

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: P946490

Luminaire Tested: **GALN-SB2A-850-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946490  
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-SB2A-850-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

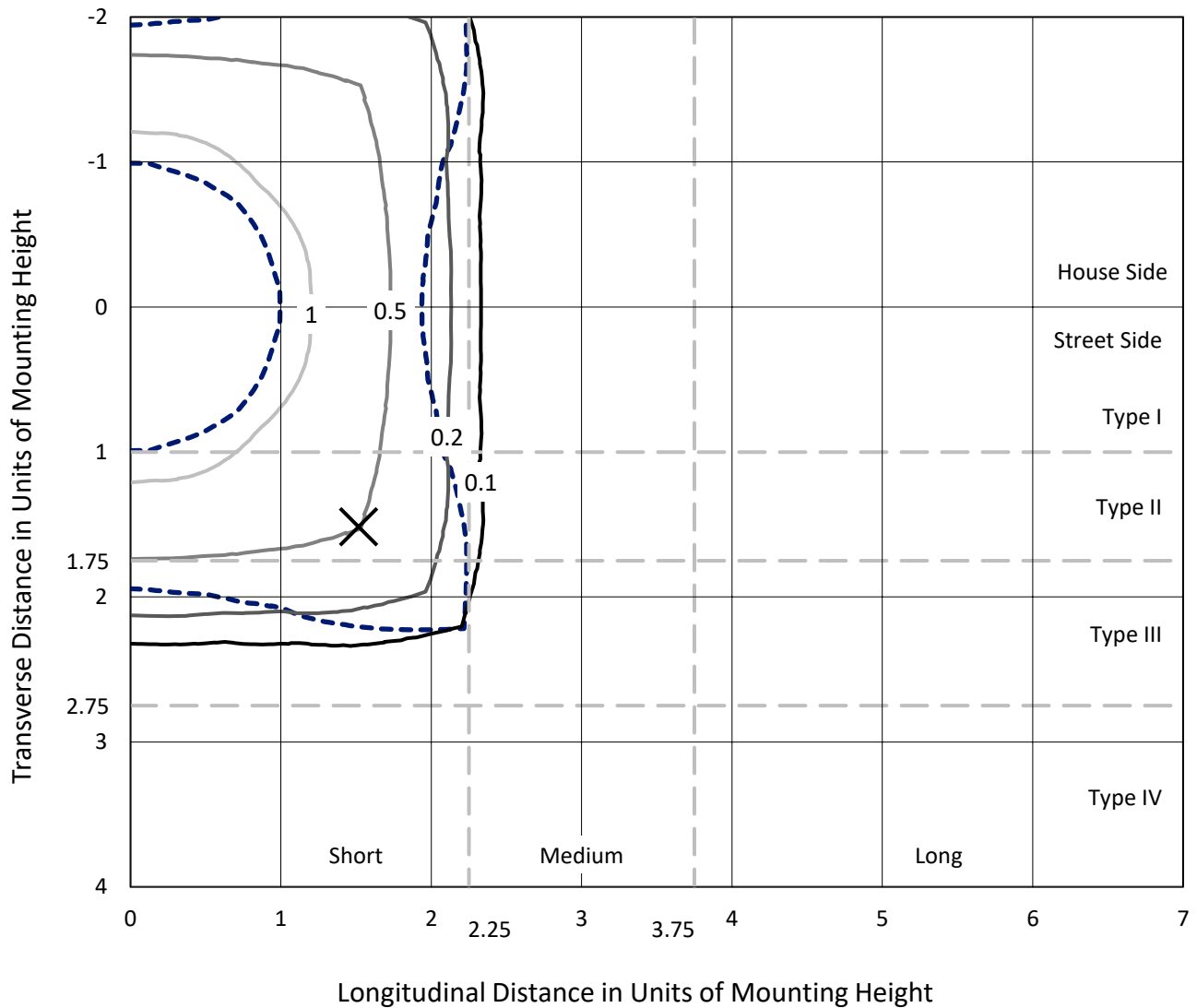
Lumens per Lamp: N/A  
Luminaire Lumens: 8992 lumens  
Efficiency: N/A  
Efficacy: 156.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

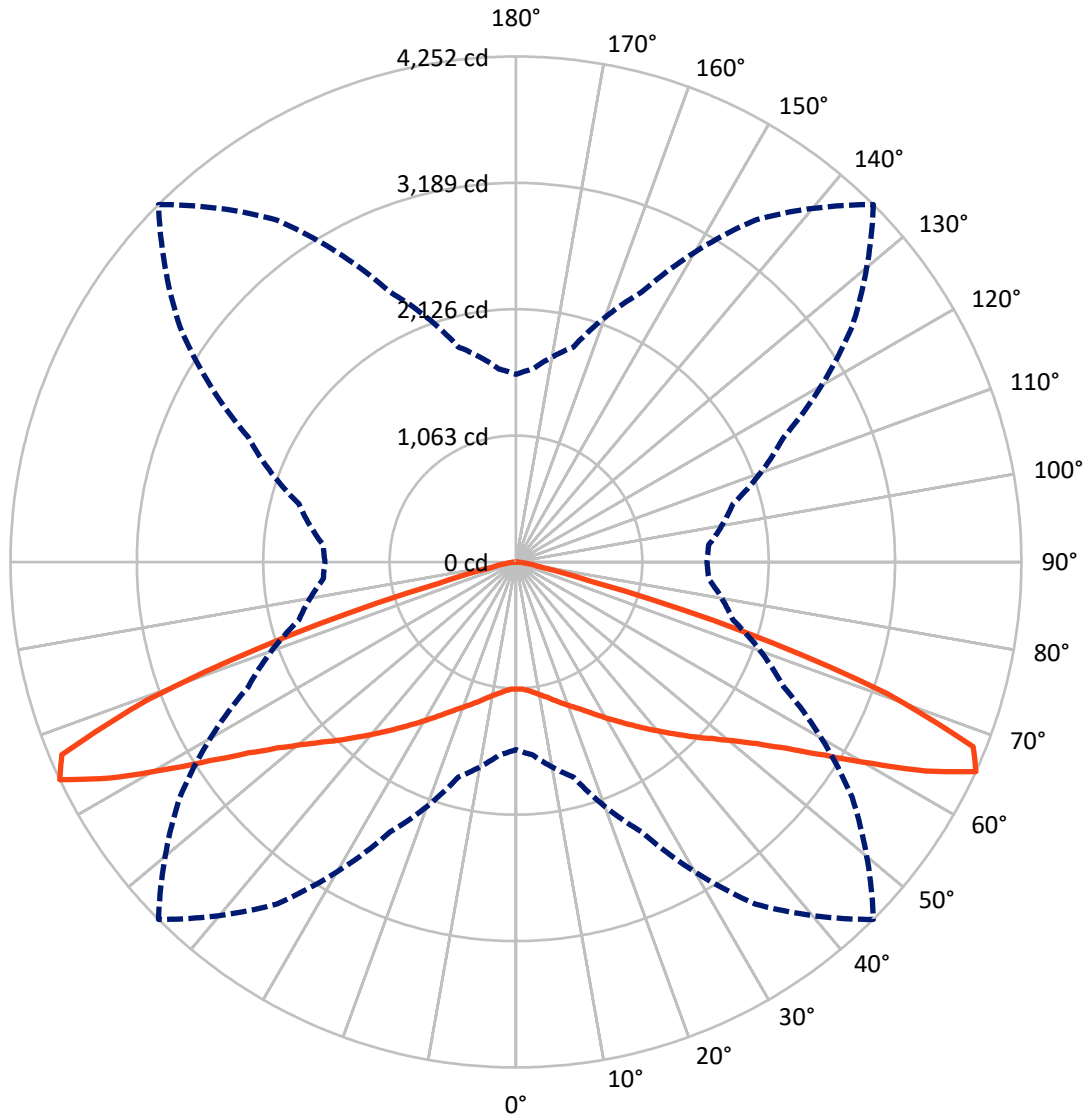
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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
<b>House Side</b>	Lumens	4496.0	0.0	4496.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4496.0	0.0	4496.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8992.0	0.0	8992.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.6	1.2
10°-20°	344.6	3.8
20°-30°	650.7	7.2
30°-40°	1065.5	11.8
40°-50°	1652.0	18.4
50°-60°	2440.4	27.1
60°-70°	2323.0	25.8
70°-80°	374.9	4.2
80°-90°	35.3	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°	8992.0	100.0
0°-180°	8992.0	100.0

**Coefficient of Utilization**



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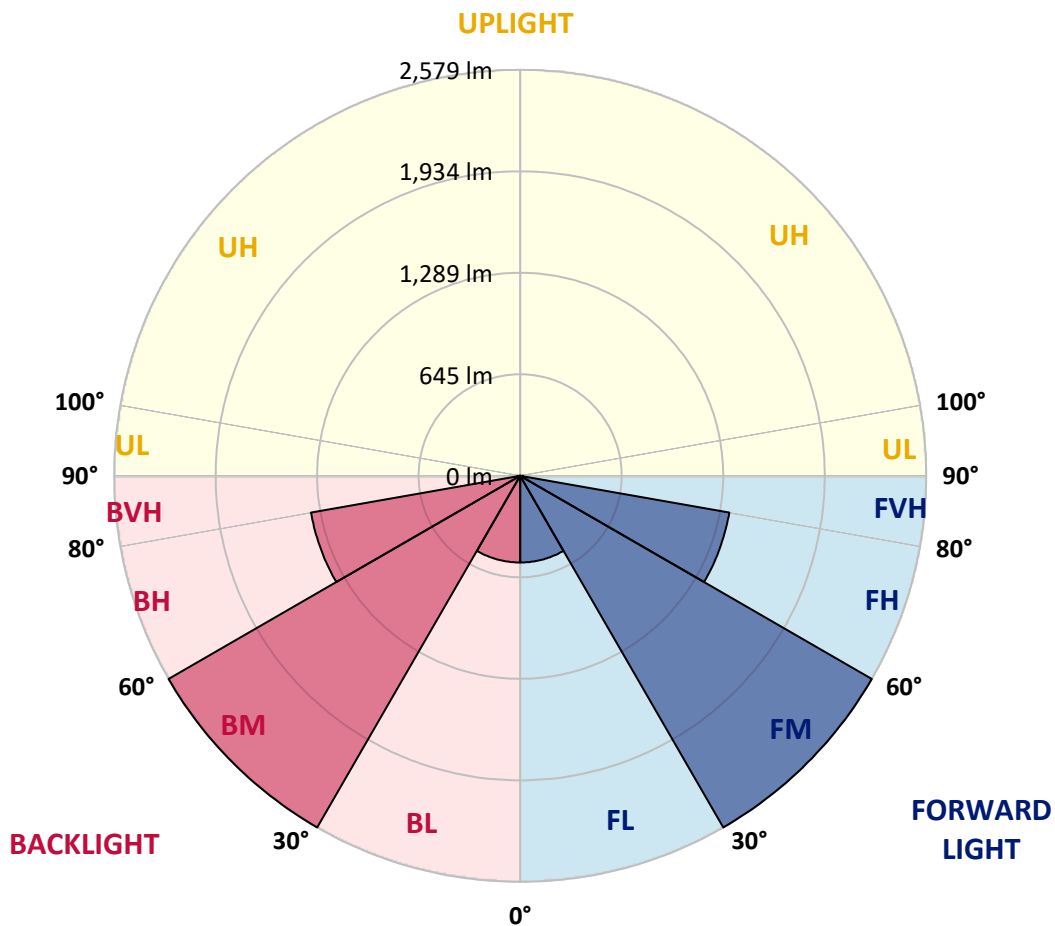
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.5	6.1			
FM (30°-60°)	2578.9	28.7			
FH (60°-80°)	1348.9	15.0			G1/1800
FVH (80°-90°)	17.7	0.2			G1/100
BL (0°-30°)	550.5	6.1	B2/1000		
BM (30°-60°)	2578.9	28.7	B3/5000		
BH (60°-80°)	1348.9	15.0	B3/2500		G1/1800
BVH (80°-90°)	17.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1
2.5°	1077.4	1073.7	1076.5	1074.2	1072.4	1070.6	1071.5	1074.6	1076.0	1076.5
5°	1091.8	1088.6	1090.0	1090.0	1086.8	1085.9	1086.4	1088.6	1091.3	1091.3
7.5°	1115.3	1112.1	1115.3	1113.4	1110.7	1109.8	1109.4	1111.2	1115.3	1115.3
10°	1143.7	1140.1	1141.9	1141.0	1137.8	1136.5	1136.0	1138.7	1142.3	1141.9
12.5°	1174.8	1170.7	1173.0	1170.3	1169.4	1168.0	1168.0	1167.6	1169.8	1168.0
15°	1209.5	1206.8	1207.7	1205.9	1207.3	1206.4	1202.8	1201.0	1201.9	1199.2
17.5°	1250.6	1244.3	1247.4	1246.5	1246.5	1248.3	1242.5	1240.2	1242.0	1239.3
20°	1298.0	1291.7	1293.0	1291.2	1288.9	1290.8	1283.5	1285.3	1286.7	1284.9
22.5°	1349.9	1341.7	1341.3	1342.2	1337.2	1337.7	1332.7	1337.2	1339.9	1335.0
25°	1403.1	1394.5	1400.4	1398.1	1391.8	1393.2	1389.6	1394.1	1396.3	1390.0
27.5°	1459.5	1453.6	1459.0	1460.4	1452.7	1458.1	1452.7	1456.8	1459.0	1449.6
30°	1525.4	1519.5	1524.5	1528.1	1519.0	1527.6	1523.1	1525.8	1526.3	1515.0
32.5°	1597.1	1588.1	1600.7	1602.5	1592.6	1603.0	1597.1	1600.7	1603.0	1587.6
35°	1684.6	1673.3	1687.8	1685.5	1676.9	1685.5	1680.1	1685.5	1690.9	1672.4
37.5°	1778.9	1767.2	1782.5	1778.5	1770.3	1776.2	1773.0	1776.6	1785.2	1765.4
40°	1882.7	1868.2	1889.0	1881.8	1874.1	1873.2	1875.0	1877.3	1888.5	1866.4
42.5°	1993.7	1978.3	2009.4	1998.2	1987.3	1980.1	1986.0	1990.5	2001.3	1976.5
45°	2120.4	2102.8	2143.4	2129.9	2112.8	2097.9	2107.3	2114.1	2129.9	2100.1
47.5°	2260.3	2240.4	2283.7	2279.7	2251.7	2219.2	2240.9	2260.3	2272.0	2235.9
50°	2397.0	2381.6	2438.5	2443.5	2409.2	2363.6	2393.8	2423.1	2426.3	2378.9
52.5°	2525.1	2509.8	2592.3	2623.5	2592.8	2538.6	2570.7	2600.5	2576.5	2515.2
55°	2627.5	2614.9	2720.0	2800.3	2810.7	2766.0	2785.0	2784.1	2705.6	2611.3
57.5°	2652.3	2650.5	2783.2	2953.3	3061.5	3066.9	3029.5	2933.9	2764.7	2637.9
60°	2539.5	2550.8	2733.1	3033.1	3321.8	3441.9	3279.9	3006.9	2697.5	2521.5
62.5°	2202.1	2231.9	2451.6	2935.7	3532.1	3873.2	3480.7	2896.0	2421.3	2191.7
65°	1578.1	1630.0	1872.7	2505.3	3513.1	4252.1	3451.8	2485.0	1890.8	1626.0
67.5°	716.0	768.8	974.9	1715.3	3053.9	4149.3	3046.6	1733.3	1023.7	771.5
70°	259.4	268.4	334.8	686.7	1951.7	3306.1	2035.2	691.6	356.0	286.0
72.5°	157.0	158.4	172.3	245.9	678.1	2007.2	707.0	254.0	176.0	156.1
75°	99.7	98.8	122.7	150.2	240.5	677.2	252.2	150.2	122.3	111.4
77.5°	71.7	74.0	88.0	112.3	151.6	229.6	148.9	107.4	88.0	72.2
80°	53.7	55.0	64.1	87.5	106.5	143.0	94.7	79.4	66.3	45.1
82.5°	38.8	38.8	42.0	63.6	65.0	77.1	51.4	55.9	43.8	32.0
85°	23.0	22.6	26.2	37.9	33.8	28.4	23.5	34.3	27.5	19.9
87.5°	8.1	8.6	8.1	10.8	9.0	7.7	7.2	9.5	7.7	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
1070.1
1076.5
1091.3
1113.9
1141.0
1168.9
1199.6
1241.6
1288.9
1339.9
1397.2
1456.8
1521.7
1598.0
1683.7
1777.5
1873.6
1989.6
2115.5
2248.1
2384.8
2517.0
2614.4
2629.8
2500.7
2178.2
1606.6
760.2
282.4
158.8
112.3
73.5
46.5
32.0
19.4
6.3
0.0

OF REPORT)