

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: P945061

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
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-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4495 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

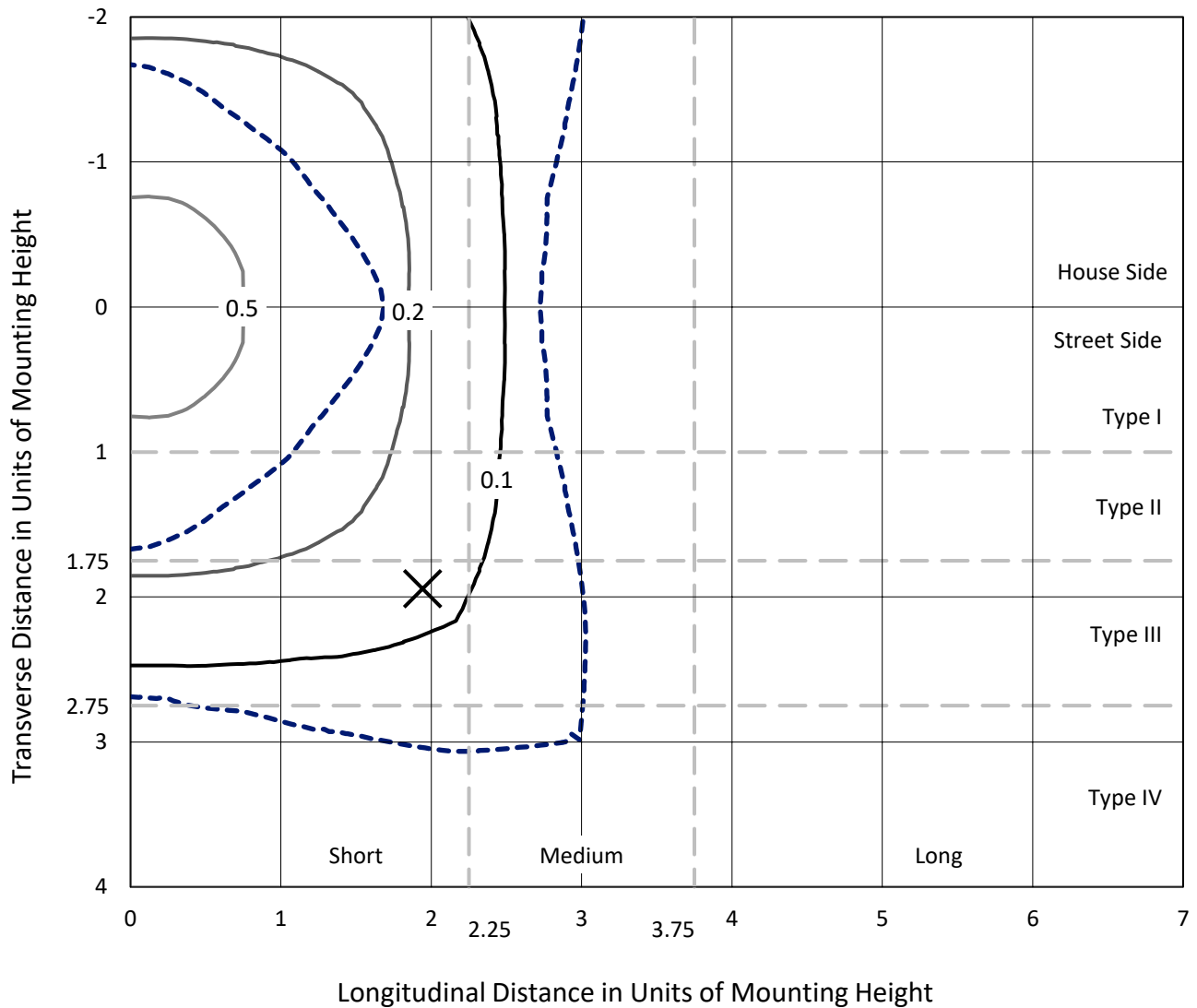
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

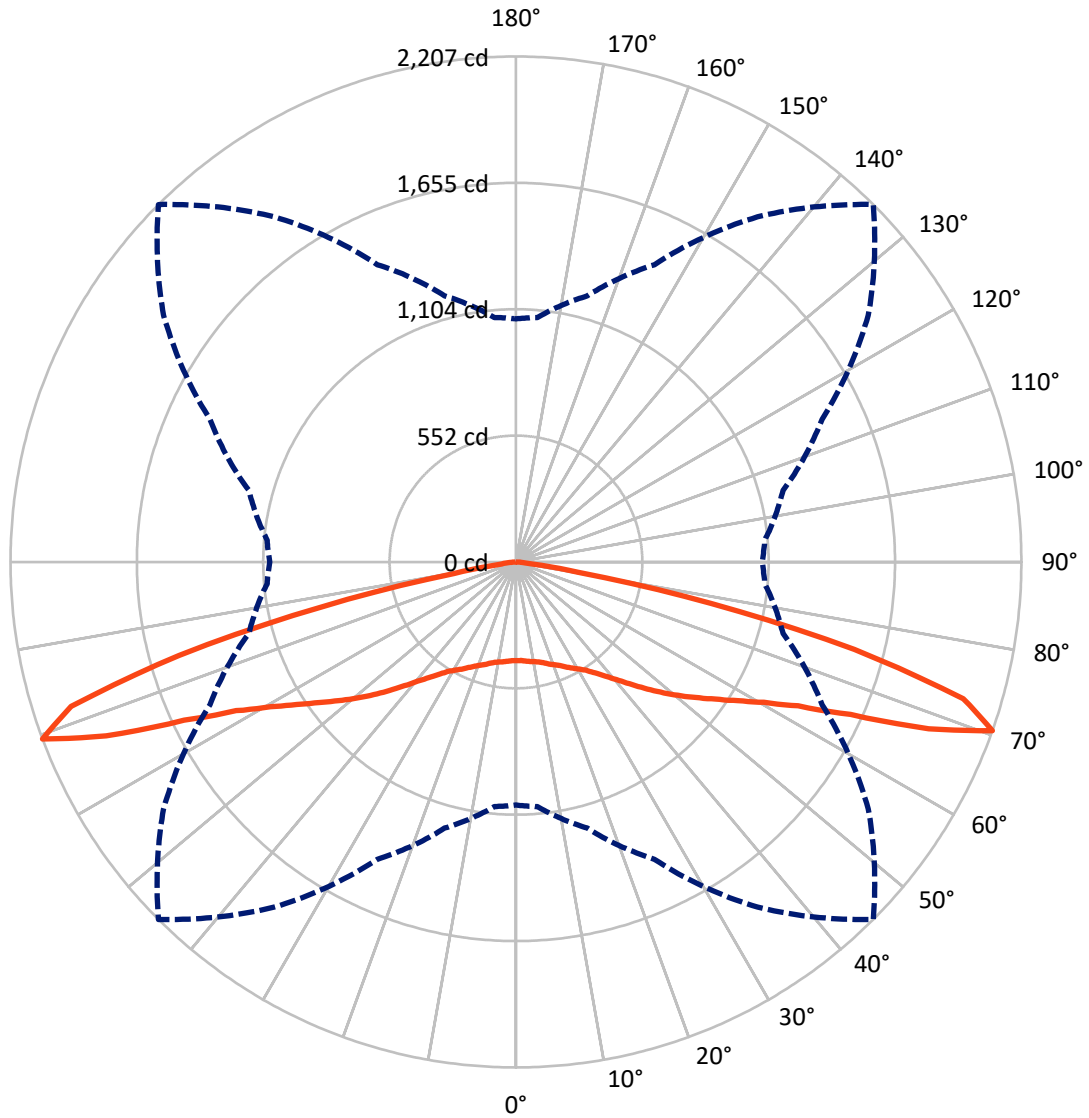
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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
House Side	Lumens	2247.5	0.0	2247.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2247.5	0.0	2247.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4495.0	0.0	4495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	0.9
10°-20°	129.7	2.9
20°-30°	231.8	5.2
30°-40°	375.8	8.4
40°-50°	612.0	13.6
50°-60°	933.2	20.8
60°-70°	1388.3	30.9
70°-80°	756.6	16.8
80°-90°	25.8	0.6
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°	4495.0	100.0
0°-180°	4495.0	100.0

Coefficient of Utilization



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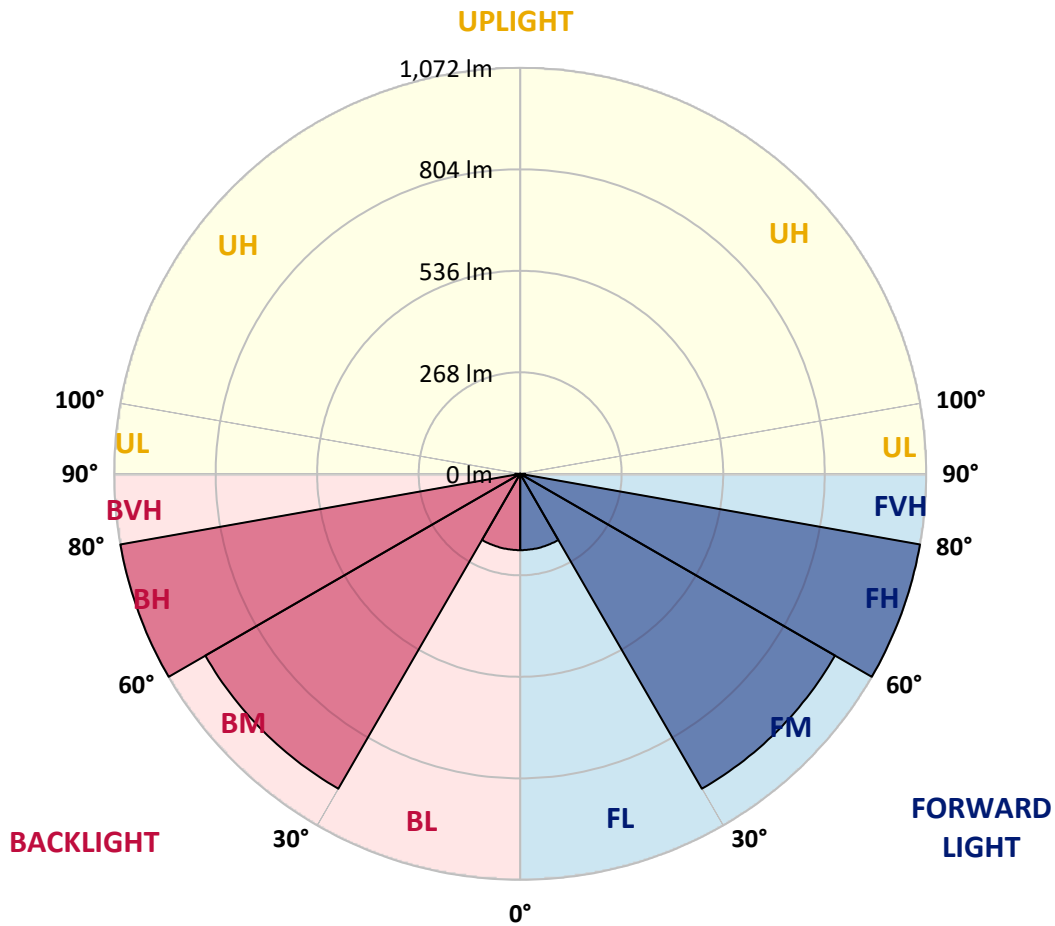
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	201.7	4.5			
FM (30°-60°)	960.5	21.4			
FH (60°-80°)	1072.5	23.9			G1/1800
FVH (80°-90°)	12.9	0.3			G1/100
BL (0°-30°)	201.7	4.5	B1/500		
BM (30°-60°)	960.5	21.4	B1/1000		
BH (60°-80°)	1072.5	23.9	B3/2500		G1/1800
BVH (80°-90°)	12.9	0.3			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°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6
2.5°	432.6	433.1	432.2	431.7	431.3	430.6	430.8	431.9	432.8	432.6
5°	436.2	436.7	436.0	435.8	434.9	434.6	434.6	435.8	436.4	436.0
7.5°	440.3	441.0	439.8	439.6	439.1	438.7	438.5	439.6	440.3	440.3
10°	444.1	444.8	443.9	443.2	442.8	442.8	442.3	443.2	444.3	444.1
12.5°	448.2	448.6	447.7	447.3	447.3	448.0	447.3	447.7	448.6	448.2
15°	453.1	453.4	453.1	453.8	454.9	457.2	455.2	454.7	455.2	454.0
17.5°	459.9	460.4	461.3	462.8	464.4	468.5	464.9	463.7	463.7	461.5
20°	468.3	468.9	470.3	473.0	475.0	478.9	475.3	473.7	473.0	470.1
22.5°	477.1	478.2	480.2	483.8	487.4	491.1	487.4	484.7	482.7	478.9
25°	487.2	488.6	491.7	497.6	502.6	507.8	503.5	498.0	494.0	488.6
27.5°	501.7	503.2	507.1	514.3	520.6	525.1	521.1	514.1	508.4	501.9
30°	522.0	523.5	528.1	535.7	540.0	543.0	540.2	534.8	528.1	520.6
32.5°	548.1	550.2	555.1	562.4	563.3	563.7	562.8	560.1	555.1	546.1
35°	581.3	583.6	589.2	595.1	594.2	595.1	593.7	592.8	589.2	578.8
37.5°	621.9	624.6	630.5	635.0	632.8	631.6	631.9	632.1	630.1	618.6
40°	669.1	672.7	677.0	681.7	677.9	674.5	676.8	678.6	676.8	665.0
42.5°	717.6	722.8	727.3	734.1	730.9	726.7	729.8	731.8	728.0	715.4
45°	771.6	776.5	782.4	792.5	790.3	785.8	790.3	790.7	784.2	769.3
47.5°	827.3	832.5	841.3	854.8	853.9	849.0	854.8	851.7	843.3	825.5
50°	880.1	887.3	900.9	919.8	921.6	915.5	923.4	917.3	903.3	881.0
52.5°	929.8	937.4	958.9	984.6	991.1	983.2	993.8	983.2	962.2	933.6
55°	981.9	990.5	1016.0	1049.6	1062.7	1056.8	1066.7	1050.7	1020.9	986.2
57.5°	1043.3	1048.5	1078.9	1118.9	1141.0	1142.3	1146.8	1119.8	1083.7	1044.2
60°	1109.8	1117.1	1150.2	1198.1	1233.0	1244.3	1239.6	1199.4	1157.5	1112.1
62.5°	1195.1	1203.0	1242.8	1300.1	1355.4	1383.3	1364.8	1306.6	1254.7	1200.3
65°	1265.8	1274.6	1346.3	1448.6	1549.2	1605.4	1558.9	1451.7	1358.3	1281.6
67.5°	1214.5	1225.4	1338.0	1525.7	1776.0	1943.7	1784.6	1548.8	1365.7	1261.7
70°	1061.5	1071.7	1203.0	1432.5	1839.9	2207.3	1878.2	1474.7	1207.3	1090.9
72.5°	704.8	737.5	870.4	1145.7	1642.9	2042.5	1659.1	1122.5	807.4	703.2
75°	233.8	260.0	350.7	594.0	1100.4	1527.5	1047.6	525.6	277.8	199.9
77.5°	58.9	67.9	93.7	169.9	438.9	869.7	395.1	138.8	75.6	52.8
80°	28.7	31.6	45.1	56.6	109.9	276.4	103.1	53.3	35.7	27.5
82.5°	15.8	16.0	25.5	32.0	40.8	71.5	42.4	31.1	20.5	16.7
85°	9.7	9.5	13.5	17.2	17.2	25.5	20.3	17.2	11.7	10.4
87.5°	3.8	3.8	5.0	5.4	4.7	6.5	5.2	5.6	4.5	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
430.6
432.8
436.2
440.3
444.1
448.0
454.0
461.5
470.1
478.6
488.3
501.7
520.6
546.3
578.8
618.6
665.0
716.3
770.9
824.4
880.6
930.9
981.4
1038.7
1104.9
1190.8
1268.9
1246.1
1075.3
680.4
189.1
47.2
25.3
16.7
10.8
4.5
0.0

OF REPORT)