

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: P1584761

Luminaire Tested: 14CZSP-A-70-L850

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584761  
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-A-70-L850  
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 6700 lumens, 80CRI, Ribbed Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

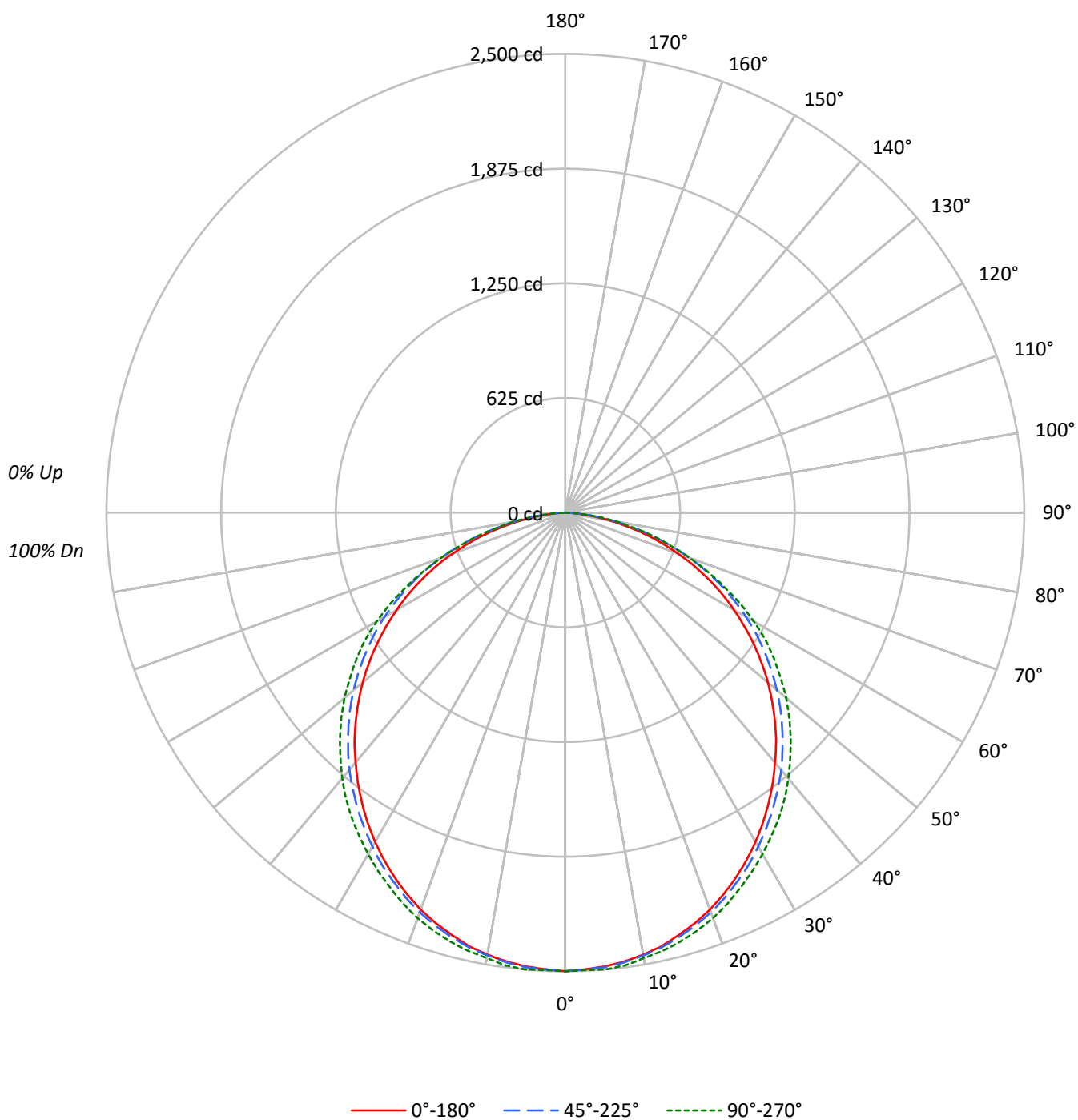
Lumens per Lamp: N/A  
Luminaire Lumens: 7213.0 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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

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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°  | 8423 | 8423 | 8423 |
| 5°  | 8398 | 8412 | 8455 |
| 10° | 8370 | 8385 | 8436 |
| 15° | 8317 | 8355 | 8444 |
| 20° | 8259 | 8312 | 8435 |
| 25° | 8165 | 8244 | 8388 |
| 30° | 8062 | 8179 | 8362 |
| 35° | 7943 | 8110 | 8348 |
| 40° | 7816 | 8052 | 8315 |
| 45° | 7704 | 7969 | 8274 |
| 50° | 7555 | 7892 | 8228 |
| 55° | 7374 | 7789 | 8153 |
| 60° | 7148 | 7666 | 7998 |
| 65° | 6871 | 7451 | 7604 |
| 70° | 6447 | 7079 | 7079 |
| 75° | 5791 | 6431 | 6459 |
| 80° | 4772 | 5435 | 5435 |
| 85° | 3306 | 3967 | 3472 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8274 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 236.8  | 3.3       |
| 10°-20°   | 678.2  | 9.4       |
| 20°-30°   | 1026.4 | 14.2      |
| 30°-40°   | 1239.1 | 17.2      |
| 40°-50°   | 1294.5 | 17.9      |
| 50°-60°   | 1185.9 | 16.4      |
| 60°-70°   | 914.3  | 12.7      |
| 70°-80°   | 515.8  | 7.2       |
| 80°-90°   | 122.1  | 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°    | 1941.3 | 26.9      |
| 0°-40°    | 3180.4 | 44.1      |
| 0°-60°    | 5660.8 | 78.5      |
| 0°-90°    | 7213.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7213.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2500 | 2500  | 2500 | 2500  | 2500 |      |
| 5°  | 2483 | 2500  | 2487 | 2491  | 2500 | 236  |
| 15° | 2384 | 2399  | 2395 | 2414  | 2421 | 673  |
| 25° | 2196 | 2215  | 2218 | 2248  | 2256 | 1012 |
| 35° | 1931 | 1957  | 1972 | 2014  | 2029 | 1208 |
| 45° | 1617 | 1644  | 1672 | 1721  | 1736 | 1246 |
| 55° | 1255 | 1287  | 1326 | 1375  | 1388 | 1121 |
| 65° | 862  | 890   | 934  | 967   | 954  | 852  |
| 75° | 445  | 479   | 494  | 507   | 496  | 472  |
| 85° | 86   | 96    | 103  | 109   | 90   | 108  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2499.8 | 2499.8 | 2499.8 | 2499.8 | 2499.8 |
| 2.5°  | 2491.2 | 2508.3 | 2491.2 | 2499.8 | 2495.5 |
| 5°    | 2482.7 | 2499.8 | 2487.0 | 2491.2 | 2499.8 |
| 7.5°  | 2467.7 | 2484.8 | 2472.0 | 2478.4 | 2489.1 |
| 10°   | 2446.3 | 2463.4 | 2450.6 | 2461.3 | 2465.6 |
| 12.5° | 2420.7 | 2435.6 | 2427.1 | 2439.9 | 2446.3 |
| 15°   | 2384.3 | 2399.3 | 2395.0 | 2414.3 | 2420.7 |
| 17.5° | 2345.8 | 2362.9 | 2358.7 | 2382.2 | 2388.6 |
| 20°   | 2303.1 | 2318.0 | 2318.0 | 2339.4 | 2352.2 |
| 22.5° | 2251.7 | 2268.8 | 2271.0 | 2294.5 | 2307.3 |
| 25°   | 2196.1 | 2215.4 | 2217.5 | 2247.5 | 2256.0 |
| 27.5° | 2136.3 | 2155.5 | 2164.1 | 2196.1 | 2204.7 |
| 30°   | 2072.1 | 2091.4 | 2102.1 | 2138.4 | 2149.1 |
| 32.5° | 2003.7 | 2027.2 | 2037.9 | 2078.5 | 2089.2 |
| 35°   | 1931.0 | 1956.6 | 1971.6 | 2014.4 | 2029.3 |
| 37.5° | 1856.1 | 1881.8 | 1901.0 | 1945.9 | 1963.1 |
| 40°   | 1777.0 | 1804.8 | 1830.5 | 1875.4 | 1890.3 |
| 42.5° | 1700.0 | 1727.8 | 1751.4 | 1798.4 | 1813.4 |
| 45°   | 1616.6 | 1644.4 | 1672.2 | 1721.4 | 1736.4 |
| 47.5° | 1529.0 | 1558.9 | 1591.0 | 1635.9 | 1655.1 |
| 50°   | 1441.3 | 1471.2 | 1505.4 | 1552.5 | 1569.6 |
| 52.5° | 1349.3 | 1381.4 | 1415.6 | 1464.8 | 1477.6 |
| 55°   | 1255.2 | 1287.3 | 1325.8 | 1375.0 | 1387.8 |
| 57.5° | 1159.0 | 1193.2 | 1233.9 | 1280.9 | 1293.7 |
| 60°   | 1060.6 | 1094.9 | 1137.6 | 1182.5 | 1186.8 |
| 62.5° | 964.4  | 994.4  | 1037.1 | 1079.9 | 1073.5 |
| 65°   | 861.8  | 889.6  | 934.5  | 966.6  | 953.7  |
| 67.5° | 759.1  | 789.1  | 829.7  | 853.2  | 836.1  |
| 70°   | 654.4  | 686.4  | 718.5  | 735.6  | 718.5  |
| 72.5° | 549.6  | 583.8  | 607.3  | 618.0  | 603.0  |
| 75°   | 444.8  | 479.0  | 494.0  | 506.8  | 496.1  |
| 77.5° | 344.3  | 376.4  | 382.8  | 397.7  | 382.8  |
| 80°   | 245.9  | 275.9  | 280.1  | 295.1  | 280.1  |
| 82.5° | 158.2  | 177.5  | 186.0  | 198.9  | 183.9  |
| 85°   | 85.5   | 96.2   | 102.6  | 109.1  | 89.8   |
| 87.5° | 29.9   | 34.2   | 29.9   | 25.7   | 10.7   |
| 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 | 19.12            | 20.77 | 19.48 | 21.08 | 21.39 | 19.66          | 21.31 | 20.03 | 21.62 | 21.94 |
|                 | 3H   | 20.90            | 22.40 | 21.28 | 22.72 | 23.08 | 21.47          | 22.96 | 21.84 | 23.29 | 23.65 |
|                 | 4H   | 21.54            | 22.95 | 21.94 | 23.30 | 23.67 | 22.11          | 23.52 | 22.51 | 23.87 | 24.24 |
|                 | 6H   | 21.97            | 23.27 | 22.38 | 23.64 | 24.03 | 22.55          | 23.86 | 22.96 | 24.22 | 24.61 |
|                 | 8H   | 22.08            | 23.32 | 22.50 | 23.71 | 24.11 | 22.67          | 23.92 | 23.10 | 24.31 | 24.71 |
|                 | 12H  | 22.13            | 23.32 | 22.56 | 23.71 | 24.13 | 22.73          | 23.93 | 23.16 | 24.31 | 24.74 |
| 4H              | 2H   | 19.84            | 21.25 | 20.24 | 21.60 | 21.97 | 20.27          | 21.67 | 20.67 | 22.02 | 22.40 |
|                 | 3H   | 21.85            | 23.03 | 22.26 | 23.43 | 23.83 | 22.30          | 23.48 | 22.71 | 23.88 | 24.28 |
|                 | 4H   | 22.62            | 23.69 | 23.05 | 24.10 | 24.53 | 23.08          | 24.15 | 23.52 | 24.57 | 25.00 |
|                 | 6H   | 23.16            | 24.10 | 23.62 | 24.54 | 24.99 | 23.65          | 24.59 | 24.11 | 25.03 | 25.48 |
|                 | 8H   | 23.31            | 24.18 | 23.77 | 24.62 | 25.09 | 23.82          | 24.69 | 24.28 | 25.13 | 25.60 |
|                 | 12H  | 23.39            | 24.18 | 23.87 | 24.65 | 25.12 | 23.91          | 24.69 | 24.39 | 25.17 | 25.64 |
| 8H              | 4H   | 22.96            | 23.83 | 23.42 | 24.28 | 24.74 | 23.37          | 24.25 | 23.83 | 24.69 | 25.15 |
|                 | 6H   | 23.62            | 24.35 | 24.11 | 24.83 | 25.31 | 24.05          | 24.78 | 24.55 | 25.27 | 25.74 |
|                 | 8H   | 23.83            | 24.48 | 24.33 | 24.98 | 25.47 | 24.29          | 24.94 | 24.80 | 25.44 | 25.93 |
|                 | 12H  | 23.96            | 24.54 | 24.47 | 25.03 | 25.59 | 24.44          | 25.01 | 24.94 | 25.50 | 26.06 |
| 12H             | 4H   | 23.00            | 23.78 | 23.48 | 24.26 | 24.73 | 23.40          | 24.18 | 23.88 | 24.66 | 25.13 |
|                 | 6H   | 23.67            | 24.33 | 24.18 | 24.83 | 25.32 | 24.10          | 24.75 | 24.60 | 25.25 | 25.74 |
|                 | 8H   | 23.93            | 24.51 | 24.44 | 25.00 | 25.56 | 24.38          | 24.95 | 24.89 | 25.44 | 26.00 |