

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: P1584464

Luminaire Tested: 14CZSP-70-L935-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-70-L935-S  
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 6700 lumens, 90CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

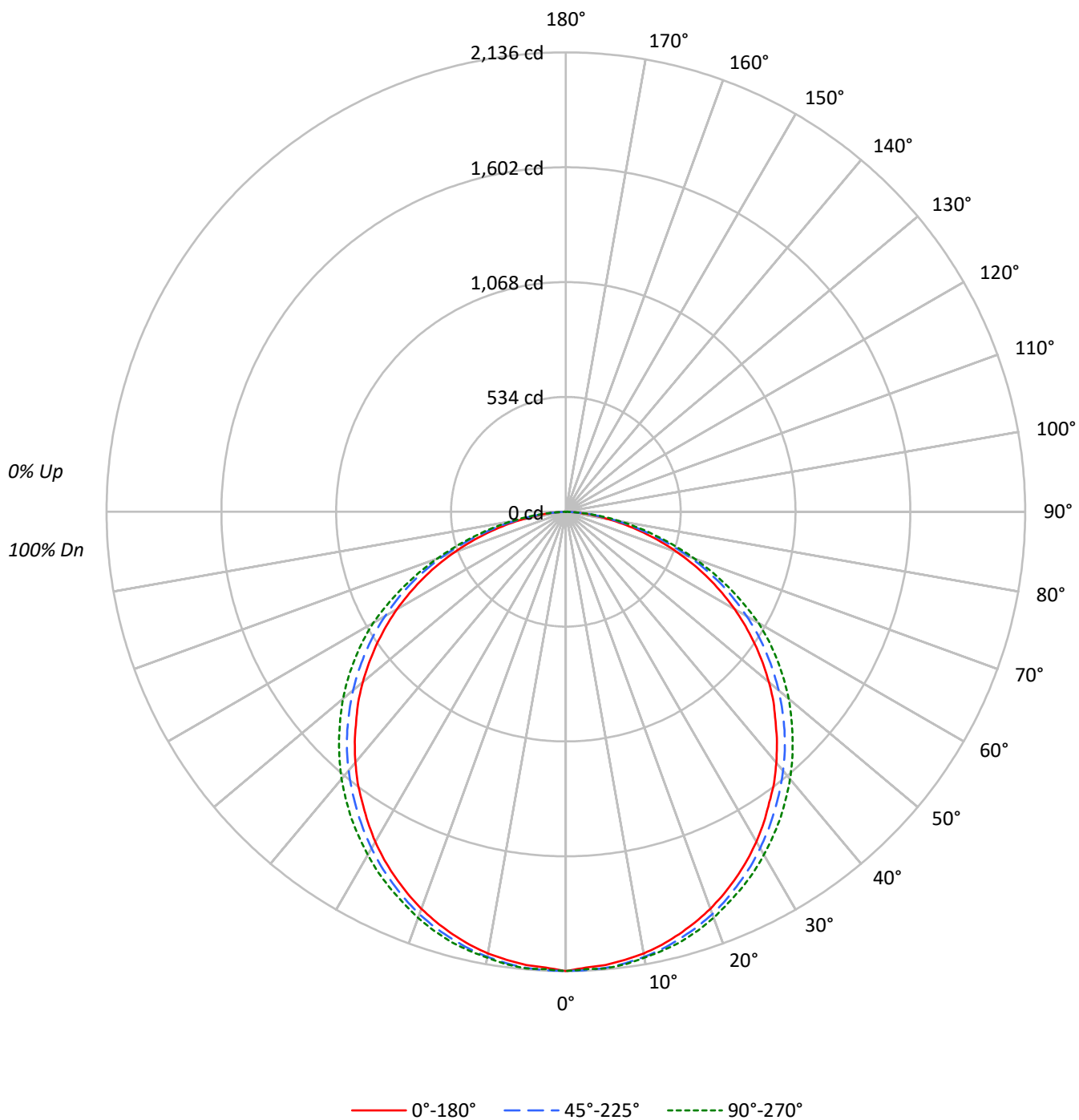
Lumens per Lamp: N/A  
Luminaire Lumens: 6174.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 53.4  
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: P1584464

CATALOG NUMBER: 14CZSP-70-L935-S

### Luminous Intensity Polar Plot



TEST NUMBER: P1584464

CATALOG NUMBER: 14CZSP-70-L935-S

**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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 93  | 91  | 88  |  | 90  |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 58  | 52  |  | 62  |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  |  | 57  | 51  | 45  |  | 55  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 35  |  | 47  | 40  | 35  |  | 46  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 28  |  | 40  | 33  | 28  |  | 39  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7196 | 7196 | 7196 |
| 5°  | 7156 | 7202 | 7208 |
| 10° | 7136 | 7189 | 7204 |
| 15° | 7095 | 7168 | 7219 |
| 20° | 7045 | 7140 | 7205 |
| 25° | 6974 | 7085 | 7183 |
| 30° | 6895 | 7029 | 7167 |
| 35° | 6785 | 6968 | 7155 |
| 40° | 6696 | 6912 | 7135 |
| 45° | 6569 | 6851 | 7106 |
| 50° | 6460 | 6770 | 7093 |
| 55° | 6305 | 6674 | 7047 |
| 60° | 6112 | 6541 | 6976 |
| 65° | 5840 | 6362 | 6688 |
| 70° | 5443 | 6008 | 6276 |
| 75° | 4863 | 5419 | 5726 |
| 80° | 3986 | 4568 | 5008 |
| 85° | 2672 | 3336 | 3723 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7106 cd/sqm

TEST NUMBER: P1584464

CATALOG NUMBER: 14CZSP-70-L935-S

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 202.3  | 3.3       |
| 10°-20°   | 579.8  | 9.4       |
| 20°-30°   | 878.0  | 14.2      |
| 30°-40°   | 1060.3 | 17.2      |
| 40°-50°   | 1108.1 | 17.9      |
| 50°-60°   | 1015.4 | 16.4      |
| 60°-70°   | 783.8  | 12.7      |
| 70°-80°   | 440.9  | 7.1       |
| 80°-90°   | 105.5  | 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°    | 1660.1 | 26.9      |
| 0°-40°    | 2720.4 | 44.1      |
| 0°-60°    | 4843.8 | 78.5      |
| 0°-90°    | 6174.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6174.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2136 | 2136  | 2136 | 2136  | 2136 |      |
| 5°  | 2116 | 2131  | 2129 | 2131  | 2131 | 201  |
| 15° | 2034 | 2050  | 2055 | 2063  | 2069 | 574  |
| 25° | 1876 | 1892  | 1906 | 1916  | 1932 | 864  |
| 35° | 1649 | 1670  | 1694 | 1717  | 1739 | 1033 |
| 45° | 1379 | 1406  | 1438 | 1467  | 1491 | 1065 |
| 55° | 1073 | 1101  | 1136 | 1171  | 1200 | 959  |
| 65° | 732  | 764   | 798  | 830   | 839  | 724  |
| 75° | 374  | 408   | 416  | 434   | 440  | 396  |
| 85° | 69   | 79    | 86   | 94    | 96   | 89   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1584464

CATALOG NUMBER: 14CZSP-70-L935-S

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2135.6 | 2135.6 | 2135.6 | 2135.6 | 2135.6 |
| 2.5°  | 2121.1 | 2137.4 | 2133.8 | 2139.2 | 2129.2 |
| 5°    | 2115.6 | 2131.0 | 2129.2 | 2131.0 | 2131.0 |
| 7.5°  | 2102.0 | 2118.3 | 2117.4 | 2120.1 | 2122.0 |
| 10°   | 2085.6 | 2101.1 | 2101.1 | 2103.8 | 2105.6 |
| 12.5° | 2062.9 | 2079.2 | 2081.1 | 2085.6 | 2089.2 |
| 15°   | 2033.8 | 2050.2 | 2054.7 | 2062.9 | 2069.3 |
| 17.5° | 2001.1 | 2018.4 | 2025.6 | 2033.8 | 2042.0 |
| 20°   | 1964.7 | 1980.2 | 1991.1 | 1997.5 | 2009.3 |
| 22.5° | 1922.0 | 1939.3 | 1951.1 | 1957.5 | 1970.2 |
| 25°   | 1875.7 | 1892.0 | 1905.7 | 1915.7 | 1932.0 |
| 27.5° | 1826.6 | 1843.0 | 1859.3 | 1871.1 | 1890.2 |
| 30°   | 1772.1 | 1789.4 | 1806.6 | 1824.8 | 1842.1 |
| 32.5° | 1713.0 | 1733.0 | 1752.1 | 1772.1 | 1791.2 |
| 35°   | 1649.4 | 1670.3 | 1693.9 | 1716.7 | 1739.4 |
| 37.5° | 1590.3 | 1609.4 | 1634.0 | 1658.5 | 1681.2 |
| 40°   | 1522.2 | 1543.1 | 1571.3 | 1598.5 | 1622.1 |
| 42.5° | 1453.1 | 1475.8 | 1506.7 | 1533.1 | 1558.5 |
| 45°   | 1378.6 | 1405.9 | 1437.7 | 1466.7 | 1491.3 |
| 47.5° | 1309.5 | 1333.2 | 1365.0 | 1396.8 | 1422.2 |
| 50°   | 1232.3 | 1258.6 | 1291.4 | 1325.0 | 1353.1 |
| 52.5° | 1154.1 | 1181.4 | 1215.0 | 1248.6 | 1277.7 |
| 55°   | 1073.2 | 1101.4 | 1136.0 | 1171.4 | 1199.6 |
| 57.5° | 990.6  | 1020.5 | 1056.0 | 1091.4 | 1119.6 |
| 60°   | 906.9  | 936.9  | 970.6  | 1009.6 | 1035.1 |
| 62.5° | 819.7  | 853.3  | 885.1  | 921.5  | 936.9  |
| 65°   | 732.5  | 764.3  | 797.9  | 829.7  | 838.8  |
| 67.5° | 643.4  | 676.1  | 706.1  | 727.0  | 738.8  |
| 70°   | 552.5  | 588.0  | 609.8  | 629.8  | 637.0  |
| 72.5° | 462.6  | 498.0  | 510.7  | 529.8  | 537.1  |
| 75°   | 373.5  | 408.0  | 416.2  | 433.5  | 439.8  |
| 77.5° | 287.2  | 319.0  | 321.7  | 341.7  | 347.1  |
| 80°   | 205.4  | 230.8  | 235.4  | 254.5  | 258.1  |
| 82.5° | 131.8  | 149.9  | 156.3  | 172.7  | 178.1  |
| 85°   | 69.1   | 79.1   | 86.3   | 94.5   | 96.3   |
| 87.5° | 22.7   | 28.2   | 23.6   | 24.5   | 22.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1584464

CATALOG NUMBER: 14CZSP-70-L935-S

**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 | 18.57            | 20.22 | 18.93 | 20.53 | 20.85 | 19.11          | 20.76 | 19.47 | 21.07 | 21.39 |
|                 | 3H   | 20.34            | 21.84 | 20.72 | 22.16 | 22.52 | 20.97          | 22.46 | 21.34 | 22.79 | 23.14 |
|                 | 4H   | 20.97            | 22.38 | 21.37 | 22.73 | 23.10 | 21.63          | 23.04 | 22.03 | 23.39 | 23.76 |
|                 | 6H   | 21.38            | 22.68 | 21.79 | 23.05 | 23.44 | 22.11          | 23.42 | 22.52 | 23.78 | 24.17 |
|                 | 8H   | 21.48            | 22.73 | 21.91 | 23.12 | 23.52 | 22.26          | 23.50 | 22.68 | 23.89 | 24.29 |
|                 | 12H  | 21.53            | 22.73 | 21.96 | 23.11 | 23.54 | 22.34          | 23.53 | 22.77 | 23.92 | 24.34 |
| 4H              | 2H   | 19.29            | 20.70 | 19.69 | 21.05 | 21.42 | 19.72          | 21.12 | 20.11 | 21.47 | 21.84 |
|                 | 3H   | 21.29            | 22.47 | 21.70 | 22.87 | 23.27 | 21.79          | 22.97 | 22.20 | 23.36 | 23.76 |
|                 | 4H   | 22.05            | 23.11 | 22.48 | 23.53 | 23.96 | 22.58          | 23.65 | 23.01 | 24.06 | 24.50 |
|                 | 6H   | 22.57            | 23.51 | 23.03 | 23.95 | 24.40 | 23.19          | 24.12 | 23.64 | 24.56 | 25.01 |
|                 | 8H   | 22.71            | 23.59 | 23.17 | 24.03 | 24.49 | 23.38          | 24.25 | 23.84 | 24.69 | 25.16 |
|                 | 12H  | 22.79            | 23.58 | 23.27 | 24.05 | 24.52 | 23.50          | 24.28 | 23.98 | 24.76 | 25.23 |
| 8H              | 4H   | 22.38            | 23.26 | 22.84 | 23.70 | 24.16 | 22.86          | 23.73 | 23.32 | 24.18 | 24.64 |
|                 | 6H   | 23.02            | 23.75 | 23.52 | 24.24 | 24.71 | 23.57          | 24.30 | 24.06 | 24.79 | 25.26 |
|                 | 8H   | 23.22            | 23.87 | 23.73 | 24.38 | 24.86 | 23.83          | 24.48 | 24.34 | 24.99 | 25.47 |
|                 | 12H  | 23.35            | 23.93 | 23.86 | 24.42 | 24.98 | 24.01          | 24.59 | 24.52 | 25.08 | 25.64 |
| 12H             | 4H   | 22.42            | 23.21 | 22.90 | 23.68 | 24.15 | 22.88          | 23.67 | 23.36 | 24.14 | 24.61 |
|                 | 6H   | 23.08            | 23.73 | 23.59 | 24.24 | 24.72 | 23.61          | 24.26 | 24.12 | 24.77 | 25.25 |
|                 | 8H   | 23.33            | 23.90 | 23.84 | 24.39 | 24.95 | 23.92          | 24.49 | 24.42 | 24.98 | 25.54 |