

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: P939500

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939500  
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-SB2A-850-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

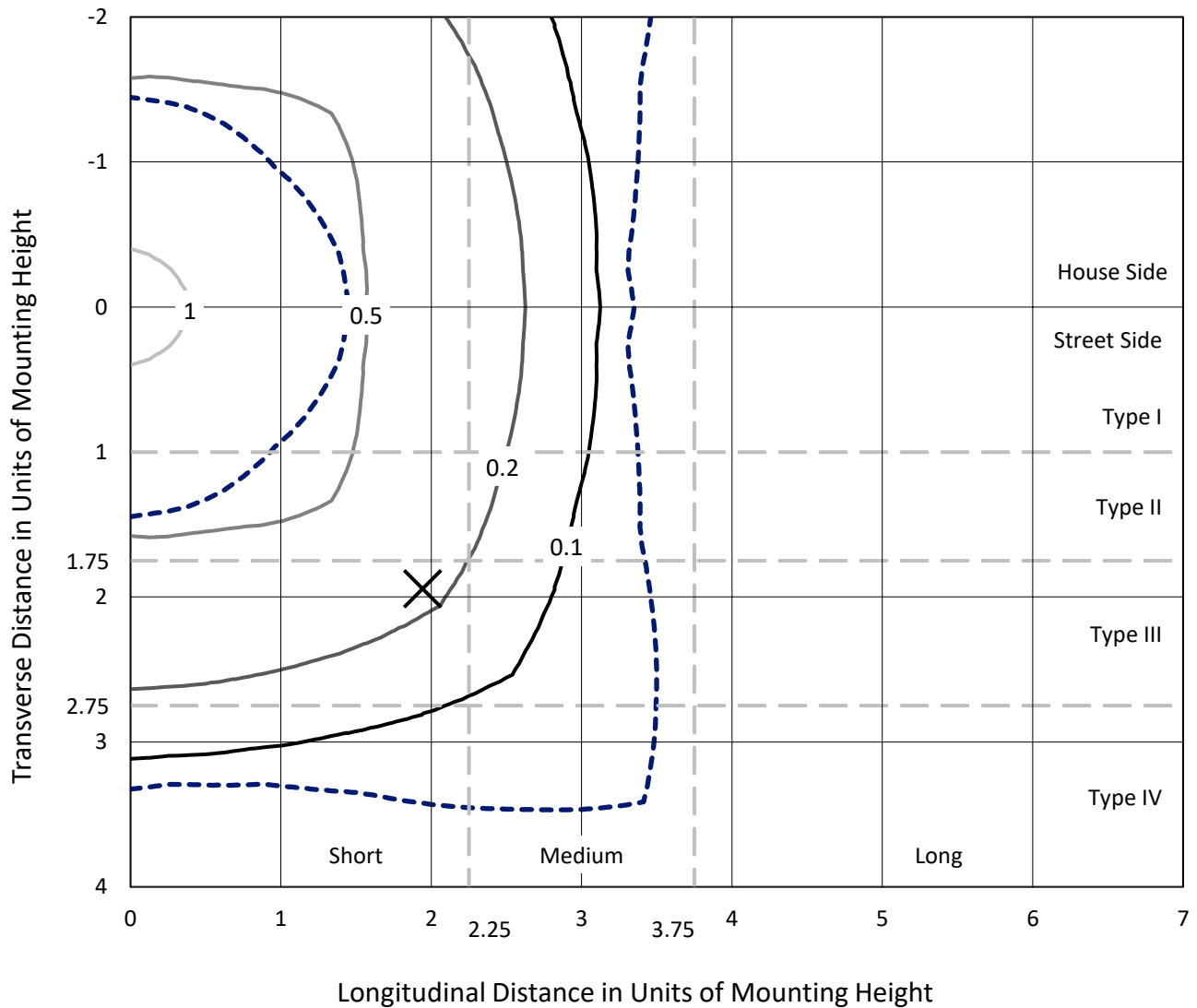
Lumens per Lamp: N/A  
Luminaire Lumens: 8679 lumens  
Efficiency: N/A  
Efficacy: 151.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

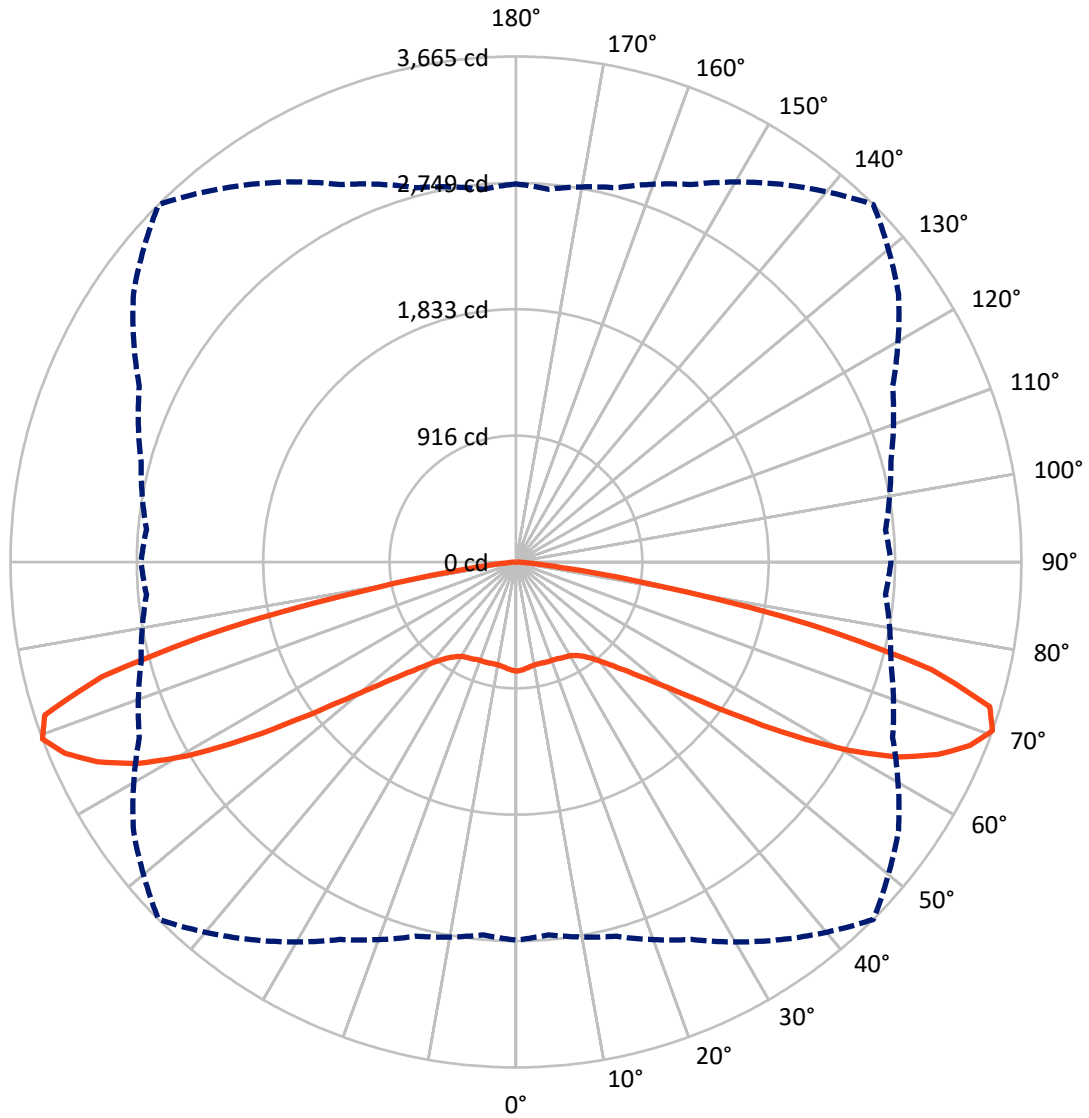
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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
<b>House Side</b>	Lumens	4339.5	0.0	4339.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4339.5	0.0	4339.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8679.0	0.0	8679.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	0.8
10°-20°	216.2	2.5
20°-30°	359.9	4.1
30°-40°	544.2	6.3
40°-50°	904.4	10.4
50°-60°	1706.5	19.7
60°-70°	2881.5	33.2
70°-80°	1893.4	21.8
80°-90°	99.2	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°	8679.0	100.0
0°-180°	8679.0	100.0

**Coefficient of Utilization**



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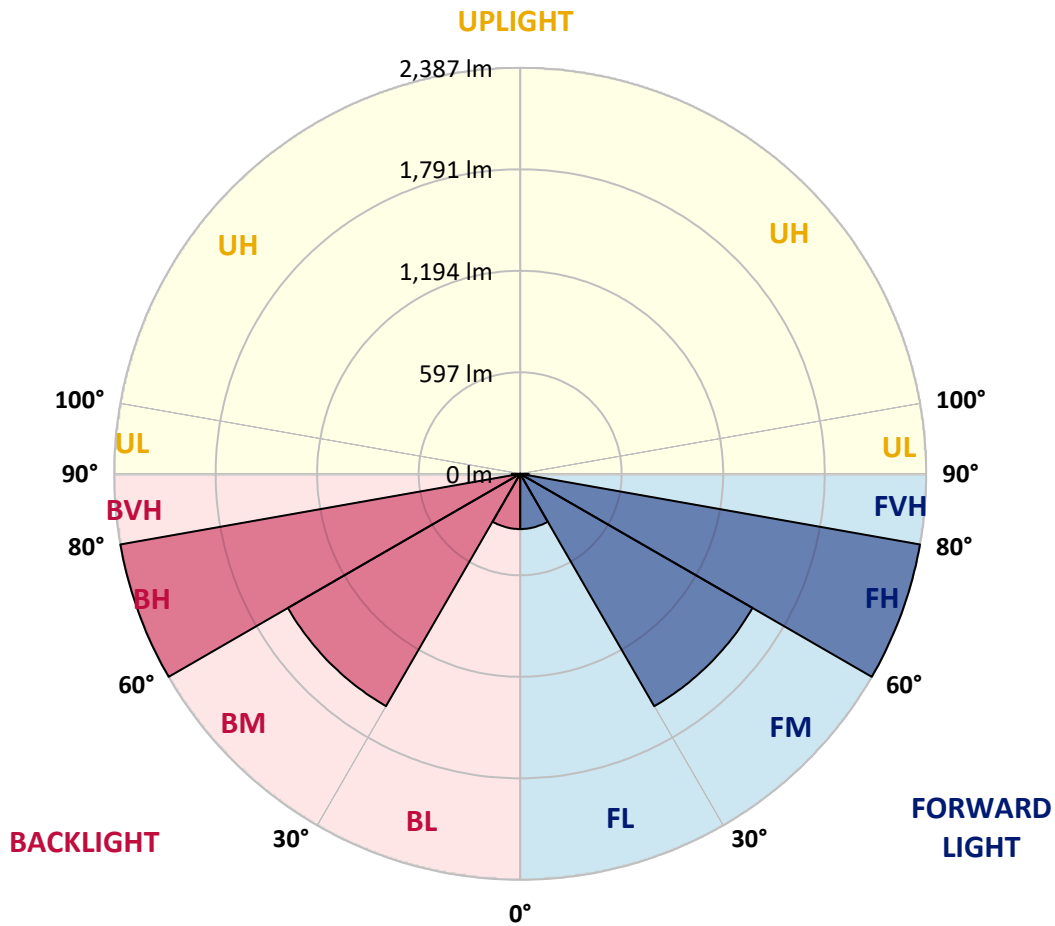
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.9	3.7			
FM (30°-60°)	1577.6	18.2			
FH (60°-80°)	2387.5	27.5			G2/5000
FVH (80°-90°)	49.6	0.6			G1/100
BL (0°-30°)	324.9	3.7	B1/500		
BM (30°-60°)	1577.6	18.2	B2/2500		
BH (60°-80°)	2387.5	27.5	B3/2500		G2/5000
BVH (80°-90°)	49.6	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	791.7	791.7	791.7	791.7	791.7	791.7	791.7	791.7	791.7	791.7
2.5°	786.7	789.0	788.1	786.3	786.3	784.9	786.3	787.2	788.5	789.4
5°	776.4	778.2	777.7	776.4	776.8	775.5	776.4	777.7	778.6	779.1
7.5°	767.3	769.1	768.2	766.0	766.0	764.6	765.1	766.4	767.8	768.2
10°	765.1	766.9	764.2	760.6	759.2	757.4	757.9	759.2	761.9	763.3
12.5°	766.0	767.3	764.6	759.2	757.9	756.1	756.1	757.4	761.0	762.8
15°	768.7	770.0	766.0	760.1	758.8	757.4	757.0	758.8	762.8	766.0
17.5°	773.7	775.0	768.7	760.6	758.8	759.2	758.8	760.1	766.4	772.3
20°	778.2	779.1	770.5	760.6	758.8	759.2	758.8	761.5	769.6	777.7
22.5°	779.5	780.4	772.3	763.7	762.4	762.8	762.4	765.1	772.8	780.9
25°	780.0	781.3	775.0	768.2	770.5	771.4	770.5	770.9	776.8	784.0
27.5°	786.7	788.5	782.7	776.8	778.2	777.7	779.1	780.4	784.9	792.2
30°	800.7	802.1	797.1	791.2	790.3	787.2	791.2	795.8	800.7	807.0
32.5°	823.7	826.4	820.1	813.8	809.7	807.9	811.1	818.8	825.5	832.3
35°	862.1	863.9	858.0	846.3	839.1	839.1	841.8	851.7	862.5	871.1
37.5°	916.2	918.5	908.1	894.1	883.3	883.3	886.9	897.3	913.5	925.7
40°	982.1	985.2	972.1	957.7	947.3	945.5	950.0	961.8	977.1	992.4
42.5°	1061.5	1065.1	1047.9	1035.3	1027.2	1027.2	1029.4	1040.3	1054.2	1073.2
45°	1163.0	1169.3	1145.8	1133.2	1125.5	1127.3	1128.7	1138.2	1150.8	1172.4
47.5°	1283.9	1290.2	1265.4	1252.3	1250.9	1259.5	1254.1	1260.9	1267.6	1292.4
50°	1421.0	1431.8	1414.7	1413.8	1416.5	1432.3	1419.6	1423.3	1415.6	1431.4
52.5°	1588.8	1604.6	1601.4	1606.9	1637.1	1669.6	1640.7	1628.1	1599.2	1604.2
55°	1792.3	1816.2	1820.7	1853.2	1921.7	1988.0	1926.7	1875.7	1814.4	1803.1
57.5°	2023.7	2042.6	2064.3	2130.6	2258.7	2376.5	2258.7	2145.9	2049.4	2026.4
60°	2272.7	2296.2	2316.9	2414.8	2605.2	2770.7	2601.6	2422.5	2294.8	2263.7
62.5°	2540.2	2570.4	2584.9	2693.6	2915.5	3113.1	2918.7	2701.7	2560.1	2526.7
65°	2796.9	2821.7	2837.9	2953.9	3165.9	3363.9	3180.3	2966.5	2820.8	2777.0
67.5°	2916.4	2930.0	2969.7	3100.9	3324.7	3550.7	3362.6	3114.9	2952.1	2875.4
70°	2741.4	2713.9	2809.5	3019.7	3343.6	3665.3	3386.9	3013.4	2814.0	2689.5
72.5°	2118.4	2071.0	2237.1	2596.6	3127.1	3592.2	3148.8	2616.9	2340.4	2087.7
75°	1152.6	1098.9	1328.1	1782.8	2493.7	3113.6	2551.0	1833.8	1478.7	1144.0
77.5°	325.3	305.0	489.9	862.5	1499.9	2186.1	1557.7	881.5	581.0	344.6
80°	99.7	96.5	130.8	259.8	637.0	1047.0	612.2	263.0	166.5	105.1
82.5°	59.1	54.1	65.0	94.7	162.4	328.9	157.9	98.8	79.4	53.2
85°	33.8	31.6	38.3	46.0	54.6	69.9	45.6	46.9	42.4	28.4
87.5°	14.0	12.6	14.9	14.4	12.6	16.2	12.2	14.4	17.1	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
791.7
789.0
779.1
768.2
763.3
763.3
766.4
772.3
778.2
780.9
783.6
790.3
805.7
829.6
867.9
921.2
987.5
1071.8
1171.5
1285.2
1421.9
1587.5
1785.5
2010.1
2236.6
2499.6
2755.4
2876.3
2719.3
2150.4
1218.5
383.0
111.0
57.7
29.8
10.4
0.0

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