

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: P1584631

Luminaire Tested: 14CZSP-A-47-L950

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584631  
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-47-L950  
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Ribbed Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

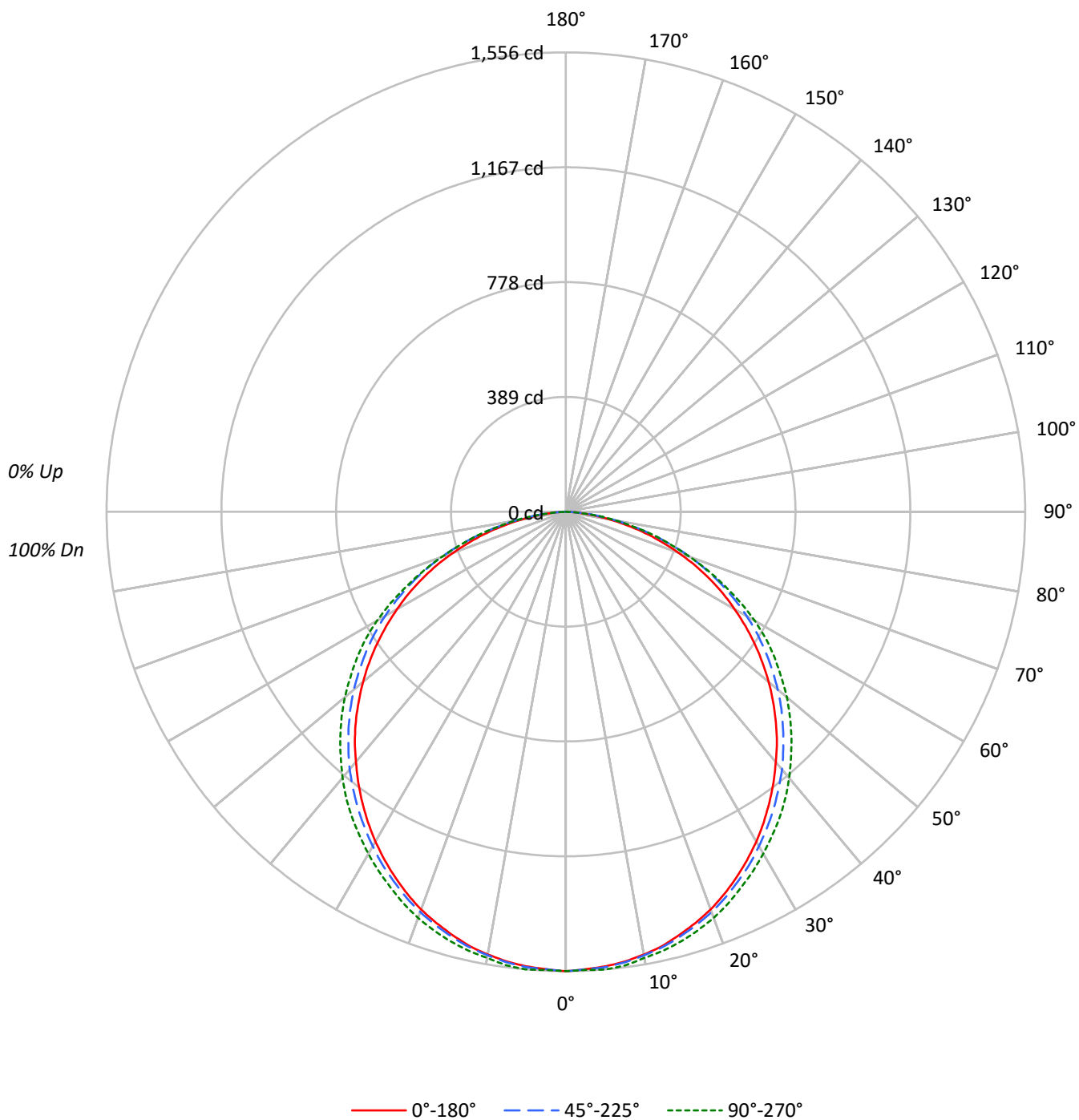
Lumens per Lamp: N/A  
Luminaire Lumens: 4490.0 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.8  
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°  | 5243 | 5243 | 5243 |
| 5°  | 5227 | 5236 | 5263 |
| 10° | 5210 | 5220 | 5251 |
| 15° | 5178 | 5201 | 5256 |
| 20° | 5141 | 5174 | 5250 |
| 25° | 5083 | 5132 | 5221 |
| 30° | 5019 | 5091 | 5205 |
| 35° | 4944 | 5048 | 5196 |
| 40° | 4866 | 5012 | 5176 |
| 45° | 4795 | 4960 | 5151 |
| 50° | 4703 | 4912 | 5122 |
| 55° | 4590 | 4848 | 5075 |
| 60° | 4449 | 4773 | 4979 |
| 65° | 4277 | 4638 | 4734 |
| 70° | 4013 | 4407 | 4407 |
| 75° | 3605 | 4003 | 4020 |
| 80° | 2971 | 3384 | 3384 |
| 85° | 2057 | 2470 | 2161 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5151 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 147.4  | 3.3       |
| 10°-20°   | 422.1  | 9.4       |
| 20°-30°   | 638.9  | 14.2      |
| 30°-40°   | 771.3  | 17.2      |
| 40°-50°   | 805.8  | 17.9      |
| 50°-60°   | 738.2  | 16.4      |
| 60°-70°   | 569.1  | 12.7      |
| 70°-80°   | 321.1  | 7.2       |
| 80°-90°   | 76.0   | 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°    | 1208.4 | 26.9      |
| 0°-40°    | 1979.7 | 44.1      |
| 0°-60°    | 3523.8 | 78.5      |
| 0°-90°    | 4490.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4490.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1556 | 1556  | 1556 | 1556  | 1556 |      |
| 5°  | 1545 | 1556  | 1548 | 1551  | 1556 | 147  |
| 15° | 1484 | 1494  | 1491 | 1503  | 1507 | 419  |
| 25° | 1367 | 1379  | 1380 | 1399  | 1404 | 630  |
| 35° | 1202 | 1218  | 1227 | 1254  | 1263 | 752  |
| 45° | 1006 | 1024  | 1041 | 1072  | 1081 | 776  |
| 55° | 781  | 801   | 825  | 856   | 864  | 698  |
| 65° | 536  | 554   | 582  | 602   | 594  | 530  |
| 75° | 277  | 298   | 308  | 316   | 309  | 294  |
| 85° | 53   | 60    | 64   | 68    | 56   | 67   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1556.1 | 1556.1 | 1556.1 | 1556.1 | 1556.1 |
| 2.5°  | 1550.8 | 1561.4 | 1550.8 | 1556.1 | 1553.4 |
| 5°    | 1545.4 | 1556.1 | 1548.1 | 1550.8 | 1556.1 |
| 7.5°  | 1536.1 | 1546.8 | 1538.8 | 1542.8 | 1549.4 |
| 10°   | 1522.8 | 1533.5 | 1525.5 | 1532.1 | 1534.8 |
| 12.5° | 1506.8 | 1516.2 | 1510.8 | 1518.8 | 1522.8 |
| 15°   | 1484.2 | 1493.5 | 1490.9 | 1502.8 | 1506.8 |
| 17.5° | 1460.2 | 1470.9 | 1468.2 | 1482.9 | 1486.9 |
| 20°   | 1433.6 | 1442.9 | 1442.9 | 1456.3 | 1464.2 |
| 22.5° | 1401.7 | 1412.3 | 1413.7 | 1428.3 | 1436.3 |
| 25°   | 1367.1 | 1379.0 | 1380.4 | 1399.0 | 1404.3 |
| 27.5° | 1329.8 | 1341.8 | 1347.1 | 1367.1 | 1372.4 |
| 30°   | 1289.9 | 1301.8 | 1308.5 | 1331.1 | 1337.8 |
| 32.5° | 1247.3 | 1261.9 | 1268.6 | 1293.9 | 1300.5 |
| 35°   | 1202.0 | 1218.0 | 1227.3 | 1253.9 | 1263.2 |
| 37.5° | 1155.4 | 1171.4 | 1183.4 | 1211.3 | 1222.0 |
| 40°   | 1106.2 | 1123.5 | 1139.4 | 1167.4 | 1176.7 |
| 42.5° | 1058.2 | 1075.6 | 1090.2 | 1119.5 | 1128.8 |
| 45°   | 1006.3 | 1023.6 | 1040.9 | 1071.6 | 1080.9 |
| 47.5° | 951.8  | 970.4  | 990.4  | 1018.3 | 1030.3 |
| 50°   | 897.2  | 915.8  | 937.1  | 966.4  | 977.0  |
| 52.5° | 839.9  | 859.9  | 881.2  | 911.8  | 919.8  |
| 55°   | 781.4  | 801.3  | 825.3  | 855.9  | 863.9  |
| 57.5° | 721.5  | 742.8  | 768.1  | 797.3  | 805.3  |
| 60°   | 660.2  | 681.5  | 708.2  | 736.1  | 738.8  |
| 62.5° | 600.3  | 619.0  | 645.6  | 672.2  | 668.2  |
| 65°   | 536.4  | 553.7  | 581.7  | 601.7  | 593.7  |
| 67.5° | 472.6  | 491.2  | 516.5  | 531.1  | 520.5  |
| 70°   | 407.3  | 427.3  | 447.3  | 457.9  | 447.3  |
| 72.5° | 342.1  | 363.4  | 378.0  | 384.7  | 375.4  |
| 75°   | 276.9  | 298.2  | 307.5  | 315.5  | 308.8  |
| 77.5° | 214.3  | 234.3  | 238.3  | 247.6  | 238.3  |
| 80°   | 153.1  | 171.7  | 174.4  | 183.7  | 174.4  |
| 82.5° | 98.5   | 110.5  | 115.8  | 123.8  | 114.5  |
| 85°   | 53.2   | 59.9   | 63.9   | 67.9   | 55.9   |
| 87.5° | 18.6   | 21.3   | 18.6   | 16.0   | 6.7    |
| 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 | 17.47            | 19.12 | 17.83 | 19.43 | 19.75 | 18.01          | 19.66 | 18.38 | 19.98 | 20.29 |
|                 | 3H   | 19.26            | 20.75 | 19.63 | 21.08 | 21.44 | 19.82          | 21.31 | 20.20 | 21.64 | 22.00 |
|                 | 4H   | 19.90            | 21.30 | 20.29 | 21.65 | 22.03 | 20.47          | 21.87 | 20.86 | 22.22 | 22.59 |
|                 | 6H   | 20.32            | 21.63 | 20.73 | 21.99 | 22.38 | 20.91          | 22.21 | 21.32 | 22.57 | 22.96 |
|                 | 8H   | 20.43            | 21.68 | 20.85 | 22.06 | 22.46 | 21.03          | 22.27 | 21.45 | 22.66 | 23.06 |
|                 | 12H  | 20.48            | 21.68 | 20.91 | 22.06 | 22.49 | 21.09          | 22.28 | 21.51 | 22.66 | 23.09 |
| 4H              | 2H   | 18.20            | 19.60 | 18.59 | 19.95 | 20.33 | 18.62          | 20.03 | 19.02 | 20.38 | 20.75 |
|                 | 3H   | 20.20            | 21.38 | 20.61 | 21.78 | 22.18 | 20.66          | 21.84 | 21.07 | 22.23 | 22.63 |
|                 | 4H   | 20.97            | 22.04 | 21.40 | 22.45 | 22.89 | 21.44          | 22.51 | 21.87 | 22.92 | 23.35 |
|                 | 6H   | 21.52            | 22.45 | 21.97 | 22.89 | 23.34 | 22.01          | 22.94 | 22.46 | 23.38 | 23.83 |
|                 | 8H   | 21.66            | 22.53 | 22.12 | 22.98 | 23.44 | 22.17          | 23.04 | 22.63 | 23.49 | 23.95 |
|                 | 12H  | 21.74            | 22.53 | 22.22 | 23.00 | 23.47 | 22.26          | 23.05 | 22.74 | 23.52 | 23.99 |
| 8H              | 4H   | 21.31            | 22.19 | 21.77 | 22.63 | 23.09 | 21.73          | 22.60 | 22.19 | 23.04 | 23.51 |
|                 | 6H   | 21.97            | 22.70 | 22.47 | 23.19 | 23.66 | 22.41          | 23.13 | 22.90 | 23.62 | 24.10 |
|                 | 8H   | 22.18            | 22.83 | 22.69 | 23.33 | 23.82 | 22.64          | 23.29 | 23.15 | 23.80 | 24.28 |
|                 | 12H  | 22.32            | 22.89 | 22.82 | 23.38 | 23.94 | 22.79          | 23.37 | 23.30 | 23.86 | 24.42 |
| 12H             | 4H   | 21.35            | 22.14 | 21.83 | 22.61 | 23.08 | 21.75          | 22.54 | 22.23 | 23.01 | 23.48 |
|                 | 6H   | 22.03            | 22.68 | 22.54 | 23.19 | 23.67 | 22.45          | 23.10 | 22.96 | 23.61 | 24.09 |
|                 | 8H   | 22.29            | 22.86 | 22.79 | 23.35 | 23.91 | 22.73          | 23.31 | 23.24 | 23.80 | 24.36 |