

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1589865

Luminaire Tested: 24CZSP-SB-57-L935

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1589865  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CZSP-SB-57-L935  
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

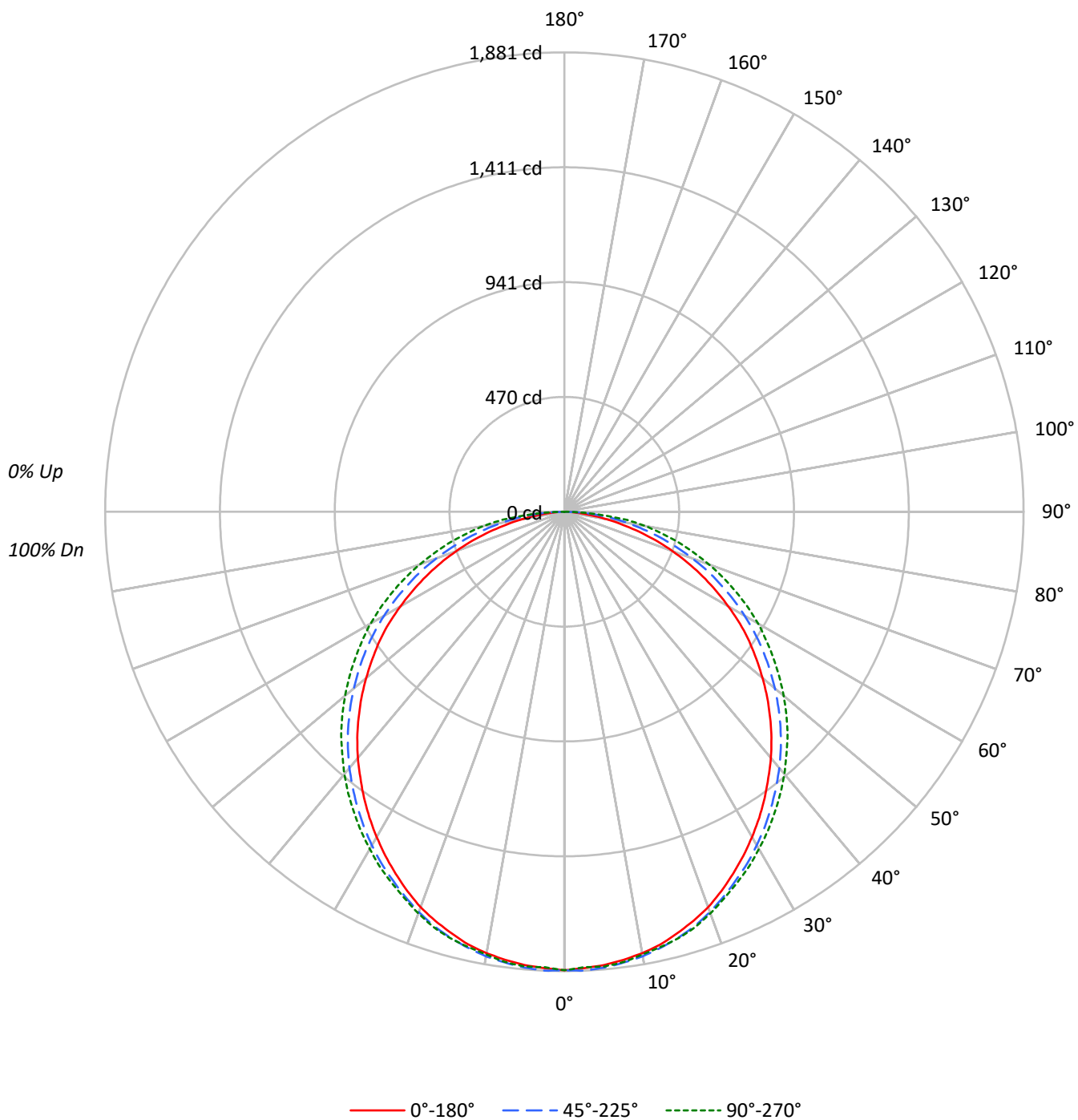
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5478.0 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.9  
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: 28.75 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  |  | 93  | 90  | 88  |  | 89  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 72  |  | 78  |
| 3   | 89  | 79  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 65  | 61  |  | 69  |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 52  |  | 63  | 57  | 52  |  | 61  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  |  | 57  | 50  | 45  |  | 55  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  |  | 51  | 44  | 39  |  | 50  |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  |  | 47  | 40  | 35  |  | 45  |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  |  | 37  | 30  | 25  |  | 36  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2875 | 2875 | 2875 |
| 5°  | 2865 | 2881 | 2874 |
| 10° | 2855 | 2874 | 2863 |
| 15° | 2833 | 2862 | 2866 |
| 20° | 2808 | 2842 | 2852 |
| 25° | 2763 | 2812 | 2831 |
| 30° | 2719 | 2789 | 2819 |
| 35° | 2675 | 2762 | 2810 |
| 40° | 2631 | 2738 | 2803 |
| 45° | 2582 | 2712 | 2800 |
| 50° | 2525 | 2683 | 2793 |
| 55° | 2468 | 2653 | 2793 |
| 60° | 2376 | 2614 | 2809 |
| 65° | 2265 | 2563 | 2811 |
| 70° | 2113 | 2492 | 2819 |
| 75° | 1880 | 2401 | 2868 |
| 80° | 1544 | 2301 | 2976 |
| 85° | 1019 | 2160 | 2689 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3047 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 177.6  | 3.2       |
| 10°-20°   | 508.2  | 9.3       |
| 20°-30°   | 766.1  | 14.0      |
| 30°-40°   | 922.5  | 16.8      |
| 40°-50°   | 963.8  | 17.6      |
| 50°-60°   | 885.5  | 16.2      |
| 60°-70°   | 697.3  | 12.7      |
| 70°-80°   | 427.5  | 7.8       |
| 80°-90°   | 129.6  | 2.4       |
| 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°-30°    | 1451.9 | 26.5      |
| 0°-40°    | 2374.4 | 43.3      |
| 0°-60°    | 4223.6 | 77.1      |
| 0°-90°    | 5478.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5478.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1877 | 1877  | 1877 | 1877  | 1877 |      |
| 5°  | 1863 | 1867  | 1874 | 1871  | 1869 | 177  |
| 15° | 1787 | 1794  | 1805 | 1812  | 1808 | 504  |
| 25° | 1635 | 1645  | 1664 | 1681  | 1675 | 754  |
| 35° | 1431 | 1449  | 1477 | 1504  | 1503 | 895  |
| 45° | 1192 | 1217  | 1252 | 1287  | 1293 | 919  |
| 55° | 924  | 951   | 994  | 1036  | 1046 | 824  |
| 65° | 625  | 657   | 707  | 755   | 776  | 618  |
| 75° | 318  | 355   | 406  | 454   | 485  | 338  |
| 85° | 58   | 86    | 123  | 137   | 153  | 75   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1877.1 | 1877.1 | 1877.1 | 1877.1 | 1877.1 |
| 2.5°  | 1870.1 | 1874.8 | 1880.6 | 1871.3 | 1866.7 |
| 5°    | 1863.2 | 1866.7 | 1873.6 | 1871.3 | 1869.0 |
| 7.5°  | 1850.4 | 1852.7 | 1862.0 | 1862.0 | 1859.7 |
| 10°   | 1835.4 | 1840.0 | 1848.1 | 1846.9 | 1841.1 |
| 12.5° | 1815.6 | 1819.1 | 1828.4 | 1828.4 | 1824.9 |
| 15°   | 1786.7 | 1793.6 | 1805.2 | 1812.2 | 1807.5 |
| 17.5° | 1756.5 | 1763.5 | 1778.5 | 1785.5 | 1783.2 |
| 20°   | 1722.9 | 1728.7 | 1743.8 | 1754.2 | 1749.6 |
| 22.5° | 1681.2 | 1688.1 | 1705.5 | 1717.1 | 1712.5 |
| 25°   | 1634.8 | 1645.2 | 1663.8 | 1681.2 | 1675.4 |
| 27.5° | 1588.4 | 1600.0 | 1623.2 | 1640.6 | 1638.3 |
| 30°   | 1537.4 | 1552.5 | 1576.8 | 1598.8 | 1594.2 |
| 32.5° | 1485.2 | 1502.6 | 1528.1 | 1551.3 | 1550.1 |
| 35°   | 1430.7 | 1449.3 | 1477.1 | 1503.8 | 1502.6 |
| 37.5° | 1372.7 | 1394.8 | 1423.8 | 1452.7 | 1453.9 |
| 40°   | 1315.9 | 1336.8 | 1369.3 | 1400.6 | 1401.7 |
| 42.5° | 1255.6 | 1277.7 | 1312.5 | 1344.9 | 1346.1 |
| 45°   | 1191.9 | 1217.4 | 1252.2 | 1286.9 | 1292.7 |
| 47.5° | 1127.0 | 1153.6 | 1189.6 | 1226.7 | 1233.6 |
| 50°   | 1059.7 | 1087.5 | 1125.8 | 1165.2 | 1172.2 |
| 52.5° | 991.3  | 1020.3 | 1059.7 | 1099.1 | 1109.6 |
| 55°   | 924.1  | 950.7  | 993.6  | 1036.5 | 1045.8 |
| 57.5° | 853.3  | 877.7  | 924.1  | 969.3  | 980.9  |
| 60°   | 775.6  | 805.8  | 853.3  | 898.5  | 917.1  |
| 62.5° | 700.3  | 732.7  | 781.4  | 826.7  | 847.5  |
| 65°   | 624.9  | 657.4  | 707.2  | 754.8  | 775.6  |
| 67.5° | 548.4  | 582.0  | 635.4  | 680.6  | 703.8  |
| 70°   | 471.9  | 505.5  | 556.5  | 605.2  | 629.6  |
| 72.5° | 395.4  | 431.3  | 481.2  | 531.0  | 555.4  |
| 75°   | 317.7  | 354.8  | 405.8  | 454.5  | 484.6  |
| 77.5° | 244.6  | 280.6  | 331.6  | 381.4  | 407.0  |
| 80°   | 175.1  | 211.0  | 260.9  | 310.7  | 337.4  |
| 82.5° | 111.3  | 144.9  | 193.6  | 235.4  | 259.7  |
| 85°   | 58.0   | 85.8   | 122.9  | 136.8  | 153.0  |
| 87.5° | 17.4   | 33.6   | 47.5   | 53.3   | 66.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         |      | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall            |      | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference plane |      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room Dimensions |      | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| X=2H            | Y=2H | 15.2             | 16.8 | 15.5 | 17.2 | 17.5 | 15.9           | 17.6 | 16.3 | 17.9 | 18.2 |
|                 | 3H   | 16.9             | 18.5 | 17.3 | 18.8 | 19.1 | 18.0           | 19.5 | 18.4 | 19.9 | 20.2 |
|                 | 4H   | 17.6             | 19.0 | 18.0 | 19.3 | 19.7 | 18.9           | 20.3 | 19.3 | 20.7 | 21.1 |
|                 | 6H   | 18.0             | 19.3 | 18.4 | 19.7 | 20.1 | 19.7           | 21.0 | 20.1 | 21.4 | 21.8 |
|                 | 8H   | 18.1             | 19.4 | 18.5 | 19.7 | 20.1 | 20.0           | 21.3 | 20.4 | 21.6 | 22.0 |
|                 | 12H  | 18.1             | 19.4 | 18.6 | 19.7 | 20.2 | 20.2           | 21.4 | 20.6 | 21.8 | 22.2 |
| 4H              | 2H   | 16.0             | 17.4 | 16.4 | 17.7 | 18.1 | 16.5           | 18.0 | 16.9 | 18.3 | 18.7 |
|                 | 3H   | 17.9             | 19.1 | 18.4 | 19.5 | 19.9 | 18.9           | 20.1 | 19.3 | 20.5 | 20.9 |
|                 | 4H   | 18.7             | 19.8 | 19.1 | 20.2 | 20.6 | 19.9           | 21.0 | 20.3 | 21.4 | 21.8 |
|                 | 6H   | 19.2             | 20.2 | 19.7 | 20.6 | 21.1 | 20.8           | 21.8 | 21.3 | 22.2 | 22.7 |
|                 | 8H   | 19.4             | 20.3 | 19.8 | 20.7 | 21.2 | 21.2           | 22.1 | 21.7 | 22.5 | 23.0 |
|                 | 12H  | 19.5             | 20.3 | 19.9 | 20.7 | 21.2 | 21.5           | 22.3 | 22.0 | 22.8 | 23.2 |
| 8H              | 4H   | 19.2             | 20.0 | 19.6 | 20.5 | 20.9 | 20.2           | 21.1 | 20.7 | 21.5 | 22.0 |
|                 | 6H   | 19.8             | 20.6 | 20.3 | 21.1 | 21.5 | 21.3           | 22.0 | 21.8 | 22.5 | 23.0 |
|                 | 8H   | 20.1             | 20.7 | 20.6 | 21.2 | 21.7 | 21.8           | 22.4 | 22.3 | 22.9 | 23.4 |
|                 | 12H  | 20.2             | 20.8 | 20.7 | 21.3 | 21.8 | 22.1           | 22.7 | 22.6 | 23.2 | 23.8 |
| 12H             | 4H   | 19.2             | 20.0 | 19.7 | 20.5 | 21.0 | 20.2           | 21.0 | 20.7 | 21.5 | 22.0 |
|                 | 6H   | 20.0             | 20.6 | 20.5 | 21.1 | 21.6 | 21.3           | 22.0 | 21.9 | 22.5 | 23.0 |
|                 | 8H   | 20.2             | 20.8 | 20.8 | 21.3 | 21.9 | 21.9           | 22.5 | 22.4 | 23.0 | 23.5 |

(END OF REPORT)