

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: P939160

Luminaire Tested: **GALN-SB1C-850-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939160  
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-SB1C-850-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7248 lumens  
Efficiency: N/A  
Efficacy: 133.2 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

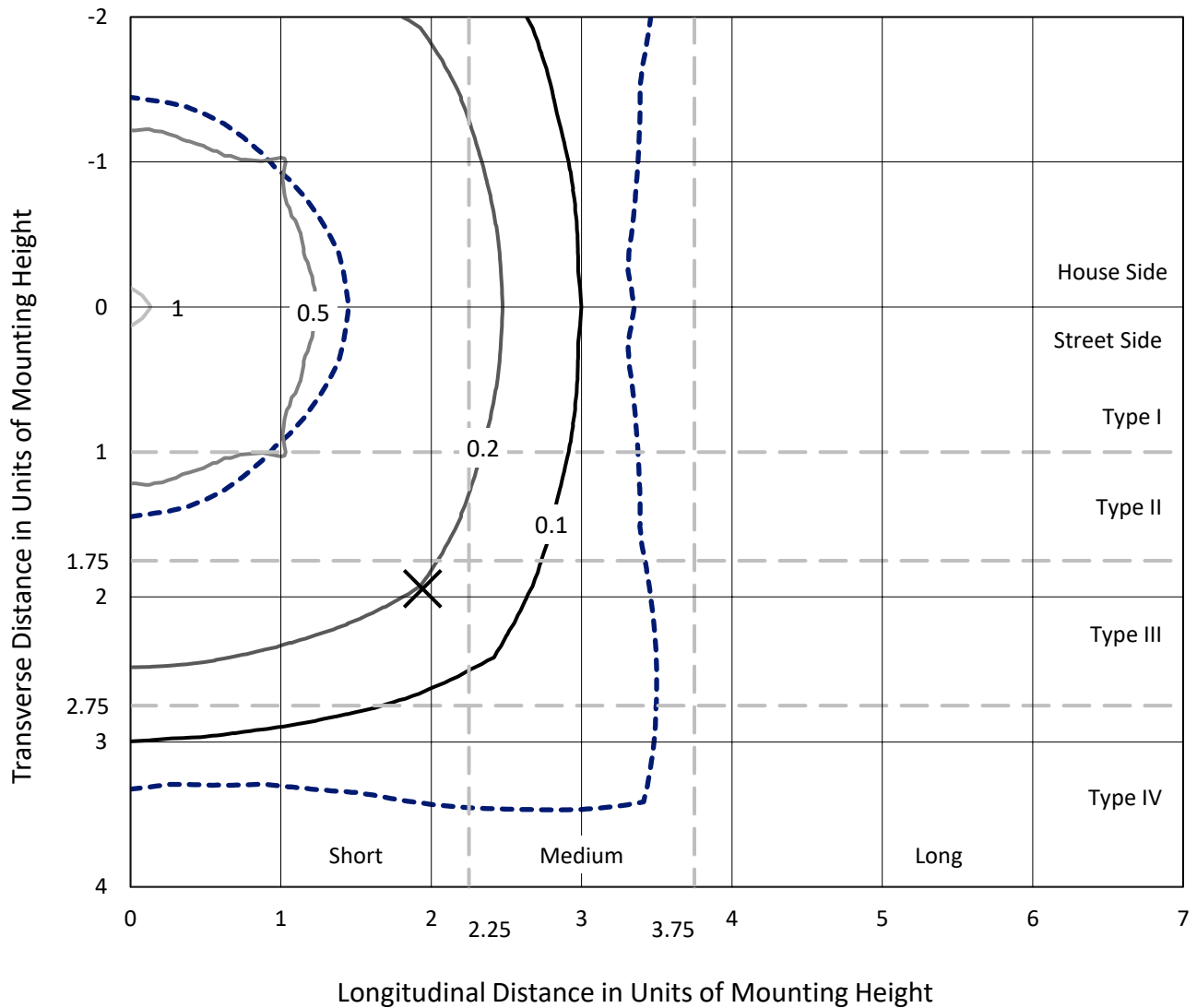
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P939160  
 CATALOG NUMBER: GALN-SB1C-850-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

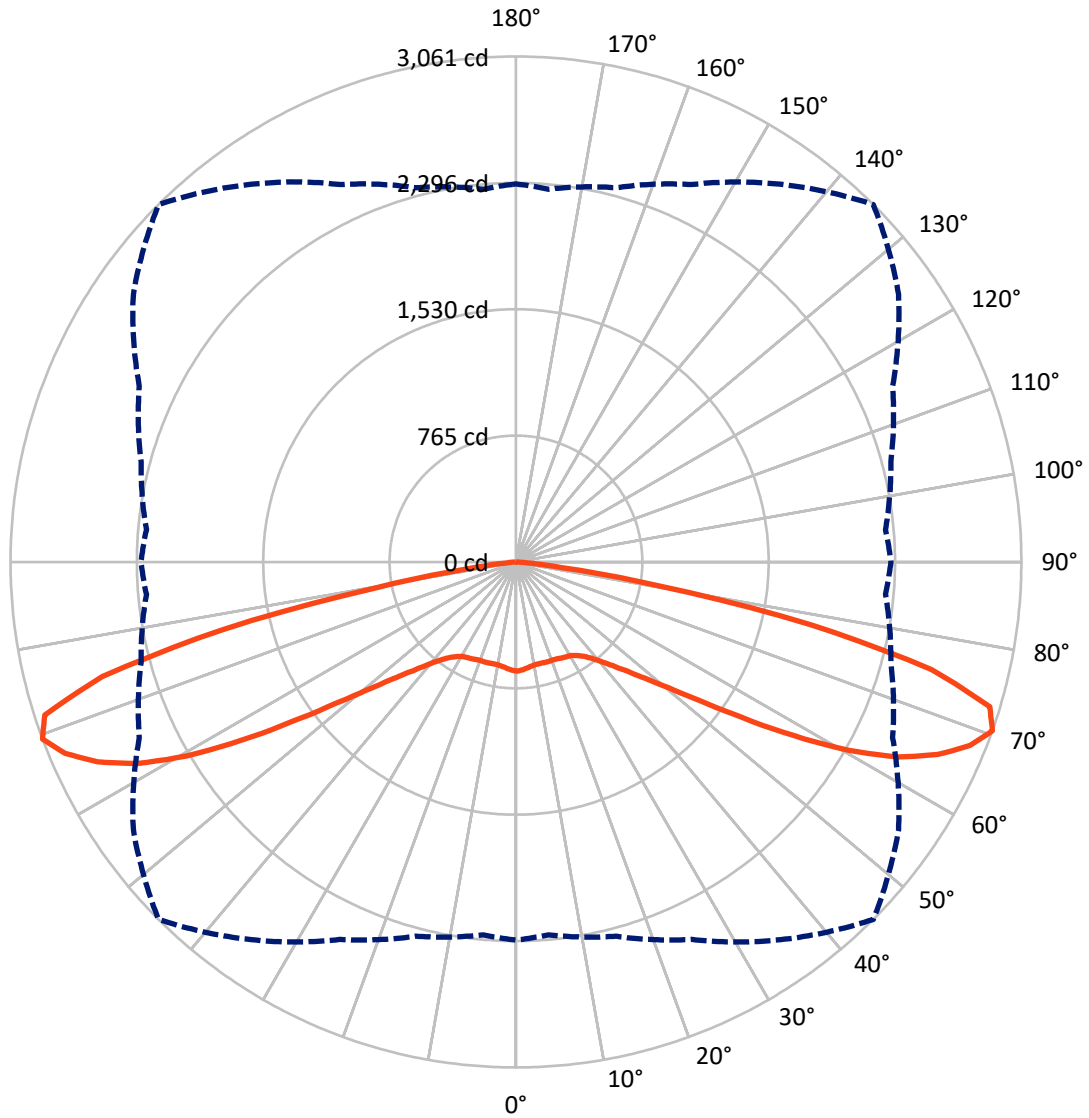
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P939160  
CATALOG NUMBER: GALN-SB1C-850-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P939160  
 CATALOG NUMBER: GALN-SB1C-850-U-5WQ

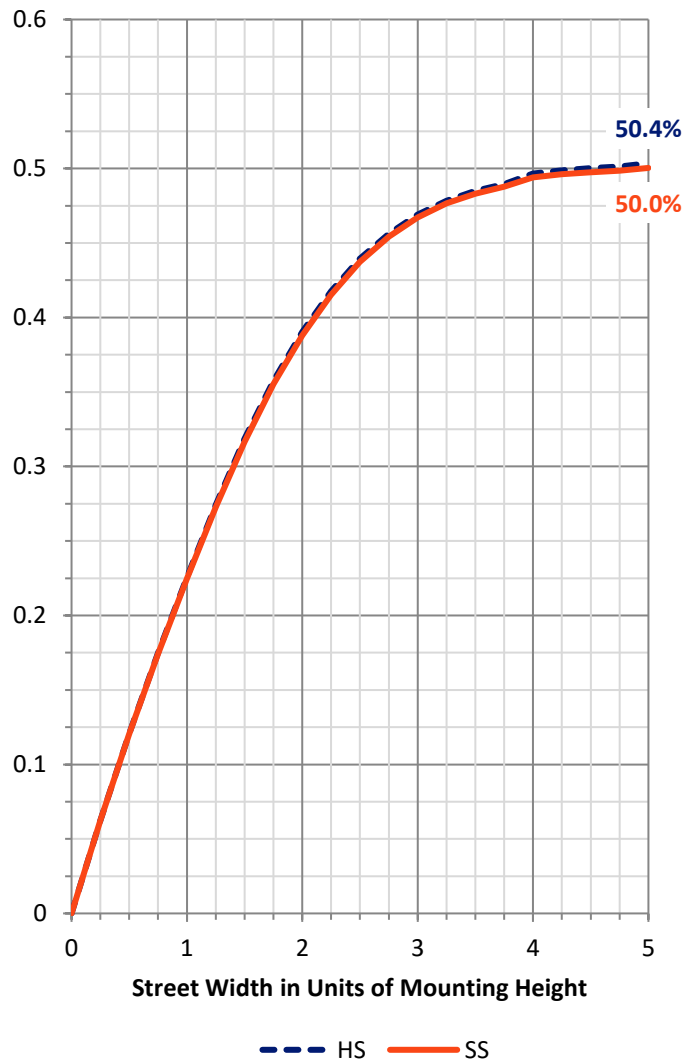
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3624.0	0.0	3624.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3624.0	0.0	3624.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7248.0	0.0	7248.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.5	0.8
10°-20°	180.6	2.5
20°-30°	300.5	4.1
30°-40°	454.5	6.3
40°-50°	755.2	10.4
50°-60°	1425.1	19.7
60°-70°	2406.4	33.2
70°-80°	1581.2	21.8
80°-90°	82.8	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°	7248.0	100.0
0°-180°	7248.0	100.0



REPORT NUMBER: P939160

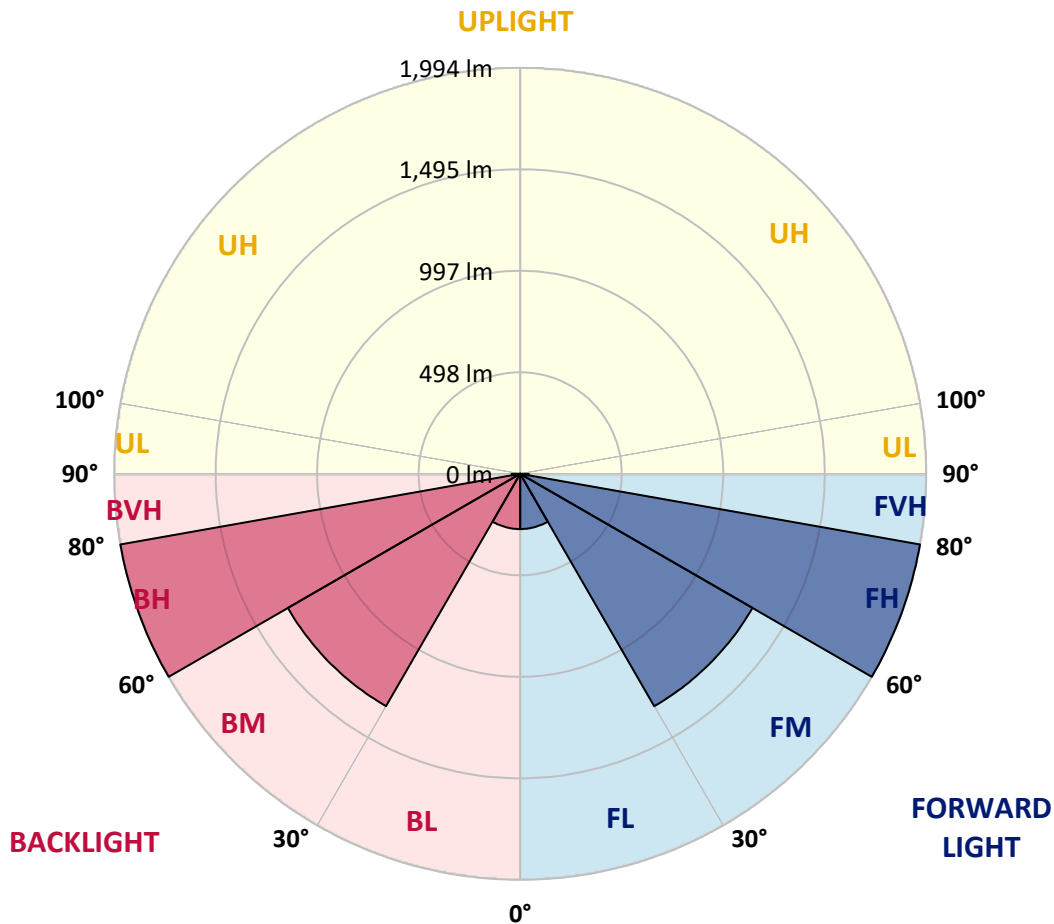
CATALOG NUMBER: GALN-SB1C-850-U-5WQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.3	3.7			
FM (30°-60°)	1317.4	18.2			
FH (60°-80°)	1993.8	27.5			G2/5000
FVH (80°-90°)	41.4	0.6			G1/100
BL (0°-30°)	271.3	3.7	B1/500		
BM (30°-60°)	1317.4	18.2	B2/2500		
BH (60°-80°)	1993.8	27.5	B3/2500		G2/5000
BVH (80°-90°)	41.4	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



REPORT NUMBER: P939160  
 CATALOG NUMBER: GALN-SB1C-850-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2
2.5°	657.0	658.9	658.1	656.6	656.6	655.5	656.6	657.4	658.5	659.3
5°	648.4	649.9	649.5	648.4	648.7	647.6	648.4	649.5	650.2	650.6
7.5°	640.8	642.3	641.6	639.7	639.7	638.6	638.9	640.1	641.2	641.6
10°	638.9	640.4	638.2	635.2	634.0	632.5	632.9	634.0	636.3	637.4
12.5°	639.7	640.8	638.6	634.0	632.9	631.4	631.4	632.5	635.5	637.1
15°	642.0	643.1	639.7	634.8	633.7	632.5	632.2	633.7	637.1	639.7
17.5°	646.1	647.2	642.0	635.2	633.7	634.0	633.7	634.8	640.1	645.0
20°	649.9	650.6	643.5	635.2	633.7	634.0	633.7	635.9	642.7	649.5
22.5°	651.0	651.7	645.0	637.8	636.7	637.1	636.7	638.9	645.3	652.1
25°	651.4	652.5	647.2	641.6	643.5	644.2	643.5	643.8	648.7	654.8
27.5°	657.0	658.5	653.6	648.7	649.9	649.5	650.6	651.7	655.5	661.5
30°	668.7	669.8	665.7	660.8	660.0	657.4	660.8	664.6	668.7	674.0
32.5°	687.9	690.2	684.9	679.6	676.2	674.7	677.4	683.8	689.4	695.1
35°	719.9	721.4	716.5	706.7	700.7	700.7	703.0	711.3	720.3	727.5
37.5°	765.1	767.0	758.4	746.7	737.6	737.6	740.7	749.3	762.9	773.1
40°	820.1	822.8	811.9	799.8	791.1	789.6	793.4	803.2	816.0	828.8
42.5°	886.4	889.5	875.1	864.6	857.8	857.8	859.7	868.7	880.4	896.2
45°	971.2	976.5	956.9	946.3	939.9	941.5	942.6	950.5	961.0	979.1
47.5°	1072.2	1077.5	1056.7	1045.8	1044.7	1051.8	1047.3	1053.0	1058.6	1079.3
50°	1186.7	1195.7	1181.4	1180.7	1182.9	1196.1	1185.6	1188.6	1182.2	1195.4
52.5°	1326.8	1340.0	1337.4	1341.9	1367.2	1394.3	1370.2	1359.6	1335.5	1339.7
55°	1496.8	1516.7	1520.5	1547.6	1604.9	1660.3	1609.0	1566.4	1515.2	1505.8
57.5°	1690.0	1705.8	1723.9	1779.3	1886.3	1984.6	1886.3	1792.1	1711.5	1692.3
60°	1898.0	1917.6	1934.9	2016.6	2175.6	2313.9	2172.6	2023.0	1916.4	1890.4
62.5°	2121.4	2146.6	2158.7	2249.5	2434.8	2599.8	2437.5	2256.2	2138.0	2110.1
65°	2335.7	2356.5	2370.0	2466.8	2643.9	2809.3	2656.0	2477.4	2355.7	2319.2
67.5°	2435.6	2446.9	2480.0	2589.7	2776.5	2965.3	2808.2	2601.3	2465.3	2401.3
70°	2289.4	2266.4	2346.3	2521.8	2792.3	3060.9	2828.5	2516.6	2350.1	2246.1
72.5°	1769.1	1729.6	1868.2	2168.5	2611.5	2999.9	2629.6	2185.4	1954.5	1743.5
75°	962.5	917.7	1109.1	1488.8	2082.6	2600.2	2130.4	1531.4	1234.9	955.4
77.5°	271.6	254.7	409.1	720.3	1252.6	1825.6	1300.9	736.1	485.2	287.8
80°	83.3	80.6	109.3	217.0	531.9	874.4	511.2	219.6	139.0	87.8
82.5°	49.4	45.2	54.2	79.1	135.6	274.6	131.9	82.5	66.3	44.5
85°	28.3	26.4	32.0	38.4	45.6	58.4	38.0	39.2	35.4	23.7
87.5°	11.7	10.5	12.4	12.1	10.5	13.6	10.2	12.1	14.3	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
661.2
658.9
650.6
641.6
637.4
637.4
640.1
645.0
649.9
652.1
654.4
660.0
672.8
692.8
724.8
769.3
824.7
895.1
978.4
1073.3
1187.5
1325.7
1491.1
1678.7
1867.8
2087.5
2301.1
2402.0
2270.9
1795.9
1017.6
319.8
92.7
48.2
24.9
8.7
0.0

OF REPORT)