

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: P947140

Luminaire Tested: **GALN-SB2C-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947140
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-SB2C-830-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14093 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

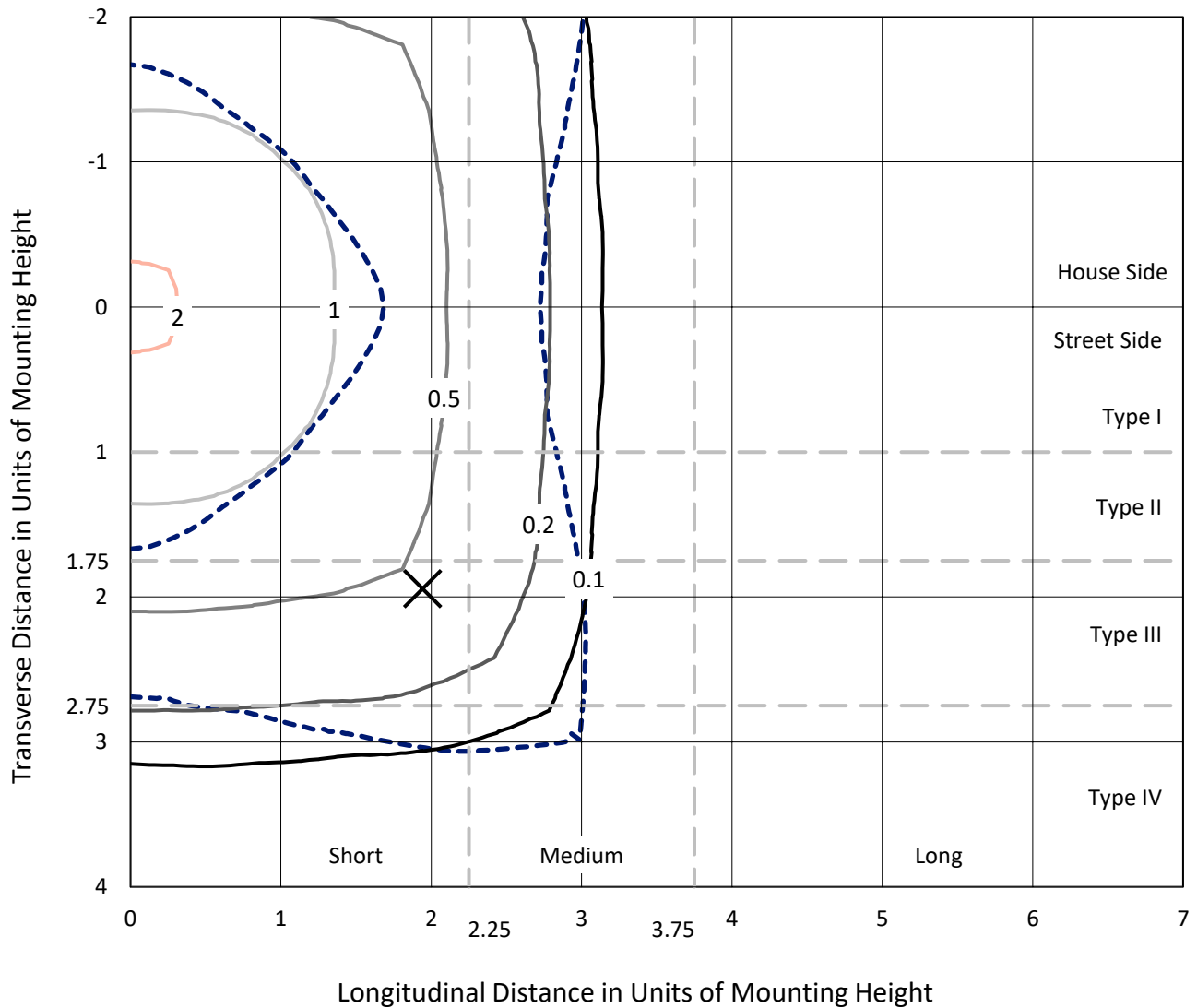
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

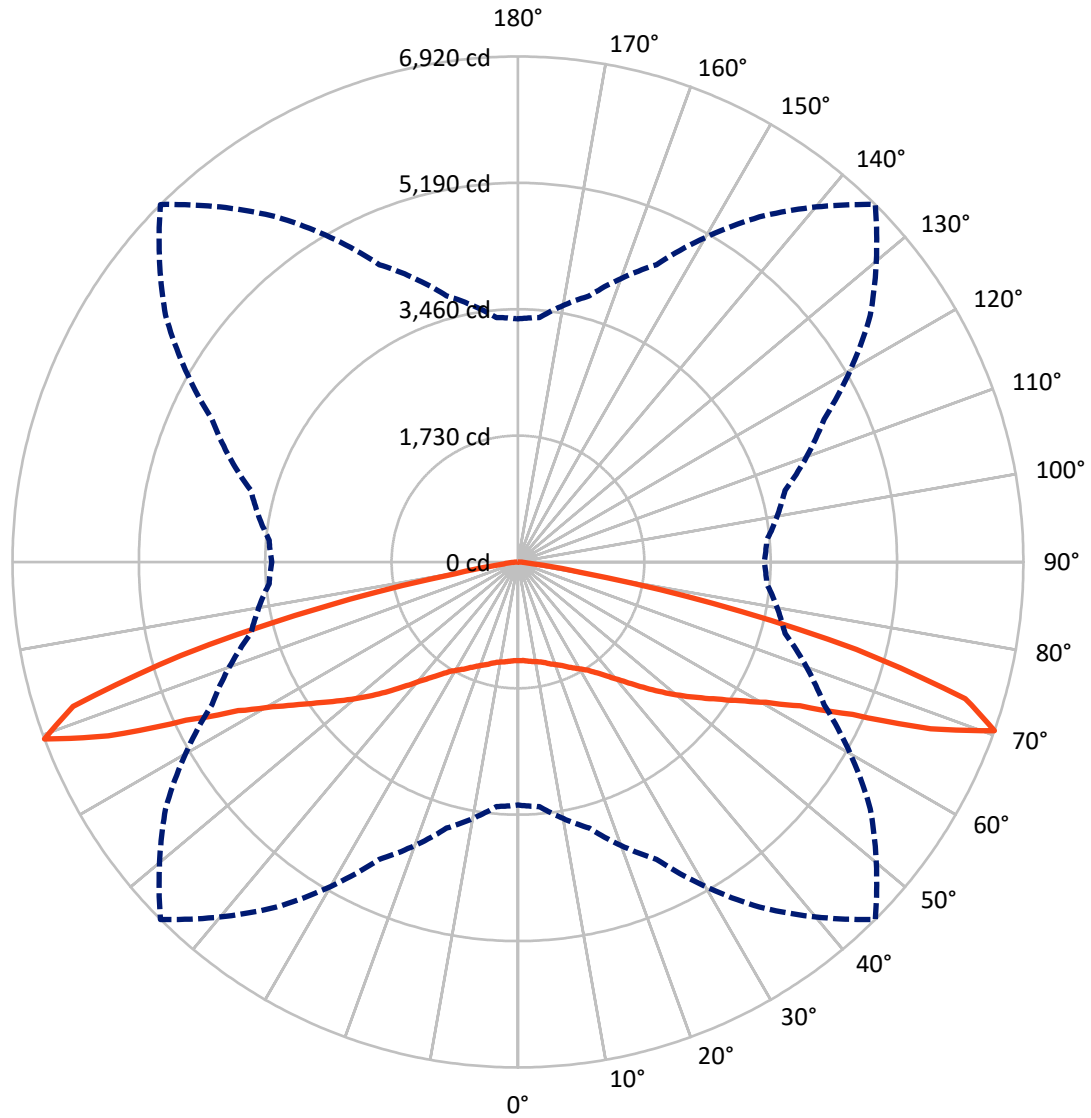
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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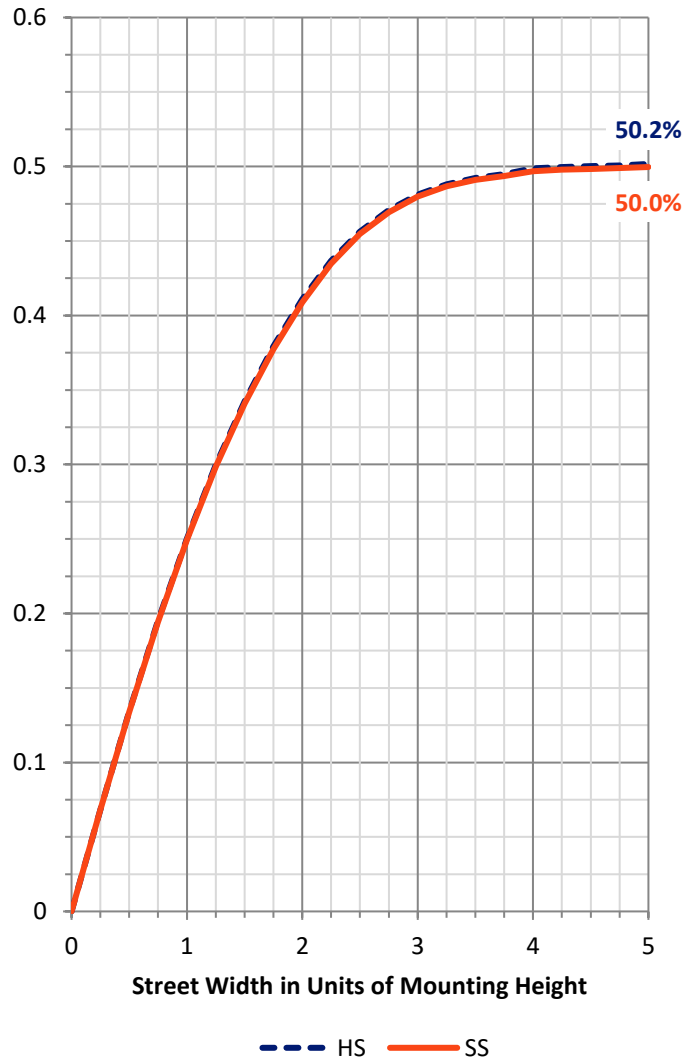
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7046.5	0.0	7046.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7046.5	0.0	7046.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14093.0	0.0	14093.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	0.9
10°-20°	406.7	2.9
20°-30°	726.8	5.2
30°-40°	1178.1	8.4
40°-50°	1918.9	13.6
50°-60°	2925.7	20.8
60°-70°	4352.6	30.9
70°-80°	2372.3	16.8
80°-90°	80.8	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°	14093.0	100.0
0°-180°	14093.0	100.0



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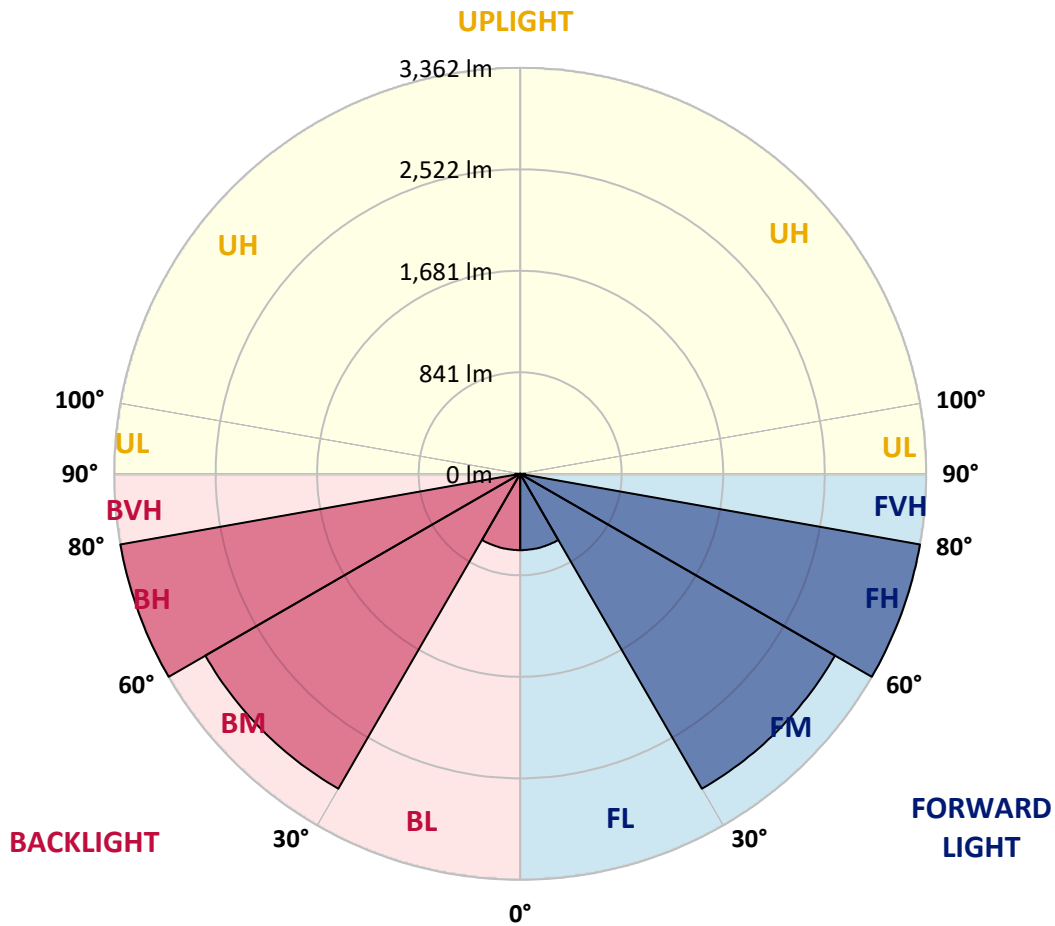
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	632.3	4.5			
FM (30°-60°)	3011.4	21.4			
FH (60°-80°)	3362.4	23.9			G2/5000
FVH (80°-90°)	40.4	0.3			G1/100
BL (0°-30°)	632.3	4.5	B2/1000		
BM (30°-60°)	3011.4	21.4	B3/5000		
BH (60°-80°)	3362.4	23.9	B4/5000		G2/5000
BVH (80°-90°)	40.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1350.0	1350.0	1350.0	1350.0	1350.0	1350.0	1350.0	1350.0	1350.0	1350.0
2.5°	1356.3	1357.7	1354.9	1353.5	1352.1	1350.0	1350.7	1354.2	1357.0	1356.3
5°	1367.7	1369.1	1366.9	1366.2	1363.4	1362.7	1362.7	1366.2	1368.4	1366.9
7.5°	1380.4	1382.5	1379.0	1378.3	1376.8	1375.4	1374.7	1378.3	1380.4	1380.4
10°	1392.4	1394.5	1391.7	1389.6	1388.2	1388.2	1386.8	1389.6	1393.1	1392.4
12.5°	1405.2	1406.6	1403.7	1402.3	1402.3	1404.4	1402.3	1403.7	1406.6	1405.2
15°	1420.7	1421.4	1420.7	1422.8	1426.4	1433.5	1427.1	1425.7	1427.1	1423.5
17.5°	1441.9	1443.4	1446.2	1451.1	1456.1	1468.8	1457.5	1454.0	1454.0	1446.9
20°	1468.1	1470.2	1474.5	1483.0	1489.3	1501.4	1490.1	1485.1	1483.0	1473.8
22.5°	1495.7	1499.3	1505.6	1516.9	1528.3	1539.6	1528.3	1519.8	1513.4	1501.4
25°	1527.6	1531.8	1541.7	1560.1	1575.7	1591.9	1578.5	1561.5	1548.8	1531.8
27.5°	1572.8	1577.8	1589.8	1612.5	1632.3	1646.4	1633.7	1611.7	1594.1	1573.5
30°	1636.5	1641.5	1655.6	1679.7	1693.1	1702.3	1693.8	1676.8	1655.6	1632.3
32.5°	1718.6	1725.0	1740.5	1763.2	1766.0	1767.4	1764.6	1756.1	1740.5	1712.2
35°	1822.6	1829.7	1847.4	1865.8	1862.9	1865.8	1861.5	1858.7	1847.4	1814.8
37.5°	1949.9	1958.4	1976.8	1991.0	1983.9	1980.4	1981.1	1981.8	1975.4	1939.3
40°	2097.8	2109.1	2122.6	2137.4	2125.4	2114.8	2121.9	2127.5	2121.9	2085.1
42.5°	2249.9	2266.2	2280.4	2301.6	2291.7	2278.2	2288.1	2294.5	2282.5	2242.9
45°	2419.0	2434.6	2453.0	2484.8	2477.8	2463.6	2477.8	2479.2	2458.7	2412.0
47.5°	2593.8	2610.1	2637.7	2680.1	2677.3	2661.7	2680.1	2670.2	2644.0	2588.1
50°	2759.4	2782.0	2824.5	2883.9	2889.5	2870.4	2895.2	2876.1	2832.2	2762.2
52.5°	2915.0	2939.1	3006.3	3086.9	3107.5	3082.7	3116.0	3082.7	3016.9	2927.0
55°	3078.5	3105.3	3185.3	3290.7	3331.7	3313.4	3344.5	3294.3	3200.9	3091.9
57.5°	3270.9	3287.2	3382.7	3507.9	3577.3	3581.5	3595.7	3510.8	3397.5	3273.7
60°	3479.6	3502.3	3606.3	3756.3	3865.9	3901.3	3886.5	3760.5	3628.9	3486.7
62.5°	3747.1	3771.8	3896.4	4076.1	4249.4	4337.1	4279.1	4096.6	3933.9	3763.3
65°	3968.5	3996.1	4221.1	4541.6	4857.2	5033.4	4887.6	4551.5	4258.6	4018.1
67.5°	3807.9	3841.9	4194.9	4783.6	5568.2	6093.9	5595.1	4855.8	4282.0	3955.8
70°	3328.2	3360.1	3771.8	4491.4	5768.5	6920.3	5888.8	4623.7	3785.3	3420.2
72.5°	2209.6	2312.2	2728.9	3592.1	5150.8	6403.8	5201.7	3519.2	2531.5	2204.7
75°	733.0	815.1	1099.5	1862.2	3449.9	4789.3	3284.3	1647.8	871.0	626.9
77.5°	184.7	213.0	293.6	532.8	1376.1	2726.8	1238.9	435.1	237.0	165.6
80°	89.9	99.1	141.5	177.6	344.6	866.7	323.3	167.0	111.8	86.3
82.5°	49.5	50.2	80.0	100.5	128.1	224.3	133.0	97.6	64.4	52.4
85°	30.4	29.7	42.5	53.8	53.8	80.0	63.7	53.8	36.8	32.5
87.5°	12.0	12.0	15.6	17.0	14.9	20.5	16.3	17.7	14.2	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1350.0
1357.0
1367.7
1380.4
1392.4
1404.4
1423.5
1446.9
1473.8
1500.7
1531.1
1572.8
1632.3
1712.9
1814.8
1939.3
2085.1
2245.7
2416.9
2584.6
2760.8
2918.6
3077.0
3256.8
3464.1
3733.6
3978.4
3907.0
3371.4
2133.2
592.9
147.9
79.2
52.4
34.0
14.2
0.0

OF REPORT)