

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: P1584276

Luminaire Tested: 14CZSP-42-L840-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584276  
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-42-L840-S  
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

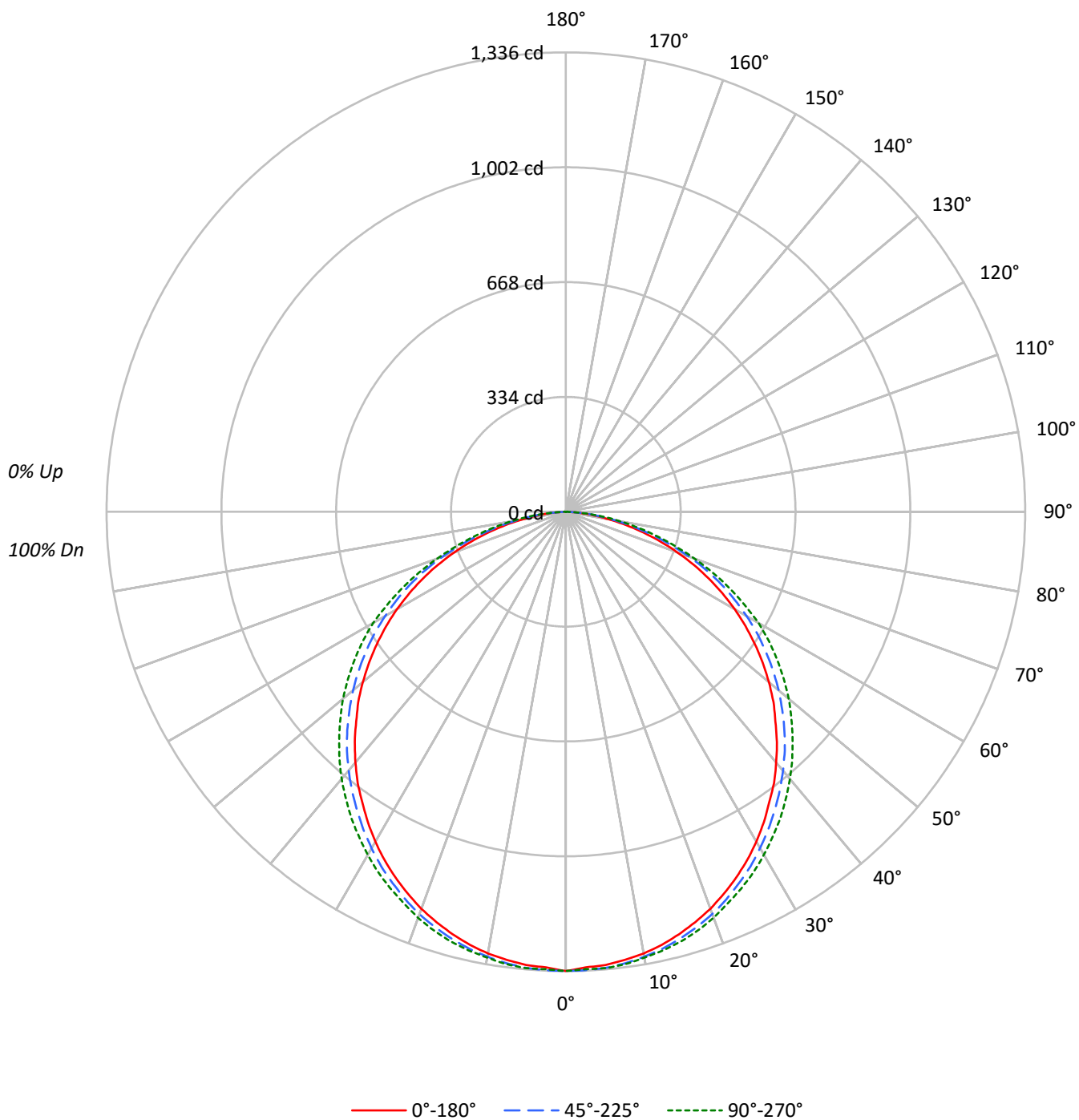
Lumens per Lamp: N/A  
Luminaire Lumens: 3861.0 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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°  | 4500 | 4500 | 4500 |
| 5°  | 4475 | 4504 | 4508 |
| 10° | 4463 | 4496 | 4506 |
| 15° | 4437 | 4482 | 4514 |
| 20° | 4406 | 4465 | 4506 |
| 25° | 4361 | 4431 | 4492 |
| 30° | 4312 | 4396 | 4482 |
| 35° | 4243 | 4357 | 4474 |
| 40° | 4187 | 4322 | 4462 |
| 45° | 4108 | 4284 | 4444 |
| 50° | 4040 | 4234 | 4436 |
| 55° | 3943 | 4173 | 4407 |
| 60° | 3822 | 4091 | 4362 |
| 65° | 3652 | 3979 | 4182 |
| 70° | 3404 | 3757 | 3925 |
| 75° | 3041 | 3389 | 3582 |
| 80° | 2492 | 2856 | 3132 |
| 85° | 1670 | 2088 | 2327 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4444 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 126.5  | 3.3       |
| 10°-20°   | 362.6  | 9.4       |
| 20°-30°   | 549.1  | 14.2      |
| 30°-40°   | 663.1  | 17.2      |
| 40°-50°   | 692.9  | 17.9      |
| 50°-60°   | 635.0  | 16.4      |
| 60°-70°   | 490.1  | 12.7      |
| 70°-80°   | 275.7  | 7.1       |
| 80°-90°   | 66.0   | 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°    | 1038.2 | 26.9      |
| 0°-40°    | 1701.2 | 44.1      |
| 0°-60°    | 3029.2 | 78.5      |
| 0°-90°    | 3861.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3861.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1336 | 1336  | 1336 | 1336  | 1336 |      |
| 5°  | 1323 | 1333  | 1332 | 1333  | 1333 | 126  |
| 15° | 1272 | 1282  | 1285 | 1290  | 1294 | 359  |
| 25° | 1173 | 1183  | 1192 | 1198  | 1208 | 541  |
| 35° | 1032 | 1044  | 1059 | 1074  | 1088 | 646  |
| 45° | 862  | 879   | 899  | 917   | 933  | 666  |
| 55° | 671  | 689   | 710  | 732   | 750  | 600  |
| 65° | 458  | 478   | 499  | 519   | 524  | 453  |
| 75° | 234  | 255   | 260  | 271   | 275  | 248  |
| 85° | 43   | 49    | 54   | 59    | 60   | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1335.5 | 1335.5 | 1335.5 | 1335.5 | 1335.5 |
| 2.5°  | 1326.4 | 1336.7 | 1334.4 | 1337.8 | 1331.5 |
| 5°    | 1323.0 | 1332.7 | 1331.5 | 1332.7 | 1332.7 |
| 7.5°  | 1314.5 | 1324.7 | 1324.2 | 1325.9 | 1327.0 |
| 10°   | 1304.3 | 1313.9 | 1313.9 | 1315.6 | 1316.8 |
| 12.5° | 1290.1 | 1300.3 | 1301.4 | 1304.3 | 1306.5 |
| 15°   | 1271.9 | 1282.1 | 1284.9 | 1290.1 | 1294.0 |
| 17.5° | 1251.4 | 1262.2 | 1266.8 | 1271.9 | 1277.0 |
| 20°   | 1228.7 | 1238.3 | 1245.2 | 1249.1 | 1256.5 |
| 22.5° | 1202.0 | 1212.8 | 1220.2 | 1224.1 | 1232.1 |
| 25°   | 1173.0 | 1183.2 | 1191.7 | 1198.0 | 1208.2 |
| 27.5° | 1142.3 | 1152.5 | 1162.8 | 1170.1 | 1182.1 |
| 30°   | 1108.2 | 1119.0 | 1129.8 | 1141.2 | 1152.0 |
| 32.5° | 1071.3 | 1083.8 | 1095.7 | 1108.2 | 1120.1 |
| 35°   | 1031.5 | 1044.5 | 1059.3 | 1073.5 | 1087.7 |
| 37.5° | 994.5  | 1006.5 | 1021.8 | 1037.2 | 1051.4 |
| 40°   | 951.9  | 965.0  | 982.6  | 999.7  | 1014.4 |
| 42.5° | 908.7  | 922.9  | 942.3  | 958.7  | 974.6  |
| 45°   | 862.1  | 879.2  | 899.1  | 917.2  | 932.6  |
| 47.5° | 818.9  | 833.7  | 853.6  | 873.5  | 889.4  |
| 50°   | 770.6  | 787.1  | 807.6  | 828.6  | 846.2  |
| 52.5° | 721.8  | 738.8  | 759.8  | 780.9  | 799.0  |
| 55°   | 671.2  | 688.8  | 710.4  | 732.5  | 750.2  |
| 57.5° | 619.5  | 638.2  | 660.4  | 682.5  | 700.2  |
| 60°   | 567.2  | 585.9  | 607.0  | 631.4  | 647.3  |
| 62.5° | 512.6  | 533.6  | 553.5  | 576.3  | 585.9  |
| 65°   | 458.1  | 477.9  | 499.0  | 518.9  | 524.5  |
| 67.5° | 402.4  | 422.8  | 441.6  | 454.6  | 462.0  |
| 70°   | 345.5  | 367.7  | 381.3  | 393.8  | 398.4  |
| 72.5° | 289.3  | 311.4  | 319.4  | 331.3  | 335.9  |
| 75°   | 233.6  | 255.2  | 260.3  | 271.1  | 275.1  |
| 77.5° | 179.6  | 199.5  | 201.2  | 213.7  | 217.1  |
| 80°   | 128.4  | 144.4  | 147.2  | 159.1  | 161.4  |
| 82.5° | 82.4   | 93.8   | 97.7   | 108.0  | 111.4  |
| 85°   | 43.2   | 49.4   | 54.0   | 59.1   | 60.2   |
| 87.5° | 14.2   | 17.6   | 14.8   | 15.3   | 14.2   |
| 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 | 16.94            | 18.59 | 17.30 | 18.90 | 19.22 | 17.48          | 19.13 | 17.84 | 19.44 | 19.76 |
|                 | 3H   | 18.71            | 20.21 | 19.09 | 20.53 | 20.89 | 19.33          | 20.83 | 19.71 | 21.15 | 21.51 |
|                 | 4H   | 19.34            | 20.75 | 19.74 | 21.09 | 21.47 | 20.00          | 21.41 | 20.40 | 21.76 | 22.13 |
|                 | 6H   | 19.75            | 21.05 | 20.16 | 21.42 | 21.81 | 20.48          | 21.79 | 20.89 | 22.15 | 22.54 |
|                 | 8H   | 19.85            | 21.10 | 20.28 | 21.49 | 21.89 | 20.63          | 21.87 | 21.05 | 22.26 | 22.66 |
|                 | 12H  | 19.90            | 21.10 | 20.33 | 21.48 | 21.91 | 20.71          | 21.90 | 21.14 | 22.29 | 22.71 |
| 4H              | 2H   | 17.66            | 19.07 | 18.06 | 19.42 | 19.79 | 18.08          | 19.49 | 18.48 | 19.84 | 20.21 |
|                 | 3H   | 19.66            | 20.84 | 20.07 | 21.23 | 21.63 | 20.16          | 21.34 | 20.57 | 21.73 | 22.13 |
|                 | 4H   | 20.41            | 21.48 | 20.85 | 21.90 | 22.33 | 20.95          | 22.02 | 21.38 | 22.43 | 22.87 |
|                 | 6H   | 20.94            | 21.88 | 21.40 | 22.32 | 22.77 | 21.56          | 22.49 | 22.01 | 22.93 | 23.38 |
|                 | 8H   | 21.08            | 21.96 | 21.54 | 22.40 | 22.86 | 21.75          | 22.62 | 22.21 | 23.06 | 23.53 |
|                 | 12H  | 21.16            | 21.95 | 21.64 | 22.42 | 22.89 | 21.87          | 22.65 | 22.35 | 23.13 | 23.60 |
| 8H              | 4H   | 20.75            | 21.63 | 21.21 | 22.07 | 22.53 | 21.23          | 22.10 | 21.69 | 22.54 | 23.01 |
|                 | 6H   | 21.39            | 22.12 | 21.88 | 22.61 | 23.08 | 21.94          | 22.67 | 22.43 | 23.15 | 23.63 |
|                 | 8H   | 21.59            | 22.24 | 22.10 | 22.75 | 23.23 | 22.20          | 22.85 | 22.71 | 23.35 | 23.84 |
|                 | 12H  | 21.72            | 22.30 | 22.23 | 22.79 | 23.35 | 22.38          | 22.96 | 22.89 | 23.45 | 24.01 |
| 12H             | 4H   | 20.79            | 21.57 | 21.27 | 22.05 | 22.52 | 21.25          | 22.04 | 21.73 | 22.51 | 22.98 |
|                 | 6H   | 21.45            | 22.10 | 21.96 | 22.60 | 23.09 | 21.98          | 22.63 | 22.49 | 23.14 | 23.62 |
|                 | 8H   | 21.70            | 22.27 | 22.20 | 22.76 | 23.32 | 22.29          | 22.86 | 22.79 | 23.35 | 23.91 |

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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