

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: P1586516

Luminaire Tested: 22CZSP-57HE-L840-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586516  
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-L840-S  
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5700 lumens, 80CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

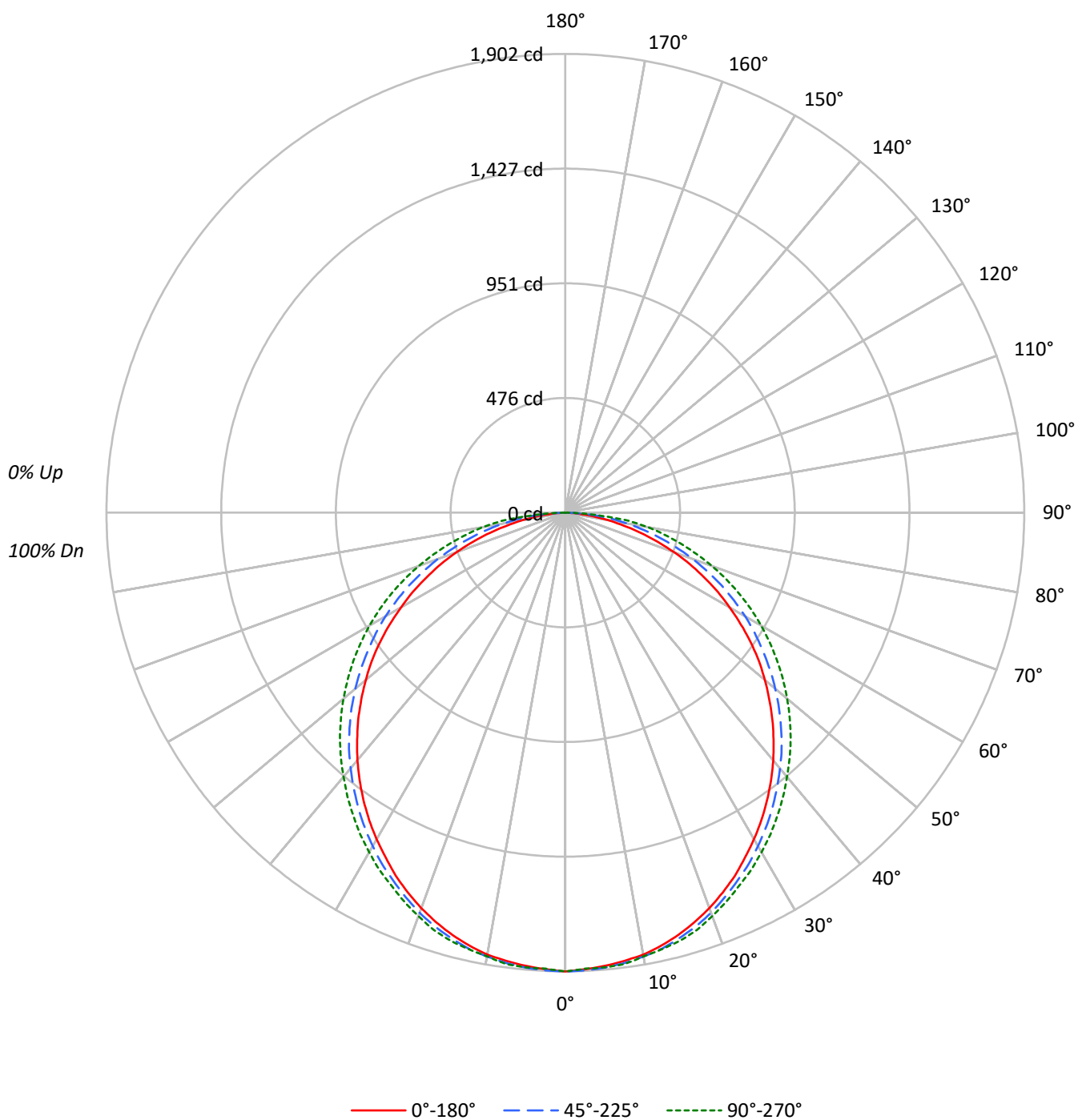
Lumens per Lamp: N/A  
Luminaire Lumens: 5554.0 lumens  
Efficiency: N/A  
Efficacy: 142.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

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°  | 5957 | 5957 | 5957 |
| 5°  | 5930 | 5953 | 5949 |
| 10° | 5917 | 5944 | 5941 |
| 15° | 5875 | 5922 | 5958 |
| 20° | 5816 | 5884 | 5933 |
| 25° | 5743 | 5823 | 5895 |
| 30° | 5654 | 5773 | 5878 |
| 35° | 5572 | 5716 | 5860 |
| 40° | 5480 | 5659 | 5843 |
| 45° | 5375 | 5602 | 5850 |
| 50° | 5260 | 5533 | 5848 |
| 55° | 5123 | 5455 | 5855 |
| 60° | 4931 | 5396 | 5869 |
| 65° | 4704 | 5292 | 5887 |
| 70° | 4385 | 5143 | 5913 |
| 75° | 3908 | 4940 | 5972 |
| 80° | 3230 | 4703 | 6263 |
| 85° | 2102 | 4247 | 5472 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6461 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 179.9  | 3.2       |
| 10°-20°   | 515.2  | 9.3       |
| 20°-30°   | 777.0  | 14.0      |
| 30°-40°   | 935.8  | 16.8      |
| 40°-50°   | 977.3  | 17.6      |
| 50°-60°   | 897.6  | 16.2      |
| 60°-70°   | 707.0  | 12.7      |
| 70°-80°   | 433.7  | 7.8       |
| 80°-90°   | 130.5  | 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°    | 1472.1 | 26.5      |
| 0°-40°    | 2407.9 | 43.4      |
| 0°-60°    | 4282.8 | 77.1      |
| 0°-90°    | 5554.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5554.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1902 | 1902  | 1902 | 1902  | 1902 |      |
| 5°  | 1887 | 1889  | 1894 | 1900  | 1893 | 179  |
| 15° | 1812 | 1816  | 1827 | 1838  | 1838 | 511  |
| 25° | 1662 | 1666  | 1686 | 1706  | 1706 | 765  |
| 35° | 1458 | 1465  | 1495 | 1526  | 1533 | 912  |
| 45° | 1214 | 1227  | 1265 | 1309  | 1321 | 936  |
| 55° | 938  | 956   | 999  | 1055  | 1072 | 838  |
| 65° | 635  | 657   | 714  | 774   | 795  | 628  |
| 75° | 323  | 348   | 408  | 473   | 494  | 342  |
| 85° | 58   | 80    | 118  | 150   | 152  | 76   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1902.4 | 1902.4 | 1902.4 | 1902.4 | 1902.4 |
| 2.5°  | 1895.1 | 1898.7 | 1900.0 | 1901.2 | 1892.6 |
| 5°    | 1886.6 | 1889.0 | 1893.9 | 1900.0 | 1892.6 |
| 7.5°  | 1874.4 | 1876.8 | 1882.9 | 1891.4 | 1887.8 |
| 10°   | 1861.0 | 1862.2 | 1869.5 | 1875.6 | 1868.3 |
| 12.5° | 1839.0 | 1842.7 | 1851.2 | 1856.1 | 1853.6 |
| 15°   | 1812.2 | 1815.9 | 1826.8 | 1837.8 | 1837.8 |
| 17.5° | 1780.5 | 1785.4 | 1798.8 | 1813.4 | 1814.6 |
| 20°   | 1745.2 | 1748.8 | 1765.9 | 1780.5 | 1780.5 |
| 22.5° | 1705.0 | 1709.8 | 1726.9 | 1742.7 | 1745.2 |
| 25°   | 1662.3 | 1666.0 | 1685.5 | 1706.2 | 1706.2 |
| 27.5° | 1612.3 | 1619.7 | 1644.0 | 1664.7 | 1669.6 |
| 30°   | 1563.6 | 1569.7 | 1596.5 | 1622.1 | 1625.7 |
| 32.5° | 1512.4 | 1519.7 | 1547.8 | 1575.8 | 1581.9 |
| 35°   | 1457.6 | 1464.9 | 1495.3 | 1525.8 | 1533.1 |
| 37.5° | 1400.3 | 1408.8 | 1440.5 | 1475.8 | 1483.2 |
| 40°   | 1340.6 | 1350.3 | 1384.4 | 1422.2 | 1429.5 |
| 42.5° | 1277.2 | 1290.6 | 1327.2 | 1366.2 | 1377.1 |
| 45°   | 1213.8 | 1227.2 | 1265.0 | 1308.9 | 1321.1 |
| 47.5° | 1146.8 | 1162.6 | 1201.6 | 1248.0 | 1261.4 |
| 50°   | 1079.8 | 1095.6 | 1135.8 | 1185.8 | 1200.4 |
| 52.5° | 1011.5 | 1027.4 | 1068.8 | 1121.2 | 1137.0 |
| 55°   | 938.4  | 955.5  | 999.3  | 1055.4 | 1072.5 |
| 57.5° | 862.8  | 884.8  | 931.1  | 988.4  | 1005.4 |
| 60°   | 787.3  | 809.2  | 861.6  | 917.7  | 937.2  |
| 62.5° | 712.9  | 733.7  | 787.3  | 847.0  | 867.7  |
| 65°   | 634.9  | 656.9  | 714.2  | 773.9  | 794.6  |
| 67.5° | 558.2  | 580.1  | 637.4  | 699.5  | 721.5  |
| 70°   | 478.9  | 503.3  | 561.8  | 624.0  | 645.9  |
| 72.5° | 399.7  | 425.3  | 485.0  | 548.4  | 569.1  |
| 75°   | 323.0  | 348.5  | 408.3  | 472.9  | 493.6  |
| 77.5° | 247.4  | 275.4  | 333.9  | 399.7  | 419.2  |
| 80°   | 179.1  | 206.0  | 260.8  | 325.4  | 347.3  |
| 82.5° | 114.6  | 137.7  | 192.6  | 253.5  | 269.3  |
| 85°   | 58.5   | 80.4   | 118.2  | 149.9  | 152.3  |
| 87.5° | 18.3   | 25.6   | 39.0   | 58.5   | 59.7   |
| 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 | 17.68            | 19.34 | 18.04 | 19.65 | 19.97 | 18.51          | 20.17 | 18.87 | 20.49 | 20.80 |
|                 | 3H   | 19.43            | 20.94 | 19.81 | 21.27 | 21.63 | 20.63          | 22.13 | 21.00 | 22.46 | 22.82 |
|                 | 4H   | 20.05            | 21.47 | 20.45 | 21.82 | 22.20 | 21.51          | 22.94 | 21.91 | 23.28 | 23.66 |
|                 | 6H   | 20.46            | 21.78 | 20.87 | 22.15 | 22.54 | 22.30          | 23.62 | 22.71 | 23.98 | 24.37 |
|                 | 8H   | 20.57            | 21.83 | 20.99 | 22.22 | 22.62 | 22.61          | 23.88 | 23.04 | 24.27 | 24.66 |
|                 | 12H  | 20.62            | 21.83 | 21.05 | 22.21 | 22.64 | 22.83          | 24.04 | 23.26 | 24.42 | 24.85 |
| 4H              | 2H   | 18.45            | 19.87 | 18.85 | 20.22 | 20.59 | 19.10          | 20.52 | 19.49 | 20.87 | 21.24 |
|                 | 3H   | 20.43            | 21.63 | 20.84 | 22.02 | 22.42 | 21.45          | 22.65 | 21.86 | 23.05 | 23.45 |
|                 | 4H   | 21.16            | 22.25 | 21.59 | 22.66 | 23.10 | 22.50          | 23.59 | 22.93 | 24.00 | 24.44 |
|                 | 6H   | 21.69            | 22.64 | 22.15 | 23.08 | 23.54 | 23.46          | 24.41 | 23.91 | 24.85 | 25.30 |
|                 | 8H   | 21.84            | 22.73 | 22.30 | 23.17 | 23.64 | 23.85          | 24.75 | 24.31 | 25.19 | 25.65 |
|                 | 12H  | 21.92            | 22.73 | 22.40 | 23.20 | 23.67 | 24.13          | 24.93 | 24.61 | 25.41 | 25.88 |
| 8H              | 4H   | 21.62            | 22.52 | 22.08 | 22.96 | 23.42 | 22.79          | 23.68 | 23.25 | 24.13 | 24.59 |
|                 | 6H   | 22.28            | 23.03 | 22.78 | 23.51 | 23.99 | 23.90          | 24.65 | 24.40 | 25.14 | 25.61 |
|                 | 8H   | 22.50            | 23.16 | 23.00 | 23.67 | 24.15 | 24.42          | 25.08 | 24.92 | 25.59 | 26.07 |
|                 | 12H  | 22.63            | 23.23 | 23.14 | 23.72 | 24.27 | 24.80          | 25.39 | 25.31 | 25.88 | 26.44 |
| 12H             | 4H   | 21.71            | 22.52 | 22.19 | 22.99 | 23.46 | 22.82          | 23.62 | 23.30 | 24.09 | 24.56 |
|                 | 6H   | 22.42            | 23.09 | 22.92 | 23.59 | 24.08 | 23.95          | 24.62 | 24.46 | 25.13 | 25.61 |
|                 | 8H   | 22.69            | 23.29 | 23.20 | 23.78 | 24.33 | 24.53          | 25.12 | 25.03 | 25.61 | 26.17 |