

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: P945422

Luminaire Tested: **GALN-SB1B-850-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-850-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

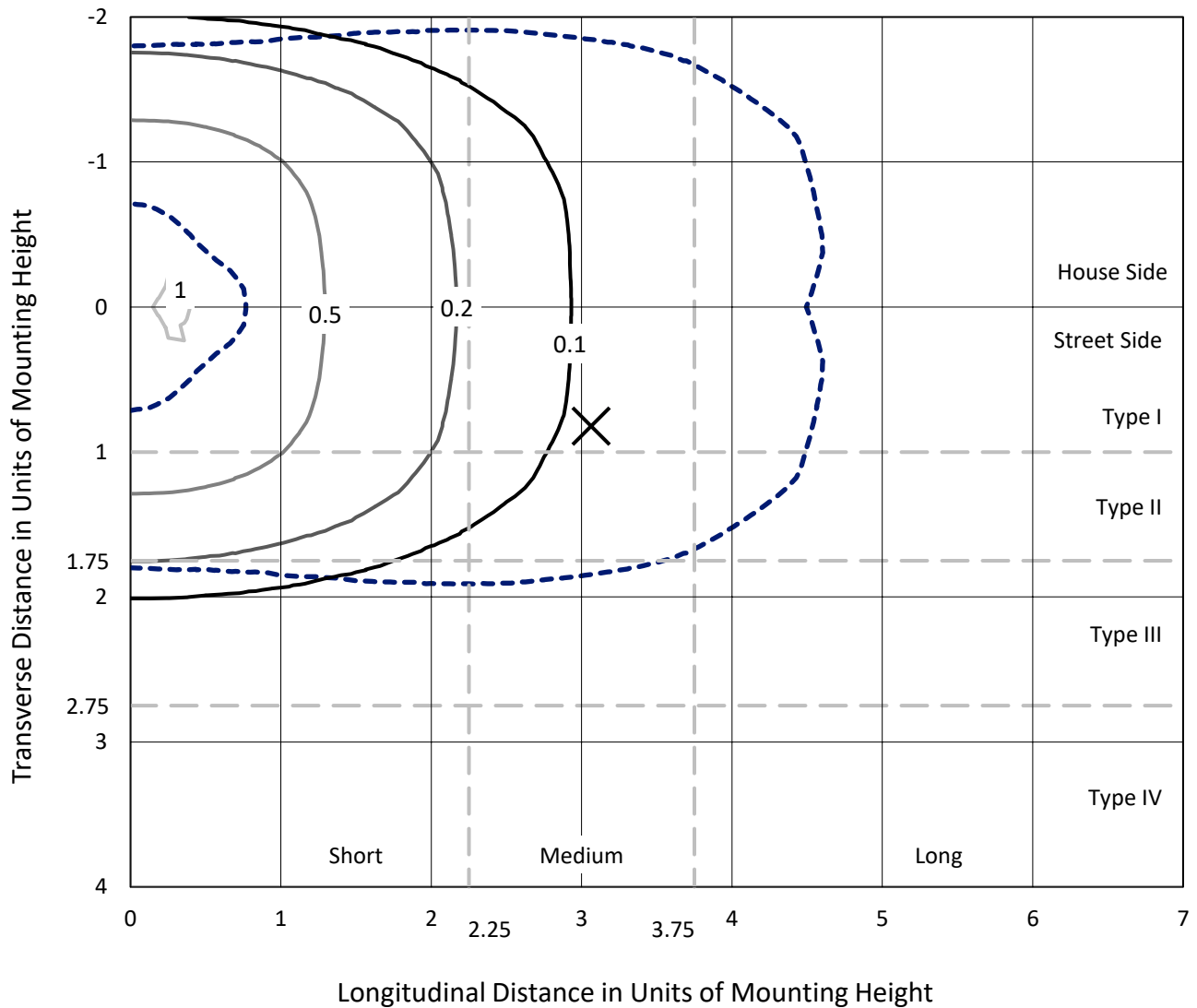
Lumens per Lamp: N/A  
Luminaire Lumens: 5548 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): 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

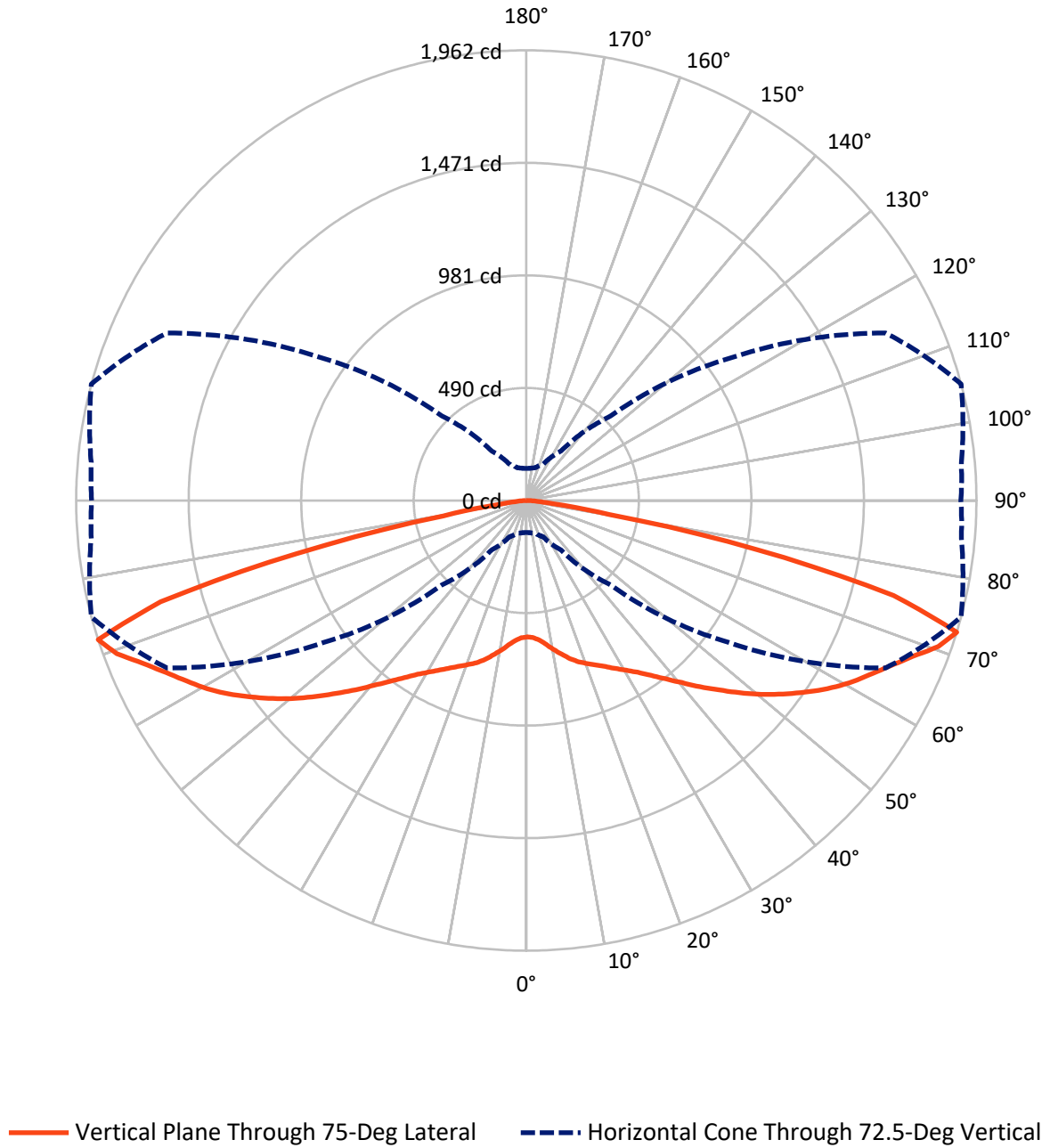
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2774.0	0.0	2774.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2774.0	0.0	2774.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5548.0	0.0	5548.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.2	1.0
10°-20°	192.0	3.5
20°-30°	371.0	6.7
30°-40°	626.5	11.3
40°-50°	993.5	17.9
50°-60°	1330.2	24.0
60°-70°	1265.9	22.8
70°-80°	660.6	11.9
80°-90°	50.0	0.9
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°	5548.0	100.0
0°-180°	5548.0	100.0

**Coefficient of Utilization**



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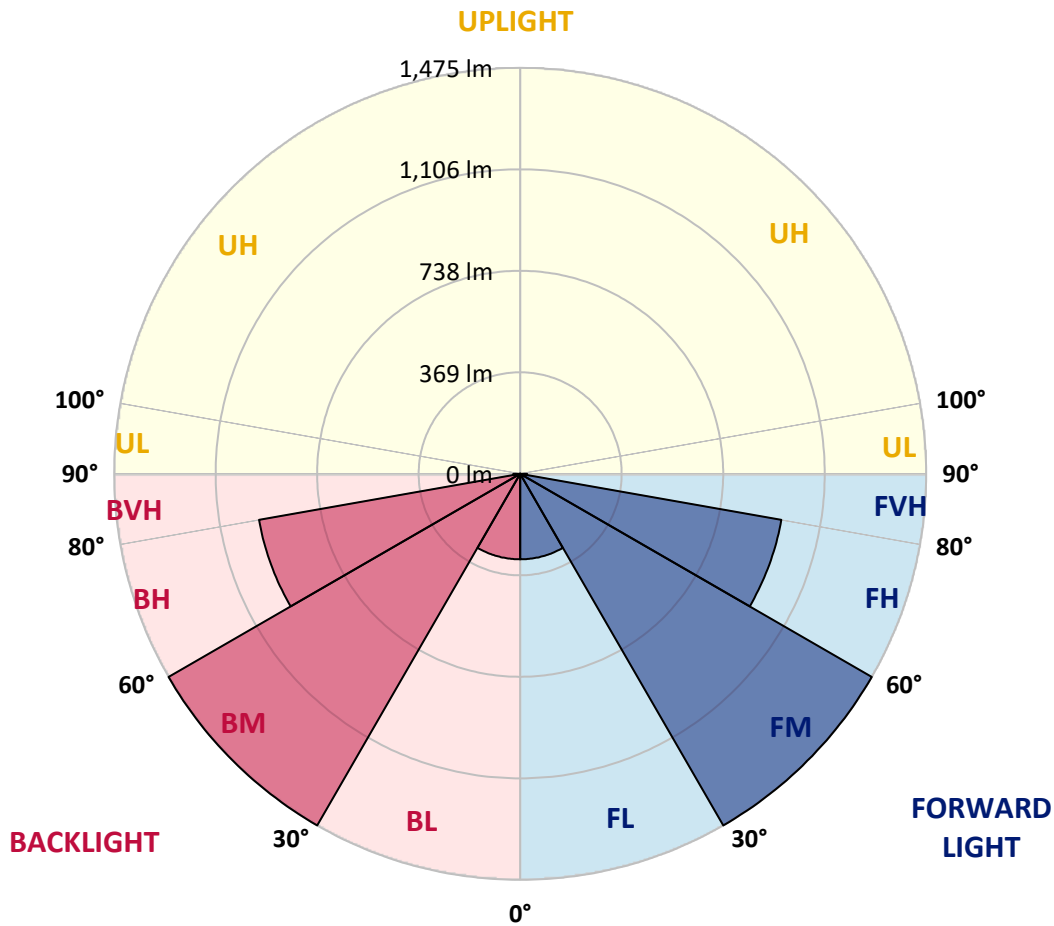
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.6	5.6			
FM (30°-60°)	1475.1	26.6			
FH (60°-80°)	963.3	17.4			G1/1800
FVH (80°-90°)	25.0	0.5			G1/100
BL (0°-30°)	310.6	5.6	B1/500		
BM (30°-60°)	1475.1	26.6	B2/2500		
BH (60°-80°)	963.3	17.4	B2/1000		G2/1000
BVH (80°-90°)	25.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3
2.5°	594.3	593.7	594.3	594.9	594.6	594.6	596.0	596.8	598.5	598.3
5°	590.3	590.0	592.3	594.9	596.8	600.2	604.5	607.6	611.6	612.4
7.5°	588.3	587.5	591.5	596.0	602.2	610.7	618.9	627.4	634.2	636.5
10°	589.8	590.0	595.4	603.9	613.8	625.7	637.3	651.8	661.4	663.7
12.5°	596.3	595.7	604.8	618.4	632.0	647.0	660.6	676.4	686.9	692.3
15°	608.2	607.0	619.8	639.9	659.7	677.3	688.3	703.3	715.5	722.3
17.5°	622.3	622.9	639.6	665.7	691.7	711.6	722.0	729.7	739.0	745.0
20°	647.3	648.4	667.1	698.0	727.7	750.4	758.9	756.0	758.6	763.1
22.5°	680.7	681.3	702.2	735.6	766.8	791.7	797.4	785.8	778.7	781.8
25°	719.5	723.2	744.1	778.4	810.4	834.2	836.8	819.2	801.6	802.5
27.5°	766.8	770.2	791.4	825.4	858.0	878.7	878.4	854.9	829.1	822.6
30°	818.1	821.8	843.6	878.7	909.0	927.1	923.2	895.1	858.3	846.1
32.5°	879.0	881.2	903.3	938.5	966.5	980.9	972.7	938.2	892.3	878.4
35°	952.6	956.0	972.4	1005.6	1030.2	1042.1	1028.3	987.5	935.9	920.3
37.5°	1036.8	1034.5	1053.2	1082.6	1103.0	1110.4	1091.4	1043.0	985.8	967.4
40°	1124.6	1123.4	1143.8	1172.2	1183.2	1187.7	1159.7	1106.7	1043.3	1023.4
42.5°	1204.2	1203.3	1230.8	1262.2	1275.5	1270.4	1235.0	1174.4	1109.8	1087.2
45°	1267.9	1266.8	1300.5	1344.7	1370.7	1362.2	1314.6	1249.2	1177.2	1153.7
47.5°	1316.9	1317.5	1353.7	1408.4	1454.0	1457.1	1395.9	1325.4	1251.5	1224.8
50°	1352.3	1354.0	1392.8	1453.4	1515.8	1543.2	1478.9	1403.6	1328.2	1298.2
52.5°	1361.1	1364.2	1410.9	1482.0	1555.4	1607.8	1563.3	1478.6	1401.0	1372.4
55°	1314.3	1320.6	1379.8	1479.8	1579.8	1650.3	1637.6	1554.8	1474.4	1444.9
57.5°	1207.0	1215.8	1284.9	1415.5	1574.4	1679.5	1695.1	1627.9	1547.8	1519.4
60°	1056.6	1067.1	1133.3	1275.8	1498.5	1690.2	1735.6	1699.0	1615.2	1587.7
62.5°	829.7	843.3	922.6	1089.7	1338.1	1640.1	1770.1	1763.3	1675.8	1641.5
65°	532.3	546.7	630.3	827.7	1124.3	1486.6	1780.9	1825.9	1739.8	1691.9
67.5°	320.9	327.5	368.8	501.7	821.8	1255.1	1689.7	1895.3	1814.6	1755.1
70°	205.4	209.0	233.7	294.6	464.6	915.8	1463.6	1908.4	1905.2	1820.0
72.5°	139.4	140.5	147.0	174.5	262.9	520.4	1079.5	1727.6	1961.9	1903.5
75°	102.0	108.2	118.7	123.5	149.3	260.0	618.7	1213.8	1653.4	1678.9
77.5°	75.9	76.2	90.6	96.3	106.5	138.5	261.7	677.6	1026.6	1077.8
80°	64.3	60.9	60.6	77.6	80.2	86.4	117.0	234.0	367.7	222.9
82.5°	53.5	49.9	45.0	60.6	54.7	53.0	50.7	95.2	117.0	57.5
85°	37.4	35.7	34.0	39.7	31.2	26.6	24.4	44.5	49.3	24.4
87.5°	16.1	16.7	17.0	17.6	13.0	9.3	9.3	12.5	12.5	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
594.3
598.0
612.4
637.1
666.0
694.6
724.9
747.8
766.5
784.1
803.9
824.6
847.5
881.8
922.6
970.7
1030.0
1092.8
1159.1
1232.8
1307.3
1379.8
1453.1
1525.9
1593.6
1645.5
1697.9
1759.6
1819.4
1894.5
1617.2
961.4
168.5
49.0
21.5
7.1
0.0

OF REPORT)