

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: P1589862

Luminaire Tested: 24CZSP-SB-57-L930-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1589862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CZSP-SB-57-L930-S  
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

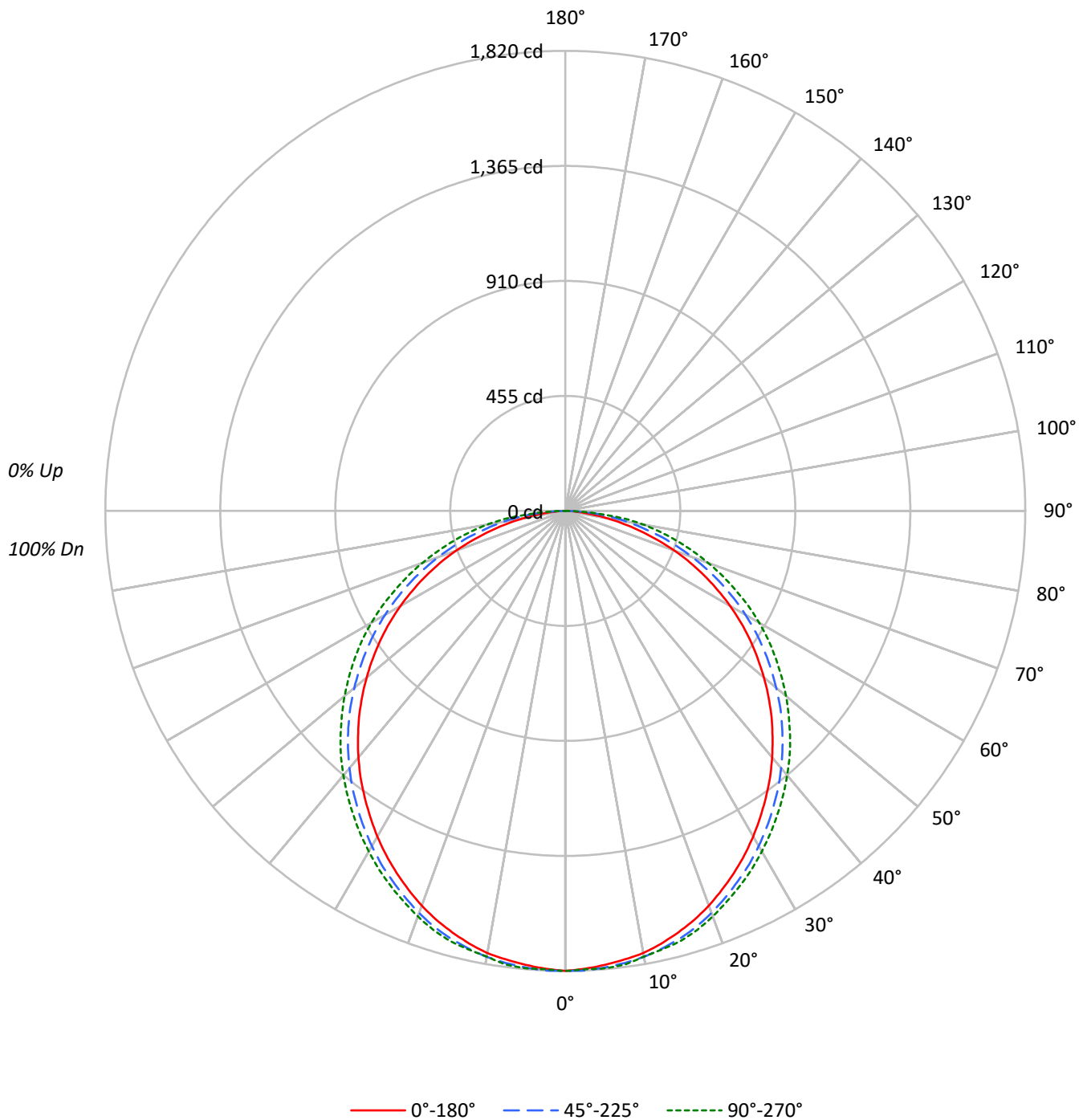
Lumens per Lamp: N/A  
Luminaire Lumens: 5294.0 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 94  | 90  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |    |    |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |
| 3   | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 58  |    |    |
| 4   | 82  | 70  | 61  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |    |    |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |    |    |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |    |    |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |
| 10  | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 30  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 24  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2787 | 2787 | 2787 |
| 5°  | 2772 | 2788 | 2793 |
| 10° | 2763 | 2786 | 2784 |
| 15° | 2738 | 2777 | 2794 |
| 20° | 2708 | 2758 | 2782 |
| 25° | 2669 | 2731 | 2766 |
| 30° | 2630 | 2707 | 2751 |
| 35° | 2587 | 2681 | 2738 |
| 40° | 2546 | 2657 | 2730 |
| 45° | 2499 | 2630 | 2723 |
| 50° | 2445 | 2597 | 2716 |
| 55° | 2384 | 2564 | 2713 |
| 60° | 2309 | 2526 | 2714 |
| 65° | 2204 | 2472 | 2699 |
| 70° | 2060 | 2397 | 2693 |
| 75° | 1826 | 2305 | 2703 |
| 80° | 1487 | 2190 | 2783 |
| 85° | 961  | 2021 | 2402 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2820 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 172.2  | 3.3       |
| 10°-20°   | 493.2  | 9.3       |
| 20°-30°   | 743.6  | 14.0      |
| 30°-40°   | 894.7  | 16.9      |
| 40°-50°   | 933.3  | 17.6      |
| 50°-60°   | 855.5  | 16.2      |
| 60°-70°   | 671.7  | 12.7      |
| 70°-80°   | 408.8  | 7.7       |
| 80°-90°   | 120.9  | 2.3       |
| 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°    | 1409.0 | 26.6      |
| 0°-40°    | 2303.7 | 43.5      |
| 0°-60°    | 4092.5 | 77.3      |
| 0°-90°    | 5294.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5294.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1820 | 1820  | 1820 | 1820  | 1820 |      |
| 5°  | 1803 | 1814  | 1813 | 1811  | 1816 | 171  |
| 15° | 1726 | 1744  | 1752 | 1754  | 1762 | 487  |
| 25° | 1580 | 1601  | 1616 | 1626  | 1636 | 728  |
| 35° | 1384 | 1405  | 1434 | 1454  | 1465 | 866  |
| 45° | 1154 | 1178  | 1214 | 1242  | 1257 | 890  |
| 55° | 893  | 916   | 960  | 999   | 1016 | 798  |
| 65° | 608  | 631   | 682  | 728   | 745  | 602  |
| 75° | 309  | 337   | 390  | 436   | 457  | 327  |
| 85° | 55   | 77    | 115  | 129   | 137  | 71   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1819.9 | 1819.9 | 1819.9 | 1819.9 | 1819.9 |
| 2.5°  | 1813.1 | 1822.2 | 1819.9 | 1811.9 | 1815.3 |
| 5°    | 1802.8 | 1814.2 | 1813.1 | 1810.8 | 1816.5 |
| 7.5°  | 1790.3 | 1802.8 | 1803.9 | 1803.9 | 1810.8 |
| 10°   | 1776.6 | 1789.1 | 1791.4 | 1788.0 | 1790.3 |
| 12.5° | 1753.8 | 1768.6 | 1773.2 | 1773.2 | 1776.6 |
| 15°   | 1726.5 | 1743.6 | 1751.6 | 1753.8 | 1761.8 |
| 17.5° | 1696.9 | 1715.1 | 1725.4 | 1731.1 | 1737.9 |
| 20°   | 1661.6 | 1681.0 | 1692.3 | 1699.2 | 1707.1 |
| 22.5° | 1621.7 | 1643.4 | 1655.9 | 1662.7 | 1671.8 |
| 25°   | 1579.6 | 1601.2 | 1616.0 | 1626.3 | 1636.5 |
| 27.5° | 1535.2 | 1555.7 | 1576.2 | 1588.7 | 1597.8 |
| 30°   | 1487.3 | 1509.0 | 1530.6 | 1546.6 | 1555.7 |
| 32.5° | 1436.1 | 1458.9 | 1483.9 | 1501.0 | 1511.3 |
| 35°   | 1383.7 | 1405.3 | 1433.8 | 1454.3 | 1464.6 |
| 37.5° | 1330.2 | 1353.0 | 1382.6 | 1404.2 | 1416.7 |
| 40°   | 1273.2 | 1297.2 | 1329.0 | 1353.0 | 1365.5 |
| 42.5° | 1214.0 | 1236.8 | 1272.1 | 1299.4 | 1314.2 |
| 45°   | 1153.7 | 1177.6 | 1214.0 | 1242.5 | 1257.3 |
| 47.5° | 1091.0 | 1113.8 | 1153.7 | 1186.7 | 1199.2 |
| 50°   | 1026.1 | 1047.7 | 1089.9 | 1125.2 | 1140.0 |
| 52.5° | 960.1  | 982.8  | 1025.0 | 1062.6 | 1078.5 |
| 55°   | 892.9  | 915.6  | 960.1  | 998.8  | 1015.9 |
| 57.5° | 824.5  | 847.3  | 892.9  | 932.7  | 953.2  |
| 60°   | 753.9  | 776.7  | 824.5  | 865.5  | 886.0  |
| 62.5° | 681.0  | 705.0  | 753.9  | 796.1  | 817.7  |
| 65°   | 608.1  | 630.9  | 682.2  | 727.7  | 744.8  |
| 67.5° | 535.3  | 558.0  | 608.1  | 653.7  | 674.2  |
| 70°   | 460.1  | 486.3  | 535.3  | 583.1  | 601.3  |
| 72.5° | 381.5  | 411.1  | 460.1  | 510.2  | 528.4  |
| 75°   | 308.6  | 337.1  | 389.5  | 436.2  | 456.7  |
| 77.5° | 236.9  | 267.6  | 316.6  | 364.4  | 384.9  |
| 80°   | 168.6  | 198.2  | 248.3  | 293.8  | 315.5  |
| 82.5° | 107.1  | 133.2  | 183.4  | 224.4  | 240.3  |
| 85°   | 54.7   | 77.4   | 115.0  | 128.7  | 136.7  |
| 87.5° | 15.9   | 27.3   | 41.0   | 51.2   | 56.9   |
| 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 | 15.1             | 16.7 | 15.4 | 17.0 | 17.3 | 15.8           | 17.5 | 16.2 | 17.8 | 18.1 |
|                 | 3H   | 16.8             | 18.3 | 17.2 | 18.7 | 19.0 | 17.9           | 19.4 | 18.3 | 19.7 | 20.1 |
|                 | 4H   | 17.4             | 18.9 | 17.8 | 19.2 | 19.6 | 18.7           | 20.2 | 19.1 | 20.5 | 20.9 |
|                 | 6H   | 17.9             | 19.2 | 18.3 | 19.5 | 19.9 | 19.5           | 20.8 | 19.9 | 21.2 | 21.6 |
|                 | 8H   | 18.0             | 19.2 | 18.4 | 19.6 | 20.0 | 19.8           | 21.0 | 20.2 | 21.4 | 21.8 |
|                 | 12H  | 18.0             | 19.2 | 18.4 | 19.6 | 20.0 | 20.0           | 21.2 | 20.4 | 21.6 | 22.0 |
| 4H              | 2H   | 15.8             | 17.2 | 16.2 | 17.6 | 18.0 | 16.4           | 17.8 | 16.8 | 18.2 | 18.5 |
|                 | 3H   | 17.8             | 19.0 | 18.2 | 19.4 | 19.8 | 18.7           | 19.9 | 19.1 | 20.3 | 20.7 |
|                 | 4H   | 18.6             | 19.6 | 19.0 | 20.1 | 20.5 | 19.7           | 20.8 | 20.2 | 21.2 | 21.7 |
|                 | 6H   | 19.1             | 20.0 | 19.5 | 20.5 | 20.9 | 20.6           | 21.6 | 21.1 | 22.0 | 22.5 |
|                 | 8H   | 19.2             | 20.1 | 19.7 | 20.6 | 21.0 | 21.0           | 21.9 | 21.5 | 22.3 | 22.8 |
|                 | 12H  | 19.3             | 20.1 | 19.8 | 20.6 | 21.1 | 21.3           | 22.1 | 21.7 | 22.5 | 23.0 |
| 8H              | 4H   | 19.0             | 19.9 | 19.5 | 20.3 | 20.8 | 20.0           | 20.9 | 20.5 | 21.4 | 21.8 |
|                 | 6H   | 19.7             | 20.4 | 20.2 | 20.9 | 21.4 | 21.1           | 21.8 | 21.6 | 22.3 | 22.8 |
|                 | 8H   | 19.9             | 20.5 | 20.4 | 21.1 | 21.5 | 21.6           | 22.2 | 22.1 | 22.7 | 23.2 |
|                 | 12H  | 20.0             | 20.6 | 20.5 | 21.1 | 21.7 | 21.9           | 22.5 | 22.4 | 23.0 | 23.5 |
| 12H             | 4H   | 19.1             | 19.9 | 19.6 | 20.4 | 20.8 | 20.1           | 20.9 | 20.5 | 21.3 | 21.8 |
|                 | 6H   | 19.8             | 20.5 | 20.3 | 20.9 | 21.5 | 21.2           | 21.8 | 21.7 | 22.3 | 22.8 |
|                 | 8H   | 20.1             | 20.7 | 20.6 | 21.2 | 21.7 | 21.7           | 22.3 | 22.2 | 22.8 | 23.3 |

(END OF REPORT)