

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: P1586526

Luminaire Tested: 22CZSP-57HE-L940-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-57HE-L940-S  
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5700 lumens, 90CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

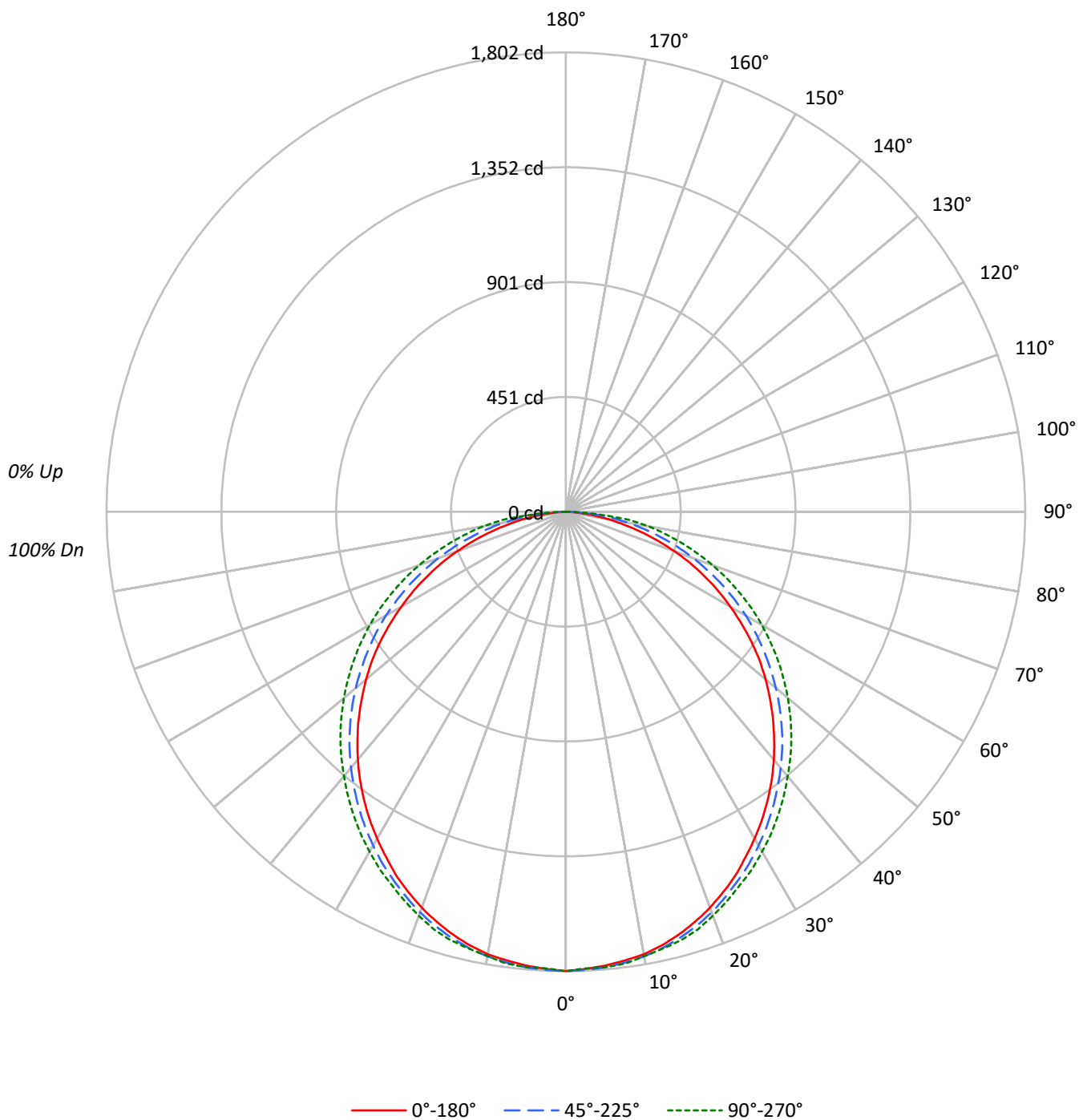
Lumens per Lamp: N/A  
Luminaire Lumens: 5260.0 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.9  
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: 24 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  |     |     | 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  | 106 | 101 | 97  | 93  | 97  | 93  | 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  | 65  | 61  |  | 69  | 64  | 60  | 57  |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 52  |  | 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  | 44  | 39  |  | 50  | 44  | 39  | 37  |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  |  | 47  | 40  | 35  |  | 45  | 39  | 34  | 32  |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  | 35  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  |  | 37  | 30  | 25  |  | 36  | 30  | 25  | 23  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5642 | 5642 | 5642 |
| 5°  | 5616 | 5638 | 5634 |
| 10° | 5604 | 5630 | 5626 |
| 15° | 5564 | 5609 | 5642 |
| 20° | 5508 | 5573 | 5619 |
| 25° | 5439 | 5515 | 5583 |
| 30° | 5354 | 5467 | 5567 |
| 35° | 5277 | 5414 | 5550 |
| 40° | 5190 | 5360 | 5534 |
| 45° | 5091 | 5305 | 5540 |
| 50° | 4982 | 5240 | 5538 |
| 55° | 4852 | 5167 | 5545 |
| 60° | 4669 | 5110 | 5559 |
| 65° | 4455 | 5012 | 5576 |
| 70° | 4153 | 4872 | 5600 |
| 75° | 3701 | 4678 | 5655 |
| 80° | 3060 | 4454 | 5931 |
| 85° | 1990 | 4024 | 5184 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6120 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 170.4  | 3.2       |
| 10°-20°   | 487.9  | 9.3       |
| 20°-30°   | 735.8  | 14.0      |
| 30°-40°   | 886.3  | 16.8      |
| 40°-50°   | 925.6  | 17.6      |
| 50°-60°   | 850.1  | 16.2      |
| 60°-70°   | 669.5  | 12.7      |
| 70°-80°   | 410.8  | 7.8       |
| 80°-90°   | 123.6  | 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       |
| <hr/>     |        |           |
| 0°-30°    | 1394.1 | 26.5      |
| 0°-40°    | 2280.4 | 43.4      |
| 0°-60°    | 4056.1 | 77.1      |
| 0°-90°    | 5260.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5260.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1802 | 1802  | 1802 | 1802  | 1802 |      |
| 5°  | 1787 | 1789  | 1794 | 1799  | 1792 | 170  |
| 15° | 1716 | 1720  | 1730 | 1740  | 1740 | 484  |
| 25° | 1574 | 1578  | 1596 | 1616  | 1616 | 725  |
| 35° | 1380 | 1387  | 1416 | 1445  | 1452 | 863  |
| 45° | 1150 | 1162  | 1198 | 1240  | 1251 | 886  |
| 55° | 889  | 905   | 946  | 1000  | 1016 | 793  |
| 65° | 601  | 622   | 676  | 733   | 752  | 595  |
| 75° | 306  | 330   | 387  | 448   | 467  | 324  |
| 85° | 55   | 76    | 112  | 142   | 144  | 72   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1801.7 | 1801.7 | 1801.7 | 1801.7 | 1801.7 |
| 2.5°  | 1794.8 | 1798.2 | 1799.4 | 1800.5 | 1792.5 |
| 5°    | 1786.7 | 1789.0 | 1793.6 | 1799.4 | 1792.5 |
| 7.5°  | 1775.1 | 1777.5 | 1783.2 | 1791.3 | 1787.8 |
| 10°   | 1762.4 | 1763.6 | 1770.5 | 1776.3 | 1769.4 |
| 12.5° | 1741.7 | 1745.1 | 1753.2 | 1757.8 | 1755.5 |
| 15°   | 1716.3 | 1719.7 | 1730.1 | 1740.5 | 1740.5 |
| 17.5° | 1686.3 | 1690.9 | 1703.6 | 1717.4 | 1718.6 |
| 20°   | 1652.8 | 1656.3 | 1672.4 | 1686.3 | 1686.3 |
| 22.5° | 1614.7 | 1619.3 | 1635.5 | 1650.5 | 1652.8 |
| 25°   | 1574.3 | 1577.8 | 1596.2 | 1615.9 | 1615.9 |
| 27.5° | 1527.0 | 1533.9 | 1557.0 | 1576.6 | 1581.2 |
| 30°   | 1480.8 | 1486.6 | 1512.0 | 1536.2 | 1539.7 |
| 32.5° | 1432.3 | 1439.3 | 1465.8 | 1492.4 | 1498.1 |
| 35°   | 1380.4 | 1387.3 | 1416.2 | 1445.0 | 1452.0 |
| 37.5° | 1326.2 | 1334.2 | 1364.3 | 1397.7 | 1404.6 |
| 40°   | 1269.6 | 1278.8 | 1311.2 | 1346.9 | 1353.9 |
| 42.5° | 1209.6 | 1222.3 | 1256.9 | 1293.8 | 1304.2 |
| 45°   | 1149.6 | 1162.3 | 1198.0 | 1239.6 | 1251.1 |
| 47.5° | 1086.1 | 1101.1 | 1138.0 | 1181.9 | 1194.6 |
| 50°   | 1022.6 | 1037.6 | 1075.7 | 1123.0 | 1136.9 |
| 52.5° | 958.0  | 973.0  | 1012.2 | 1061.9 | 1076.9 |
| 55°   | 888.7  | 904.9  | 946.4  | 999.5  | 1015.7 |
| 57.5° | 817.2  | 837.9  | 881.8  | 936.0  | 952.2  |
| 60°   | 745.6  | 766.4  | 816.0  | 869.1  | 887.6  |
| 62.5° | 675.2  | 694.8  | 745.6  | 802.2  | 821.8  |
| 65°   | 601.3  | 622.1  | 676.4  | 732.9  | 752.5  |
| 67.5° | 528.6  | 549.4  | 603.6  | 662.5  | 683.3  |
| 70°   | 453.6  | 476.7  | 532.1  | 590.9  | 611.7  |
| 72.5° | 378.6  | 402.8  | 459.4  | 519.4  | 539.0  |
| 75°   | 305.9  | 330.1  | 386.7  | 447.8  | 467.4  |
| 77.5° | 234.3  | 260.8  | 316.2  | 378.6  | 397.0  |
| 80°   | 169.7  | 195.1  | 247.0  | 308.2  | 328.9  |
| 82.5° | 108.5  | 130.4  | 182.4  | 240.1  | 255.1  |
| 85°   | 55.4   | 76.2   | 112.0  | 142.0  | 144.3  |
| 87.5° | 17.3   | 24.2   | 36.9   | 55.4   | 56.6   |
| 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 | 17.49            | 19.15 | 17.85 | 19.47 | 19.78 | 18.32          | 19.98 | 18.68 | 20.30 | 20.61 |
|                 | 3H   | 19.24            | 20.75 | 19.62 | 21.08 | 21.44 | 20.44          | 21.94 | 20.81 | 22.27 | 22.63 |
|                 | 4H   | 19.86            | 21.29 | 20.26 | 21.63 | 22.01 | 21.32          | 22.75 | 21.72 | 23.09 | 23.47 |
|                 | 6H   | 20.27            | 21.60 | 20.68 | 21.96 | 22.35 | 22.11          | 23.43 | 22.52 | 23.79 | 24.18 |
|                 | 8H   | 20.38            | 21.64 | 20.81 | 22.03 | 22.43 | 22.43          | 23.69 | 22.85 | 24.08 | 24.47 |
|                 | 12H  | 20.43            | 21.64 | 20.86 | 22.03 | 22.45 | 22.64          | 23.85 | 23.07 | 24.23 | 24.66 |
| 4H              | 2H   | 18.26            | 19.68 | 18.66 | 20.03 | 20.41 | 18.91          | 20.33 | 19.30 | 20.68 | 21.05 |
|                 | 3H   | 20.24            | 21.44 | 20.65 | 21.83 | 22.23 | 21.26          | 22.46 | 21.67 | 22.86 | 23.26 |
|                 | 4H   | 20.98            | 22.06 | 21.41 | 22.47 | 22.91 | 22.31          | 23.40 | 22.74 | 23.81 | 24.25 |
|                 | 6H   | 21.50            | 22.46 | 21.96 | 22.90 | 23.35 | 23.27          | 24.22 | 23.72 | 24.66 | 25.11 |
|                 | 8H   | 21.65            | 22.54 | 22.11 | 22.98 | 23.45 | 23.66          | 24.56 | 24.12 | 25.00 | 25.46 |
|                 | 12H  | 21.73            | 22.54 | 22.21 | 23.01 | 23.48 | 23.94          | 24.74 | 24.42 | 25.22 | 25.69 |
| 8H              | 4H   | 21.43            | 22.33 | 21.89 | 22.77 | 23.23 | 22.60          | 23.50 | 23.06 | 23.94 | 24.40 |
|                 | 6H   | 22.10            | 22.84 | 22.59 | 23.33 | 23.80 | 23.72          | 24.46 | 24.21 | 24.95 | 25.42 |
|                 | 8H   | 22.31            | 22.97 | 22.81 | 23.48 | 23.96 | 24.23          | 24.90 | 24.73 | 25.40 | 25.89 |
|                 | 12H  | 22.45            | 23.04 | 22.95 | 23.53 | 24.09 | 24.61          | 25.20 | 25.12 | 25.69 | 26.25 |
| 12H             | 4H   | 21.52            | 22.33 | 22.00 | 22.80 | 23.27 | 22.63          | 23.43 | 23.11 | 23.91 | 24.37 |
|                 | 6H   | 22.23            | 22.90 | 22.73 | 23.40 | 23.89 | 23.76          | 24.43 | 24.27 | 24.94 | 25.42 |
|                 | 8H   | 22.51            | 23.10 | 23.01 | 23.59 | 24.15 | 24.34          | 24.93 | 24.85 | 25.42 | 25.98 |