

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: P938790

Luminaire Tested: **GALN-SB1A-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938790
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-SB1A-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4078 lumens
Efficiency: N/A
Efficacy: 132.0 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

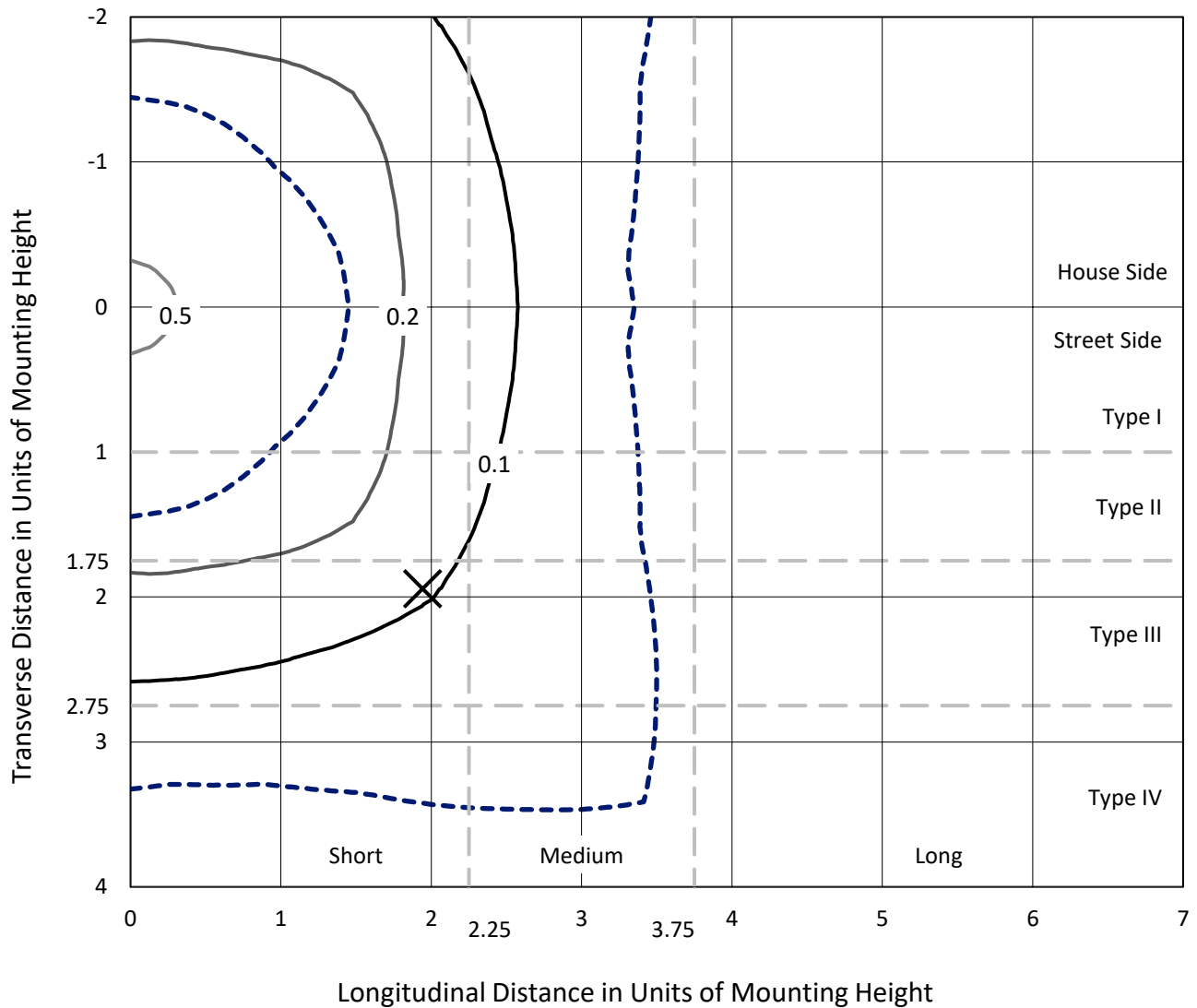
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

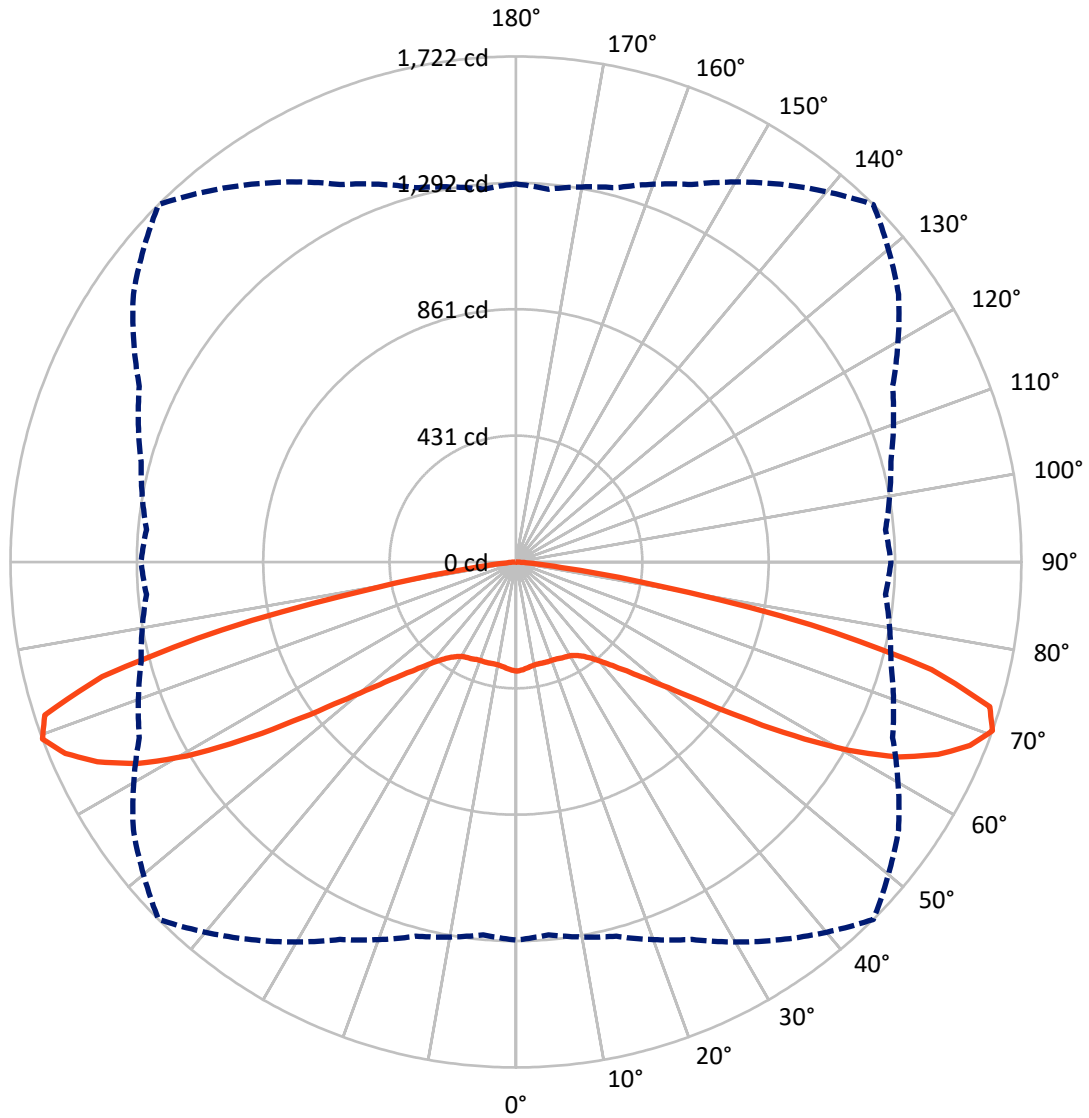
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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	2039.0	0.0	2039.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2039.0	0.0	2039.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4078.0	0.0	4078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	0.8
10°-20°	101.6	2.5
20°-30°	169.1	4.1
30°-40°	255.7	6.3
40°-50°	424.9	10.4
50°-60°	801.8	19.7
60°-70°	1353.9	33.2
70°-80°	889.7	21.8
80°-90°	46.6	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°	4078.0	100.0
0°-180°	4078.0	100.0

Coefficient of Utilization



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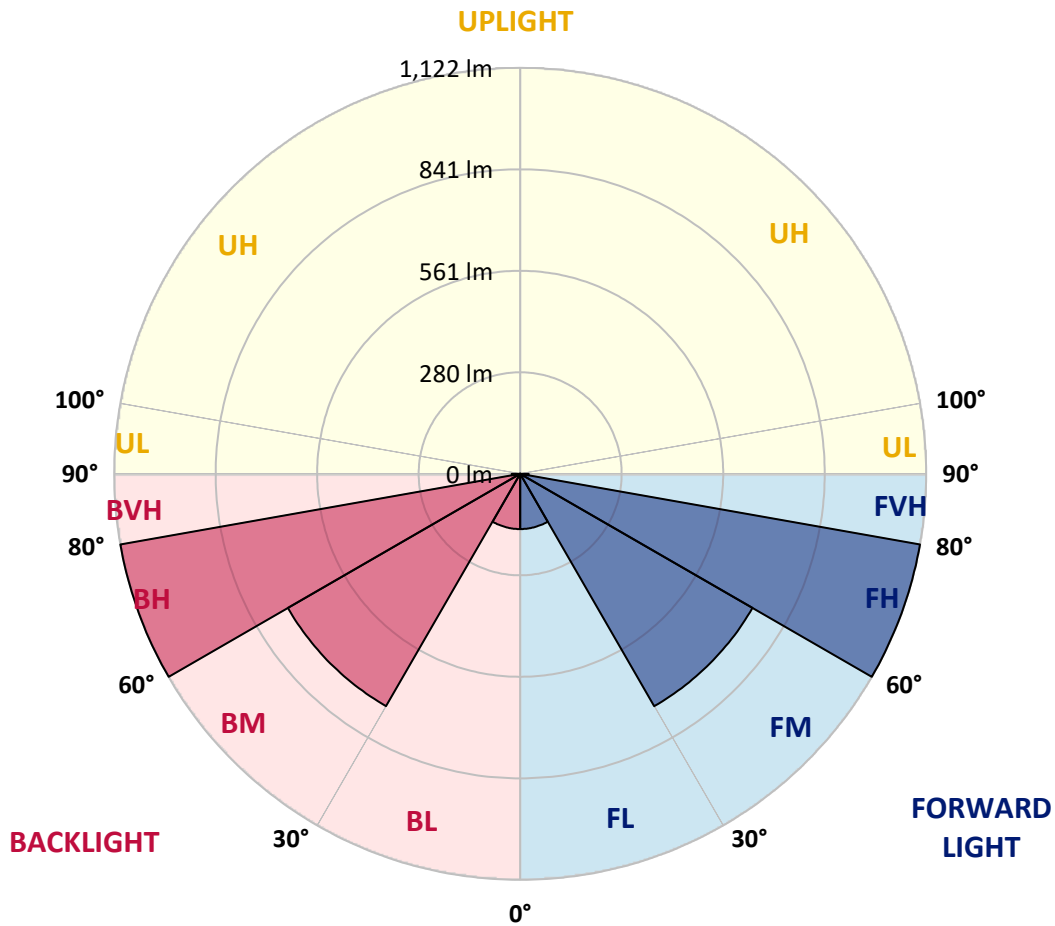
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.6	3.7			
FM (30°-60°)	741.2	18.2			
FH (60°-80°)	1121.8	27.5			G1/1800
FVH (80°-90°)	23.3	0.6			G1/100
BL (0°-30°)	152.6	3.7	B1/500		
BM (30°-60°)	741.2	18.2	B1/1000		
BH (60°-80°)	1121.8	27.5	B3/2500		G1/1800
BVH (80°-90°)	23.3	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°	372.0	372.0	372.0	372.0	372.0	372.0	372.0	372.0	372.0	372.0
2.5°	369.7	370.7	370.3	369.5	369.5	368.8	369.5	369.9	370.5	370.9
5°	364.8	365.6	365.4	364.8	365.0	364.4	364.8	365.4	365.8	366.1
7.5°	360.5	361.4	361.0	359.9	359.9	359.3	359.5	360.1	360.8	361.0
10°	359.5	360.3	359.1	357.4	356.7	355.9	356.1	356.7	358.0	358.6
12.5°	359.9	360.5	359.3	356.7	356.1	355.3	355.3	355.9	357.6	358.4
15°	361.2	361.8	359.9	357.2	356.5	355.9	355.7	356.5	358.4	359.9
17.5°	363.5	364.2	361.2	357.4	356.5	356.7	356.5	357.2	360.1	362.9
20°	365.6	366.1	362.0	357.4	356.5	356.7	356.5	357.8	361.6	365.4
22.5°	366.3	366.7	362.9	358.9	358.2	358.4	358.2	359.5	363.1	366.9
25°	366.5	367.1	364.2	361.0	362.0	362.5	362.0	362.2	365.0	368.4
27.5°	369.7	370.5	367.8	365.0	365.6	365.4	366.1	366.7	368.8	372.2
30°	376.2	376.9	374.5	371.8	371.4	369.9	371.8	373.9	376.2	379.2
32.5°	387.0	388.3	385.3	382.4	380.5	379.6	381.1	384.7	387.9	391.1
35°	405.1	405.9	403.2	397.6	394.3	394.3	395.5	400.2	405.3	409.3
37.5°	430.5	431.6	426.7	420.1	415.0	415.0	416.7	421.6	429.2	434.9
40°	461.4	462.9	456.8	450.0	445.1	444.3	446.4	451.9	459.1	466.3
42.5°	498.7	500.4	492.4	486.5	482.6	482.6	483.7	488.8	495.4	504.3
45°	546.4	549.4	538.4	532.5	528.8	529.7	530.3	534.8	540.7	550.9
47.5°	603.2	606.2	594.6	588.4	587.8	591.8	589.3	592.4	595.6	607.3
50°	667.7	672.8	664.7	664.3	665.6	673.0	667.0	668.7	665.1	672.6
52.5°	746.5	754.0	752.5	755.0	769.2	784.5	770.9	765.0	751.4	753.7
55°	842.1	853.4	855.5	870.7	903.0	934.1	905.3	881.3	852.5	847.2
57.5°	950.9	959.8	969.9	1001.1	1061.3	1116.6	1061.3	1008.3	962.9	952.1
60°	1067.9	1078.9	1088.6	1134.6	1224.1	1301.9	1222.4	1138.2	1078.3	1063.6
62.5°	1193.6	1207.8	1214.6	1265.6	1369.9	1462.8	1371.4	1269.4	1202.9	1187.2
65°	1314.2	1325.8	1333.5	1387.9	1487.6	1580.6	1494.3	1393.9	1325.4	1304.8
67.5°	1370.3	1376.7	1395.4	1457.0	1562.2	1668.4	1580.0	1463.6	1387.1	1351.1
70°	1288.1	1275.2	1320.1	1418.9	1571.1	1722.2	1591.4	1415.9	1322.2	1263.7
72.5°	995.4	973.1	1051.1	1220.1	1469.3	1687.9	1479.5	1229.6	1099.7	981.0
75°	541.6	516.3	624.0	837.7	1171.7	1463.0	1198.7	861.6	694.8	537.5
77.5°	152.8	143.3	230.2	405.3	704.8	1027.2	731.9	414.2	273.0	161.9
80°	46.8	45.4	61.5	122.1	299.3	492.0	287.6	123.6	78.2	49.4
82.5°	27.8	25.4	30.5	44.5	76.3	154.5	74.2	46.4	37.3	25.0
85°	15.9	14.8	18.0	21.6	25.6	32.9	21.4	22.0	19.9	13.4
87.5°	6.6	5.9	7.0	6.8	5.9	7.6	5.7	6.8	8.1	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
372.0
370.7
366.1
361.0
358.6
358.6
360.1
362.9
365.6
366.9
368.2
371.4
378.6
389.8
407.8
432.8
464.0
503.6
550.5
603.9
668.1
745.9
839.0
944.5
1050.9
1174.5
1294.7
1351.5
1277.7
1010.4
572.5
180.0
52.1
27.1
14.0
4.9
0.0

OF REPORT)