

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: P1584599

Luminaire Tested: 14CZSP-A-43HE-L845

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-A-43HE-L845  
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

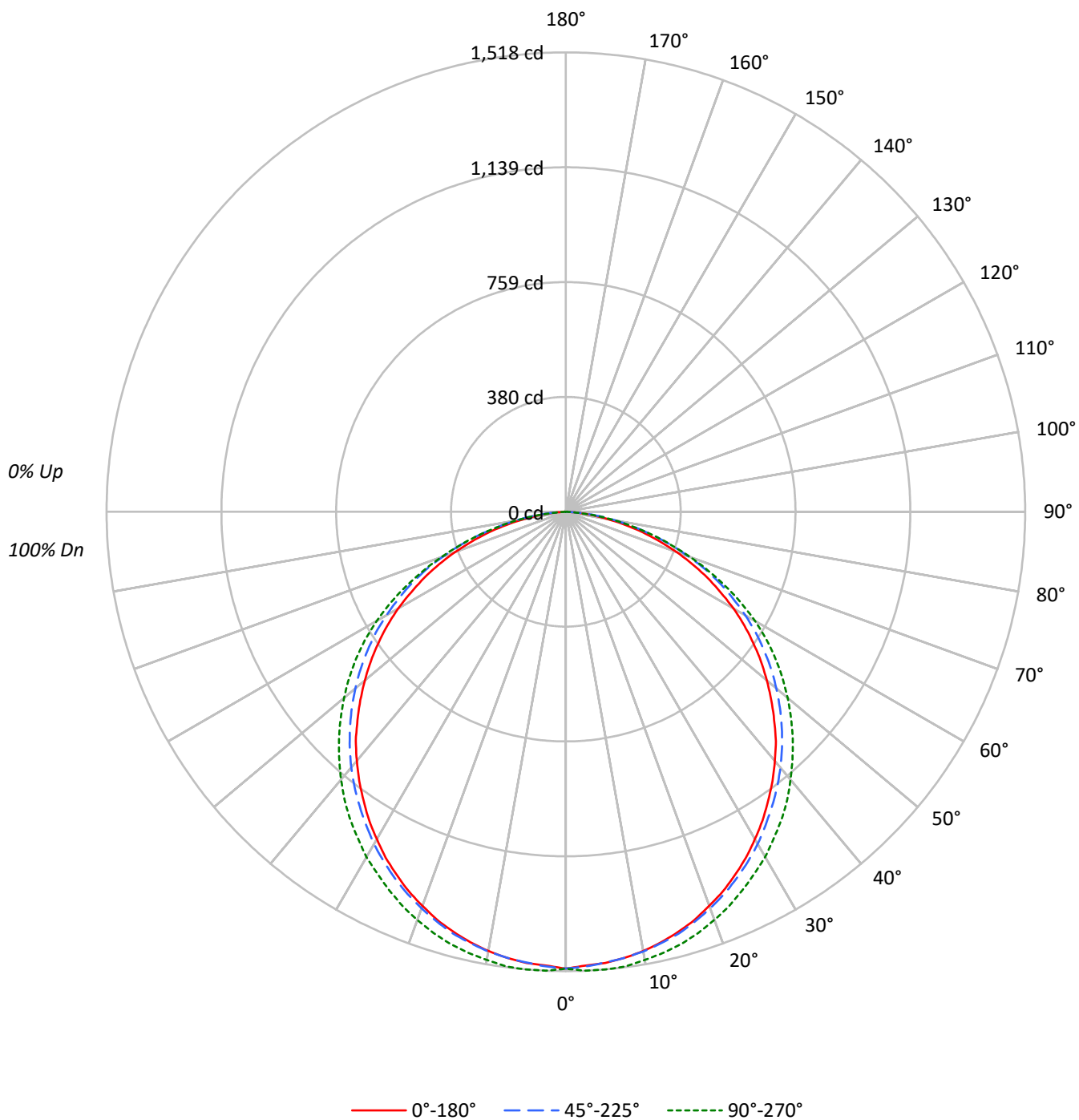
Lumens per Lamp: N/A  
Luminaire Lumens: 4348.0 lumens  
Efficiency: N/A  
Efficacy: 150.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.9  
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  |
| 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  |  | 94  | 91  | 88  |  | 90  |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  |
| 3   | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  |  | 64  | 58  | 53  |  | 62  |
| 5   | 76  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  |  | 57  | 51  | 46  |  | 55  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  |  | 52  | 45  | 40  |  | 50  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  |  | 47  | 40  | 35  |  | 46  |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 32  |  | 42  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  |  | 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°  | 5086 | 5086 | 5086 |
| 5°  | 5063 | 5057 | 5135 |
| 10° | 5043 | 5048 | 5145 |
| 15° | 5013 | 5033 | 5157 |
| 20° | 4969 | 5000 | 5147 |
| 25° | 4920 | 4968 | 5131 |
| 30° | 4861 | 4933 | 5127 |
| 35° | 4794 | 4888 | 5110 |
| 40° | 4726 | 4852 | 5083 |
| 45° | 4639 | 4809 | 5053 |
| 50° | 4545 | 4761 | 5015 |
| 55° | 4442 | 4701 | 4968 |
| 60° | 4310 | 4617 | 4866 |
| 65° | 4113 | 4499 | 4646 |
| 70° | 3836 | 4243 | 4313 |
| 75° | 3423 | 3830 | 3868 |
| 80° | 2787 | 3227 | 3200 |
| 85° | 1813 | 2254 | 1759 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5053 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 143.0  | 3.3       |
| 10°-20°   | 409.6  | 9.4       |
| 20°-30°   | 620.5  | 14.3      |
| 30°-40°   | 749.5  | 17.2      |
| 40°-50°   | 782.9  | 18.0      |
| 50°-60°   | 717.0  | 16.5      |
| 60°-70°   | 550.9  | 12.7      |
| 70°-80°   | 306.7  | 7.1       |
| 80°-90°   | 67.9   | 1.6       |
| 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°    | 1173.1 | 27.0      |
| 0°-40°    | 1922.6 | 44.2      |
| 0°-60°    | 3422.5 | 78.7      |
| 0°-90°    | 4348.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4348.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1510 | 1510  | 1510 | 1510  | 1510 |      |
| 5°  | 1497 | 1512  | 1495 | 1504  | 1518 | 142  |
| 15° | 1437 | 1451  | 1443 | 1457  | 1478 | 405  |
| 25° | 1323 | 1339  | 1336 | 1356  | 1380 | 610  |
| 35° | 1166 | 1182  | 1188 | 1217  | 1242 | 729  |
| 45° | 974  | 995   | 1009 | 1039  | 1060 | 752  |
| 55° | 756  | 780   | 800  | 829   | 846  | 676  |
| 65° | 516  | 543   | 564  | 576   | 583  | 510  |
| 75° | 263  | 290   | 294  | 294   | 297  | 279  |
| 85° | 47   | 55    | 58   | 48    | 46   | 61   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1509.5 | 1509.5 | 1509.5 | 1509.5 | 1509.5 |
| 2.5°  | 1500.9 | 1515.1 | 1503.8 | 1508.0 | 1518.0 |
| 5°    | 1496.7 | 1512.3 | 1495.2 | 1503.8 | 1518.0 |
| 7.5°  | 1486.7 | 1500.9 | 1486.7 | 1496.7 | 1515.1 |
| 10°   | 1473.9 | 1489.6 | 1475.3 | 1485.3 | 1503.8 |
| 12.5° | 1456.9 | 1469.7 | 1459.7 | 1473.9 | 1492.4 |
| 15°   | 1437.0 | 1451.2 | 1442.7 | 1456.9 | 1478.2 |
| 17.5° | 1414.2 | 1427.0 | 1419.9 | 1438.4 | 1458.3 |
| 20°   | 1385.8 | 1400.0 | 1394.3 | 1412.8 | 1435.5 |
| 22.5° | 1357.4 | 1371.6 | 1367.3 | 1385.8 | 1410.0 |
| 25°   | 1323.3 | 1338.9 | 1336.1 | 1355.9 | 1380.1 |
| 27.5° | 1289.1 | 1304.8 | 1303.4 | 1326.1 | 1348.8 |
| 30°   | 1249.3 | 1265.0 | 1267.8 | 1292.0 | 1317.6 |
| 32.5° | 1209.6 | 1226.6 | 1228.0 | 1255.0 | 1279.2 |
| 35°   | 1165.5 | 1182.5 | 1188.2 | 1216.7 | 1242.2 |
| 37.5° | 1121.4 | 1138.5 | 1147.0 | 1174.0 | 1201.0 |
| 40°   | 1074.5 | 1093.0 | 1103.0 | 1131.4 | 1155.5 |
| 42.5° | 1027.6 | 1046.1 | 1057.5 | 1085.9 | 1108.6 |
| 45°   | 973.6  | 994.9  | 1009.1 | 1039.0 | 1060.3 |
| 47.5° | 921.0  | 943.8  | 959.4  | 987.8  | 1009.1 |
| 50°   | 867.0  | 891.2  | 908.2  | 936.7  | 956.6  |
| 52.5° | 813.0  | 838.6  | 855.6  | 882.6  | 902.5  |
| 55°   | 756.1  | 780.3  | 800.2  | 828.6  | 845.7  |
| 57.5° | 699.3  | 723.5  | 744.8  | 770.4  | 786.0  |
| 60°   | 639.6  | 665.2  | 685.1  | 710.7  | 722.0  |
| 62.5° | 577.1  | 604.1  | 624.0  | 643.9  | 653.8  |
| 65°   | 515.9  | 542.9  | 564.3  | 575.6  | 582.7  |
| 67.5° | 453.4  | 480.4  | 500.3  | 506.0  | 510.3  |
| 70°   | 389.4  | 416.4  | 430.7  | 433.5  | 437.8  |
| 72.5° | 325.5  | 352.5  | 363.9  | 363.9  | 365.3  |
| 75°   | 262.9  | 290.0  | 294.2  | 294.2  | 297.1  |
| 77.5° | 201.8  | 226.0  | 228.8  | 228.8  | 228.8  |
| 80°   | 143.6  | 162.0  | 166.3  | 166.3  | 164.9  |
| 82.5° | 91.0   | 103.8  | 110.9  | 105.2  | 102.3  |
| 85°   | 46.9   | 55.4   | 58.3   | 48.3   | 45.5   |
| 87.5° | 14.2   | 17.1   | 14.2   | 8.5    | 7.1    |
| 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 | 17.40            | 19.04 | 17.76 | 19.36 | 19.67 | 17.90          | 19.55 | 18.27 | 19.86 | 20.18 |
|                 | 3H   | 19.17            | 20.66 | 19.54 | 20.98 | 21.34 | 19.70          | 21.19 | 20.08 | 21.52 | 21.88 |
|                 | 4H   | 19.79            | 21.19 | 20.19 | 21.54 | 21.92 | 20.33          | 21.73 | 20.73 | 22.08 | 22.46 |
|                 | 6H   | 20.19            | 21.49 | 20.60 | 21.86 | 22.25 | 20.75          | 22.05 | 21.16 | 22.42 | 22.81 |
|                 | 8H   | 20.29            | 21.53 | 20.72 | 21.92 | 22.32 | 20.86          | 22.10 | 21.28 | 22.49 | 22.89 |
|                 | 12H  | 20.34            | 21.53 | 20.77 | 21.91 | 22.34 | 20.90          | 22.09 | 21.33 | 22.47 | 22.90 |
| 4H              | 2H   | 18.12            | 19.52 | 18.52 | 19.87 | 20.24 | 18.51          | 19.92 | 18.91 | 20.26 | 20.64 |
|                 | 3H   | 20.11            | 21.29 | 20.52 | 21.68 | 22.08 | 20.53          | 21.70 | 20.93 | 22.10 | 22.50 |
|                 | 4H   | 20.87            | 21.93 | 21.30 | 22.34 | 22.78 | 21.28          | 22.34 | 21.71 | 22.75 | 23.19 |
|                 | 6H   | 21.39            | 22.32 | 21.84 | 22.76 | 23.21 | 21.82          | 22.75 | 22.27 | 23.19 | 23.64 |
|                 | 8H   | 21.52            | 22.39 | 21.98 | 22.83 | 23.30 | 21.96          | 22.83 | 22.42 | 23.27 | 23.73 |
|                 | 12H  | 21.60            | 22.38 | 22.07 | 22.85 | 23.32 | 22.02          | 22.80 | 22.50 | 23.28 | 23.75 |
| 8H              | 4H   | 21.20            | 22.07 | 21.66 | 22.51 | 22.98 | 21.56          | 22.43 | 22.02 | 22.87 | 23.34 |
|                 | 6H   | 21.83            | 22.56 | 22.33 | 23.04 | 23.52 | 22.20          | 22.93 | 22.70 | 23.41 | 23.89 |
|                 | 8H   | 22.03            | 22.67 | 22.53 | 23.18 | 23.66 | 22.40          | 23.05 | 22.91 | 23.55 | 24.04 |
|                 | 12H  | 22.15            | 22.72 | 22.65 | 23.21 | 23.77 | 22.50          | 23.08 | 23.01 | 23.57 | 24.13 |
| 12H             | 4H   | 21.23            | 22.01 | 21.71 | 22.49 | 22.96 | 21.59          | 22.37 | 22.07 | 22.84 | 23.31 |
|                 | 6H   | 21.88            | 22.53 | 22.39 | 23.04 | 23.52 | 22.24          | 22.89 | 22.75 | 23.40 | 23.88 |
|                 | 8H   | 22.13            | 22.70 | 22.63 | 23.19 | 23.75 | 22.49          | 23.06 | 22.99 | 23.55 | 24.11 |