

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: P946426

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946426
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-SB2A-830-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8442 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

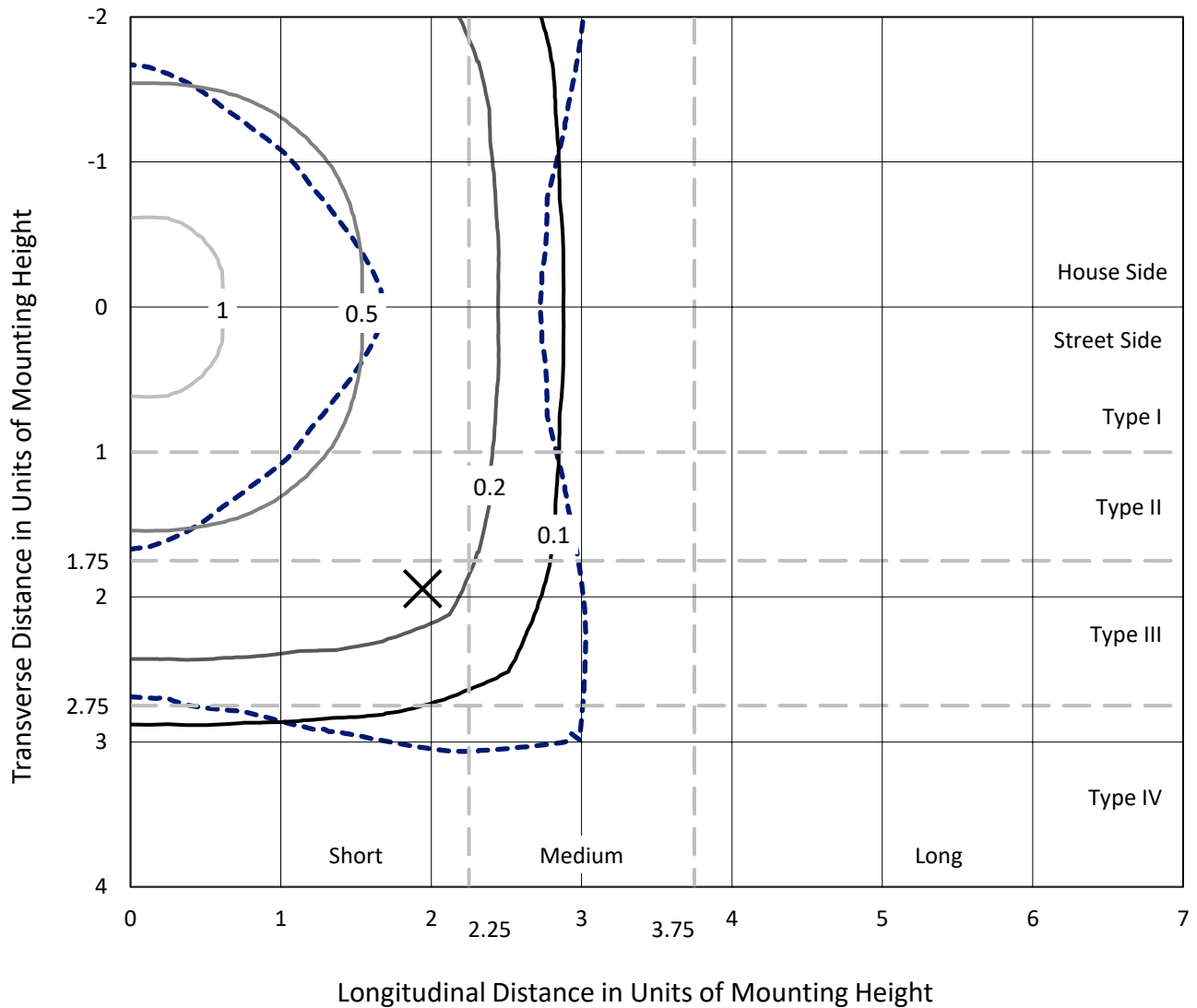
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

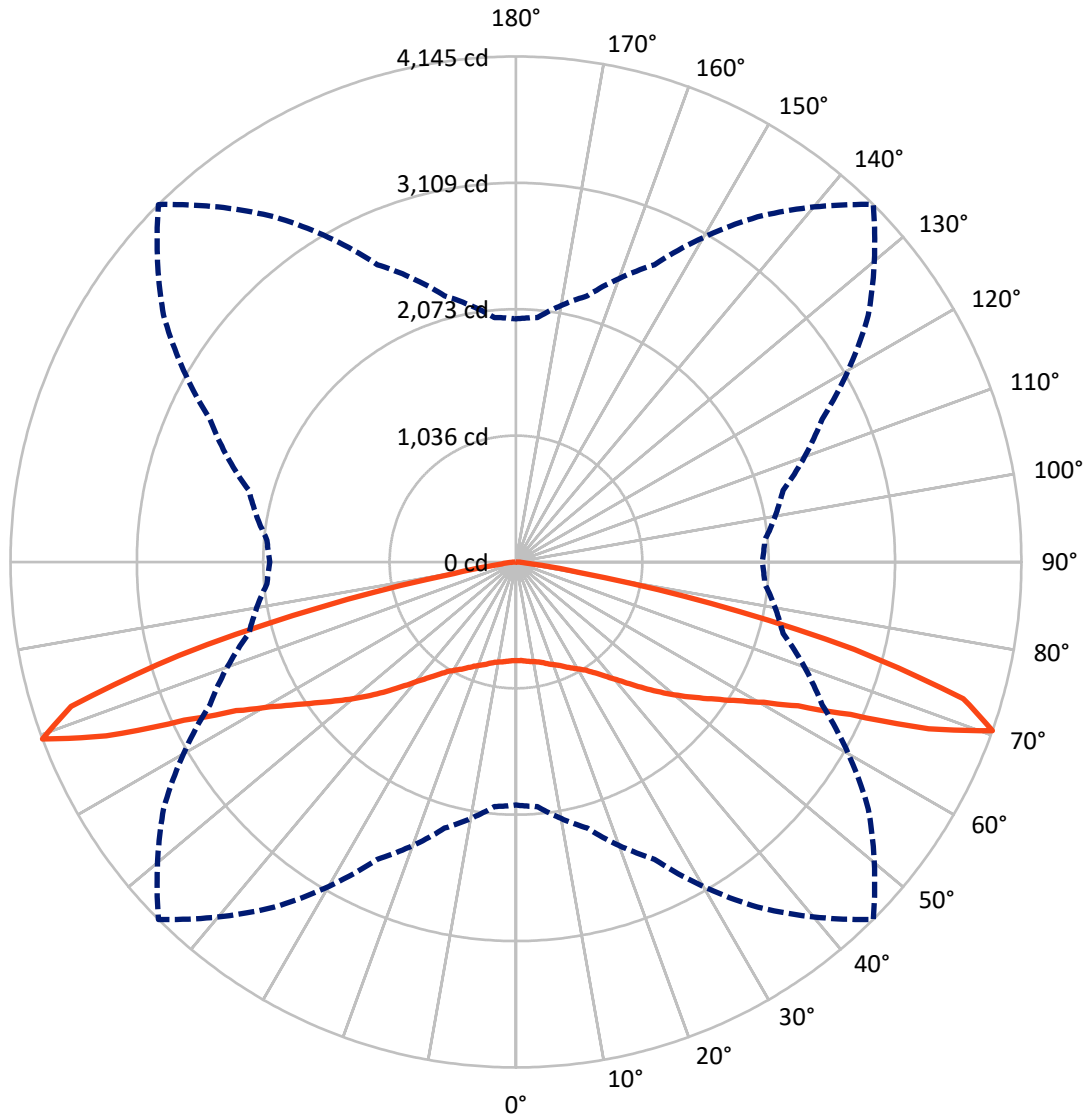
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	4221.0	0.0	4221.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4221.0	0.0	4221.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8442.0	0.0	8442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	0.9
10°-20°	243.6	2.9
20°-30°	435.4	5.2
30°-40°	705.7	8.4
40°-50°	1149.5	13.6
50°-60°	1752.6	20.8
60°-70°	2607.3	30.9
70°-80°	1421.0	16.8
80°-90°	48.4	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°	8442.0	100.0
0°-180°	8442.0	100.0

Coefficient of Utilization



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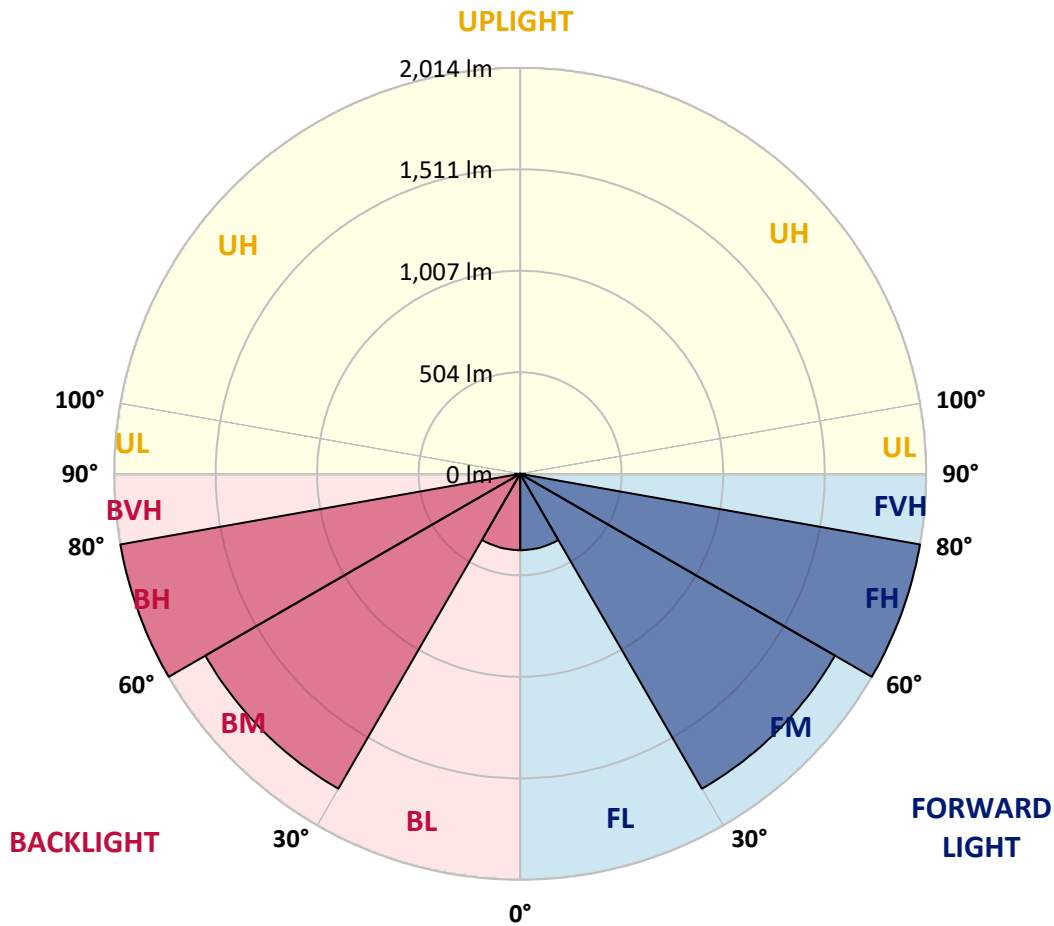
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	378.8	4.5			
FM (30°-60°)	1803.9	21.4			
FH (60°-80°)	2014.2	23.9			G2/5000
FVH (80°-90°)	24.2	0.3			G1/100
BL (0°-30°)	378.8	4.5	B1/500		
BM (30°-60°)	1803.9	21.4	B2/2500		
BH (60°-80°)	2014.2	23.9	B3/2500		G2/5000
BVH (80°-90°)	24.2	0.3			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°	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7
2.5°	812.5	813.3	811.6	810.8	809.9	808.7	809.1	811.2	812.9	812.5
5°	819.3	820.1	818.8	818.4	816.7	816.3	816.3	818.4	819.7	818.8
7.5°	826.9	828.2	826.0	825.6	824.8	823.9	823.5	825.6	826.9	826.9
10°	834.1	835.4	833.7	832.4	831.5	831.5	830.7	832.4	834.5	834.1
12.5°	841.7	842.6	840.9	840.0	840.0	841.3	840.0	840.9	842.6	841.7
15°	851.0	851.5	851.0	852.3	854.4	858.7	854.9	854.0	854.9	852.7
17.5°	863.8	864.6	866.3	869.3	872.2	879.9	873.1	871.0	871.0	866.7
20°	879.4	880.7	883.2	888.3	892.1	899.4	892.6	889.6	888.3	882.8
22.5°	896.0	898.1	901.9	908.7	915.5	922.2	915.5	910.4	906.6	899.4
25°	915.0	917.6	923.5	934.5	943.9	953.6	945.6	935.4	927.8	917.6
27.5°	942.2	945.1	952.3	965.9	977.8	986.2	978.6	965.5	954.9	942.6
30°	980.3	983.3	991.7	1006.2	1014.2	1019.7	1014.6	1004.5	991.7	977.8
32.5°	1029.5	1033.3	1042.6	1056.2	1057.9	1058.7	1057.0	1051.9	1042.6	1025.7
35°	1091.8	1096.0	1106.6	1117.6	1115.9	1117.6	1115.1	1113.4	1106.6	1087.1
37.5°	1168.1	1173.1	1184.2	1192.6	1188.4	1186.3	1186.7	1187.1	1183.3	1161.7
40°	1256.6	1263.4	1271.5	1280.4	1273.2	1266.8	1271.0	1274.4	1271.0	1249.0
42.5°	1347.8	1357.5	1366.0	1378.7	1372.8	1364.7	1370.6	1374.5	1367.3	1343.5
45°	1449.1	1458.4	1469.4	1488.5	1484.2	1475.8	1484.2	1485.1	1472.8	1444.8
47.5°	1553.7	1563.5	1580.0	1605.4	1603.8	1594.4	1605.4	1599.5	1583.8	1550.3
50°	1652.9	1666.5	1691.9	1727.5	1730.9	1719.5	1734.3	1722.8	1696.6	1654.6
52.5°	1746.2	1760.6	1800.8	1849.1	1861.4	1846.6	1866.5	1846.6	1807.2	1753.4
55°	1844.1	1860.2	1908.1	1971.2	1995.8	1984.8	2003.4	1973.3	1917.4	1852.1
57.5°	1959.3	1969.1	2026.3	2101.3	2142.9	2145.4	2153.9	2103.0	2035.2	1961.0
60°	2084.4	2097.9	2160.2	2250.1	2315.8	2337.0	2328.1	2252.6	2173.8	2088.6
62.5°	2244.6	2259.4	2334.0	2441.7	2545.5	2598.0	2563.3	2453.9	2356.5	2254.3
65°	2377.2	2393.8	2528.5	2720.5	2909.6	3015.1	2927.8	2726.5	2551.0	2406.9
67.5°	2281.0	2301.4	2512.9	2865.5	3335.5	3650.4	3351.6	2908.7	2565.0	2369.6
70°	1993.7	2012.7	2259.4	2690.4	3455.4	4145.4	3527.5	2769.7	2267.5	2048.8
72.5°	1323.6	1385.1	1634.7	2151.8	3085.4	3836.0	3116.0	2108.1	1516.4	1320.6
75°	439.1	488.2	658.6	1115.5	2066.6	2868.9	1967.4	987.1	521.7	375.5
77.5°	110.6	127.6	175.9	319.1	824.3	1633.4	742.1	260.7	142.0	99.2
80°	53.8	59.3	84.8	106.4	206.4	519.2	193.7	100.0	67.0	51.7
82.5°	29.7	30.1	47.9	60.2	76.7	134.4	79.7	58.5	38.6	31.4
85°	18.2	17.8	25.4	32.2	32.2	47.9	38.1	32.2	22.0	19.5
87.5°	7.2	7.2	9.3	10.2	8.9	12.3	9.7	10.6	8.5	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
808.7
812.9
819.3
826.9
834.1
841.3
852.7
866.7
882.8
898.9
917.2
942.2
977.8
1026.1
1087.1
1161.7
1249.0
1345.2
1447.8
1548.2
1653.8
1748.3
1843.2
1950.9
2075.0
2236.5
2383.2
2340.4
2019.5
1277.8
355.2
88.6
47.5
31.4
20.3
8.5
0.0

OF REPORT)