

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: P1584590

Luminaire Tested: 14CZSP-A-42-L950-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584590  
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-42-L950-S  
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Smooth Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

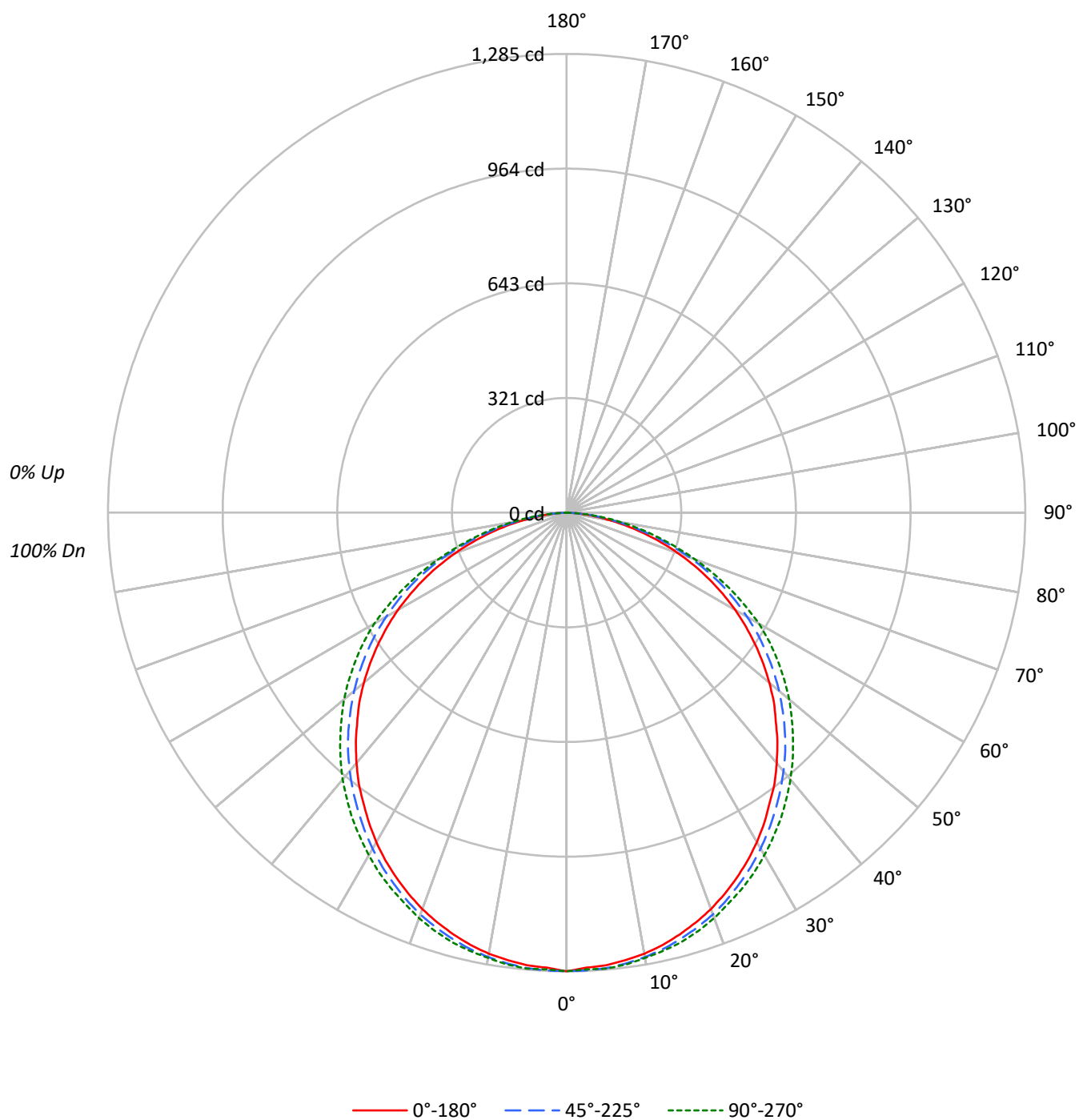
Lumens per Lamp: N/A  
Luminaire Lumens: 3714.0 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.5  
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  |  | 93  | 91  | 88  |  | 90  |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 58  | 52  |  | 62  |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  |  | 57  | 51  | 45  |  | 55  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 35  |  | 47  | 40  | 35  |  | 46  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 28  |  | 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°  | 4329 | 4329 | 4329 |
| 5°  | 4305 | 4332 | 4336 |
| 10° | 4293 | 4325 | 4334 |
| 15° | 4268 | 4312 | 4342 |
| 20° | 4238 | 4295 | 4334 |
| 25° | 4195 | 4262 | 4321 |
| 30° | 4148 | 4229 | 4311 |
| 35° | 4081 | 4192 | 4304 |
| 40° | 4028 | 4158 | 4292 |
| 45° | 3952 | 4121 | 4275 |
| 50° | 3886 | 4072 | 4267 |
| 55° | 3793 | 4014 | 4239 |
| 60° | 3677 | 3934 | 4196 |
| 65° | 3513 | 3827 | 4023 |
| 70° | 3275 | 3614 | 3775 |
| 75° | 2925 | 3260 | 3445 |
| 80° | 2396 | 2748 | 3014 |
| 85° | 1604 | 2007 | 2239 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4275 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.7  | 3.3       |
| 10°-20°   | 348.8  | 9.4       |
| 20°-30°   | 528.2  | 14.2      |
| 30°-40°   | 637.8  | 17.2      |
| 40°-50°   | 666.6  | 17.9      |
| 50°-60°   | 610.8  | 16.4      |
| 60°-70°   | 471.5  | 12.7      |
| 70°-80°   | 265.2  | 7.1       |
| 80°-90°   | 63.5   | 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°    | 998.6  | 26.9      |
| 0°-40°    | 1636.5 | 44.1      |
| 0°-60°    | 2913.8 | 78.5      |
| 0°-90°    | 3714.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3714.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1285 | 1285  | 1285 | 1285  | 1285 |      |
| 5°  | 1273 | 1282  | 1281 | 1282  | 1282 | 121  |
| 15° | 1223 | 1233  | 1236 | 1241  | 1245 | 345  |
| 25° | 1128 | 1138  | 1146 | 1152  | 1162 | 520  |
| 35° | 992  | 1005  | 1019 | 1033  | 1046 | 622  |
| 45° | 829  | 846   | 865  | 882   | 897  | 641  |
| 55° | 646  | 663   | 683  | 705   | 722  | 577  |
| 65° | 441  | 460   | 480  | 499   | 505  | 435  |
| 75° | 225  | 246   | 250  | 261   | 265  | 238  |
| 85° | 42   | 48    | 52   | 57    | 58   | 53   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1284.7 | 1284.7 | 1284.7 | 1284.7 | 1284.7 |
| 2.5°  | 1275.9 | 1285.8 | 1283.6 | 1286.9 | 1280.8 |
| 5°    | 1272.6 | 1281.9 | 1280.8 | 1281.9 | 1281.9 |
| 7.5°  | 1264.4 | 1274.3 | 1273.7 | 1275.4 | 1276.5 |
| 10°   | 1254.6 | 1263.9 | 1263.9 | 1265.5 | 1266.6 |
| 12.5° | 1240.9 | 1250.8 | 1251.9 | 1254.6 | 1256.8 |
| 15°   | 1223.4 | 1233.3 | 1236.0 | 1240.9 | 1244.8 |
| 17.5° | 1203.8 | 1214.2 | 1218.5 | 1223.4 | 1228.4 |
| 20°   | 1181.9 | 1191.2 | 1197.8 | 1201.6 | 1208.7 |
| 22.5° | 1156.2 | 1166.6 | 1173.7 | 1177.5 | 1185.2 |
| 25°   | 1128.3 | 1138.2 | 1146.4 | 1152.4 | 1162.2 |
| 27.5° | 1098.8 | 1108.6 | 1118.5 | 1125.6 | 1137.1 |
| 30°   | 1066.0 | 1076.4 | 1086.8 | 1097.7 | 1108.1 |
| 32.5° | 1030.5 | 1042.5 | 1054.0 | 1066.0 | 1077.5 |
| 35°   | 992.2  | 1004.8 | 1019.0 | 1032.7 | 1046.3 |
| 37.5° | 956.7  | 968.2  | 982.9  | 997.7  | 1011.3 |
| 40°   | 915.7  | 928.2  | 945.2  | 961.6  | 975.8  |
| 42.5° | 874.1  | 887.8  | 906.4  | 922.2  | 937.5  |
| 45°   | 829.3  | 845.7  | 864.8  | 882.3  | 897.1  |
| 47.5° | 787.8  | 802.0  | 821.1  | 840.2  | 855.5  |
| 50°   | 741.3  | 757.1  | 776.8  | 797.0  | 814.0  |
| 52.5° | 694.3  | 710.7  | 730.9  | 751.1  | 768.6  |
| 55°   | 645.6  | 662.6  | 683.3  | 704.7  | 721.6  |
| 57.5° | 595.9  | 613.9  | 635.2  | 656.6  | 673.5  |
| 60°   | 545.6  | 563.6  | 583.8  | 607.4  | 622.7  |
| 62.5° | 493.1  | 513.3  | 532.5  | 554.3  | 563.6  |
| 65°   | 440.6  | 459.7  | 480.0  | 499.1  | 504.6  |
| 67.5° | 387.0  | 406.7  | 424.8  | 437.3  | 444.4  |
| 70°   | 332.4  | 353.7  | 366.8  | 378.8  | 383.2  |
| 72.5° | 278.3  | 299.6  | 307.2  | 318.7  | 323.1  |
| 75°   | 224.7  | 245.5  | 250.4  | 260.8  | 264.6  |
| 77.5° | 172.7  | 191.9  | 193.5  | 205.5  | 208.8  |
| 80°   | 123.5  | 138.9  | 141.6  | 153.1  | 155.3  |
| 82.5° | 79.3   | 90.2   | 94.0   | 103.9  | 107.1  |
| 85°   | 41.5   | 47.6   | 51.9   | 56.9   | 57.9   |
| 87.5° | 13.7   | 16.9   | 14.2   | 14.8   | 13.7   |
| 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 | 16.80            | 18.45 | 17.17 | 18.77 | 19.08 | 17.34          | 18.99 | 17.71 | 19.31 | 19.62 |
|                 | 3H   | 18.58            | 20.07 | 18.96 | 20.40 | 20.76 | 19.20          | 20.69 | 19.58 | 21.02 | 21.38 |
|                 | 4H   | 19.21            | 20.61 | 19.60 | 20.96 | 21.33 | 19.87          | 21.28 | 20.27 | 21.62 | 22.00 |
|                 | 6H   | 19.61            | 20.92 | 20.02 | 21.28 | 21.67 | 20.35          | 21.65 | 20.76 | 22.01 | 22.40 |
|                 | 8H   | 19.72            | 20.96 | 20.14 | 21.35 | 21.75 | 20.49          | 21.74 | 20.92 | 22.13 | 22.53 |
|                 | 12H  | 19.77            | 20.96 | 20.20 | 21.34 | 21.77 | 20.57          | 21.77 | 21.00 | 22.15 | 22.58 |
| 4H              | 2H   | 17.53            | 18.93 | 17.93 | 19.28 | 19.66 | 17.95          | 19.36 | 18.35 | 19.70 | 20.08 |
|                 | 3H   | 19.52            | 20.70 | 19.93 | 21.10 | 21.50 | 20.02          | 21.20 | 20.43 | 21.60 | 22.00 |
|                 | 4H   | 20.28            | 21.35 | 20.71 | 21.76 | 22.20 | 20.82          | 21.89 | 21.25 | 22.30 | 22.73 |
|                 | 6H   | 20.81            | 21.74 | 21.26 | 22.18 | 22.64 | 21.42          | 22.35 | 21.87 | 22.79 | 23.25 |
|                 | 8H   | 20.95            | 21.82 | 21.41 | 22.26 | 22.73 | 21.61          | 22.49 | 22.07 | 22.93 | 23.39 |
|                 | 12H  | 21.03            | 21.81 | 21.50 | 22.29 | 22.75 | 21.73          | 22.52 | 22.21 | 22.99 | 23.46 |
| 8H              | 4H   | 20.62            | 21.49 | 21.08 | 21.93 | 22.40 | 21.09          | 21.97 | 21.55 | 22.41 | 22.87 |
|                 | 6H   | 21.26            | 21.98 | 21.75 | 22.47 | 22.95 | 21.81          | 22.53 | 22.30 | 23.02 | 23.49 |
|                 | 8H   | 21.46            | 22.11 | 21.97 | 22.61 | 23.10 | 22.06          | 22.71 | 22.57 | 23.22 | 23.71 |
|                 | 12H  | 21.59            | 22.16 | 22.09 | 22.65 | 23.21 | 22.25          | 22.82 | 22.75 | 23.31 | 23.87 |
| 12H             | 4H   | 20.65            | 21.44 | 21.13 | 21.91 | 22.38 | 21.12          | 21.90 | 21.60 | 22.38 | 22.85 |
|                 | 6H   | 21.31            | 21.96 | 21.82 | 22.47 | 22.96 | 21.84          | 22.50 | 22.35 | 23.00 | 23.49 |
|                 | 8H   | 21.56            | 22.14 | 22.07 | 22.63 | 23.19 | 22.15          | 22.73 | 22.66 | 23.22 | 23.78 |