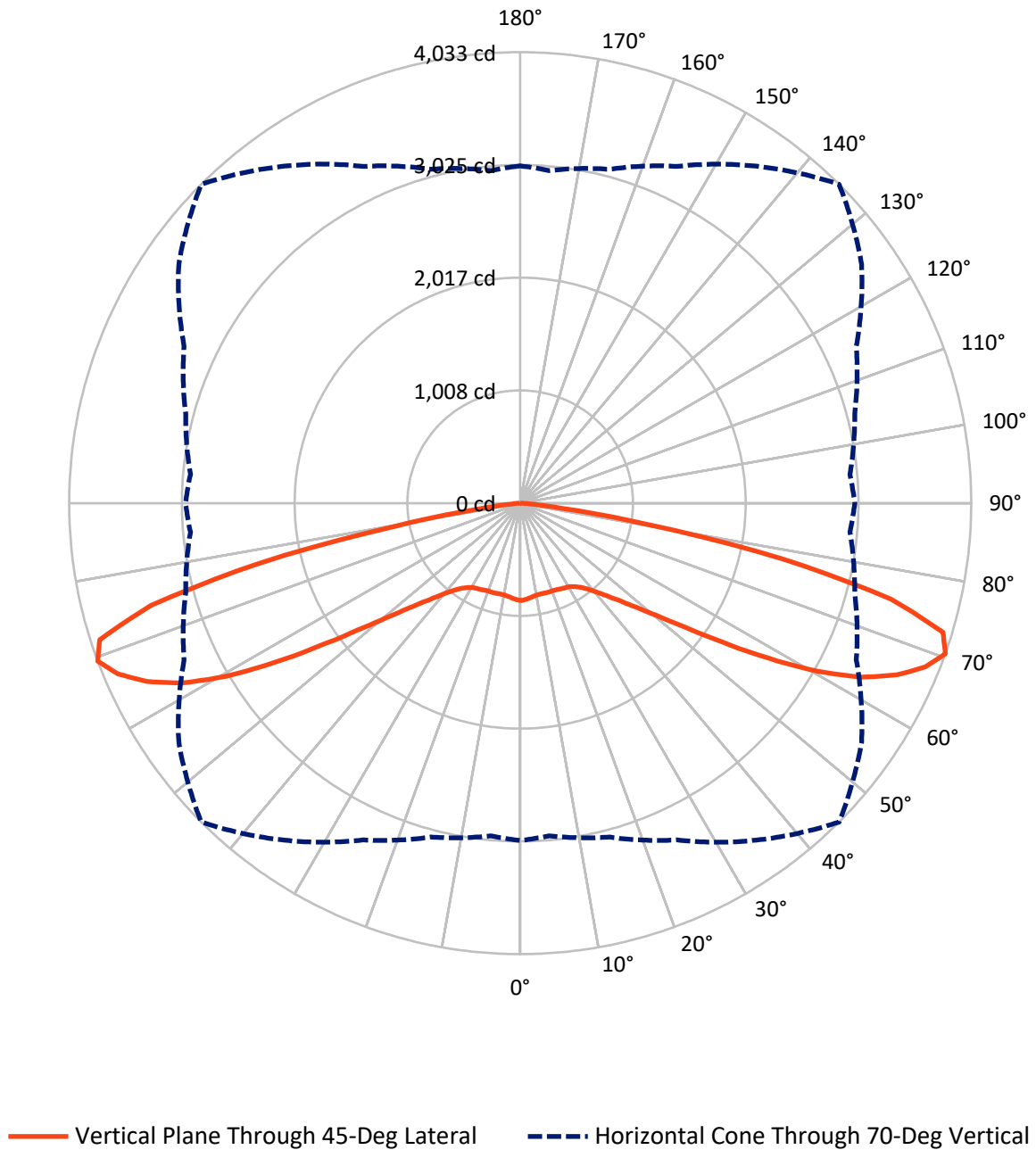


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4775.0	0.0	4775.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4775.0	0.0	4775.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9550.0	0.0	9550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	0.8
10°-20°	237.9	2.5
20°-30°	396.0	4.1
30°-40°	598.8	6.3
40°-50°	995.1	10.4
50°-60°	1877.8	19.7
60°-70°	3170.7	33.2
70°-80°	2083.5	21.8
80°-90°	109.2	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°	9550.0	100.0
0°-180°	9550.0	100.0

Coefficient of Utilization



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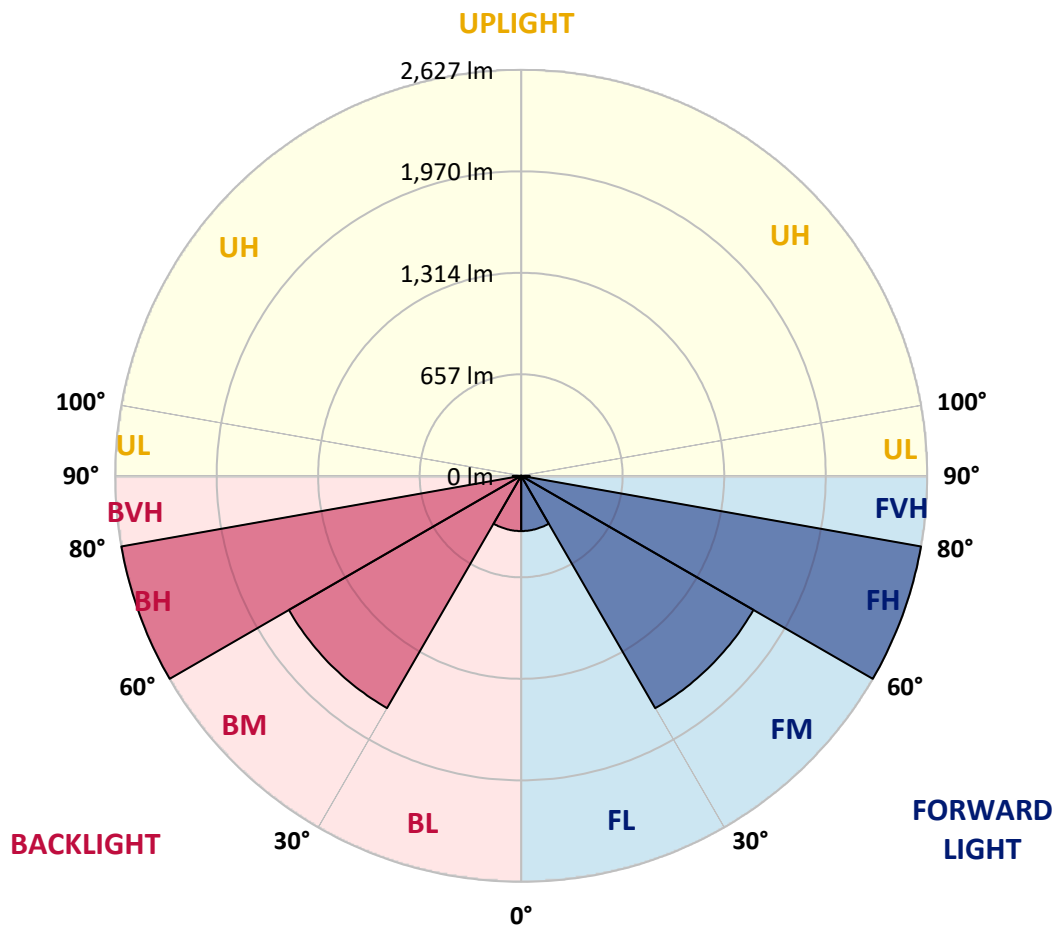
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.5	3.7			
FM	(30°-60°)	1735.9	18.2			
FH	(60°-80°)	2627.1	27.5			G2/5000
FVH	(80°-90°)	54.6	0.6			G1/100
BL	(0°-30°)	357.5	3.7	B1/500		
BM	(30°-60°)	1735.9	18.2	B2/2500		
BH	(60°-80°)	2627.1	27.5	B4/5000		G2/5000
BVH	(80°-90°)	54.6	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°	90°
0°	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2
2.5°	865.7	868.2	867.2	865.2	865.2	863.7	865.2	866.2	867.7	868.7	868.2
5°	854.3	856.3	855.8	854.3	854.8	853.3	854.3	855.8	856.8	857.3	857.3
7.5°	844.3	846.3	845.3	842.9	842.9	841.4	841.9	843.4	844.8	845.3	845.3
10°	841.9	843.9	840.9	836.9	835.4	833.4	833.9	835.4	838.4	839.9	839.9
12.5°	842.9	844.3	841.4	835.4	833.9	831.9	831.9	833.4	837.4	839.4	839.9
15°	845.8	847.3	842.9	836.4	834.9	833.4	832.9	834.9	839.4	842.9	843.4
17.5°	851.3	852.8	845.8	836.9	834.9	835.4	834.9	836.4	843.4	849.8	849.8
20°	856.3	857.3	847.8	836.9	834.9	835.4	834.9	837.9	846.8	855.8	856.3
22.5°	857.7	858.7	849.8	840.4	838.9	839.4	838.9	841.9	850.3	859.2	859.2
25°	858.2	859.7	852.8	845.3	847.8	848.8	847.8	848.3	854.8	862.7	862.2
27.5°	865.7	867.7	861.2	854.8	856.3	855.8	857.3	858.7	863.7	871.6	869.7
30°	881.1	882.6	877.1	870.7	869.7	866.2	870.7	875.6	881.1	888.0	886.5
32.5°	906.4	909.4	902.4	895.5	891.0	889.0	892.5	900.9	908.4	915.8	912.8
35°	948.6	950.6	944.1	931.2	923.3	923.3	926.3	937.2	949.1	958.5	955.0
37.5°	1008.2	1010.6	999.2	983.8	971.9	971.9	975.9	987.3	1005.2	1018.6	1013.6
40°	1080.6	1084.1	1069.7	1053.8	1042.4	1040.4	1045.4	1058.3	1075.2	1092.0	1086.6
42.5°	1168.0	1172.0	1153.1	1139.2	1130.3	1130.3	1132.7	1144.7	1160.0	1180.9	1179.4
45°	1279.7	1286.6	1260.8	1246.9	1238.5	1240.5	1242.0	1252.4	1266.3	1290.1	1289.1
47.5°	1412.7	1419.7	1392.4	1378.0	1376.5	1385.9	1379.9	1387.4	1394.8	1422.1	1414.2
50°	1563.6	1575.5	1556.7	1555.7	1558.6	1576.0	1562.1	1566.1	1557.7	1575.0	1564.6
52.5°	1748.3	1765.6	1762.2	1768.1	1801.4	1837.1	1805.3	1791.4	1759.7	1765.1	1746.8
55°	1972.1	1998.4	2003.4	2039.1	2114.6	2187.6	2120.1	2064.0	1996.5	1984.0	1964.7
57.5°	2226.8	2247.6	2271.4	2344.4	2485.4	2614.9	2485.4	2361.3	2255.1	2229.8	2211.9
60°	2500.8	2526.6	2549.4	2657.1	2866.6	3048.8	2862.6	2665.6	2525.1	2490.9	2461.1
62.5°	2795.1	2828.4	2844.3	2963.9	3208.1	3425.5	3211.6	2972.8	2817.0	2780.2	2750.5
65°	3077.6	3104.9	3122.7	3250.3	3483.6	3701.5	3499.5	3264.2	3103.9	3055.7	3031.9
67.5°	3209.1	3224.0	3267.7	3412.1	3658.3	3907.0	3700.0	3427.5	3248.3	3163.9	3164.9
70°	3016.5	2986.2	3091.5	3322.8	3679.2	4033.1	3726.8	3315.8	3096.4	2959.4	2992.2
72.5°	2331.0	2278.9	2461.6	2857.2	3440.9	3952.7	3464.8	2879.5	2575.2	2297.3	2366.3
75°	1268.3	1209.2	1461.4	1961.7	2744.0	3426.0	2807.0	2017.8	1627.1	1258.8	1340.7
77.5°	357.9	335.6	539.1	949.1	1650.5	2405.5	1714.0	969.9	639.3	379.2	421.4
80°	109.7	106.2	144.0	285.9	700.9	1152.1	673.6	289.4	183.2	115.7	122.1
82.5°	65.0	59.6	71.5	104.2	178.7	361.9	173.7	108.7	87.4	58.6	63.5
85°	37.2	34.7	42.2	50.6	60.1	76.9	50.1	51.6	46.7	31.3	32.8
87.5°	15.4	13.9	16.4	15.9	13.9	17.9	13.4	15.9	18.9	12.4	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)