

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: P948317

Luminaire Tested: **GALN-SB3B-930-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3B-930-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12316 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

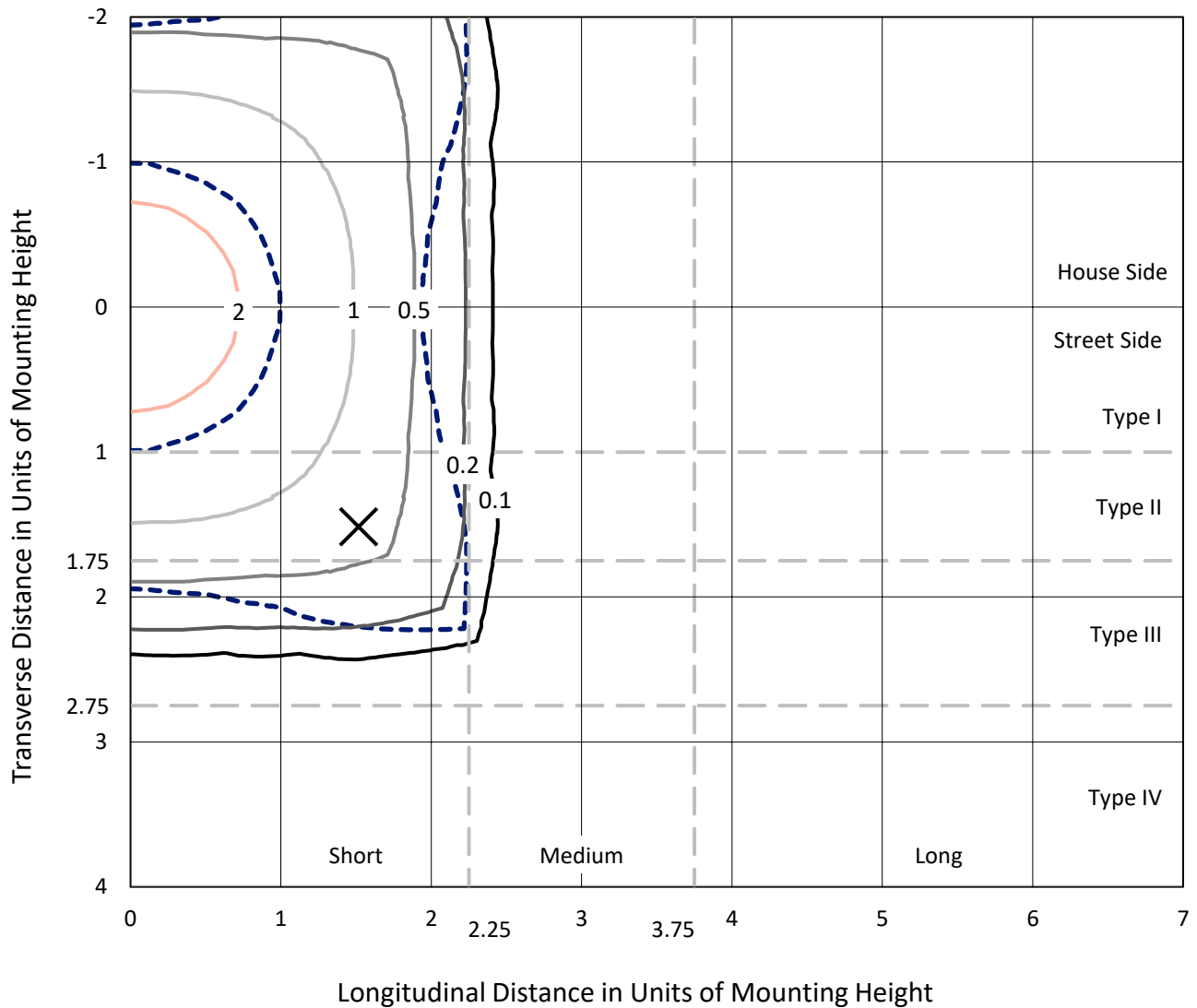
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

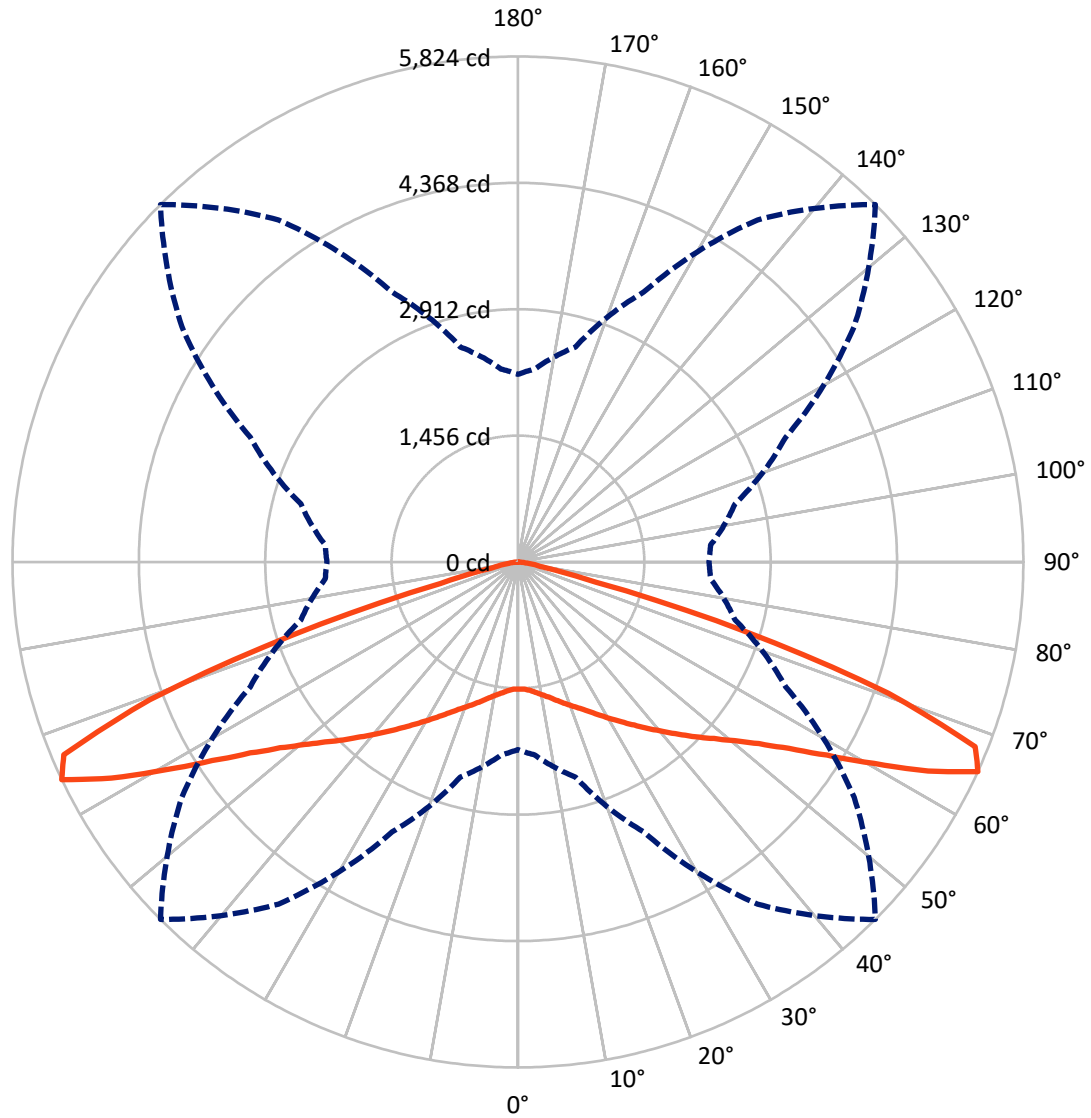
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6158.0 | 0.0 | 6158.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6158.0 | 0.0 | 6158.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12316.0 | 0.0 | 12316.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 144.7 | 1.2 |
| 10°-20° | 472.0 | 3.8 |
| 20°-30° | 891.2 | 7.2 |
| 30°-40° | 1459.3 | 11.8 |
| 40°-50° | 2262.7 | 18.4 |
| 50°-60° | 3342.5 | 27.1 |
| 60°-70° | 3181.8 | 25.8 |
| 70°-80° | 513.4 | 4.2 |
| 80°-90° | 48.4 | 0.4 |
| 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° | 12316.0 | 100.0 |
| 0°-180° | 12316.0 | 100.0 |



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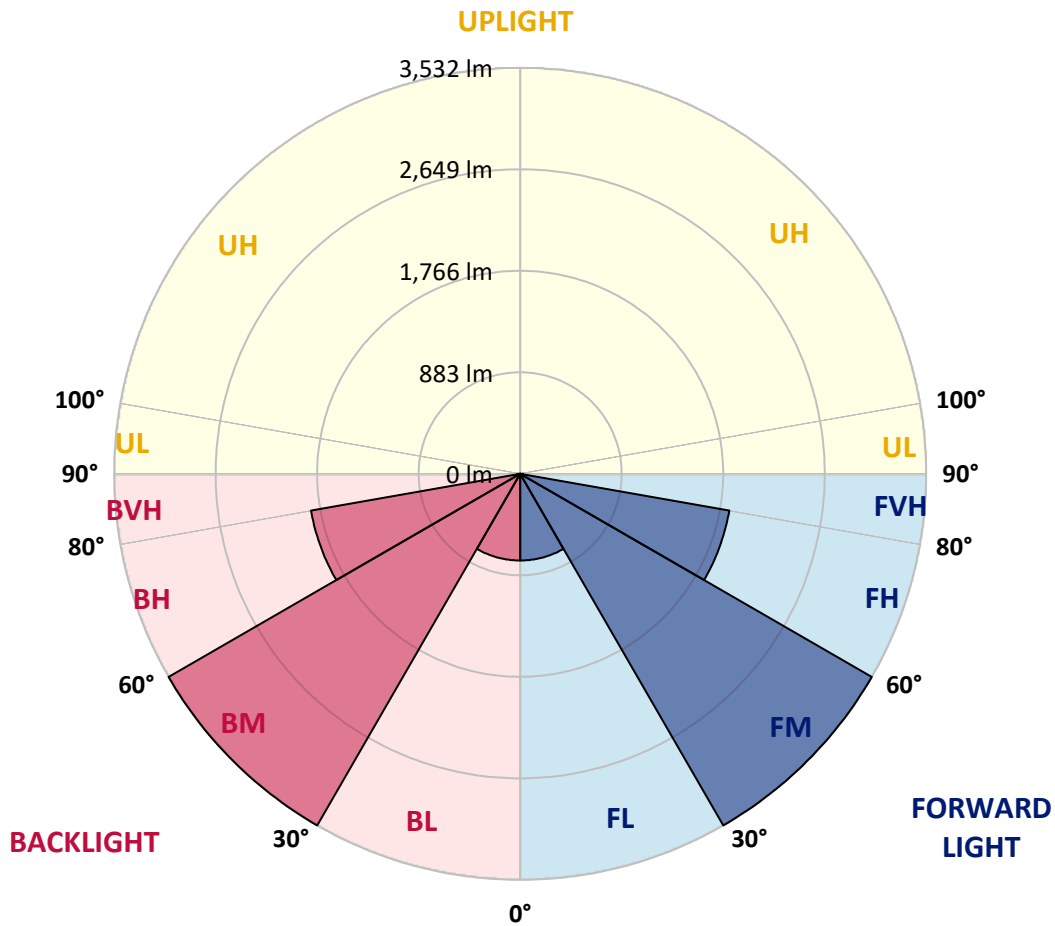
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 753.9 | 6.1 | | | |
| FM (30°-60°) | 3532.3 | 28.7 | | | |
| FH (60°-80°) | 1847.6 | 15.0 | | | G2/5000 |
| FVH (80°-90°) | 24.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 753.9 | 6.1 | B2/1000 | | |
| BM (30°-60°) | 3532.3 | 28.7 | B3/5000 | | |
| BH (60°-80°) | 1847.6 | 15.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 24.2 | 0.2 | | | 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° | 1465.7 | 1465.7 | 1465.7 | 1465.7 | 1465.7 | 1465.7 | 1465.7 | 1465.7 | 1465.7 | 1465.7 |
| 2.5° | 1475.6 | 1470.7 | 1474.4 | 1471.3 | 1468.8 | 1466.3 | 1467.6 | 1471.9 | 1473.8 | 1474.4 |
| 5° | 1495.4 | 1491.1 | 1492.9 | 1492.9 | 1488.6 | 1487.4 | 1488.0 | 1491.1 | 1494.8 | 1494.8 |
| 7.5° | 1527.5 | 1523.2 | 1527.5 | 1525.0 | 1521.3 | 1520.1 | 1519.5 | 1522.0 | 1527.5 | 1527.5 |
| 10° | 1566.4 | 1561.5 | 1564.0 | 1562.7 | 1558.4 | 1556.6 | 1555.9 | 1559.7 | 1564.6 | 1564.0 |
| 12.5° | 1609.1 | 1603.5 | 1606.6 | 1602.9 | 1601.7 | 1599.8 | 1599.8 | 1599.2 | 1602.3 | 1599.8 |
| 15° | 1656.7 | 1653.0 | 1654.2 | 1651.7 | 1653.6 | 1652.3 | 1647.4 | 1644.9 | 1646.2 | 1642.5 |
| 17.5° | 1712.9 | 1704.2 | 1708.6 | 1707.3 | 1707.3 | 1709.8 | 1701.8 | 1698.7 | 1701.2 | 1697.5 |
| 20° | 1777.8 | 1769.1 | 1771.0 | 1768.5 | 1765.4 | 1767.9 | 1758.0 | 1760.5 | 1762.3 | 1759.9 |
| 22.5° | 1848.8 | 1837.7 | 1837.1 | 1838.3 | 1831.5 | 1832.2 | 1825.4 | 1831.5 | 1835.2 | 1828.5 |
| 25° | 1921.8 | 1910.0 | 1918.1 | 1915.0 | 1906.3 | 1908.2 | 1903.2 | 1909.4 | 1912.5 | 1903.8 |
| 27.5° | 1999.0 | 1991.0 | 1998.4 | 2000.2 | 1989.7 | 1997.1 | 1989.7 | 1995.3 | 1998.4 | 1985.4 |
| 30° | 2089.2 | 2081.2 | 2088.0 | 2092.9 | 2080.6 | 2092.3 | 2086.1 | 2089.8 | 2090.5 | 2075.0 |
| 32.5° | 2187.5 | 2175.1 | 2192.4 | 2194.9 | 2181.3 | 2195.5 | 2187.5 | 2192.4 | 2195.5 | 2174.5 |
| 35° | 2307.3 | 2291.9 | 2311.7 | 2308.6 | 2296.8 | 2308.6 | 2301.2 | 2308.6 | 2316.0 | 2290.7 |
| 37.5° | 2436.5 | 2420.4 | 2441.4 | 2435.9 | 2424.8 | 2432.8 | 2428.5 | 2433.4 | 2445.1 | 2418.0 |
| 40° | 2578.6 | 2558.8 | 2587.3 | 2577.4 | 2566.9 | 2565.6 | 2568.1 | 2571.2 | 2586.7 | 2556.4 |
| 42.5° | 2730.6 | 2709.6 | 2752.3 | 2736.8 | 2722.0 | 2712.1 | 2720.1 | 2726.3 | 2741.1 | 2707.1 |
| 45° | 2904.3 | 2880.2 | 2935.8 | 2917.2 | 2893.8 | 2873.4 | 2886.3 | 2895.6 | 2917.2 | 2876.5 |
| 47.5° | 3095.8 | 3068.6 | 3128.0 | 3122.4 | 3084.1 | 3039.6 | 3069.3 | 3095.8 | 3111.9 | 3062.5 |
| 50° | 3283.1 | 3262.0 | 3339.9 | 3346.7 | 3299.7 | 3237.3 | 3278.7 | 3318.9 | 3323.2 | 3258.3 |
| 52.5° | 3458.5 | 3437.5 | 3550.6 | 3593.3 | 3551.2 | 3477.1 | 3521.0 | 3561.7 | 3529.0 | 3445.0 |
| 55° | 3598.8 | 3581.5 | 3725.5 | 3835.5 | 3849.7 | 3788.5 | 3814.5 | 3813.2 | 3705.7 | 3576.6 |
| 57.5° | 3632.8 | 3630.3 | 3812.0 | 4045.0 | 4193.3 | 4200.7 | 4149.4 | 4018.4 | 3786.7 | 3613.0 |
| 60° | 3478.3 | 3493.8 | 3743.4 | 4154.3 | 4549.8 | 4714.2 | 4492.3 | 4118.5 | 3694.6 | 3453.6 |
| 62.5° | 3016.1 | 3056.9 | 3357.8 | 4020.9 | 4837.8 | 5304.9 | 4767.3 | 3966.5 | 3316.4 | 3001.9 |
| 65° | 2161.5 | 2232.6 | 2565.0 | 3431.4 | 4811.8 | 5824.0 | 4727.8 | 3403.6 | 2589.7 | 2227.0 |
| 67.5° | 980.7 | 1053.0 | 1335.3 | 2349.4 | 4182.8 | 5683.1 | 4172.9 | 2374.1 | 1402.1 | 1056.7 |
| 70° | 355.3 | 367.7 | 458.5 | 940.5 | 2673.2 | 4528.2 | 2787.5 | 947.3 | 487.5 | 391.8 |
| 72.5° | 215.0 | 216.9 | 236.0 | 336.8 | 928.7 | 2749.2 | 968.3 | 347.9 | 241.0 | 213.8 |
| 75° | 136.6 | 135.3 | 168.1 | 205.8 | 329.4 | 927.5 | 345.4 | 205.8 | 167.5 | 152.6 |
| 77.5° | 98.3 | 101.3 | 120.5 | 153.9 | 207.6 | 314.5 | 203.9 | 147.1 | 120.5 | 98.9 |
| 80° | 73.5 | 75.4 | 87.7 | 119.9 | 145.8 | 195.9 | 129.8 | 108.8 | 90.8 | 61.8 |
| 82.5° | 53.1 | 53.1 | 57.5 | 87.1 | 89.0 | 105.7 | 70.4 | 76.6 | 59.9 | 43.9 |
| 85° | 31.5 | 30.9 | 35.8 | 51.9 | 46.3 | 38.9 | 32.1 | 47.0 | 37.7 | 27.2 |
| 87.5° | 11.1 | 11.7 | 11.1 | 14.8 | 12.4 | 10.5 | 9.9 | 13.0 | 10.5 | 9.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 1465.7 |
| 1474.4 |
| 1494.8 |
| 1525.7 |
| 1562.7 |
| 1601.1 |
| 1643.1 |
| 1700.5 |
| 1765.4 |
| 1835.2 |
| 1913.7 |
| 1995.3 |
| 2084.3 |
| 2188.7 |
| 2306.1 |
| 2434.6 |
| 2566.3 |
| 2725.1 |
| 2897.5 |
| 3079.1 |
| 3266.4 |
| 3447.4 |
| 3580.9 |
| 3601.9 |
| 3425.2 |
| 2983.4 |
| 2200.4 |
| 1041.2 |
| 386.8 |
| 217.5 |
| 153.9 |
| 100.7 |
| 63.6 |
| 43.9 |
| 26.6 |
| 8.7 |
| 0.0 |

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