

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: P1584785

Luminaire Tested: 14CZSP-A-70VHE-L935

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-A-70VHE-L935  
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 7200 lumens, 90CRI, Ribbed Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

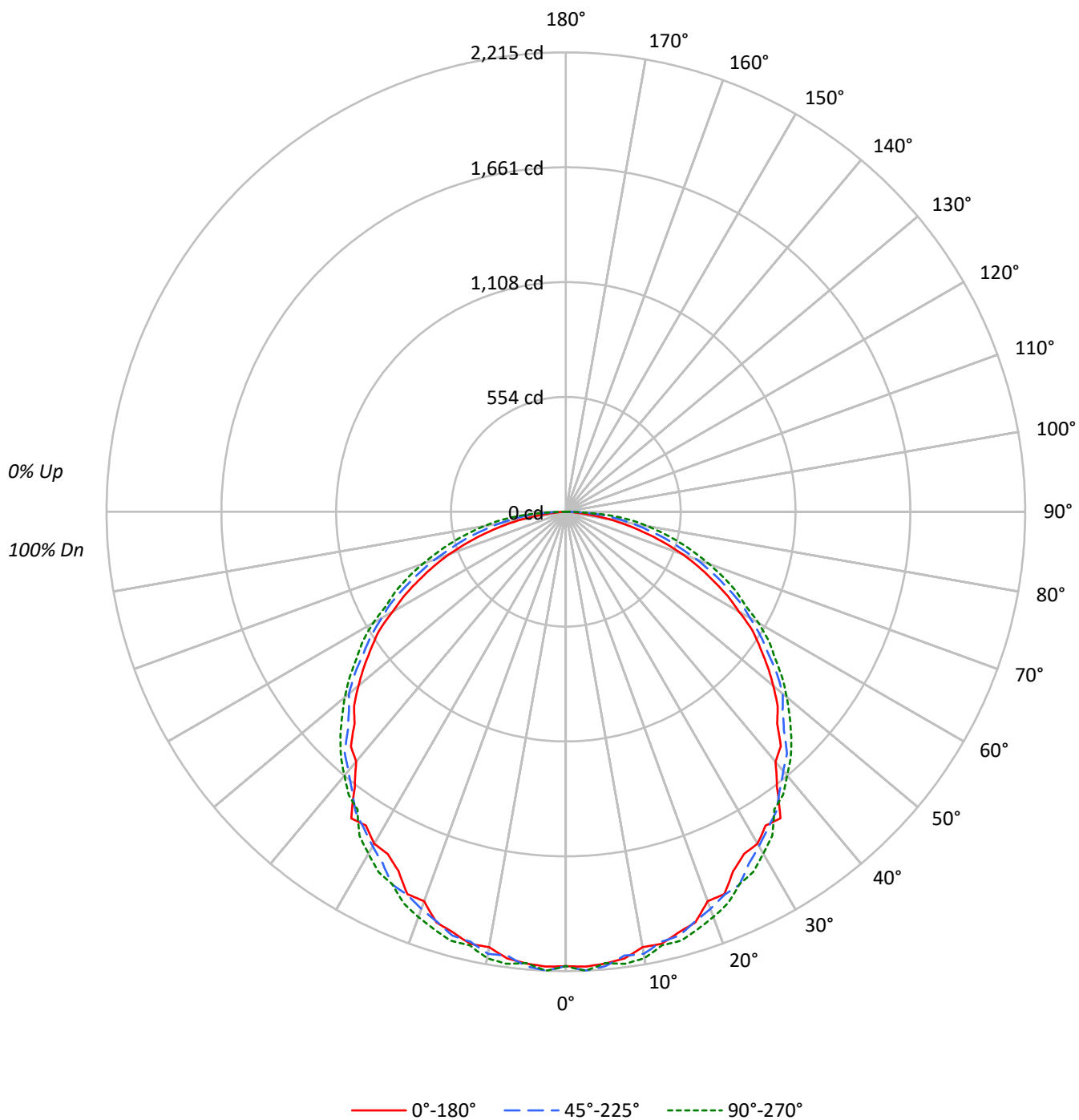
Lumens per Lamp: N/A  
Luminaire Lumens: 6568.0 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 51.9  
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  | 105 | 101 | 97  | 93  | 97  | 93  | 90  |  | 93  | 90  | 87  |  | 89  | 87  | 85  | 83  |
| 2   | 98  | 89  | 82  | 76  | 95  | 88  | 81  | 75  | 84  | 78  | 74  |  | 81  | 76  | 72  |  | 78  | 74  | 70  | 68  |
| 3   | 89  | 78  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 61  |  | 71  | 65  | 60  |  | 68  | 63  | 59  | 57  |
| 4   | 82  | 69  | 60  | 53  | 79  | 68  | 59  | 53  | 65  | 58  | 52  |  | 63  | 57  | 51  |  | 61  | 55  | 51  | 48  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 55  | 49  | 44  | 42  |
| 6   | 69  | 55  | 46  | 40  | 67  | 54  | 46  | 40  | 53  | 45  | 39  |  | 51  | 44  | 39  |  | 49  | 43  | 38  | 36  |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 35  |  | 46  | 39  | 34  |  | 45  | 39  | 34  | 32  |
| 8   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  |  | 42  | 36  | 31  |  | 41  | 35  | 30  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  |  | 39  | 32  | 28  |  | 38  | 32  | 27  | 26  |
| 10  | 52  | 39  | 31  | 25  | 51  | 38  | 30  | 25  | 37  | 30  | 25  |  | 36  | 30  | 25  |  | 35  | 29  | 25  | 23  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7383 | 7383 | 7383 |
| 5°  | 7396 | 7438 | 7389 |
| 10° | 7293 | 7405 | 7478 |
| 15° | 7325 | 7380 | 7471 |
| 20° | 7165 | 7307 | 7456 |
| 25° | 7102 | 7370 | 7366 |
| 30° | 7190 | 7247 | 7405 |
| 35° | 7421 | 7267 | 7207 |
| 40° | 6917 | 7176 | 7304 |
| 45° | 6864 | 7085 | 7327 |
| 50° | 6847 | 7154 | 7291 |
| 55° | 6725 | 6997 | 7235 |
| 60° | 6497 | 6916 | 7235 |
| 65° | 6247 | 6795 | 7219 |
| 70° | 5905 | 6607 | 7229 |
| 75° | 5218 | 6452 | 7364 |
| 80° | 4294 | 6287 | 7799 |
| 85° | 2401 | 6634 | 8687 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 8687 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 207.7  | 3.2       |
| 10°-20°   | 596.1  | 9.1       |
| 20°-30°   | 905.9  | 13.8      |
| 30°-40°   | 1101.7 | 16.8      |
| 40°-50°   | 1156.5 | 17.6      |
| 50°-60°   | 1069.6 | 16.3      |
| 60°-70°   | 842.6  | 12.8      |
| 70°-80°   | 517.9  | 7.9       |
| 80°-90°   | 170.1  | 2.6       |
| 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°    | 1709.7 | 26.0      |
| 0°-40°    | 2811.4 | 42.8      |
| 0°-60°    | 5037.4 | 76.7      |
| 0°-90°    | 6568.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6568.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2191 | 2191  | 2191 | 2191  | 2191 |      |
| 5°  | 2187 | 2148  | 2199 | 2180  | 2184 | 207  |
| 15° | 2100 | 2094  | 2116 | 2144  | 2142 | 592  |
| 25° | 1910 | 1945  | 1982 | 1977  | 1981 | 887  |
| 35° | 1804 | 1740  | 1767 | 1794  | 1752 | 1093 |
| 45° | 1440 | 1471  | 1487 | 1530  | 1538 | 1120 |
| 55° | 1145 | 1181  | 1191 | 1222  | 1232 | 1023 |
| 65° | 784  | 814   | 852  | 890   | 905  | 776  |
| 75° | 401  | 445   | 496  | 546   | 566  | 427  |
| 85° | 62   | 108   | 172  | 210   | 225  | 87   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2191.2 | 2191.2 | 2191.2 | 2191.2 | 2191.2 |
| 2.5°  | 2194.6 | 2198.0 | 2213.8 | 2178.8 | 2214.9 |
| 5°    | 2186.7 | 2148.3 | 2199.1 | 2179.9 | 2184.4 |
| 7.5°  | 2172.0 | 2176.5 | 2158.5 | 2169.7 | 2198.0 |
| 10°   | 2131.4 | 2159.6 | 2164.1 | 2168.6 | 2185.6 |
| 12.5° | 2133.6 | 2115.6 | 2123.5 | 2156.2 | 2141.5 |
| 15°   | 2099.8 | 2094.1 | 2115.6 | 2143.8 | 2141.5 |
| 17.5° | 2076.0 | 2063.6 | 2071.5 | 2085.1 | 2111.0 |
| 20°   | 1998.2 | 2030.9 | 2037.7 | 2079.4 | 2079.4 |
| 22.5° | 1995.9 | 1994.8 | 1999.3 | 2020.7 | 2043.3 |
| 25°   | 1910.1 | 1945.1 | 1982.4 | 1976.7 | 1981.2 |
| 27.5° | 1860.4 | 1899.9 | 1912.4 | 1950.7 | 1957.5 |
| 30°   | 1848.0 | 1854.8 | 1862.7 | 1904.5 | 1903.3 |
| 32.5° | 1793.8 | 1805.1 | 1810.8 | 1834.5 | 1852.5 |
| 35°   | 1804.0 | 1739.6 | 1766.7 | 1793.8 | 1752.1 |
| 37.5° | 1671.9 | 1682.1 | 1693.4 | 1713.7 | 1720.4 |
| 40°   | 1572.6 | 1598.5 | 1631.3 | 1655.0 | 1660.6 |
| 42.5° | 1534.2 | 1572.6 | 1578.2 | 1599.7 | 1605.3 |
| 45°   | 1440.5 | 1471.0 | 1486.8 | 1529.7 | 1537.6 |
| 47.5° | 1385.2 | 1389.7 | 1417.9 | 1458.5 | 1464.2 |
| 50°   | 1306.1 | 1336.6 | 1364.8 | 1382.9 | 1390.8 |
| 52.5° | 1226.0 | 1259.9 | 1282.4 | 1299.4 | 1315.2 |
| 55°   | 1144.7 | 1180.8 | 1191.0 | 1221.5 | 1231.6 |
| 57.5° | 1069.1 | 1080.4 | 1113.1 | 1142.4 | 1160.5 |
| 60°   | 964.1  | 1002.5 | 1026.2 | 1080.4 | 1073.6 |
| 62.5° | 879.4  | 905.4  | 949.4  | 976.5  | 973.1  |
| 65°   | 783.5  | 813.9  | 852.3  | 889.6  | 905.4  |
| 67.5° | 692.0  | 732.7  | 760.9  | 809.4  | 820.7  |
| 70°   | 599.4  | 618.6  | 670.6  | 718.0  | 733.8  |
| 72.5° | 500.1  | 530.6  | 575.7  | 627.7  | 646.9  |
| 75°   | 400.8  | 444.8  | 495.6  | 546.4  | 565.6  |
| 77.5° | 307.1  | 345.4  | 403.0  | 461.7  | 480.9  |
| 80°   | 221.3  | 256.3  | 324.0  | 378.2  | 401.9  |
| 82.5° | 129.8  | 177.2  | 243.8  | 303.7  | 321.7  |
| 85°   | 62.1   | 108.4  | 171.6  | 210.0  | 224.7  |
| 87.5° | 16.9   | 48.5   | 75.6   | 98.2   | 101.6  |
| 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 | 18.75            | 20.42 | 19.12 | 20.74 | 21.05 | 19.18          | 20.85 | 19.55 | 21.17 | 21.48 |
|                 | 3H   | 20.56            | 22.07 | 20.94 | 22.40 | 22.76 | 21.27          | 22.78 | 21.64 | 23.11 | 23.47 |
|                 | 4H   | 21.20            | 22.63 | 21.59 | 22.97 | 23.35 | 22.15          | 23.58 | 22.55 | 23.93 | 24.30 |
|                 | 6H   | 21.61            | 22.94 | 22.02 | 23.30 | 23.69 | 22.93          | 24.26 | 23.34 | 24.62 | 25.01 |
|                 | 8H   | 21.71            | 22.98 | 22.13 | 23.37 | 23.77 | 23.27          | 24.54 | 23.70 | 24.93 | 25.33 |
|                 | 12H  | 21.75            | 22.97 | 22.18 | 23.35 | 23.78 | 23.56          | 24.78 | 23.99 | 25.16 | 25.59 |
| 4H              | 2H   | 19.48            | 20.91 | 19.88 | 21.26 | 21.63 | 19.82          | 21.25 | 20.21 | 21.59 | 21.97 |
|                 | 3H   | 21.51            | 22.72 | 21.92 | 23.11 | 23.51 | 22.13          | 23.34 | 22.54 | 23.73 | 24.13 |
|                 | 4H   | 22.29            | 23.38 | 22.72 | 23.79 | 24.23 | 23.17          | 24.26 | 23.60 | 24.68 | 25.11 |
|                 | 6H   | 22.83            | 23.78 | 23.28 | 24.22 | 24.68 | 24.12          | 25.08 | 24.57 | 25.52 | 25.97 |
|                 | 8H   | 22.96            | 23.86 | 23.42 | 24.31 | 24.77 | 24.54          | 25.44 | 25.00 | 25.88 | 26.35 |
|                 | 12H  | 23.04            | 23.85 | 23.52 | 24.32 | 24.79 | 24.91          | 25.72 | 25.39 | 26.19 | 26.66 |
| 8H              | 4H   | 22.72            | 23.62 | 23.18 | 24.06 | 24.52 | 23.49          | 24.39 | 23.95 | 24.83 | 25.30 |
|                 | 6H   | 23.40            | 24.15 | 23.89 | 24.64 | 25.11 | 24.61          | 25.36 | 25.10 | 25.85 | 26.32 |
|                 | 8H   | 23.61            | 24.29 | 24.12 | 24.79 | 25.28 | 25.15          | 25.82 | 25.65 | 26.33 | 26.81 |
|                 | 12H  | 23.75            | 24.35 | 24.25 | 24.84 | 25.39 | 25.65          | 26.25 | 26.15 | 26.74 | 27.30 |
| 12H             | 4H   | 22.80            | 23.61 | 23.28 | 24.09 | 24.55 | 23.52          | 24.33 | 24.00 | 24.81 | 25.28 |
|                 | 6H   | 23.53            | 24.20 | 24.03 | 24.71 | 25.19 | 24.67          | 25.35 | 25.18 | 25.85 | 26.33 |
|                 | 8H   | 23.82            | 24.41 | 24.32 | 24.90 | 25.46 | 25.28          | 25.88 | 25.79 | 26.37 | 26.93 |