

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: P939470

Luminaire Tested: **GALN-SB2A-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939470
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-SB2A-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8153 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

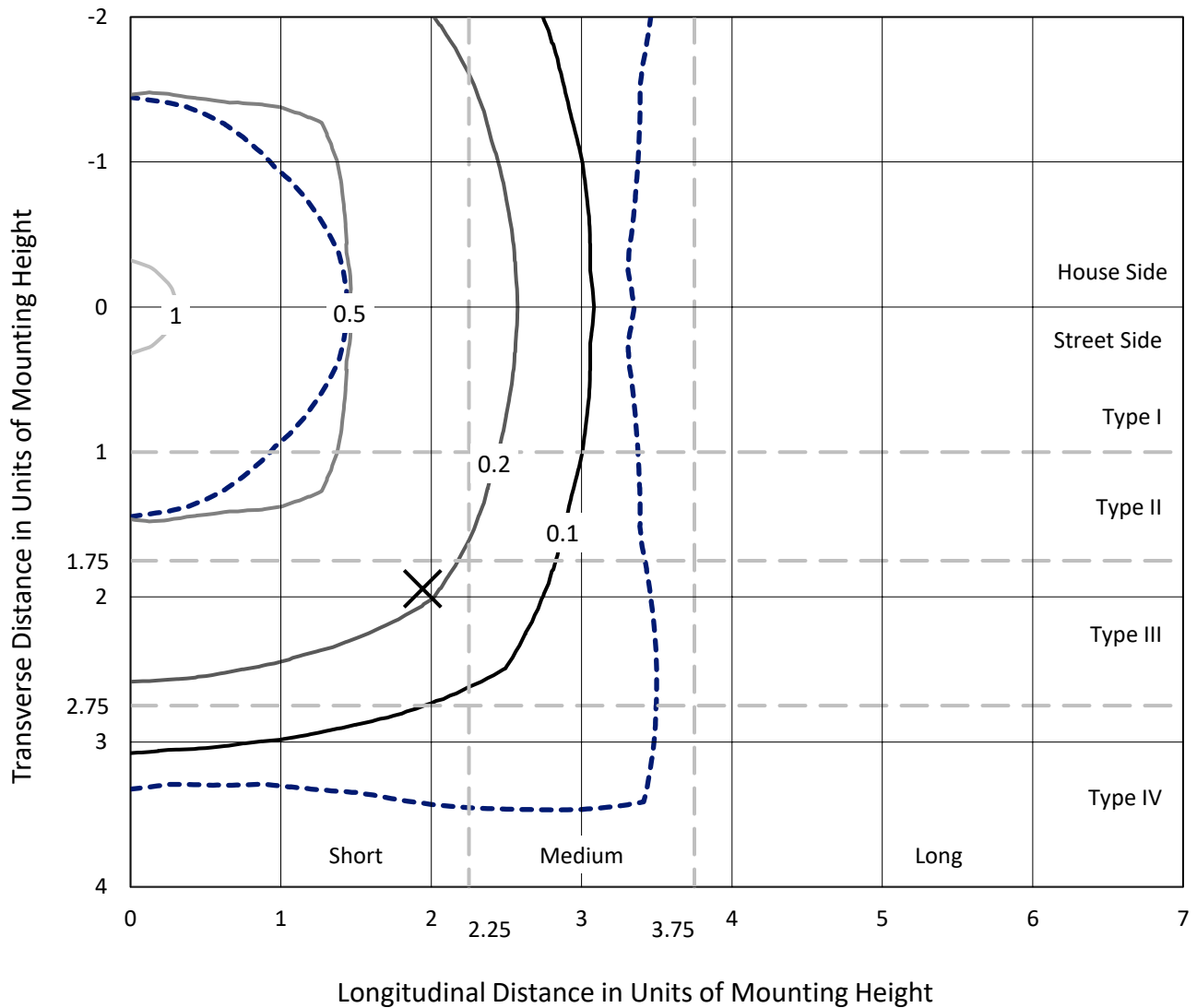
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

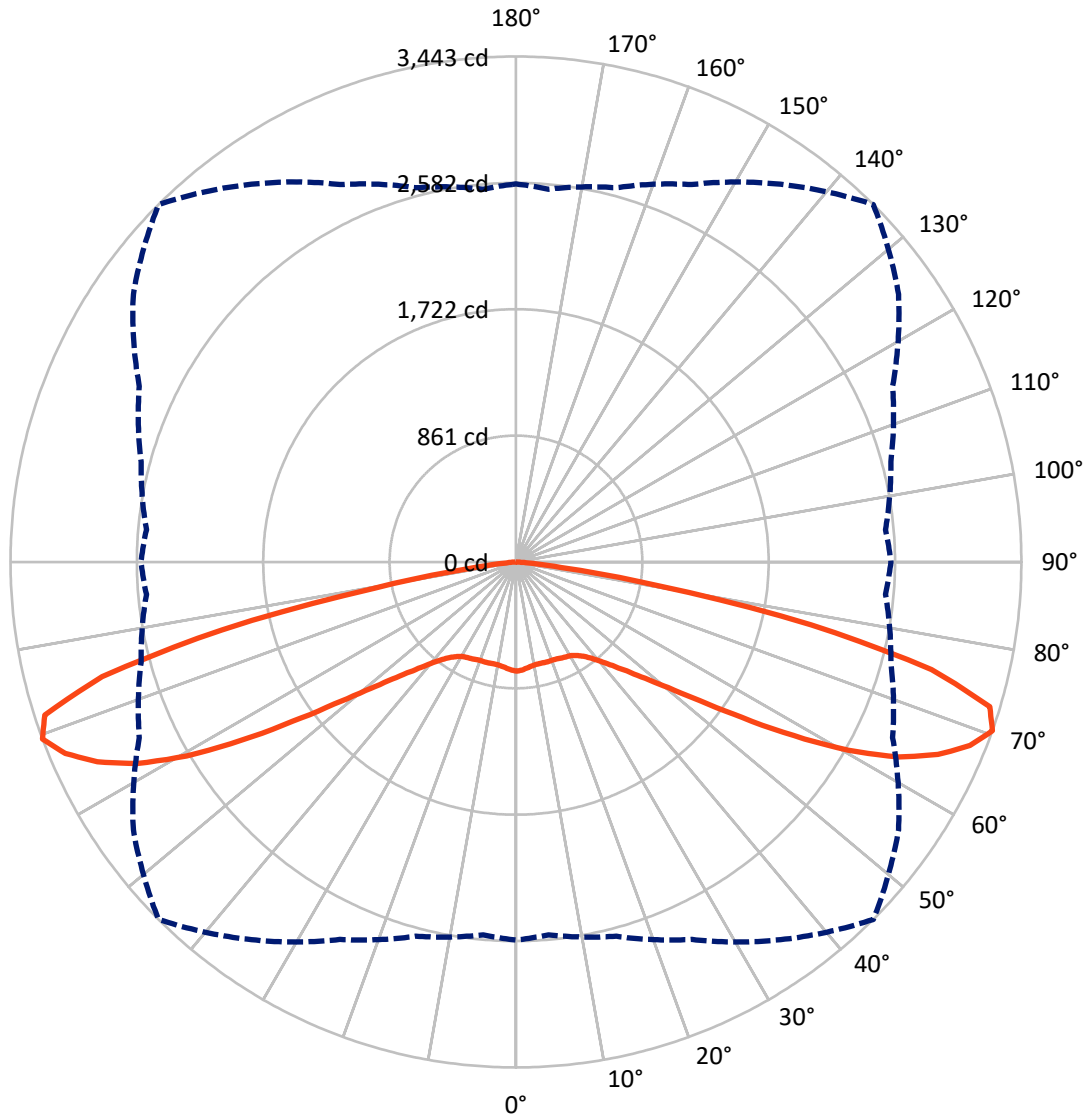
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	4076.5	0.0	4076.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4076.5	0.0	4076.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8153.0	0.0	8153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	0.8
10°-20°	203.1	2.5
20°-30°	338.1	4.1
30°-40°	511.2	6.3
40°-50°	849.6	10.4
50°-60°	1603.1	19.7
60°-70°	2706.9	33.2
70°-80°	1778.7	21.8
80°-90°	93.2	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°	8153.0	100.0
0°-180°	8153.0	100.0

Coefficient of Utilization



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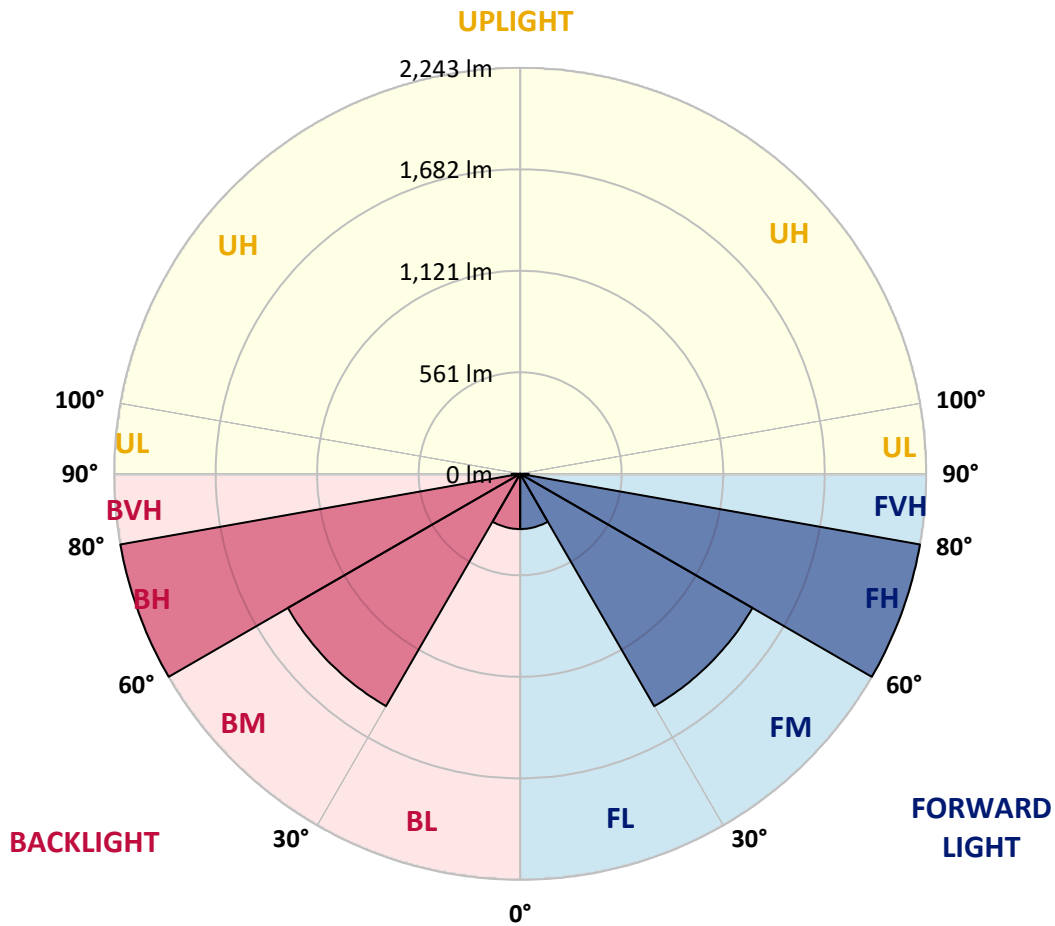
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.2	3.7			
FM (30°-60°)	1481.9	18.2			
FH (60°-80°)	2242.8	27.5			G2/5000
FVH (80°-90°)	46.6	0.6			G1/100
BL (0°-30°)	305.2	3.7	B1/500		
BM (30°-60°)	1481.9	18.2	B2/2500		
BH (60°-80°)	2242.8	27.5	B3/2500		G2/5000
BVH (80°-90°)	46.6	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-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	743.7	743.7	743.7	743.7	743.7	743.7	743.7	743.7	743.7	743.7
2.5°	739.1	741.2	740.3	738.6	738.6	737.4	738.6	739.5	740.8	741.6
5°	729.3	731.0	730.6	729.3	729.7	728.5	729.3	730.6	731.4	731.9
7.5°	720.8	722.5	721.7	719.6	719.6	718.3	718.7	720.0	721.3	721.7
10°	718.7	720.4	717.9	714.5	713.2	711.5	711.9	713.2	715.7	717.0
12.5°	719.6	720.8	718.3	713.2	711.9	710.2	710.2	711.5	714.9	716.6
15°	722.1	723.4	719.6	714.1	712.8	711.5	711.1	712.8	716.6	719.6
17.5°	726.8	728.0	722.1	714.5	712.8	713.2	712.8	714.1	720.0	725.5
20°	731.0	731.9	723.8	714.5	712.8	713.2	712.8	715.3	723.0	730.6
22.5°	732.3	733.1	725.5	717.4	716.2	716.6	716.2	718.7	725.9	733.5
25°	732.7	734.0	728.0	721.7	723.8	724.6	723.8	724.2	729.7	736.5
27.5°	739.1	740.8	735.2	729.7	731.0	730.6	731.9	733.1	737.4	744.1
30°	752.2	753.5	748.8	743.3	742.4	739.5	743.3	747.5	752.2	758.1
32.5°	773.8	776.3	770.4	764.5	760.7	759.0	761.9	769.1	775.5	781.9
35°	809.8	811.5	806.0	795.0	788.2	788.2	790.8	800.1	810.2	818.3
37.5°	860.7	862.8	853.1	839.9	829.7	829.7	833.1	842.9	858.1	869.6
40°	922.5	925.5	913.2	899.7	889.9	888.2	892.5	903.5	917.9	932.3
42.5°	997.1	1000.5	984.4	972.6	964.9	964.9	967.0	977.2	990.4	1008.2
45°	1092.5	1098.4	1076.4	1064.5	1057.3	1059.0	1060.3	1069.2	1081.0	1101.4
47.5°	1206.1	1212.0	1188.7	1176.4	1175.1	1183.2	1178.1	1184.4	1190.8	1214.1
50°	1334.9	1345.0	1328.9	1328.1	1330.6	1345.5	1333.6	1337.0	1329.8	1344.6
52.5°	1492.5	1507.4	1504.4	1509.5	1537.9	1568.4	1541.3	1529.4	1502.3	1506.9
55°	1683.6	1706.1	1710.3	1740.9	1805.3	1867.6	1809.9	1762.0	1704.4	1693.8
57.5°	1901.0	1918.8	1939.2	2001.5	2121.8	2232.4	2121.8	2015.9	1925.2	1903.6
60°	2135.0	2157.0	2176.5	2268.4	2447.3	2602.8	2443.9	2275.6	2155.7	2126.5
62.5°	2386.3	2414.6	2428.2	2530.3	2738.8	2924.4	2741.8	2538.0	2404.9	2373.5
65°	2627.4	2650.7	2665.9	2774.9	2974.0	3160.1	2987.6	2786.7	2649.8	2608.7
67.5°	2739.7	2752.4	2789.7	2913.0	3123.2	3335.5	3158.8	2926.1	2773.2	2701.1
70°	2575.3	2549.4	2639.2	2836.7	3141.0	3443.1	3181.7	2830.8	2643.5	2526.5
72.5°	1990.0	1945.5	2101.5	2439.2	2937.6	3374.5	2957.9	2458.3	2198.5	1961.2
75°	1082.7	1032.3	1247.6	1674.7	2342.6	2924.9	2396.4	1722.6	1389.1	1074.7
77.5°	305.5	286.5	460.2	810.2	1409.0	2053.6	1463.3	828.0	545.8	323.8
80°	93.7	90.7	122.9	244.1	598.4	983.6	575.1	247.1	156.4	98.7
82.5°	55.5	50.9	61.0	89.0	152.6	308.9	148.3	92.8	74.6	50.0
85°	31.8	29.7	36.0	43.2	51.3	65.7	42.8	44.1	39.8	26.7
87.5°	13.1	11.9	14.0	13.6	11.9	15.3	11.4	13.6	16.1	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
743.7
741.2
731.9
721.7
717.0
717.0
720.0
725.5
731.0
733.5
736.1
742.4
756.9
779.3
815.3
865.3
927.6
1006.9
1100.5
1207.3
1335.7
1491.2
1677.3
1888.3
2101.1
2348.1
2588.4
2702.0
2554.5
2020.1
1144.6
359.8
104.2
54.2
28.0
9.7
0.0

OF REPORT)