

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: P938960

Luminaire Tested: **GALN-SB1B-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938960
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-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5120 lumens
Efficiency: N/A
Efficacy: 128.6 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

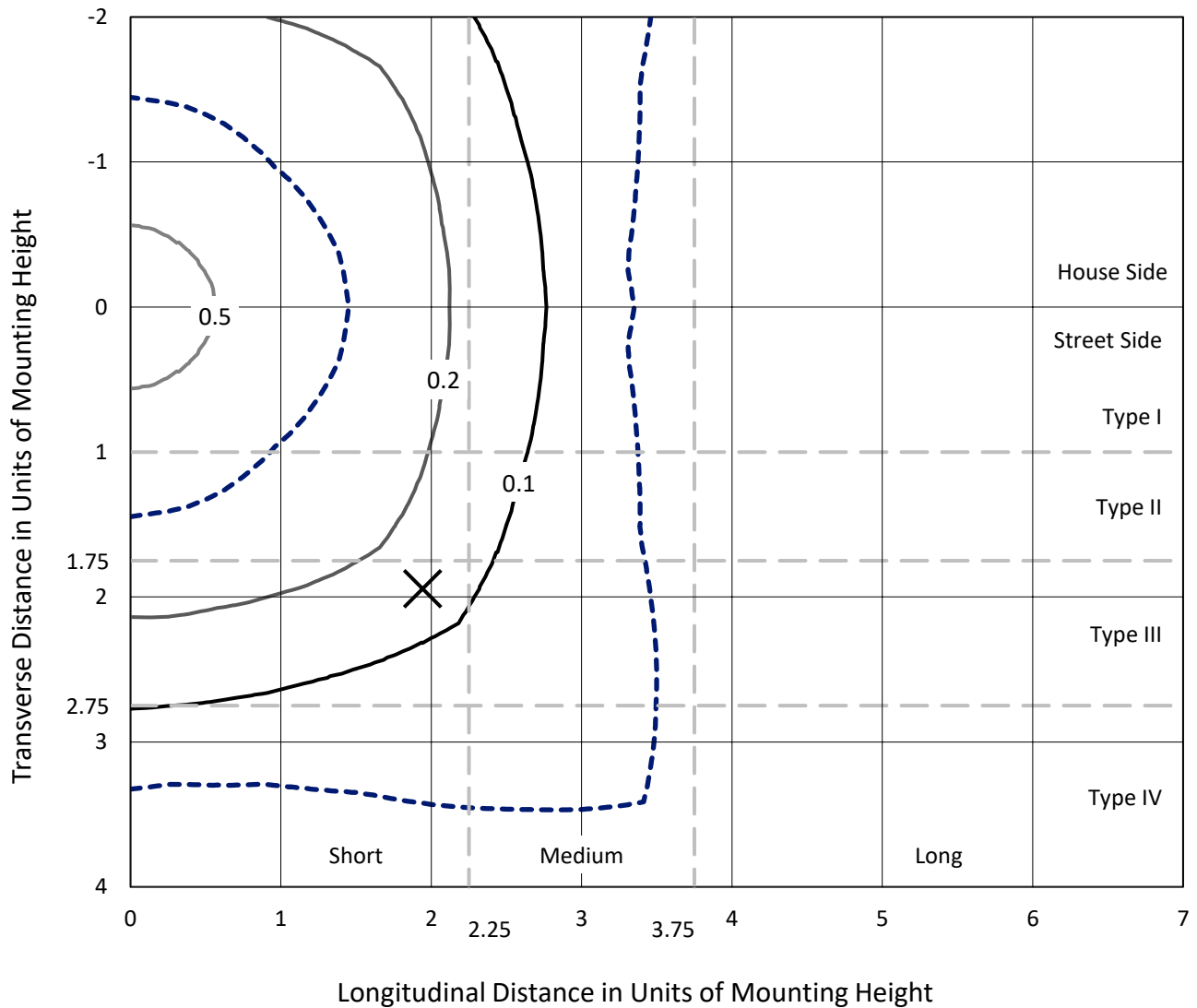
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

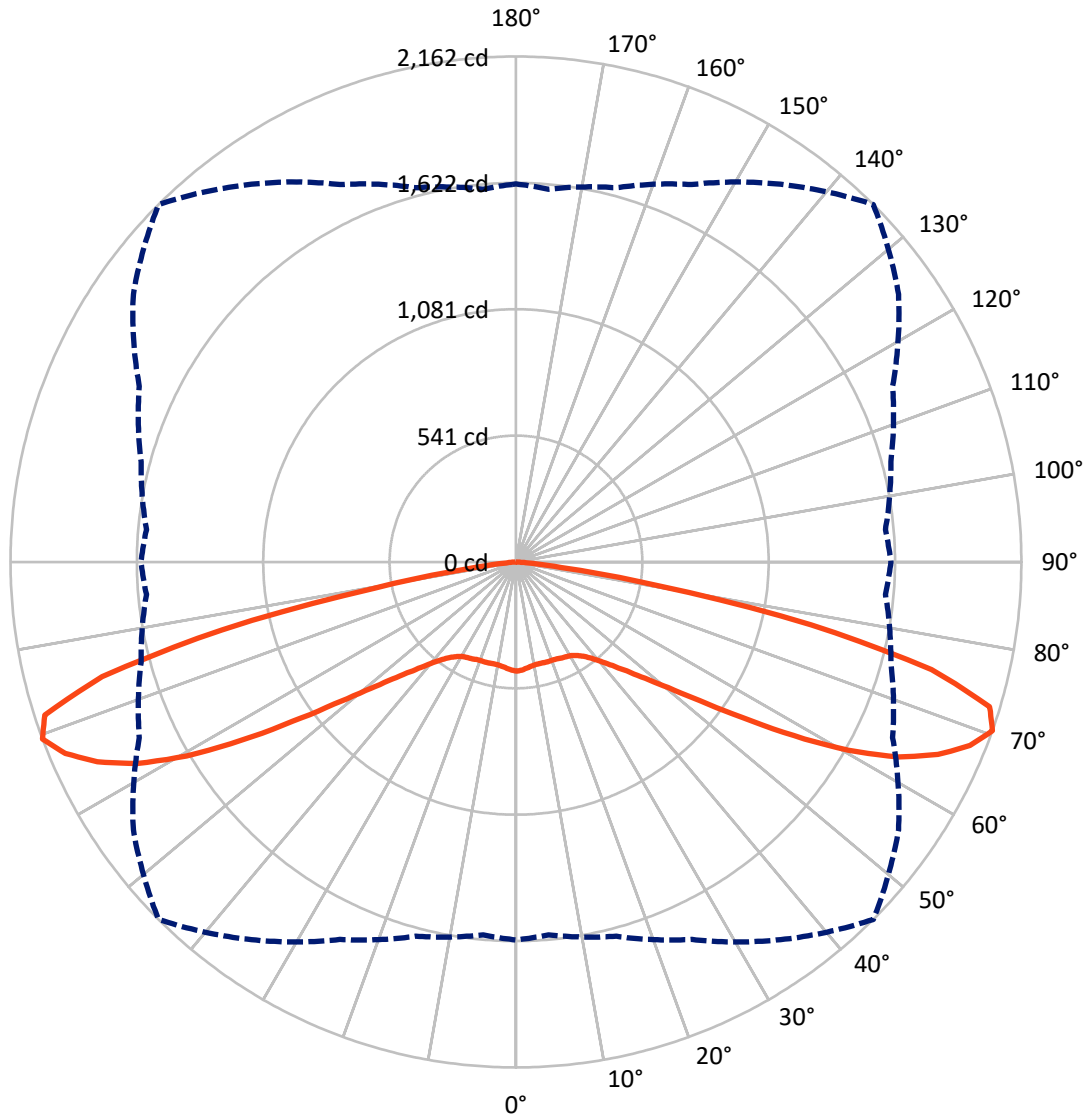
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	2560.0	0.0	2560.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2560.0	0.0	2560.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5120.0	0.0	5120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	0.8
10°-20°	127.6	2.5
20°-30°	212.3	4.1
30°-40°	321.1	6.3
40°-50°	533.5	10.4
50°-60°	1006.7	19.7
60°-70°	1699.9	33.2
70°-80°	1117.0	21.8
80°-90°	58.5	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°	5120.0	100.0
0°-180°	5120.0	100.0

Coefficient of Utilization



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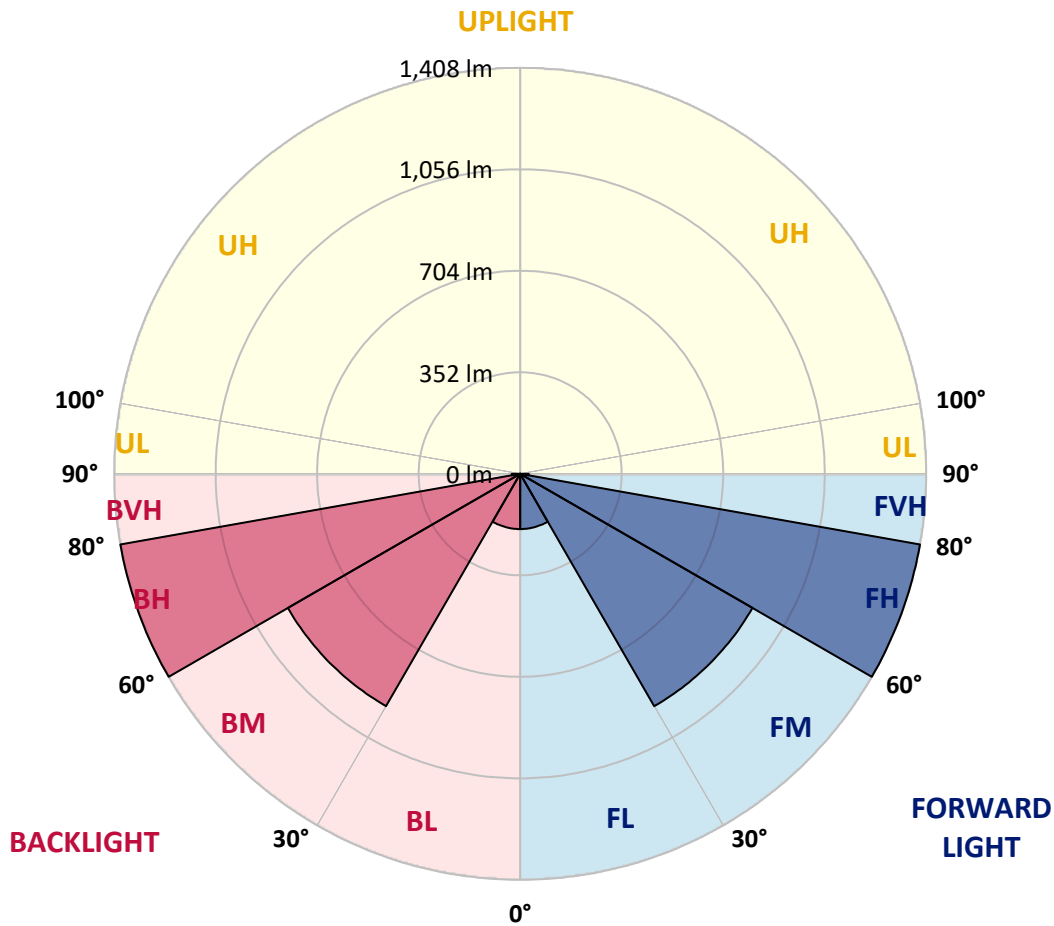
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.7	3.7			
FM (30°-60°)	930.6	18.2			
FH (60°-80°)	1408.4	27.5			G1/1800
FVH (80°-90°)	29.3	0.6			G1/100
BL (0°-30°)	191.7	3.7	B1/500		
BM (30°-60°)	930.6	18.2	B1/1000		
BH (60°-80°)	1408.4	27.5	B3/2500		G1/1800
BVH (80°-90°)	29.3	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°	467.0	467.0	467.0	467.0	467.0	467.0	467.0	467.0	467.0	467.0
2.5°	464.1	465.5	464.9	463.9	463.9	463.1	463.9	464.4	465.2	465.7
5°	458.0	459.1	458.8	458.0	458.3	457.5	458.0	458.8	459.3	459.6
7.5°	452.7	453.7	453.2	451.9	451.9	451.1	451.3	452.1	452.9	453.2
10°	451.3	452.4	450.8	448.7	447.9	446.8	447.1	447.9	449.5	450.3
12.5°	451.9	452.7	451.1	447.9	447.1	446.0	446.0	446.8	449.0	450.0
15°	453.5	454.3	451.9	448.4	447.6	446.8	446.6	447.6	450.0	451.9
17.5°	456.4	457.2	453.5	448.7	447.6	447.9	447.6	448.4	452.1	455.6
20°	459.1	459.6	454.5	448.7	447.6	447.9	447.6	449.2	454.0	458.8
22.5°	459.9	460.4	455.6	450.5	449.7	450.0	449.7	451.3	455.9	460.7
25°	460.1	460.9	457.2	453.2	454.5	455.1	454.5	454.8	458.3	462.5
27.5°	464.1	465.2	461.7	458.3	459.1	458.8	459.6	460.4	463.1	467.3
30°	472.4	473.2	470.2	466.8	466.2	464.4	466.8	469.4	472.4	476.1
32.5°	485.9	487.5	483.8	480.1	477.7	476.6	478.5	483.0	487.0	491.0
35°	508.6	509.6	506.2	499.2	495.0	495.0	496.6	502.4	508.8	513.9
37.5°	540.5	541.8	535.7	527.5	521.1	521.1	523.2	529.3	538.9	546.1
40°	579.4	581.2	573.5	565.0	558.9	557.8	560.5	567.4	576.4	585.5
42.5°	626.2	628.3	618.2	610.8	606.0	606.0	607.3	613.7	621.9	633.1
45°	686.1	689.8	676.0	668.5	664.0	665.0	665.8	671.4	678.9	691.7
47.5°	757.4	761.1	746.5	738.8	738.0	743.0	739.8	743.8	747.8	762.4
50°	838.3	844.7	834.6	834.0	835.6	844.9	837.5	839.6	835.1	844.4
52.5°	937.3	946.6	944.7	947.9	965.8	984.9	967.9	960.4	943.4	946.3
55°	1057.3	1071.4	1074.1	1093.2	1133.7	1172.8	1136.6	1106.5	1070.3	1063.7
57.5°	1193.8	1205.0	1217.8	1256.9	1332.5	1401.9	1332.5	1266.0	1209.0	1195.4
60°	1340.7	1354.6	1366.8	1424.6	1536.9	1634.5	1534.7	1429.1	1353.8	1335.4
62.5°	1498.5	1516.4	1524.9	1589.0	1720.0	1836.5	1721.8	1593.8	1510.3	1490.6
65°	1650.0	1664.6	1674.2	1742.6	1867.7	1984.5	1876.2	1750.0	1664.1	1638.3
67.5°	1720.5	1728.5	1751.9	1829.3	1961.3	2094.7	1983.7	1837.6	1741.5	1696.3
70°	1617.2	1601.0	1657.4	1781.4	1972.5	2162.3	1998.1	1777.7	1660.1	1586.6
72.5°	1249.7	1221.8	1319.7	1531.8	1844.8	2119.1	1857.5	1543.8	1380.6	1231.6
75°	679.9	648.3	783.5	1051.7	1471.1	1836.8	1504.9	1081.8	872.4	674.9
77.5°	191.9	179.9	289.0	508.8	884.9	1289.6	918.9	520.0	342.8	203.3
80°	58.8	57.0	77.2	153.3	375.8	617.7	361.1	155.2	98.2	62.0
82.5°	34.9	31.9	38.3	55.9	95.8	194.0	93.1	58.3	46.8	31.4
85°	20.0	18.6	22.6	27.1	32.2	41.2	26.9	27.7	25.0	16.8
87.5°	8.2	7.5	8.8	8.5	7.5	9.6	7.2	8.5	10.1	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
467.0
465.5
459.6
453.2
450.3
450.3
452.1
455.6
459.1
460.7
462.3
466.2
475.3
489.4
512.0
543.4
582.5
632.3
691.1
758.2
838.8
936.5
1053.3
1185.8
1319.4
1474.6
1625.5
1696.8
1604.2
1268.6
718.8
225.9
65.5
34.1
17.6
6.1
0.0

OF REPORT)