

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: P1584624

Luminaire Tested: 14CZSP-A-47-L935-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584624  
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-A-47-L935-S  
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

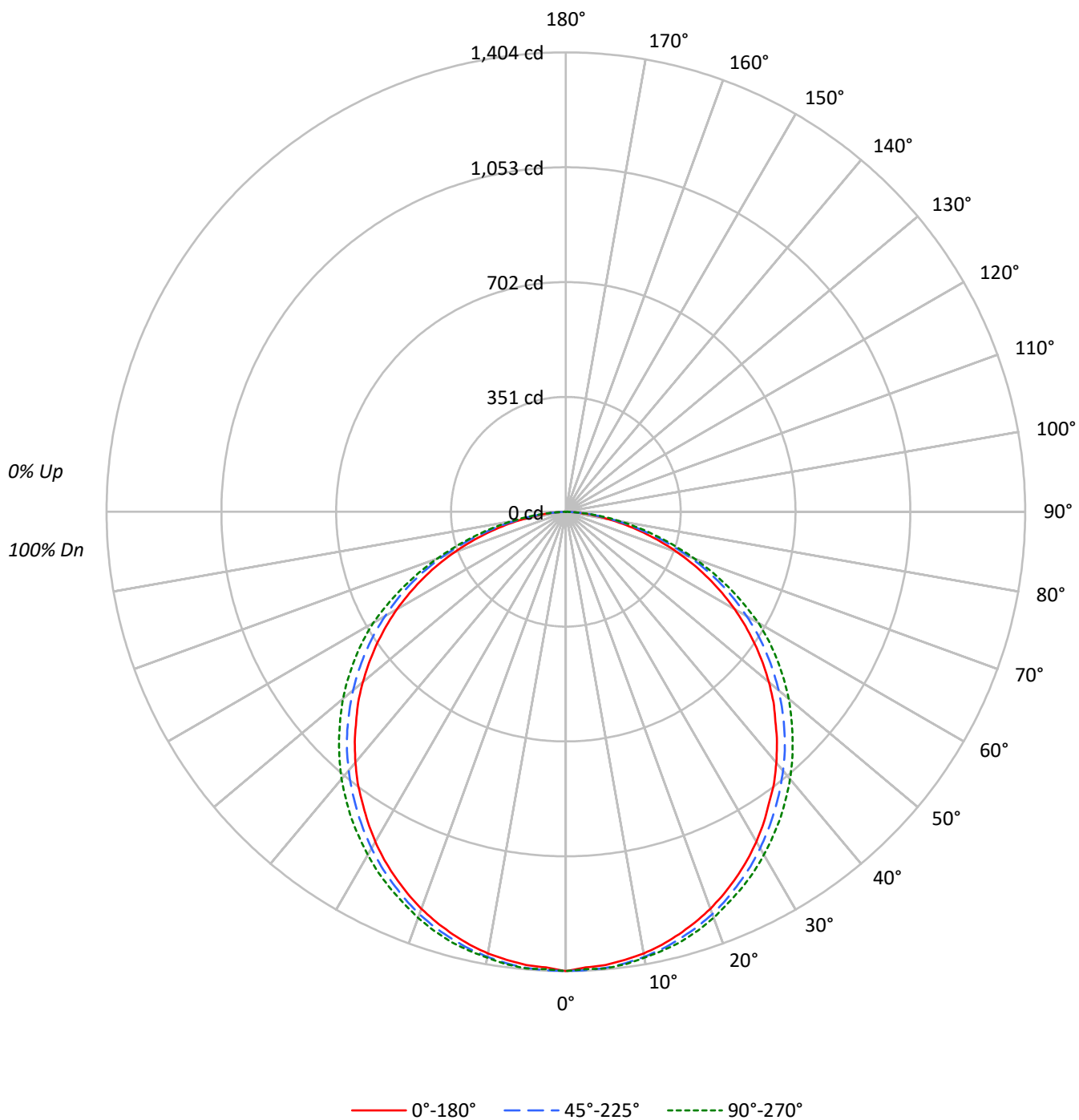
Lumens per Lamp: N/A  
Luminaire Lumens: 4058.0 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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  | 52  |  | 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  | 28  |  | 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°  | 4730 | 4730 | 4730 |
| 5°  | 4703 | 4734 | 4738 |
| 10° | 4690 | 4725 | 4735 |
| 15° | 4663 | 4711 | 4745 |
| 20° | 4631 | 4693 | 4735 |
| 25° | 4583 | 4657 | 4721 |
| 30° | 4532 | 4620 | 4711 |
| 35° | 4459 | 4580 | 4703 |
| 40° | 4401 | 4543 | 4690 |
| 45° | 4318 | 4503 | 4671 |
| 50° | 4246 | 4450 | 4662 |
| 55° | 4144 | 4386 | 4632 |
| 60° | 4017 | 4299 | 4585 |
| 65° | 3838 | 4181 | 4396 |
| 70° | 3578 | 3949 | 4125 |
| 75° | 3196 | 3562 | 3764 |
| 80° | 2620 | 3002 | 3291 |
| 85° | 1755 | 2192 | 2447 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4671 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 132.9  | 3.3       |
| 10°-20°   | 381.1  | 9.4       |
| 20°-30°   | 577.1  | 14.2      |
| 30°-40°   | 696.9  | 17.2      |
| 40°-50°   | 728.3  | 17.9      |
| 50°-60°   | 667.4  | 16.4      |
| 60°-70°   | 515.2  | 12.7      |
| 70°-80°   | 289.8  | 7.1       |
| 80°-90°   | 69.3   | 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°    | 1091.1 | 26.9      |
| 0°-40°    | 1788.0 | 44.1      |
| 0°-60°    | 3183.7 | 78.5      |
| 0°-90°    | 4058.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4058.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1404 | 1404  | 1404 | 1404  | 1404 |      |
| 5°  | 1390 | 1401  | 1400 | 1401  | 1401 | 132  |
| 15° | 1337 | 1348  | 1350 | 1356  | 1360 | 377  |
| 25° | 1233 | 1244  | 1252 | 1259  | 1270 | 568  |
| 35° | 1084 | 1098  | 1113 | 1128  | 1143 | 679  |
| 45° | 906  | 924   | 945  | 964   | 980  | 700  |
| 55° | 705  | 724   | 747  | 770   | 788  | 630  |
| 65° | 481  | 502   | 524  | 545   | 551  | 476  |
| 75° | 246  | 268   | 274  | 285   | 289  | 260  |
| 85° | 45   | 52    | 57   | 62    | 63   | 58   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1403.7 | 1403.7 | 1403.7 | 1403.7 | 1403.7 |
| 2.5°  | 1394.1 | 1404.9 | 1402.5 | 1406.1 | 1399.5 |
| 5°    | 1390.5 | 1400.7 | 1399.5 | 1400.7 | 1400.7 |
| 7.5°  | 1381.6 | 1392.3 | 1391.7 | 1393.5 | 1394.7 |
| 10°   | 1370.8 | 1381.0 | 1381.0 | 1382.8 | 1384.0 |
| 12.5° | 1355.9 | 1366.6 | 1367.8 | 1370.8 | 1373.2 |
| 15°   | 1336.8 | 1347.5 | 1350.5 | 1355.9 | 1360.1 |
| 17.5° | 1315.3 | 1326.6 | 1331.4 | 1336.8 | 1342.1 |
| 20°   | 1291.4 | 1301.5 | 1308.7 | 1312.9 | 1320.6 |
| 22.5° | 1263.3 | 1274.6 | 1282.4 | 1286.6 | 1295.0 |
| 25°   | 1232.8 | 1243.6 | 1252.5 | 1259.1 | 1269.9 |
| 27.5° | 1200.6 | 1211.3 | 1222.1 | 1229.9 | 1242.4 |
| 30°   | 1164.7 | 1176.1 | 1187.4 | 1199.4 | 1210.7 |
| 32.5° | 1125.9 | 1139.1 | 1151.6 | 1164.7 | 1177.3 |
| 35°   | 1084.1 | 1097.8 | 1113.4 | 1128.3 | 1143.2 |
| 37.5° | 1045.3 | 1057.8 | 1074.0 | 1090.1 | 1105.0 |
| 40°   | 1000.5 | 1014.2 | 1032.7 | 1050.7 | 1066.2 |
| 42.5° | 955.1  | 970.0  | 990.3  | 1007.7 | 1024.4 |
| 45°   | 906.1  | 924.0  | 944.9  | 964.0  | 980.2  |
| 47.5° | 860.7  | 876.2  | 897.2  | 918.1  | 934.8  |
| 50°   | 809.9  | 827.3  | 848.8  | 870.9  | 889.4  |
| 52.5° | 758.6  | 776.5  | 798.6  | 820.7  | 839.8  |
| 55°   | 705.4  | 723.9  | 746.6  | 769.9  | 788.4  |
| 57.5° | 651.1  | 670.8  | 694.1  | 717.4  | 735.9  |
| 60°   | 596.1  | 615.8  | 637.9  | 663.6  | 680.3  |
| 62.5° | 538.8  | 560.9  | 581.8  | 605.7  | 615.8  |
| 65°   | 481.4  | 502.3  | 524.4  | 545.3  | 551.3  |
| 67.5° | 422.9  | 444.4  | 464.1  | 477.8  | 485.6  |
| 70°   | 363.2  | 386.5  | 400.8  | 413.9  | 418.7  |
| 72.5° | 304.0  | 327.3  | 335.7  | 348.2  | 353.0  |
| 75°   | 245.5  | 268.2  | 273.6  | 284.9  | 289.1  |
| 77.5° | 188.7  | 209.7  | 211.4  | 224.6  | 228.2  |
| 80°   | 135.0  | 151.7  | 154.7  | 167.2  | 169.6  |
| 82.5° | 86.6   | 98.6   | 102.7  | 113.5  | 117.1  |
| 85°   | 45.4   | 52.0   | 56.7   | 62.1   | 63.3   |
| 87.5° | 14.9   | 18.5   | 15.5   | 16.1   | 14.9   |
| 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 | 17.11            | 18.76 | 17.48 | 19.08 | 19.39 | 17.65          | 19.30 | 18.02 | 19.62 | 19.93 |
|                 | 3H   | 18.89            | 20.38 | 19.26 | 20.71 | 21.07 | 19.51          | 21.00 | 19.88 | 21.33 | 21.69 |
|                 | 4H   | 19.51            | 20.92 | 19.91 | 21.27 | 21.64 | 20.18          | 21.58 | 20.57 | 21.93 | 22.31 |
|                 | 6H   | 19.92            | 21.23 | 20.33 | 21.59 | 21.98 | 20.65          | 21.96 | 21.06 | 22.32 | 22.71 |
|                 | 8H   | 20.03            | 21.27 | 20.45 | 21.66 | 22.06 | 20.80          | 22.05 | 21.22 | 22.43 | 22.83 |
|                 | 12H  | 20.08            | 21.27 | 20.50 | 21.65 | 22.08 | 20.88          | 22.08 | 21.31 | 22.46 | 22.89 |
| 4H              | 2H   | 17.84            | 19.24 | 18.23 | 19.59 | 19.97 | 18.26          | 19.66 | 18.66 | 20.01 | 20.39 |
|                 | 3H   | 19.83            | 21.01 | 20.24 | 21.41 | 21.81 | 20.33          | 21.51 | 20.74 | 21.91 | 22.31 |
|                 | 4H   | 20.59            | 21.66 | 21.02 | 22.07 | 22.50 | 21.13          | 22.19 | 21.56 | 22.61 | 23.04 |
|                 | 6H   | 21.12            | 22.05 | 21.57 | 22.49 | 22.94 | 21.73          | 22.66 | 22.18 | 23.10 | 23.56 |
|                 | 8H   | 21.25            | 22.13 | 21.71 | 22.57 | 23.03 | 21.92          | 22.79 | 22.38 | 23.23 | 23.70 |
|                 | 12H  | 21.33            | 22.12 | 21.81 | 22.59 | 23.06 | 22.04          | 22.83 | 22.52 | 23.30 | 23.77 |
| 8H              | 4H   | 20.92            | 21.80 | 21.38 | 22.24 | 22.70 | 21.40          | 22.28 | 21.86 | 22.72 | 23.18 |
|                 | 6H   | 21.56            | 22.29 | 22.06 | 22.78 | 23.25 | 22.11          | 22.84 | 22.61 | 23.33 | 23.80 |
|                 | 8H   | 21.77            | 22.42 | 22.27 | 22.92 | 23.41 | 22.37          | 23.02 | 22.88 | 23.53 | 24.01 |
|                 | 12H  | 21.89            | 22.47 | 22.40 | 22.96 | 23.52 | 22.55          | 23.13 | 23.06 | 23.62 | 24.18 |
| 12H             | 4H   | 20.96            | 21.75 | 21.44 | 22.22 | 22.69 | 21.43          | 22.21 | 21.90 | 22.69 | 23.15 |
|                 | 6H   | 21.62            | 22.27 | 22.13 | 22.78 | 23.26 | 22.15          | 22.80 | 22.66 | 23.31 | 23.79 |
|                 | 8H   | 21.87            | 22.45 | 22.38 | 22.94 | 23.50 | 22.46          | 23.03 | 22.96 | 23.52 | 24.08 |