

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: P939300

Luminaire Tested: **GALN-SB1D-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939300
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-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9252 lumens
Efficiency: N/A
Efficacy: 116.2 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

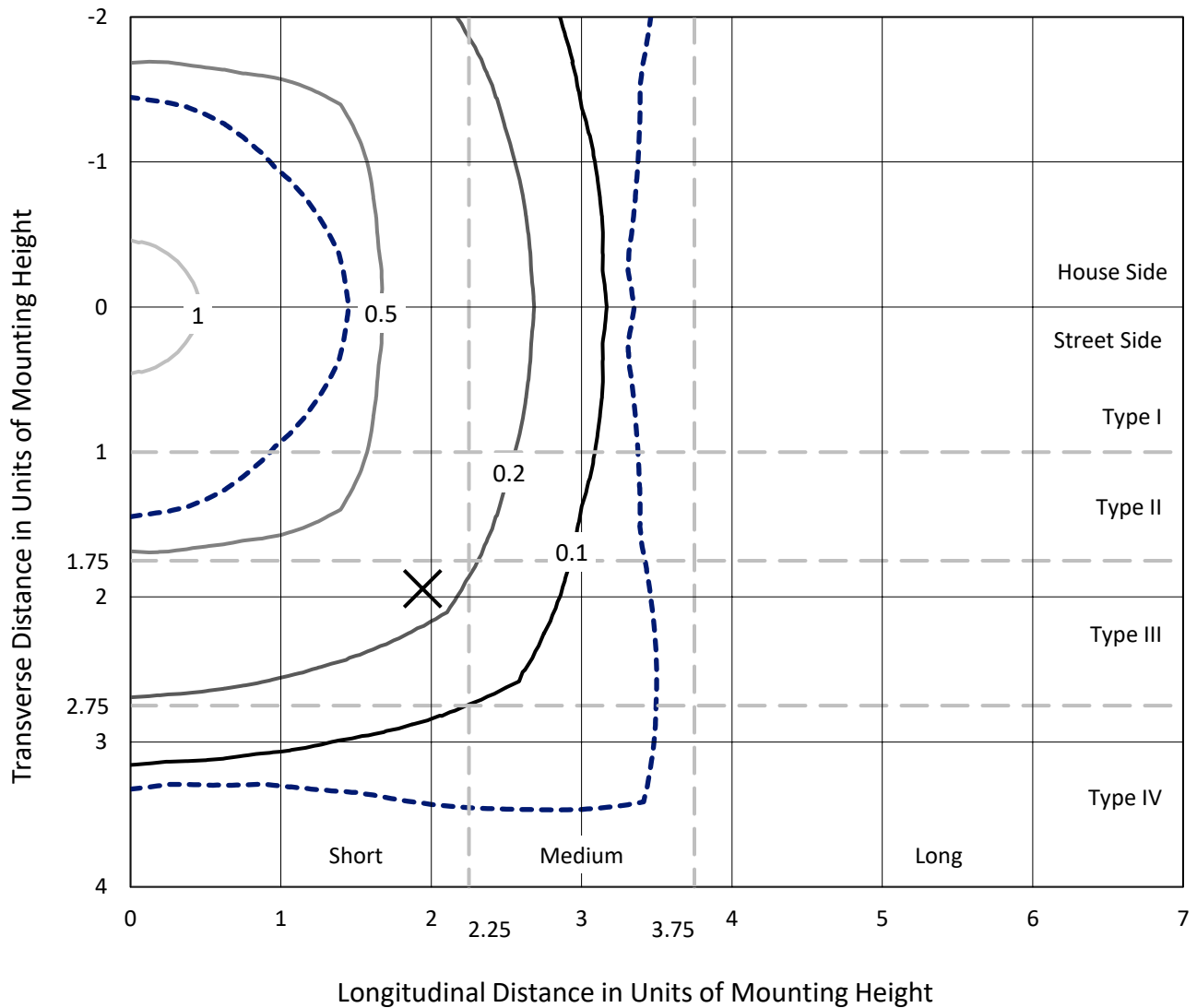
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

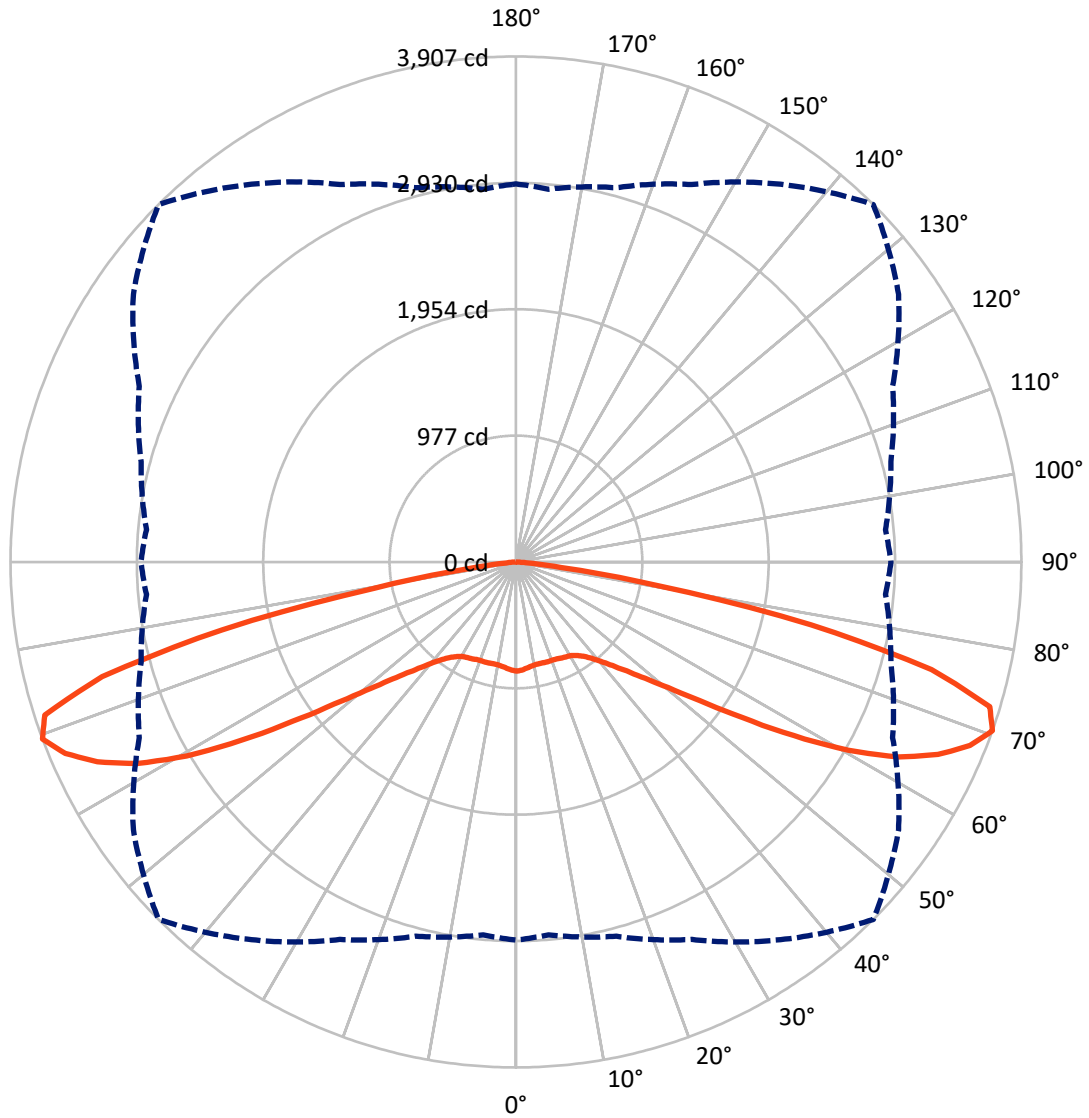
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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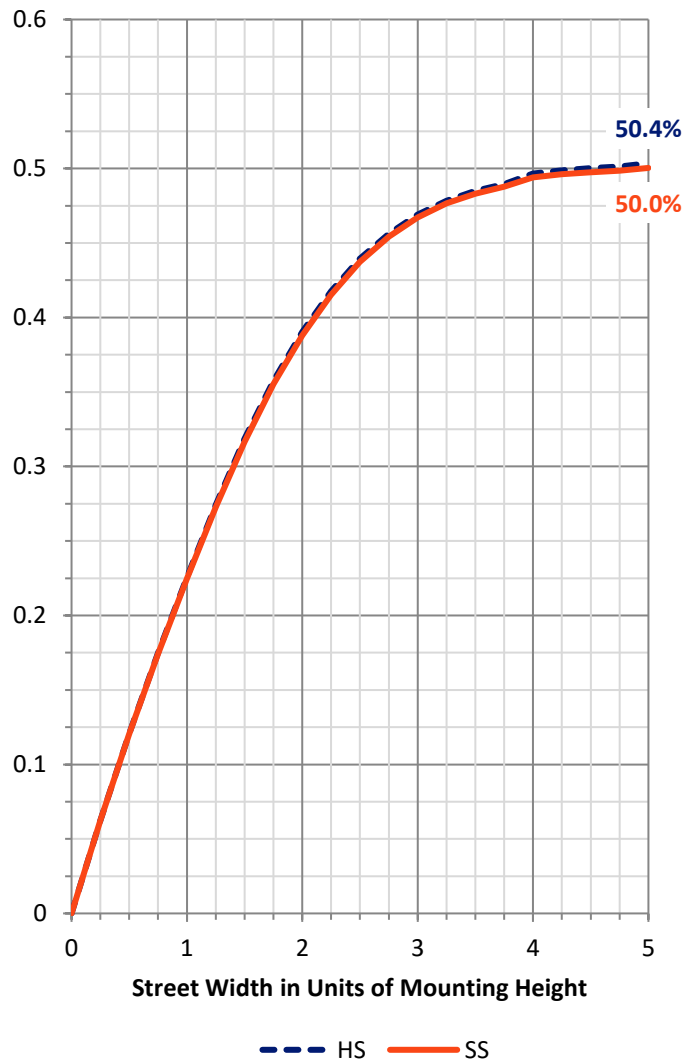
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4626.0	0.0	4626.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4626.0	0.0	4626.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9252.0	0.0	9252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	0.8
10°-20°	230.5	2.5
20°-30°	383.6	4.1
30°-40°	580.2	6.3
40°-50°	964.1	10.4
50°-60°	1819.2	19.7
60°-70°	3071.7	33.2
70°-80°	2018.5	21.8
80°-90°	105.8	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°	9252.0	100.0
0°-180°	9252.0	100.0

Coefficient of Utilization



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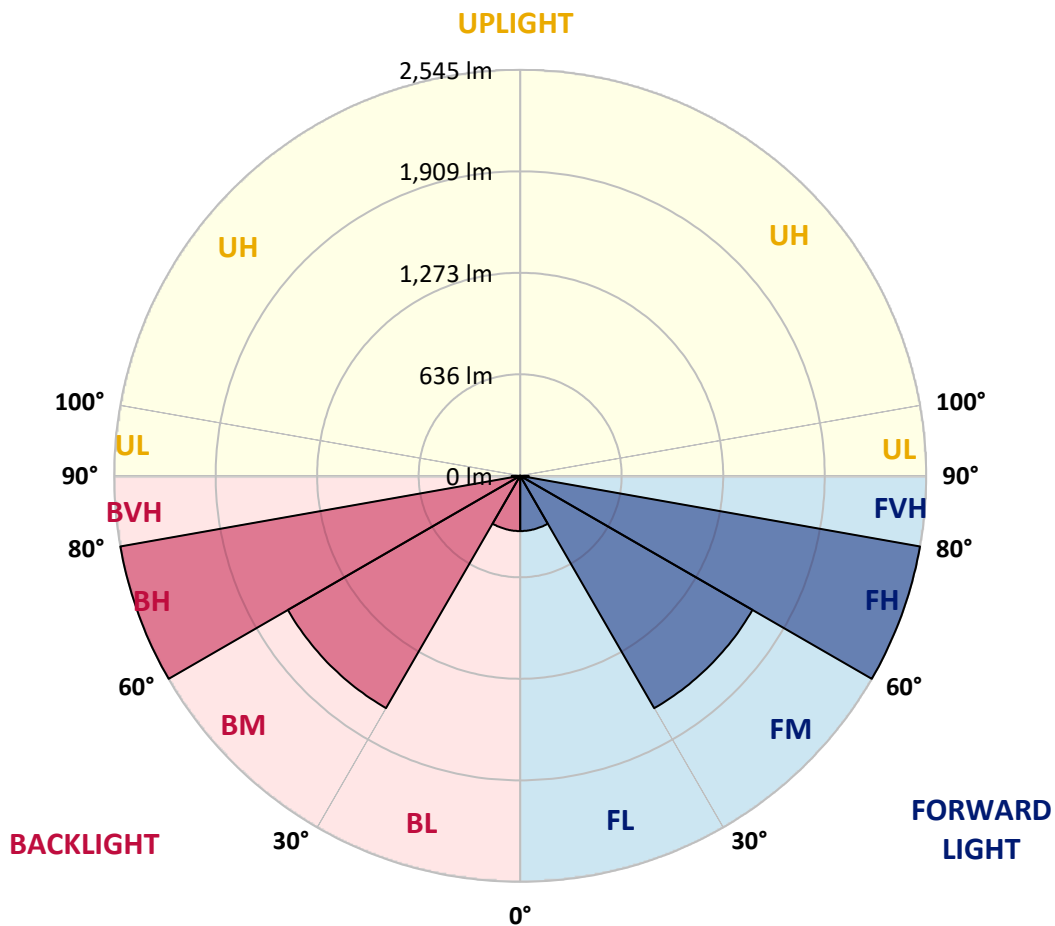
CATALOG NUMBER: GALN-SB1D-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.3	3.7			
FM (30°-60°)	1681.7	18.2			
FH (60°-80°)	2545.1	27.5			G2/5000
FVH (80°-90°)	52.9	0.6			G1/100
BL (0°-30°)	346.3	3.7	B1/500		
BM (30°-60°)	1681.7	18.2	B2/2500		
BH (60°-80°)	2545.1	27.5	B4/5000		G2/5000
BVH (80°-90°)	52.9	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°	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0
2.5°	838.7	841.1	840.1	838.2	838.2	836.8	838.2	839.2	840.6	841.6
5°	827.6	829.5	829.1	827.6	828.1	826.7	827.6	829.1	830.0	830.5
7.5°	818.0	819.9	819.0	816.6	816.6	815.1	815.6	817.0	818.5	819.0
10°	815.6	817.5	814.6	810.8	809.3	807.4	807.9	809.3	812.2	813.7
12.5°	816.6	818.0	815.1	809.3	807.9	806.0	806.0	807.4	811.3	813.2
15°	819.4	820.9	816.6	810.3	808.9	807.4	806.9	808.9	813.2	816.6
17.5°	824.7	826.2	819.4	810.8	808.9	809.3	808.9	810.3	817.0	823.3
20°	829.5	830.5	821.4	810.8	808.9	809.3	808.9	811.7	820.4	829.1
22.5°	831.0	831.9	823.3	814.2	812.7	813.2	812.7	815.6	823.8	832.4
25°	831.5	832.9	826.2	819.0	821.4	822.3	821.4	821.8	828.1	835.8
27.5°	838.7	840.6	834.4	828.1	829.5	829.1	830.5	831.9	836.8	844.4
30°	853.6	855.0	849.7	843.5	842.5	839.2	843.5	848.3	853.6	860.3
32.5°	878.1	881.0	874.3	867.5	863.2	861.3	864.6	872.8	880.0	887.2
35°	919.0	920.9	914.7	902.2	894.5	894.5	897.3	907.9	919.5	928.6
37.5°	976.7	979.1	968.0	953.1	941.6	941.6	945.4	956.5	973.8	986.8
40°	1046.9	1050.3	1036.3	1020.9	1009.9	1008.0	1012.8	1025.3	1041.6	1058.0
42.5°	1131.5	1135.4	1117.1	1103.7	1095.0	1095.0	1097.4	1108.9	1123.8	1144.0
45°	1239.7	1246.5	1221.5	1208.0	1199.8	1201.8	1203.2	1213.3	1226.8	1249.8
47.5°	1368.6	1375.4	1348.9	1335.0	1333.5	1342.7	1336.9	1344.1	1351.3	1377.8
50°	1514.8	1526.4	1508.1	1507.1	1510.0	1526.8	1513.4	1517.2	1509.0	1525.9
52.5°	1693.7	1710.5	1707.2	1712.9	1745.2	1779.8	1749.0	1735.5	1704.8	1710.1
55°	1910.6	1936.1	1940.9	1975.5	2048.6	2119.3	2053.9	1999.6	1934.2	1922.1
57.5°	2157.3	2177.5	2200.6	2271.3	2407.8	2533.3	2407.8	2287.6	2184.7	2160.2
60°	2422.7	2447.7	2469.9	2574.2	2777.2	2953.6	2773.3	2582.4	2446.3	2413.1
62.5°	2707.9	2740.1	2755.5	2871.4	3108.0	3318.6	3111.4	2880.1	2729.1	2693.5
65°	2981.5	3008.0	3025.3	3148.9	3374.9	3586.0	3390.3	3162.4	3007.0	2960.4
67.5°	3109.0	3123.4	3165.7	3305.7	3544.2	3785.1	3584.6	3320.6	3147.0	3065.2
70°	2922.4	2893.1	2995.0	3219.1	3564.4	3907.3	3610.6	3212.4	2999.8	2867.1
72.5°	2258.3	2207.8	2384.8	2768.0	3333.6	3829.4	3356.6	2789.7	2494.9	2225.6
75°	1228.7	1171.5	1415.8	1900.5	2658.4	3319.1	2719.5	1954.8	1576.4	1219.5
77.5°	346.7	325.1	522.3	919.5	1599.0	2330.4	1660.5	939.7	619.4	367.4
80°	106.3	102.9	139.5	277.0	679.0	1116.2	652.6	280.4	177.4	112.0
82.5°	63.0	57.7	69.2	101.0	173.1	350.6	168.3	105.3	84.6	56.7
85°	36.1	33.7	40.9	49.1	58.2	74.5	48.6	50.0	45.2	30.3
87.5°	14.9	13.5	15.9	15.4	13.5	17.3	13.0	15.4	18.3	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
844.0
841.1
830.5
819.0
813.7
813.7
817.0
823.3
829.5
832.4
835.3
842.5
858.9
884.4
925.2
982.0
1052.7
1142.6
1248.9
1370.1
1515.8
1692.3
1903.4
2142.9
2384.3
2664.6
2937.3
3066.2
2898.8
2292.4
1298.9
408.3
118.3
61.6
31.7
11.1
0.0

OF REPORT)