

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: P945062

Luminaire Tested: **GALN-SB1A-850-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-850-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4498 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

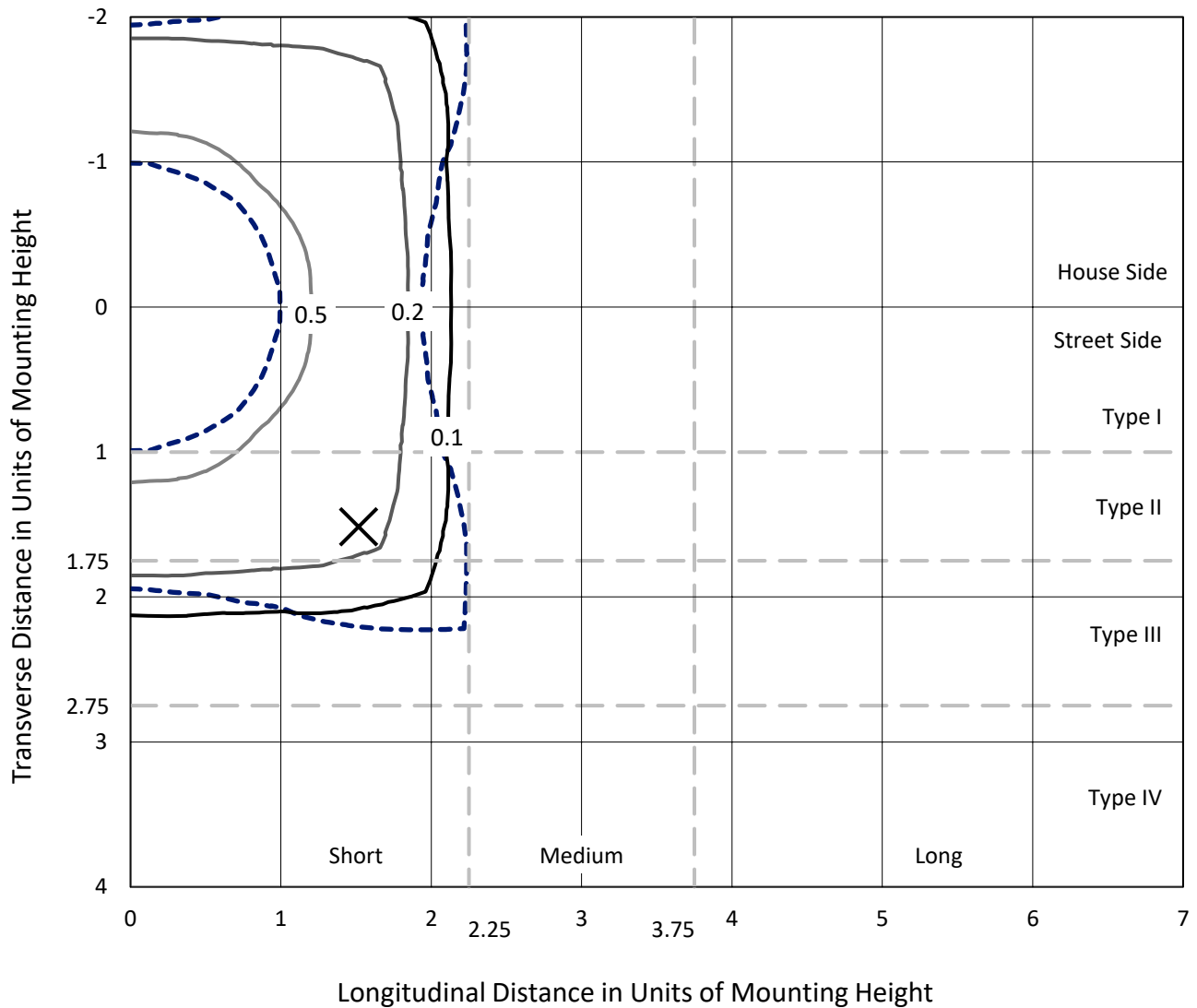
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

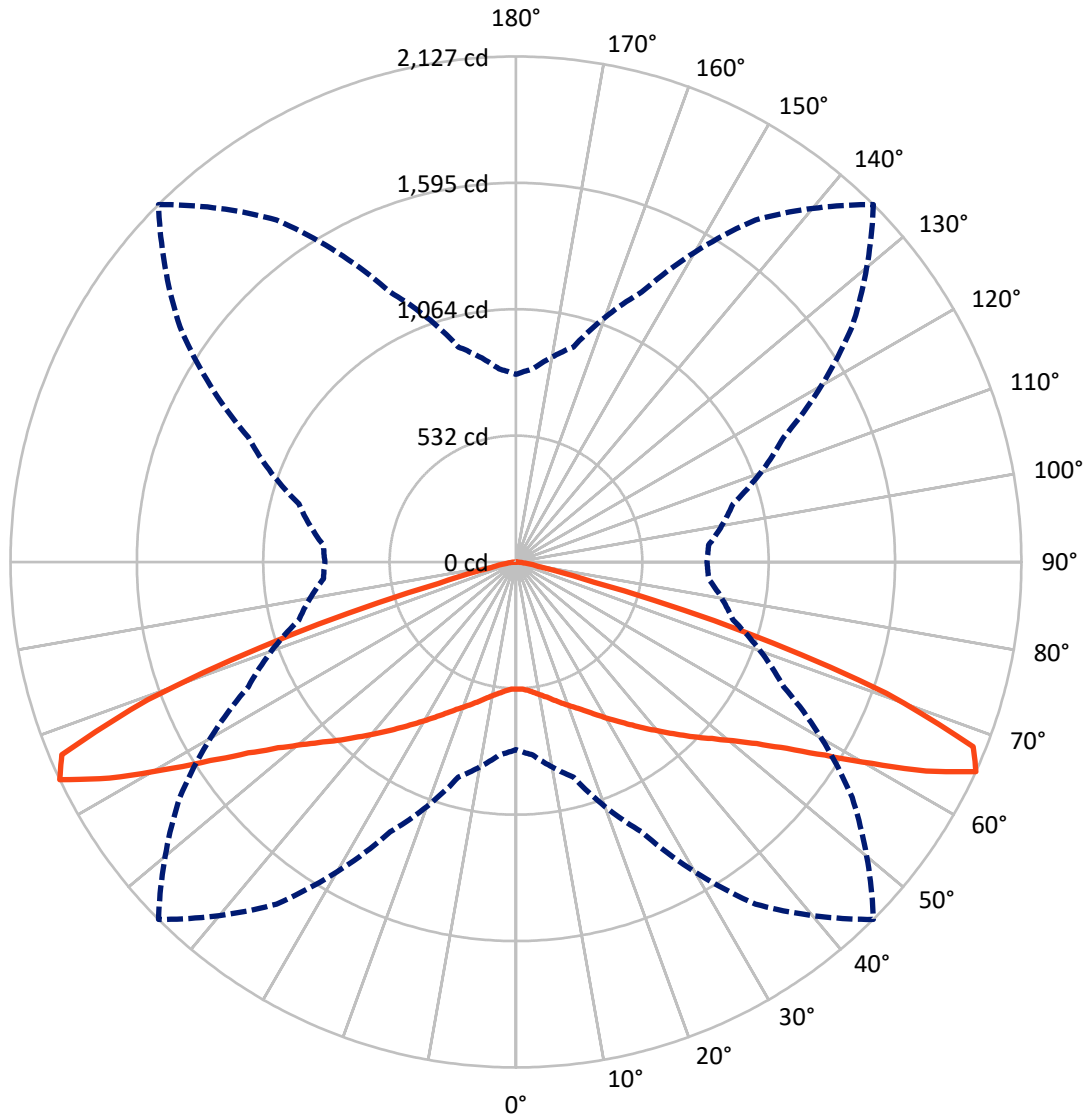
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2249.0	0.0	2249.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2249.0	0.0	2249.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4498.0	0.0	4498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.2
10°-20°	172.4	3.8
20°-30°	325.5	7.2
30°-40°	533.0	11.8
40°-50°	826.4	18.4
50°-60°	1220.7	27.1
60°-70°	1162.0	25.8
70°-80°	187.5	4.2
80°-90°	17.7	0.4
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°	4498.0	100.0
0°-180°	4498.0	100.0

Coefficient of Utilization



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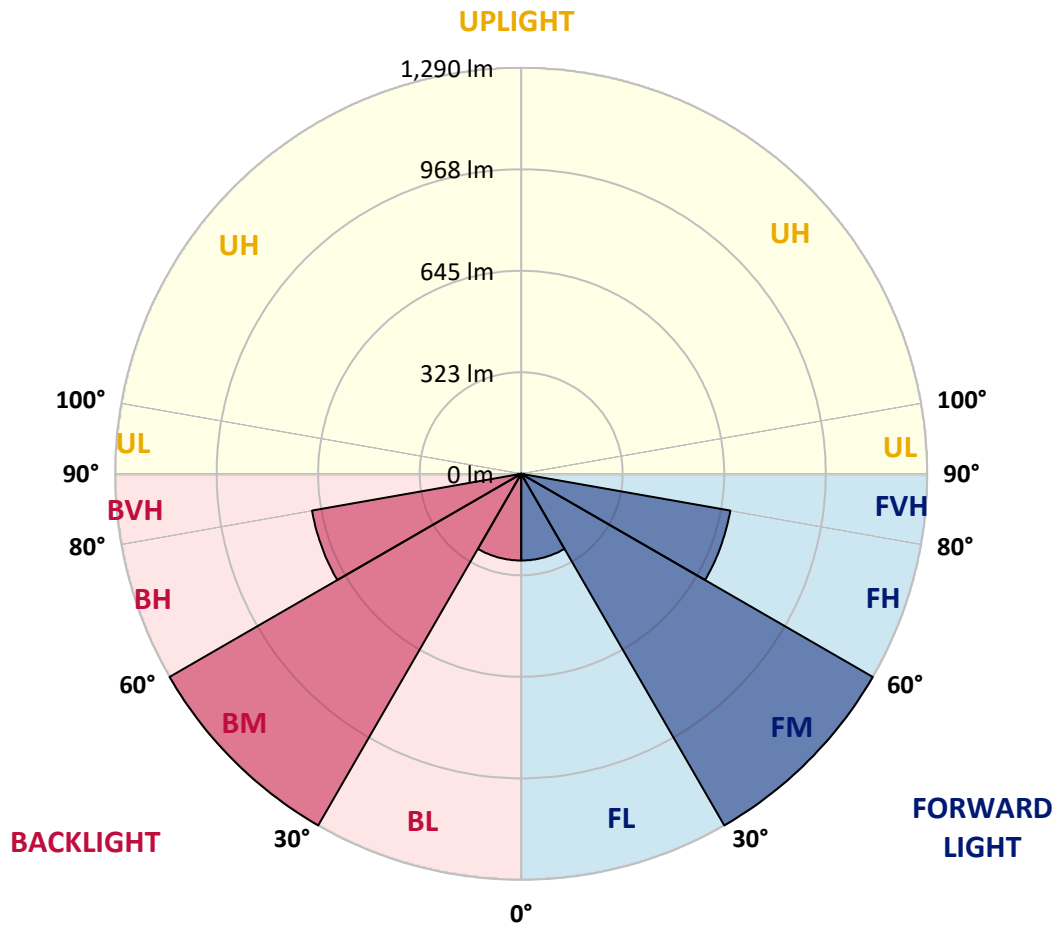
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	275.4	6.1			
FM (30°-60°)	1290.0	28.7			
FH (60°-80°)	674.8	15.0			G1/1800
FVH (80°-90°)	8.8	0.2			G0/10
BL (0°-30°)	275.4	6.1	B1/500		
BM (30°-60°)	1290.0	28.7	B2/2500		
BH (60°-80°)	674.8	15.0	B2/1000		G1/1800
BVH (80°-90°)	8.8	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	538.9	537.1	538.5	537.3	536.4	535.5	536.0	537.6	538.2	538.5
5°	546.1	544.6	545.2	545.2	543.7	543.2	543.4	544.6	545.9	545.9
7.5°	557.9	556.3	557.9	557.0	555.6	555.2	554.9	555.8	557.9	557.9
10°	572.1	570.3	571.2	570.7	569.2	568.5	568.3	569.6	571.4	571.2
12.5°	587.7	585.6	586.8	585.4	585.0	584.3	584.3	584.1	585.2	584.3
15°	605.0	603.7	604.1	603.2	603.9	603.5	601.7	600.8	601.2	599.9
17.5°	625.6	622.4	624.0	623.5	623.5	624.4	621.5	620.4	621.3	619.9
20°	649.3	646.1	646.8	645.9	644.8	645.7	642.1	643.0	643.6	642.7
22.5°	675.2	671.2	670.9	671.4	668.9	669.1	666.7	668.9	670.3	667.8
25°	701.9	697.6	700.5	699.4	696.2	696.9	695.1	697.3	698.5	695.3
27.5°	730.1	727.1	729.8	730.5	726.7	729.4	726.7	728.7	729.8	725.1
30°	763.0	760.1	762.6	764.4	759.9	764.1	761.9	763.2	763.5	757.8
32.5°	798.9	794.4	800.7	801.6	796.6	801.8	798.9	800.7	801.8	794.2
35°	842.7	837.0	844.3	843.1	838.8	843.1	840.4	843.1	845.8	836.6
37.5°	889.8	884.0	891.7	889.6	885.6	888.5	886.9	888.7	893.0	883.1
40°	941.8	934.5	944.9	941.3	937.5	937.0	937.9	939.0	944.7	933.6
42.5°	997.3	989.6	1005.2	999.5	994.1	990.5	993.4	995.7	1001.1	988.7
45°	1060.7	1051.9	1072.2	1065.4	1056.8	1049.4	1054.1	1057.5	1065.4	1050.5
47.5°	1130.6	1120.7	1142.4	1140.3	1126.4	1110.1	1120.9	1130.6	1136.5	1118.5
50°	1199.0	1191.4	1219.8	1222.3	1205.1	1182.3	1197.4	1212.1	1213.7	1190.0
52.5°	1263.1	1255.4	1296.7	1312.3	1297.0	1269.9	1285.9	1300.8	1288.8	1258.2
55°	1314.3	1308.0	1360.6	1400.8	1406.0	1383.6	1393.1	1392.7	1353.4	1306.2
57.5°	1326.8	1325.9	1392.2	1477.3	1531.4	1534.2	1515.4	1467.6	1383.0	1319.5
60°	1270.3	1276.0	1367.2	1517.2	1661.7	1721.7	1640.7	1504.1	1349.3	1261.3
62.5°	1101.5	1116.4	1226.3	1468.5	1766.8	1937.4	1741.1	1448.6	1211.2	1096.3
65°	789.4	815.4	936.8	1253.2	1757.4	2127.0	1726.7	1243.0	945.8	813.3
67.5°	358.2	384.6	487.7	858.0	1527.6	2075.6	1524.0	867.1	512.1	385.9
70°	129.8	134.3	167.5	343.5	976.3	1653.8	1018.0	346.0	178.1	143.1
72.5°	78.5	79.2	86.2	123.0	339.2	1004.0	353.6	127.1	88.0	78.1
75°	49.9	49.4	61.4	75.2	120.3	338.7	126.2	75.2	61.2	55.7
77.5°	35.9	37.0	44.0	56.2	75.8	114.9	74.5	53.7	44.0	36.1
80°	26.9	27.5	32.0	43.8	53.3	71.5	47.4	39.7	33.2	22.6
82.5°	19.4	19.4	21.0	31.8	32.5	38.6	25.7	28.0	21.9	16.0
85°	11.5	11.3	13.1	19.0	16.9	14.2	11.7	17.2	13.8	9.9
87.5°	4.1	4.3	4.1	5.4	4.5	3.8	3.6	4.7	3.8	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
535.3
538.5
545.9
557.2
570.7
584.7
600.1
621.1
644.8
670.3
698.9
728.7
761.2
799.3
842.2
889.2
937.2
995.2
1058.2
1124.6
1192.9
1259.1
1307.8
1315.5
1250.9
1089.6
803.6
380.3
141.3
79.4
56.2
36.8
23.2
16.0
9.7
3.2
0.0

OF REPORT)