

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: P1584441

Luminaire Tested: 14CZSP-65-L850

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-65-L850  
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 6200 lumens, 80CRI, Ribbed Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

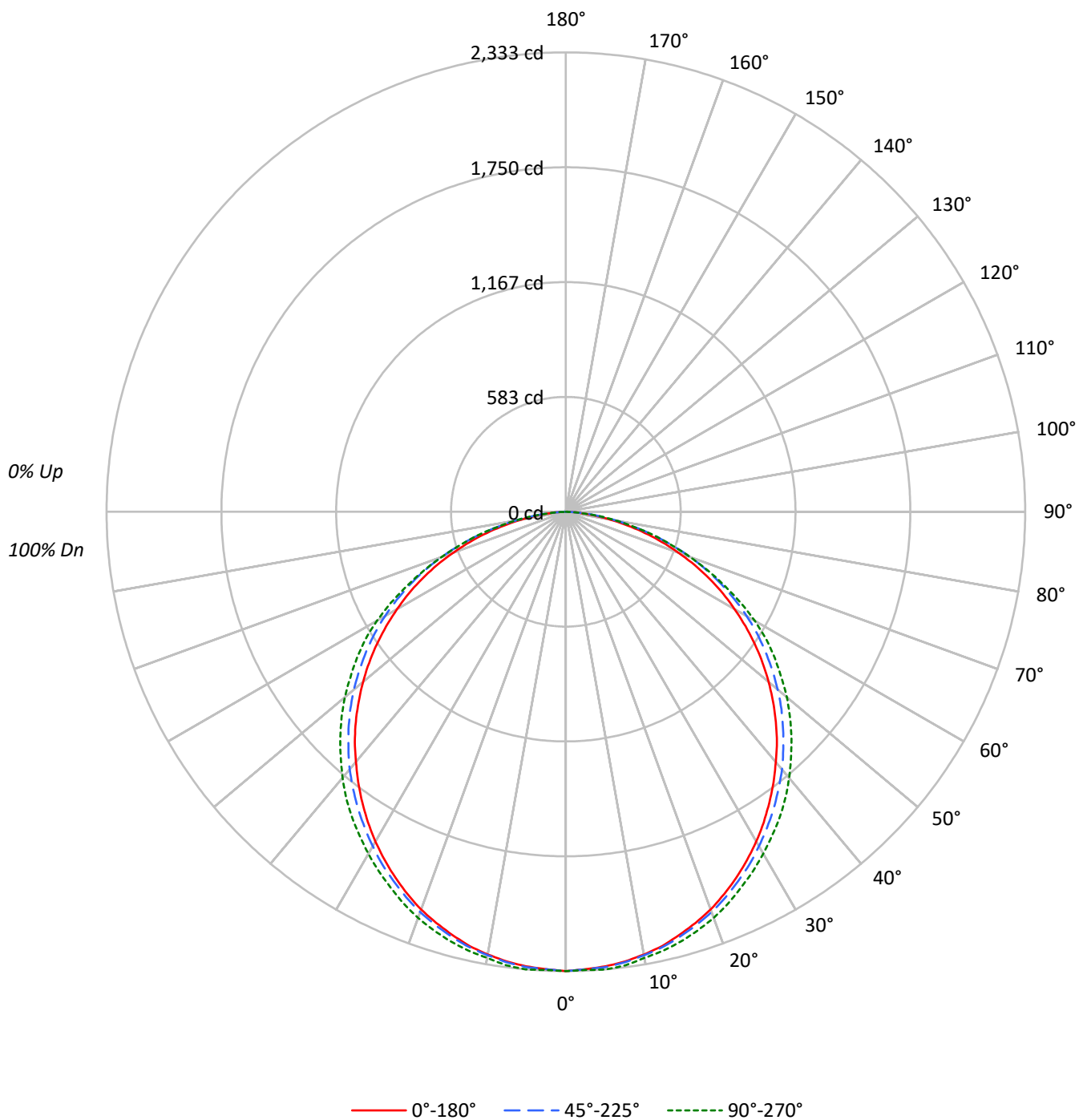
Lumens per Lamp: N/A  
Luminaire Lumens: 6732.0 lumens  
Efficiency: N/A  
Efficacy: 138.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 48.8  
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   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 93  | 91  | 88  |  | 90  | 88  | 86  | 84  |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  | 75  | 72  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  | 65  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 58  | 53  |  | 62  | 56  | 52  | 50  |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  |  | 57  | 51  | 45  |  | 55  | 50  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  | 44  | 39  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 35  |  | 47  | 40  | 35  |  | 46  | 40  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 42  | 36  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  |  | 40  | 33  | 28  |  | 39  | 33  | 28  | 26  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  | 30  | 26  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7862 | 7862 | 7862 |
| 5°  | 7837 | 7851 | 7892 |
| 10° | 7812 | 7826 | 7874 |
| 15° | 7763 | 7798 | 7881 |
| 20° | 7708 | 7758 | 7872 |
| 25° | 7621 | 7695 | 7828 |
| 30° | 7525 | 7633 | 7804 |
| 35° | 7413 | 7569 | 7791 |
| 40° | 7295 | 7515 | 7761 |
| 45° | 7190 | 7437 | 7723 |
| 50° | 7052 | 7365 | 7679 |
| 55° | 6882 | 7269 | 7609 |
| 60° | 6671 | 7156 | 7465 |
| 65° | 6413 | 6954 | 7097 |
| 70° | 6017 | 6607 | 6607 |
| 75° | 5404 | 6002 | 6028 |
| 80° | 4453 | 5074 | 5074 |
| 85° | 3085 | 3704 | 3240 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7723 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 221.0  | 3.3       |
| 10°-20°   | 632.9  | 9.4       |
| 20°-30°   | 957.9  | 14.2      |
| 30°-40°   | 1156.5 | 17.2      |
| 40°-50°   | 1208.2 | 17.9      |
| 50°-60°   | 1106.8 | 16.4      |
| 60°-70°   | 853.3  | 12.7      |
| 70°-80°   | 481.4  | 7.2       |
| 80°-90°   | 113.9  | 1.7       |
| 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°    | 1811.9 | 26.9      |
| 0°-40°    | 2968.3 | 44.1      |
| 0°-60°    | 5283.3 | 78.5      |
| 0°-90°    | 6732.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6732.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2333 | 2333  | 2333 | 2333  | 2333 |      |
| 5°  | 2317 | 2333  | 2321 | 2325  | 2333 | 220  |
| 15° | 2225 | 2239  | 2235 | 2253  | 2259 | 628  |
| 25° | 2050 | 2068  | 2070 | 2098  | 2106 | 944  |
| 35° | 1802 | 1826  | 1840 | 1880  | 1894 | 1128 |
| 45° | 1509 | 1535  | 1561 | 1607  | 1621 | 1163 |
| 55° | 1172 | 1202  | 1237 | 1283  | 1295 | 1047 |
| 65° | 804  | 830   | 872  | 902   | 890  | 795  |
| 75° | 415  | 447   | 461  | 473   | 463  | 440  |
| 85° | 80   | 90    | 96   | 102   | 84   | 101  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2333.1 | 2333.1 | 2333.1 | 2333.1 | 2333.1 |
| 2.5°  | 2325.1 | 2341.1 | 2325.1 | 2333.1 | 2329.1 |
| 5°    | 2317.1 | 2333.1 | 2321.1 | 2325.1 | 2333.1 |
| 7.5°  | 2303.2 | 2319.1 | 2307.1 | 2313.1 | 2323.1 |
| 10°   | 2283.2 | 2299.2 | 2287.2 | 2297.2 | 2301.2 |
| 12.5° | 2259.2 | 2273.2 | 2265.2 | 2277.2 | 2283.2 |
| 15°   | 2225.3 | 2239.3 | 2235.3 | 2253.3 | 2259.2 |
| 17.5° | 2189.4 | 2205.4 | 2201.4 | 2223.3 | 2229.3 |
| 20°   | 2149.5 | 2163.5 | 2163.5 | 2183.4 | 2195.4 |
| 22.5° | 2101.6 | 2117.5 | 2119.5 | 2141.5 | 2153.5 |
| 25°   | 2049.7 | 2067.7 | 2069.6 | 2097.6 | 2105.6 |
| 27.5° | 1993.8 | 2011.8 | 2019.8 | 2049.7 | 2057.7 |
| 30°   | 1933.9 | 1951.9 | 1961.9 | 1995.8 | 2005.8 |
| 32.5° | 1870.1 | 1892.0 | 1902.0 | 1939.9 | 1949.9 |
| 35°   | 1802.2 | 1826.2 | 1840.1 | 1880.0 | 1894.0 |
| 37.5° | 1732.4 | 1756.3 | 1774.3 | 1816.2 | 1832.1 |
| 40°   | 1658.5 | 1684.5 | 1708.4 | 1750.3 | 1764.3 |
| 42.5° | 1586.7 | 1612.6 | 1634.6 | 1678.5 | 1692.4 |
| 45°   | 1508.8 | 1534.8 | 1560.7 | 1606.6 | 1620.6 |
| 47.5° | 1427.0 | 1454.9 | 1484.9 | 1526.8 | 1544.8 |
| 50°   | 1345.2 | 1373.1 | 1405.0 | 1449.0 | 1464.9 |
| 52.5° | 1259.4 | 1289.3 | 1321.2 | 1367.1 | 1379.1 |
| 55°   | 1171.5 | 1201.5 | 1237.4 | 1283.3 | 1295.3 |
| 57.5° | 1081.7 | 1113.7 | 1151.6 | 1195.5 | 1207.5 |
| 60°   | 989.9  | 1021.9 | 1061.8 | 1103.7 | 1107.7 |
| 62.5° | 900.1  | 928.0  | 968.0  | 1007.9 | 1001.9 |
| 65°   | 804.3  | 830.3  | 872.2  | 902.1  | 890.1  |
| 67.5° | 708.5  | 736.5  | 774.4  | 796.3  | 780.4  |
| 70°   | 610.7  | 640.7  | 670.6  | 686.6  | 670.6  |
| 72.5° | 512.9  | 544.9  | 566.8  | 576.8  | 562.8  |
| 75°   | 415.1  | 447.1  | 461.0  | 473.0  | 463.0  |
| 77.5° | 321.3  | 351.3  | 357.2  | 371.2  | 357.2  |
| 80°   | 229.5  | 257.5  | 261.5  | 275.4  | 261.5  |
| 82.5° | 147.7  | 165.7  | 173.6  | 185.6  | 171.6  |
| 85°   | 79.8   | 89.8   | 95.8   | 101.8  | 83.8   |
| 87.5° | 27.9   | 31.9   | 27.9   | 23.9   | 10.0   |
| 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 | 18.88            | 20.53 | 19.24 | 20.84 | 21.15 | 19.42          | 21.07 | 19.79 | 21.38 | 21.70 |
|                 | 3H   | 20.66            | 22.16 | 21.04 | 22.48 | 22.84 | 21.23          | 22.72 | 21.60 | 23.05 | 23.41 |
|                 | 4H   | 21.30            | 22.71 | 21.70 | 23.06 | 23.43 | 21.87          | 23.28 | 22.27 | 23.63 | 24.00 |
|                 | 6H   | 21.73            | 23.03 | 22.14 | 23.40 | 23.79 | 22.31          | 23.62 | 22.72 | 23.98 | 24.37 |
|                 | 8H   | 21.84            | 23.08 | 22.26 | 23.47 | 23.87 | 22.43          | 23.68 | 22.86 | 24.07 | 24.47 |
|                 | 12H  | 21.89            | 23.09 | 22.32 | 23.47 | 23.90 | 22.49          | 23.69 | 22.92 | 24.07 | 24.50 |
| 4H              | 2H   | 19.60            | 21.01 | 20.00 | 21.36 | 21.73 | 20.03          | 21.44 | 20.43 | 21.78 | 22.16 |
|                 | 3H   | 21.61            | 22.79 | 22.02 | 23.19 | 23.59 | 22.06          | 23.25 | 22.47 | 23.64 | 24.04 |
|                 | 4H   | 22.38            | 23.45 | 22.81 | 23.86 | 24.29 | 22.84          | 23.91 | 23.28 | 24.33 | 24.76 |
|                 | 6H   | 22.92            | 23.86 | 23.38 | 24.30 | 24.75 | 23.41          | 24.35 | 23.87 | 24.79 | 25.24 |
|                 | 8H   | 23.07            | 23.94 | 23.53 | 24.38 | 24.85 | 23.58          | 24.45 | 24.04 | 24.89 | 25.36 |
|                 | 12H  | 23.15            | 23.94 | 23.63 | 24.41 | 24.88 | 23.67          | 24.45 | 24.15 | 24.93 | 25.40 |
| 8H              | 4H   | 22.72            | 23.59 | 23.18 | 24.04 | 24.50 | 23.13          | 24.01 | 23.59 | 24.45 | 24.91 |
|                 | 6H   | 23.38            | 24.11 | 23.87 | 24.59 | 25.07 | 23.82          | 24.54 | 24.31 | 25.03 | 25.50 |
|                 | 8H   | 23.59            | 24.24 | 24.09 | 24.74 | 25.23 | 24.05          | 24.70 | 24.56 | 25.20 | 25.69 |
|                 | 12H  | 23.72            | 24.30 | 24.23 | 24.79 | 25.35 | 24.20          | 24.77 | 24.70 | 25.26 | 25.82 |
| 12H             | 4H   | 22.76            | 23.54 | 23.24 | 24.02 | 24.49 | 23.16          | 23.94 | 23.64 | 24.42 | 24.89 |
|                 | 6H   | 23.44            | 24.09 | 23.94 | 24.59 | 25.08 | 23.86          | 24.51 | 24.36 | 25.01 | 25.50 |
|                 | 8H   | 23.69            | 24.27 | 24.20 | 24.76 | 25.32 | 24.14          | 24.71 | 24.65 | 25.20 | 25.76 |