

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: P938990

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938990
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-SB1B-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5450 lumens
Efficiency: N/A
Efficacy: 136.9 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

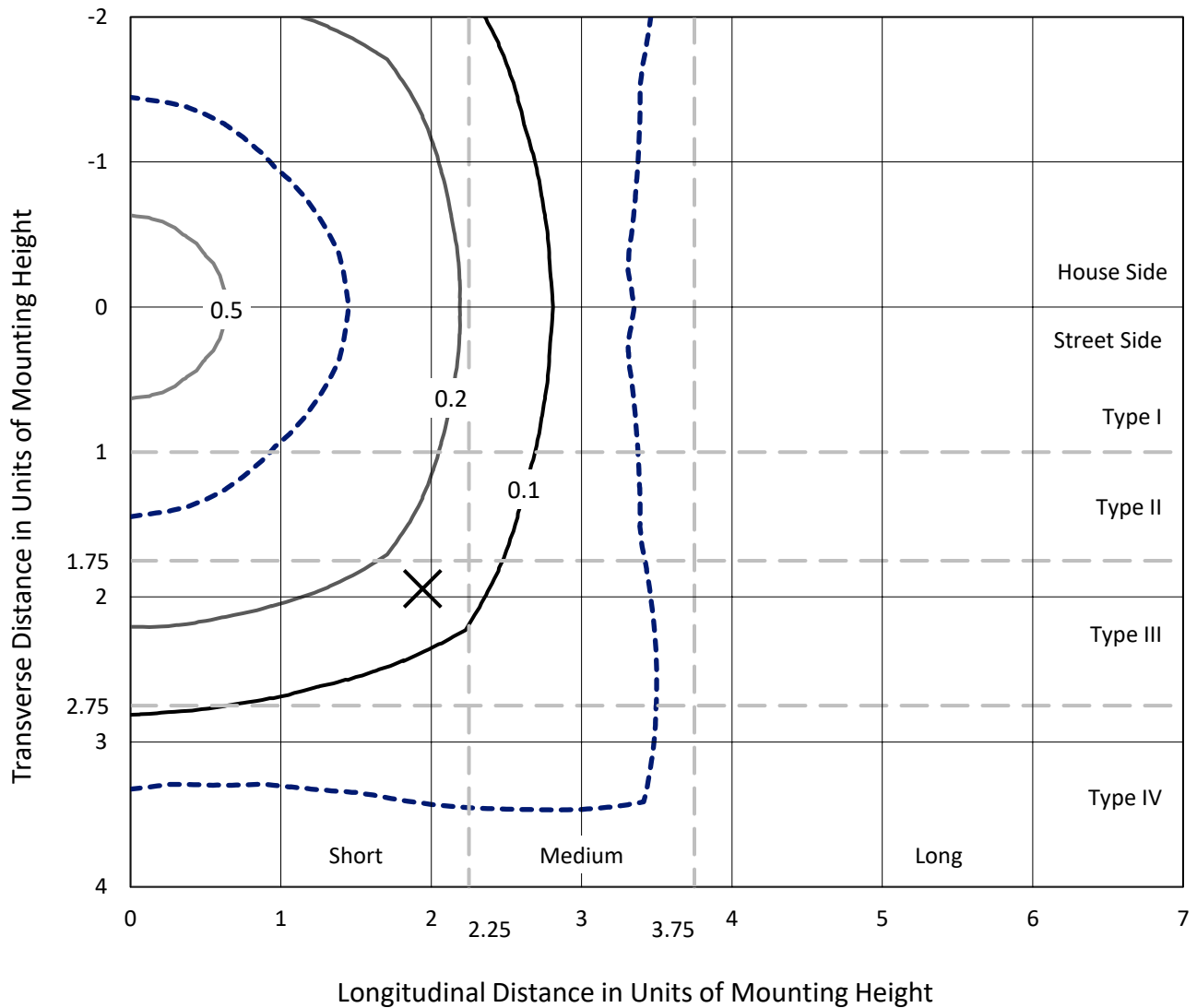
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

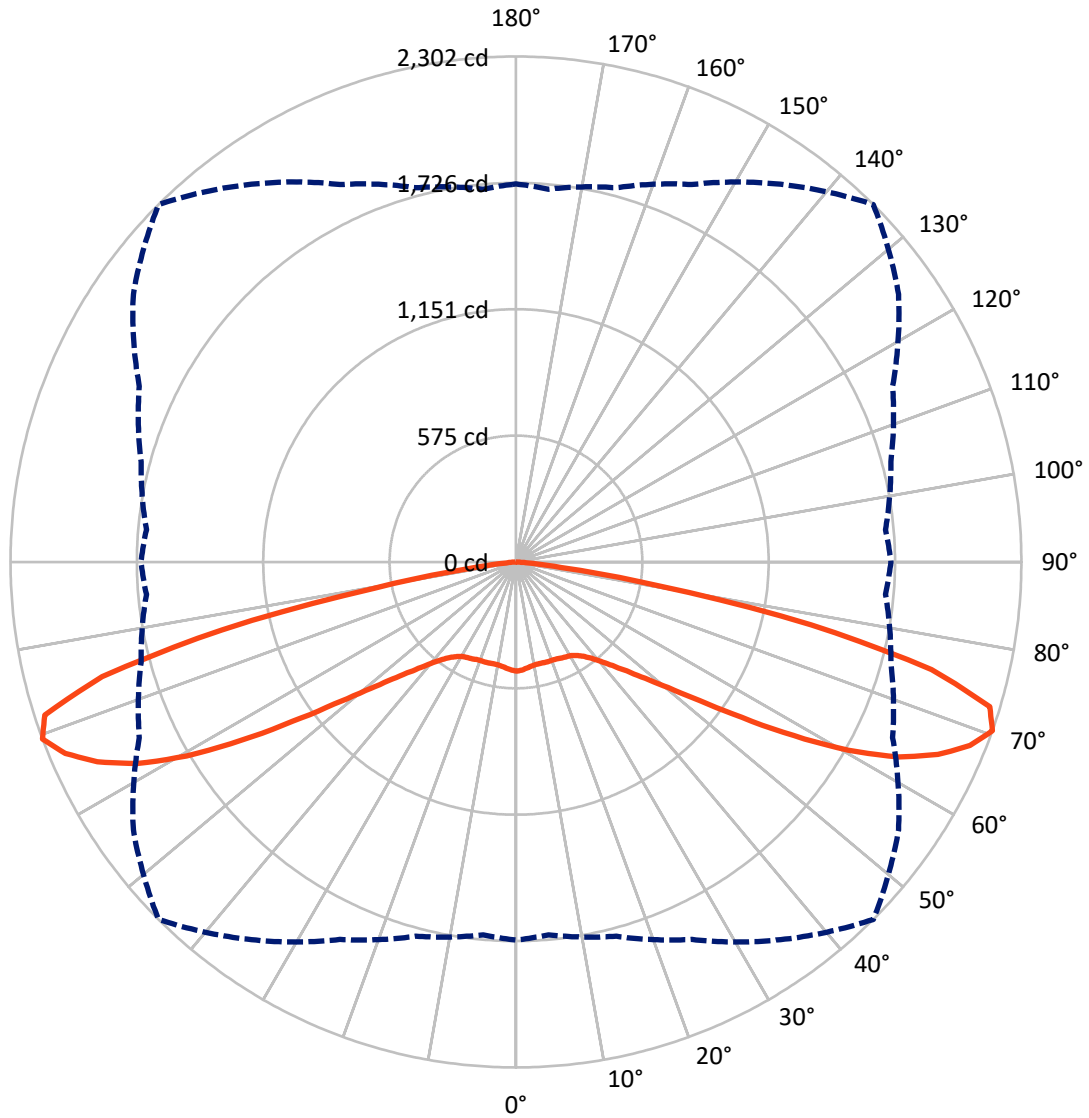
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - N/A

REPORT NUMBER: P938990
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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	2725.0	0.0	2725.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2725.0	0.0	2725.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5450.0	0.0	5450.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	0.8
10°-20°	135.8	2.5
20°-30°	226.0	4.1
30°-40°	341.7	6.3
40°-50°	567.9	10.4
50°-60°	1071.6	19.7
60°-70°	1809.4	33.2
70°-80°	1189.0	21.8
80°-90°	62.3	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°	5450.0	100.0
0°-180°	5450.0	100.0



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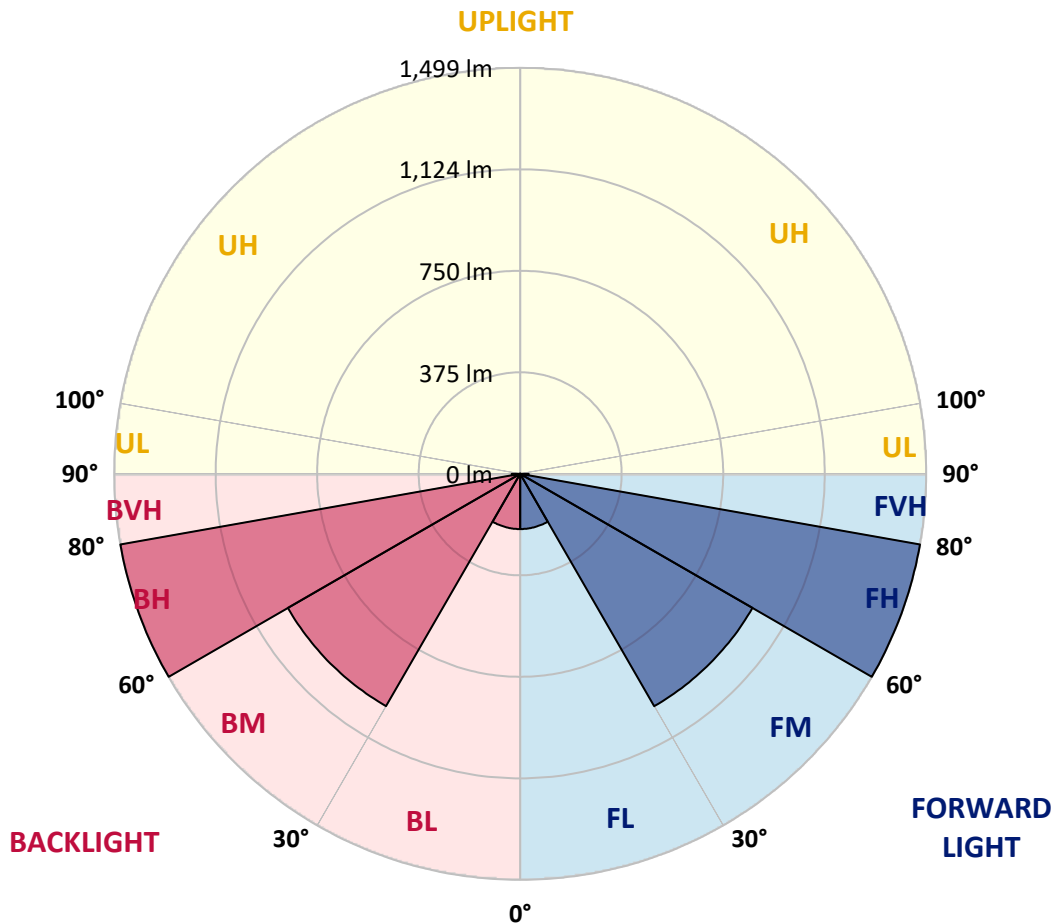
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	204.0	3.7			
FM (30°-60°)	990.6	18.2			
FH (60°-80°)	1499.2	27.5			G1/1800
FVH (80°-90°)	31.1	0.6			G1/100
BL (0°-30°)	204.0	3.7	B1/500		
BM (30°-60°)	990.6	18.2	B1/1000		
BH (60°-80°)	1499.2	27.5	B3/2500		G1/1800
BVH (80°-90°)	31.1	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1
2.5°	494.0	495.5	494.9	493.8	493.8	492.9	493.8	494.3	495.2	495.7
5°	487.5	488.7	488.4	487.5	487.8	487.0	487.5	488.4	488.9	489.2
7.5°	481.9	483.0	482.4	481.0	481.0	480.2	480.4	481.3	482.1	482.4
10°	480.4	481.6	479.9	477.6	476.8	475.6	475.9	476.8	478.5	479.3
12.5°	481.0	481.9	480.2	476.8	475.9	474.8	474.8	475.6	477.9	479.0
15°	482.7	483.6	481.0	477.3	476.5	475.6	475.3	476.5	479.0	481.0
17.5°	485.8	486.7	482.7	477.6	476.5	476.8	476.5	477.3	481.3	485.0
20°	488.7	489.2	483.8	477.6	476.5	476.8	476.5	478.2	483.3	488.4
22.5°	489.5	490.1	485.0	479.6	478.7	479.0	478.7	480.4	485.3	490.4
25°	489.8	490.6	486.7	482.4	483.8	484.4	483.8	484.1	487.8	492.3
27.5°	494.0	495.2	491.5	487.8	488.7	488.4	489.2	490.1	492.9	497.4
30°	502.8	503.7	500.5	496.9	496.3	494.3	496.9	499.7	502.8	506.8
32.5°	517.3	519.0	515.0	511.0	508.5	507.3	509.3	514.1	518.4	522.6
35°	541.3	542.5	538.8	531.4	526.9	526.9	528.6	534.8	541.6	547.0
37.5°	575.3	576.8	570.2	561.5	554.7	554.7	556.9	563.4	573.6	581.3
40°	616.7	618.7	610.5	601.4	594.9	593.7	596.6	603.9	613.6	623.2
42.5°	666.5	668.8	658.1	650.1	645.0	645.0	646.4	653.2	662.0	673.9
45°	730.3	734.3	719.5	711.6	706.8	707.9	708.8	714.7	722.6	736.2
47.5°	806.2	810.2	794.6	786.4	785.5	790.9	787.5	791.8	796.0	811.6
50°	892.3	899.1	888.4	887.8	889.5	899.4	891.5	893.7	888.9	898.8
52.5°	997.7	1007.6	1005.6	1009.0	1028.0	1048.4	1030.3	1022.3	1004.2	1007.3
55°	1125.5	1140.5	1143.3	1163.7	1206.8	1248.4	1209.9	1177.9	1139.3	1132.3
57.5°	1270.8	1282.7	1296.3	1337.9	1418.4	1492.3	1418.4	1347.5	1286.9	1272.5
60°	1427.1	1441.9	1454.9	1516.4	1635.9	1739.9	1633.7	1521.2	1441.0	1421.5
62.5°	1595.1	1614.1	1623.2	1691.4	1830.8	1954.9	1832.8	1696.5	1607.6	1586.6
65°	1756.3	1771.9	1782.1	1854.9	1988.0	2112.4	1997.1	1862.8	1771.3	1743.8
67.5°	1831.4	1839.9	1864.8	1947.2	2087.7	2229.7	2111.5	1956.0	1853.8	1805.6
70°	1721.5	1704.2	1764.2	1896.3	2099.6	2301.6	2126.8	1892.3	1767.1	1688.9
72.5°	1330.3	1300.5	1404.8	1630.5	1963.7	2255.7	1977.3	1643.3	1469.6	1311.0
75°	723.8	690.1	834.0	1119.5	1566.0	1955.2	1601.9	1151.5	928.6	718.4
77.5°	204.2	191.5	307.6	541.6	941.9	1372.8	978.2	553.5	364.9	216.4
80°	62.6	60.6	82.2	163.2	400.0	657.5	384.4	165.2	104.5	66.0
82.5°	37.1	34.0	40.8	59.5	102.0	206.5	99.1	62.0	49.9	33.4
85°	21.2	19.8	24.1	28.9	34.3	43.9	28.6	29.5	26.6	17.8
87.5°	8.8	7.9	9.3	9.1	7.9	10.2	7.6	9.1	10.8	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
497.1
495.5
489.2
482.4
479.3
479.3
481.3
485.0
488.7
490.4
492.1
496.3
505.9
520.9
545.0
578.4
620.1
673.1
735.7
807.1
892.9
996.8
1121.2
1262.3
1404.5
1569.6
1730.3
1806.2
1707.6
1350.4
765.1
240.5
69.7
36.3
18.7
6.5
0.0

OF REPORT)