

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P1586741

Luminaire Tested: 22CZSP-A-54HE-L850

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-A-54HE-L850  
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Ribbed Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

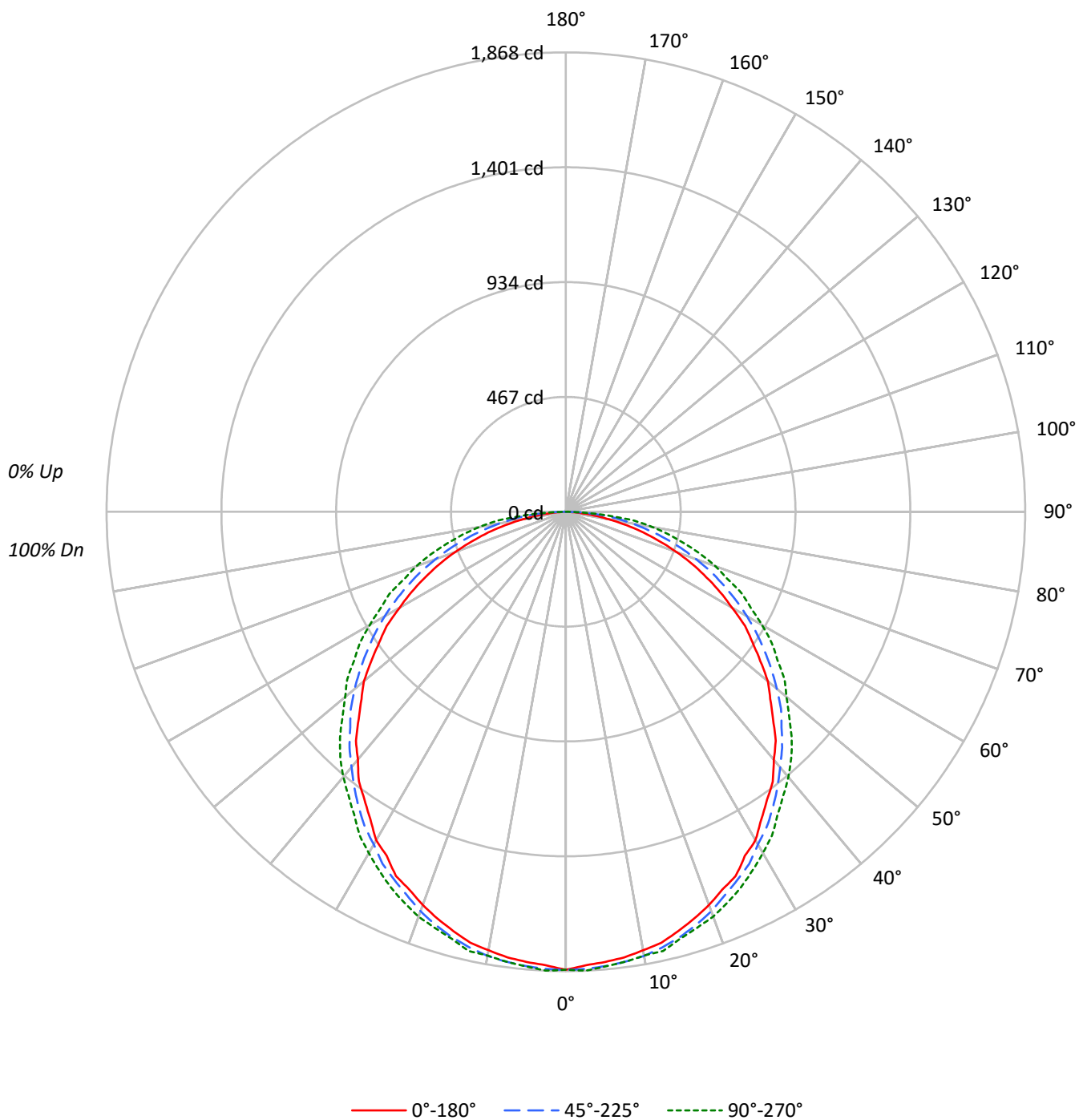
Lumens per Lamp: N/A  
Luminaire Lumens: 5486.0 lumens  
Efficiency: N/A  
Efficacy: 152.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.1  
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

TEST NUMBER: P1586741

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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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| 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  | 105 | 101 | 97  | 93  | 97  | 93  | 90  |  | 93  | 90  | 87  |  | 89  | 87  | 85  | 83  |
| 2   | 98  | 90  | 82  | 76  | 95  | 88  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 72  |  | 78  | 74  | 70  | 68  |
| 3   | 89  | 78  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 65  | 60  |  | 68  | 64  | 59  | 57  |
| 4   | 82  | 69  | 60  | 53  | 79  | 68  | 59  | 53  | 65  | 58  | 52  |  | 63  | 57  | 51  |  | 61  | 55  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 55  | 49  | 44  | 42  |
| 6   | 69  | 56  | 46  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 39  |  | 51  | 44  | 39  |  | 49  | 43  | 39  | 36  |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 35  |  | 46  | 40  | 34  |  | 45  | 39  | 34  | 32  |
| 8   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  |  | 43  | 36  | 31  |  | 41  | 35  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 25  | 51  | 38  | 31  | 25  | 37  | 30  | 25  |  | 36  | 30  | 25  |  | 35  | 29  | 25  | 23  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5832 | 5832 | 5832 |
| 5°  | 5775 | 5828 | 5833 |
| 10° | 5757 | 5831 | 5826 |
| 15° | 5722 | 5804 | 5826 |
| 20° | 5670 | 5759 | 5838 |
| 25° | 5647 | 5705 | 5821 |
| 30° | 5576 | 5649 | 5794 |
| 35° | 5459 | 5612 | 5741 |
| 40° | 5377 | 5542 | 5755 |
| 45° | 5276 | 5491 | 5751 |
| 50° | 5223 | 5460 | 5705 |
| 55° | 5056 | 5386 | 5734 |
| 60° | 4887 | 5328 | 5769 |
| 65° | 4675 | 5247 | 5868 |
| 70° | 4394 | 5146 | 5930 |
| 75° | 3959 | 5055 | 6049 |
| 80° | 3237 | 4963 | 6445 |
| 85° | 2109 | 4944 | 6029 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6763 cd/sqm

TEST NUMBER: P1586741

CATALOG NUMBER: 22CZSP-A-54HE-L850

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 176.0  | 3.2       |
| 10°-20°   | 504.1  | 9.2       |
| 20°-30°   | 761.9  | 13.9      |
| 30°-40°   | 918.9  | 16.8      |
| 40°-50°   | 960.6  | 17.5      |
| 50°-60°   | 885.9  | 16.1      |
| 60°-70°   | 701.9  | 12.8      |
| 70°-80°   | 438.9  | 8.0       |
| 80°-90°   | 137.7  | 2.5       |
| 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°    | 1442.1 | 26.3      |
| 0°-40°    | 2361.0 | 43.0      |
| 0°-60°    | 4207.5 | 76.7      |
| 0°-90°    | 5486.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5486.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1862 | 1862  | 1862 | 1862  | 1862 |      |
| 5°  | 1837 | 1846  | 1854 | 1861  | 1856 | 175  |
| 15° | 1765 | 1774  | 1790 | 1802  | 1797 | 498  |
| 25° | 1634 | 1629  | 1651 | 1675  | 1685 | 750  |
| 35° | 1428 | 1445  | 1468 | 1493  | 1502 | 896  |
| 45° | 1191 | 1208  | 1240 | 1272  | 1299 | 922  |
| 55° | 926  | 948   | 987  | 1040  | 1050 | 830  |
| 65° | 631  | 658   | 708  | 764   | 792  | 625  |
| 75° | 327  | 354   | 418  | 476   | 500  | 345  |
| 85° | 59   | 84    | 138  | 161   | 168  | 77   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1586741

CATALOG NUMBER: 22CZSP-A-54HE-L850

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1862.5 | 1862.5 | 1862.5 | 1862.5 | 1862.5 |
| 2.5°  | 1845.8 | 1854.2 | 1860.9 | 1859.2 | 1867.6 |
| 5°    | 1837.4 | 1845.8 | 1854.2 | 1860.9 | 1855.8 |
| 7.5°  | 1827.3 | 1835.7 | 1845.8 | 1855.8 | 1845.8 |
| 10°   | 1810.5 | 1815.6 | 1834.0 | 1835.7 | 1832.3 |
| 12.5° | 1795.4 | 1800.5 | 1813.9 | 1825.6 | 1829.0 |
| 15°   | 1765.2 | 1773.6 | 1790.4 | 1802.1 | 1797.1 |
| 17.5° | 1735.0 | 1746.8 | 1761.9 | 1773.6 | 1773.6 |
| 20°   | 1701.5 | 1709.9 | 1728.3 | 1736.7 | 1751.8 |
| 22.5° | 1662.9 | 1672.9 | 1688.0 | 1711.5 | 1719.9 |
| 25°   | 1634.3 | 1629.3 | 1651.1 | 1674.6 | 1684.7 |
| 27.5° | 1577.3 | 1584.0 | 1614.2 | 1636.0 | 1644.4 |
| 30°   | 1542.1 | 1545.4 | 1562.2 | 1592.4 | 1602.5 |
| 32.5° | 1480.0 | 1490.0 | 1520.2 | 1542.1 | 1560.5 |
| 35°   | 1428.0 | 1444.7 | 1468.2 | 1493.4 | 1501.8 |
| 37.5° | 1382.6 | 1386.0 | 1412.9 | 1446.4 | 1453.1 |
| 40°   | 1315.5 | 1335.7 | 1355.8 | 1397.7 | 1407.8 |
| 42.5° | 1263.5 | 1273.6 | 1302.1 | 1342.4 | 1357.5 |
| 45°   | 1191.4 | 1208.1 | 1240.0 | 1271.9 | 1298.7 |
| 47.5° | 1127.6 | 1144.4 | 1186.3 | 1226.6 | 1231.6 |
| 50°   | 1072.2 | 1078.9 | 1120.9 | 1166.2 | 1171.2 |
| 52.5° | 996.7  | 1013.5 | 1053.8 | 1104.1 | 1120.9 |
| 55°   | 926.2  | 948.1  | 986.6  | 1040.3 | 1050.4 |
| 57.5° | 864.2  | 874.2  | 919.5  | 973.2  | 993.4  |
| 60°   | 780.3  | 808.8  | 850.7  | 902.7  | 921.2  |
| 62.5° | 708.1  | 735.0  | 780.3  | 828.9  | 849.1  |
| 65°   | 630.9  | 657.8  | 708.1  | 763.5  | 792.0  |
| 67.5° | 557.1  | 578.9  | 639.3  | 696.4  | 709.8  |
| 70°   | 479.9  | 505.1  | 562.1  | 620.8  | 647.7  |
| 72.5° | 399.4  | 427.9  | 491.6  | 547.0  | 575.5  |
| 75°   | 327.2  | 354.1  | 417.8  | 476.5  | 500.0  |
| 77.5° | 251.7  | 281.9  | 344.0  | 402.7  | 429.6  |
| 80°   | 179.5  | 209.7  | 275.2  | 333.9  | 357.4  |
| 82.5° | 115.8  | 147.7  | 209.7  | 261.8  | 281.9  |
| 85°   | 58.7   | 83.9   | 137.6  | 161.1  | 167.8  |
| 87.5° | 18.5   | 30.2   | 47.0   | 53.7   | 53.7   |
| 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 | 17.65            | 19.32 | 18.02 | 19.63 | 19.95 | 18.44          | 20.11 | 18.81 | 20.42 | 20.74 |
|                 | 3H   | 19.43            | 20.95 | 19.81 | 21.27 | 21.63 | 20.58          | 22.10 | 20.96 | 22.42 | 22.78 |
|                 | 4H   | 20.07            | 21.50 | 20.47 | 21.85 | 22.22 | 21.51          | 22.94 | 21.91 | 23.28 | 23.66 |
|                 | 6H   | 20.50            | 21.82 | 20.91 | 22.19 | 22.58 | 22.33          | 23.66 | 22.74 | 24.02 | 24.41 |
|                 | 8H   | 20.61            | 21.88 | 21.03 | 22.27 | 22.66 | 22.68          | 23.95 | 23.10 | 24.34 | 24.73 |
|                 | 12H  | 20.66            | 21.88 | 21.09 | 22.26 | 22.69 | 22.92          | 24.14 | 23.35 | 24.52 | 24.95 |
| 4H              | 2H   | 18.42            | 19.85 | 18.82 | 20.20 | 20.57 | 19.04          | 20.47 | 19.44 | 20.81 | 21.19 |
|                 | 3H   | 20.43            | 21.64 | 20.84 | 22.03 | 22.43 | 21.42          | 22.63 | 21.83 | 23.02 | 23.42 |
|                 | 4H   | 21.20            | 22.29 | 21.63 | 22.70 | 23.13 | 22.51          | 23.60 | 22.94 | 24.02 | 24.45 |
|                 | 6H   | 21.74            | 22.70 | 22.20 | 23.14 | 23.59 | 23.51          | 24.47 | 23.96 | 24.91 | 25.36 |
|                 | 8H   | 21.90            | 22.80 | 22.36 | 23.24 | 23.70 | 23.94          | 24.83 | 24.39 | 25.27 | 25.74 |
|                 | 12H  | 21.99            | 22.80 | 22.46 | 23.27 | 23.74 | 24.25          | 25.06 | 24.73 | 25.53 | 26.00 |
| 8H              | 4H   | 21.68            | 22.57 | 22.13 | 23.01 | 23.48 | 22.82          | 23.72 | 23.28 | 24.16 | 24.62 |
|                 | 6H   | 22.36            | 23.11 | 22.86 | 23.60 | 24.07 | 23.98          | 24.73 | 24.47 | 25.22 | 25.69 |
|                 | 8H   | 22.59            | 23.27 | 23.10 | 23.77 | 24.26 | 24.53          | 25.20 | 25.03 | 25.71 | 26.19 |
|                 | 12H  | 22.74            | 23.34 | 23.25 | 23.83 | 24.38 | 24.96          | 25.55 | 25.46 | 26.04 | 26.60 |
| 12H             | 4H   | 21.77            | 22.58 | 22.25 | 23.06 | 23.52 | 22.85          | 23.66 | 23.33 | 24.13 | 24.60 |
|                 | 6H   | 22.51            | 23.19 | 23.02 | 23.69 | 24.18 | 24.04          | 24.71 | 24.55 | 25.22 | 25.70 |
|                 | 8H   | 22.82            | 23.41 | 23.32 | 23.90 | 24.46 | 24.66          | 25.25 | 25.16 | 25.74 | 26.30 |