

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: P945418

Luminaire Tested: **GALN-SB1B-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945418
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-SB1B-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5643 lumens
Efficiency: N/A
Efficacy: 141.8 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

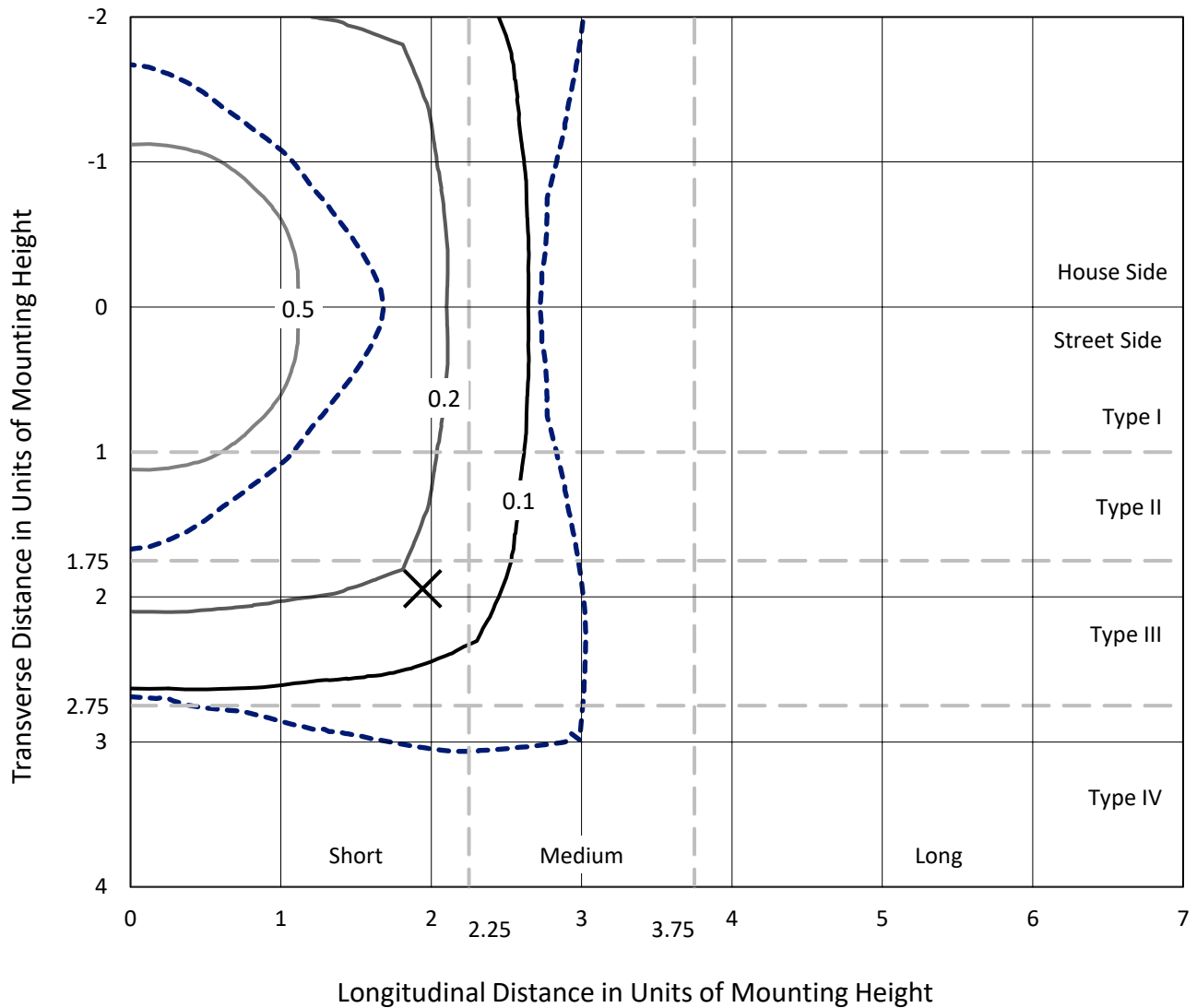
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

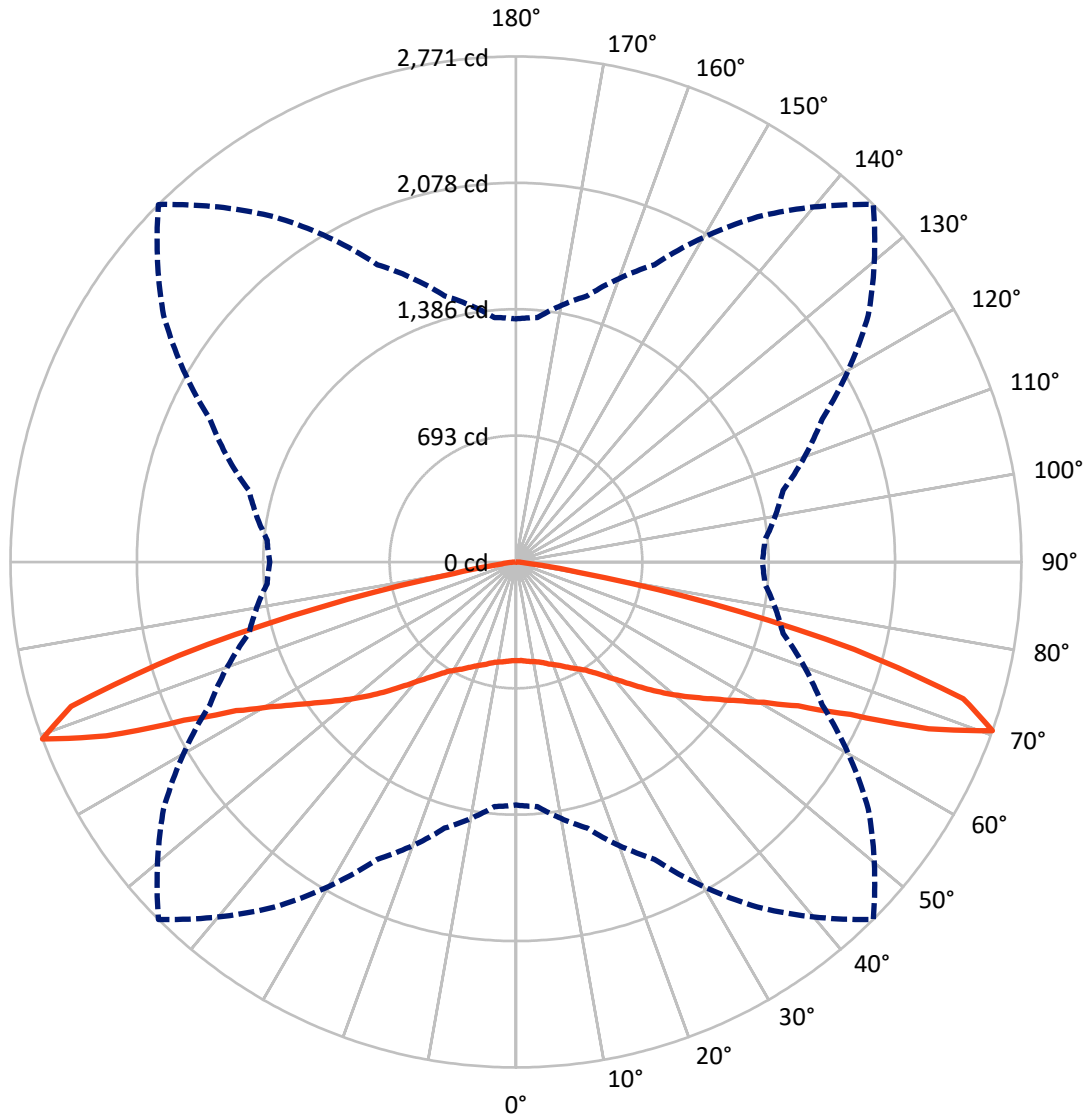
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

REPORT NUMBER: P945418
CATALOG NUMBER: GALN-SB1B-850-U-5MQ

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	2821.5	0.0	2821.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2821.5	0.0	2821.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5643.0	0.0	5643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	0.9
10°-20°	162.8	2.9
20°-30°	291.0	5.2
30°-40°	471.7	8.4
40°-50°	768.4	13.6
50°-60°	1171.5	20.8
60°-70°	1742.8	30.9
70°-80°	949.9	16.8
80°-90°	32.3	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°	5643.0	100.0
0°-180°	5643.0	100.0

Coefficient of Utilization



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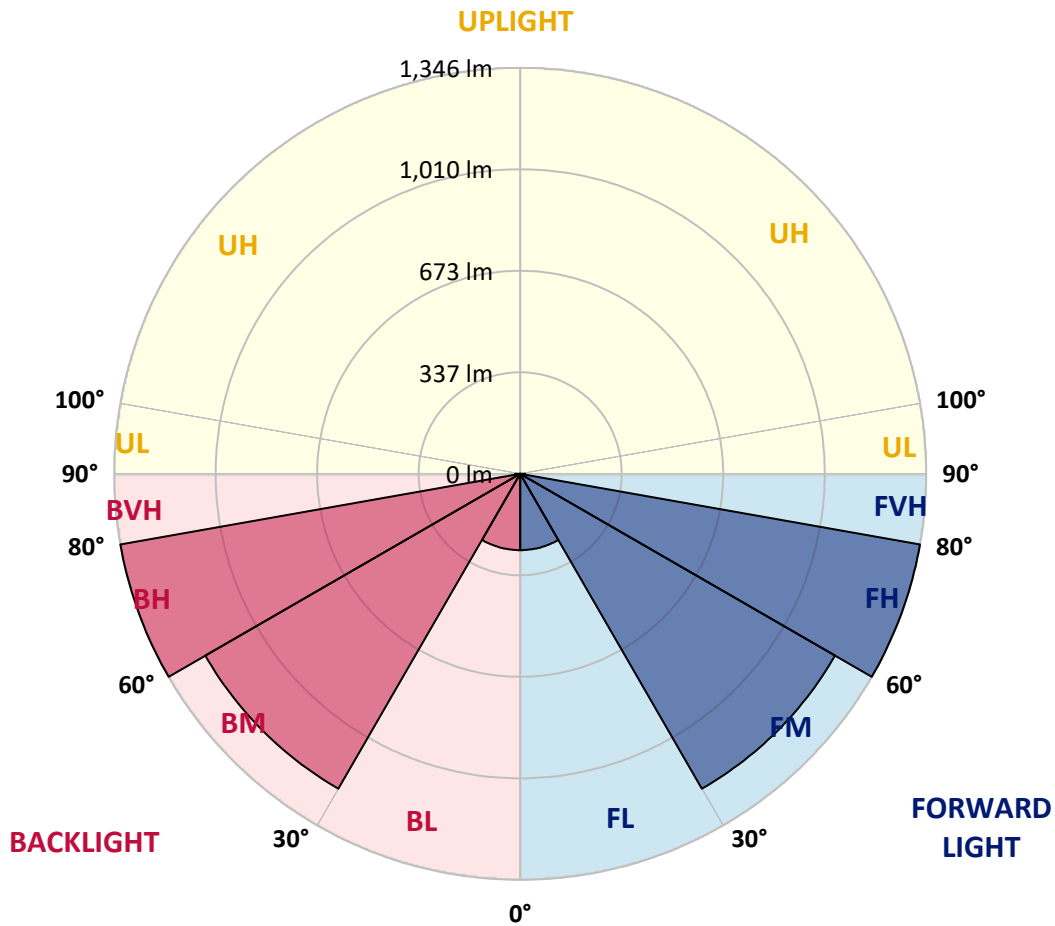
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.2	4.5			
FM (30°-60°)	1205.8	21.4			
FH (60°-80°)	1346.4	23.9			G1/1800
FVH (80°-90°)	16.2	0.3			G1/100
BL (0°-30°)	253.2	4.5	B1/500		
BM (30°-60°)	1205.8	21.4	B2/2500		
BH (60°-80°)	1346.4	23.9	B3/2500		G1/1800
BVH (80°-90°)	16.2	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°	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5
2.5°	543.1	543.7	542.5	542.0	541.4	540.5	540.8	542.2	543.4	543.1
5°	547.6	548.2	547.3	547.1	545.9	545.6	545.6	547.1	547.9	547.3
7.5°	552.7	553.6	552.2	551.9	551.3	550.7	550.5	551.9	552.7	552.7
10°	557.5	558.4	557.3	556.4	555.8	555.8	555.3	556.4	557.8	557.5
12.5°	562.6	563.2	562.1	561.5	561.5	562.4	561.5	562.1	563.2	562.6
15°	568.9	569.2	568.9	569.7	571.1	574.0	571.4	570.9	571.4	570.0
17.5°	577.4	577.9	579.1	581.1	583.0	588.1	583.6	582.2	582.2	579.4
20°	587.9	588.7	590.4	593.8	596.4	601.2	596.6	594.7	593.8	590.1
22.5°	598.9	600.3	602.9	607.4	611.9	616.5	611.9	608.5	606.0	601.2
25°	611.6	613.3	617.3	624.7	630.9	637.4	632.0	625.2	620.1	613.3
27.5°	629.8	631.8	636.6	645.6	653.6	659.2	654.1	645.4	638.3	630.1
30°	655.3	657.3	662.9	672.6	677.9	681.6	678.2	671.4	662.9	653.6
32.5°	688.1	690.7	696.9	706.0	707.1	707.7	706.6	703.2	696.9	685.6
35°	729.8	732.6	739.7	747.1	745.9	747.1	745.4	744.2	739.7	726.7
37.5°	780.8	784.2	791.5	797.2	794.4	793.0	793.2	793.5	791.0	776.5
40°	840.0	844.5	849.9	855.9	851.0	846.8	849.6	851.9	849.6	834.9
42.5°	900.9	907.4	913.1	921.6	917.6	912.2	916.2	918.7	913.9	898.1
45°	968.6	974.8	982.2	995.0	992.1	986.5	992.1	992.7	984.5	965.8
47.5°	1038.6	1045.1	1056.2	1073.1	1072.0	1065.8	1073.1	1069.2	1058.7	1036.3
50°	1104.9	1113.9	1130.9	1154.7	1157.0	1149.4	1159.3	1151.6	1134.1	1106.0
52.5°	1167.2	1176.8	1203.8	1236.0	1244.3	1234.3	1247.7	1234.3	1208.0	1172.0
55°	1232.6	1243.4	1275.4	1317.6	1334.1	1326.7	1339.2	1319.1	1281.7	1238.0
57.5°	1309.7	1316.2	1354.5	1404.6	1432.4	1434.1	1439.7	1405.7	1360.4	1310.8
60°	1393.3	1402.3	1444.0	1504.1	1548.0	1562.1	1556.2	1505.8	1453.1	1396.1
62.5°	1500.4	1510.3	1560.1	1632.1	1701.5	1736.6	1713.4	1640.3	1575.2	1506.9
65°	1589.0	1600.1	1690.2	1818.5	1944.9	2015.4	1957.1	1822.5	1705.2	1608.9
67.5°	1524.7	1538.3	1679.7	1915.4	2229.6	2440.1	2240.4	1944.3	1714.5	1583.9
70°	1332.7	1345.4	1510.3	1798.4	2309.8	2771.0	2357.9	1851.4	1515.7	1369.5
72.5°	884.8	925.8	1092.7	1438.3	2062.4	2564.2	2082.8	1409.1	1013.7	882.8
75°	293.5	326.4	440.3	745.7	1381.4	1917.7	1315.1	659.8	348.7	251.0
77.5°	73.9	85.3	117.6	213.3	551.0	1091.8	496.1	174.2	94.9	66.3
80°	36.0	39.7	56.7	71.1	138.0	347.0	129.5	66.9	44.8	34.6
82.5°	19.8	20.1	32.0	40.2	51.3	89.8	53.3	39.1	25.8	21.0
85°	12.2	11.9	17.0	21.5	21.5	32.0	25.5	21.5	14.7	13.0
87.5°	4.8	4.8	6.2	6.8	5.9	8.2	6.5	7.1	5.7	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
540.5
543.4
547.6
552.7
557.5
562.4
570.0
579.4
590.1
600.9
613.1
629.8
653.6
685.9
726.7
776.5
834.9
899.2
967.8
1034.9
1105.4
1168.6
1232.1
1304.0
1387.0
1495.0
1593.0
1564.4
1349.9
854.2
237.4
59.2
31.7
21.0
13.6
5.7
0.0

OF REPORT)