

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: P1584610

Luminaire Tested: 14CZSP-A-43HE-L950-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584610  
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-43HE-L950-S  
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

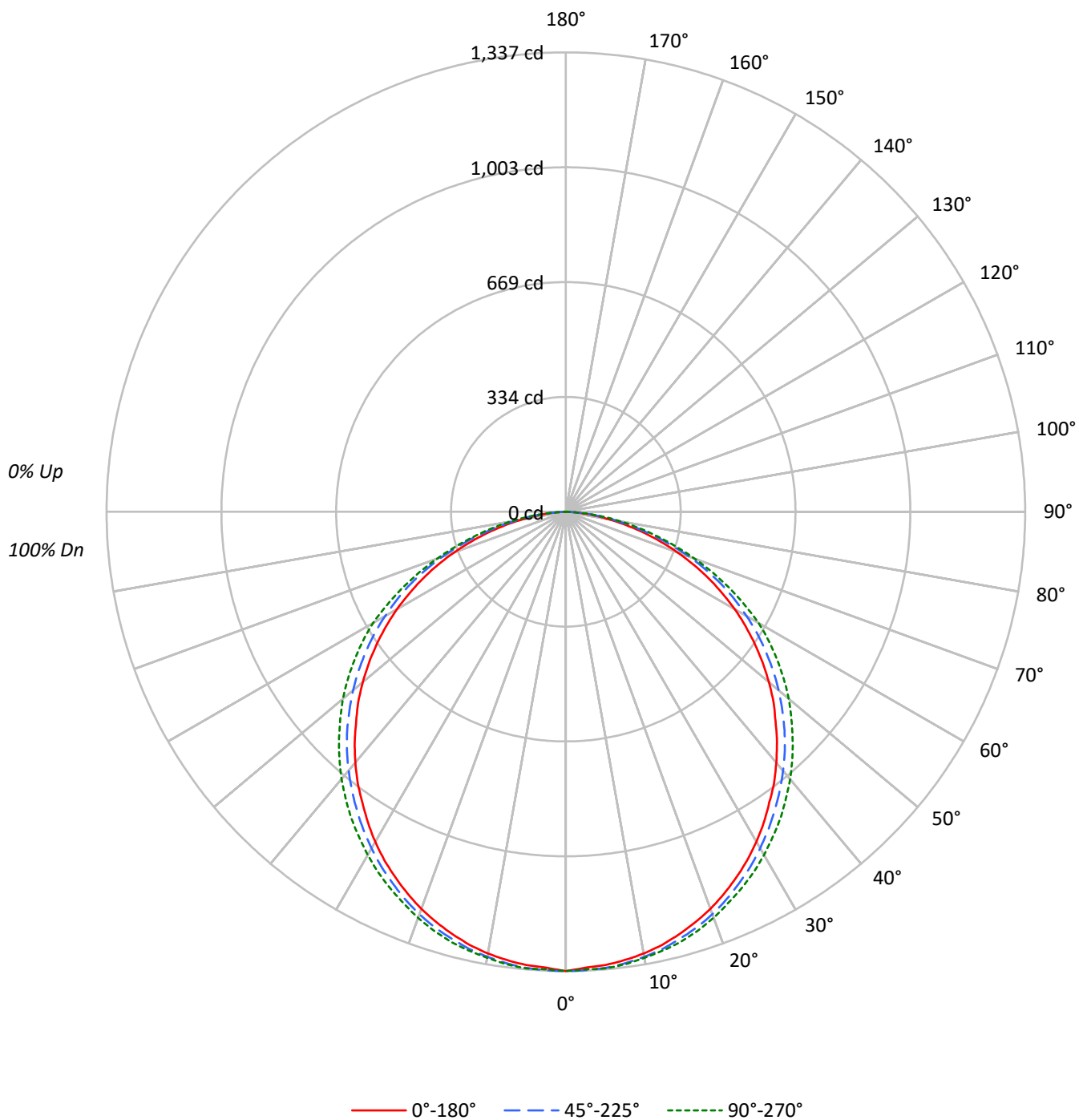
Lumens per Lamp: N/A  
Luminaire Lumens: 3865.0 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  |     |     | 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°  | 4505 | 4505 | 4505 |
| 5°  | 4480 | 4508 | 4513 |
| 10° | 4467 | 4500 | 4510 |
| 15° | 4441 | 4487 | 4519 |
| 20° | 4411 | 4470 | 4510 |
| 25° | 4366 | 4435 | 4497 |
| 30° | 4316 | 4401 | 4487 |
| 35° | 4247 | 4362 | 4479 |
| 40° | 4191 | 4327 | 4467 |
| 45° | 4112 | 4289 | 4449 |
| 50° | 4044 | 4238 | 4441 |
| 55° | 3947 | 4177 | 4411 |
| 60° | 3826 | 4095 | 4367 |
| 65° | 3656 | 3983 | 4187 |
| 70° | 3408 | 3761 | 3929 |
| 75° | 3044 | 3393 | 3584 |
| 80° | 2495 | 2858 | 3136 |
| 85° | 1670 | 2088 | 2331 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4449 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 126.6  | 3.3       |
| 10°-20°   | 363.0  | 9.4       |
| 20°-30°   | 549.6  | 14.2      |
| 30°-40°   | 663.7  | 17.2      |
| 40°-50°   | 693.7  | 17.9      |
| 50°-60°   | 635.6  | 16.4      |
| 60°-70°   | 490.7  | 12.7      |
| 70°-80°   | 276.0  | 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°    | 1039.2 | 26.9      |
| 0°-40°    | 1703.0 | 44.1      |
| 0°-60°    | 3032.3 | 78.5      |
| 0°-90°    | 3865.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3865.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1337 | 1337  | 1337 | 1337  | 1337 |      |
| 5°  | 1324 | 1334  | 1333 | 1334  | 1334 | 126  |
| 15° | 1273 | 1283  | 1286 | 1291  | 1295 | 359  |
| 25° | 1174 | 1184  | 1193 | 1199  | 1210 | 541  |
| 35° | 1032 | 1046  | 1060 | 1075  | 1089 | 647  |
| 45° | 863  | 880   | 900  | 918   | 934  | 667  |
| 55° | 672  | 690   | 711  | 733   | 751  | 600  |
| 65° | 458  | 478   | 500  | 519   | 525  | 453  |
| 75° | 234  | 255   | 261  | 271   | 275  | 248  |
| 85° | 43   | 50    | 54   | 59    | 60   | 56   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1336.9 | 1336.9 | 1336.9 | 1336.9 | 1336.9 |
| 2.5°  | 1327.8 | 1338.0 | 1335.8 | 1339.2 | 1332.9 |
| 5°    | 1324.4 | 1334.1 | 1332.9 | 1334.1 | 1334.1 |
| 7.5°  | 1315.9 | 1326.1 | 1325.5 | 1327.2 | 1328.4 |
| 10°   | 1305.6 | 1315.3 | 1315.3 | 1317.0 | 1318.1 |
| 12.5° | 1291.4 | 1301.6 | 1302.8 | 1305.6 | 1307.9 |
| 15°   | 1273.2 | 1283.4 | 1286.3 | 1291.4 | 1295.4 |
| 17.5° | 1252.7 | 1263.5 | 1268.1 | 1273.2 | 1278.3 |
| 20°   | 1230.0 | 1239.6 | 1246.5 | 1250.4 | 1257.8 |
| 22.5° | 1203.2 | 1214.0 | 1221.4 | 1225.4 | 1233.4 |
| 25°   | 1174.2 | 1184.4 | 1193.0 | 1199.2 | 1209.5 |
| 27.5° | 1143.5 | 1153.7 | 1164.0 | 1171.4 | 1183.3 |
| 30°   | 1109.3 | 1120.2 | 1131.0 | 1142.3 | 1153.2 |
| 32.5° | 1072.4 | 1084.9 | 1096.8 | 1109.3 | 1121.3 |
| 35°   | 1032.5 | 1045.6 | 1060.4 | 1074.6 | 1088.9 |
| 37.5° | 995.6  | 1007.5 | 1022.9 | 1038.2 | 1052.5 |
| 40°   | 952.9  | 966.0  | 983.6  | 1000.7 | 1015.5 |
| 42.5° | 909.7  | 923.9  | 943.2  | 959.7  | 975.7  |
| 45°   | 863.0  | 880.1  | 900.0  | 918.2  | 933.6  |
| 47.5° | 819.8  | 834.6  | 854.5  | 874.4  | 890.3  |
| 50°   | 771.4  | 787.9  | 808.4  | 829.5  | 847.1  |
| 52.5° | 722.5  | 739.6  | 760.6  | 781.7  | 799.9  |
| 55°   | 671.9  | 689.5  | 711.1  | 733.3  | 750.9  |
| 57.5° | 620.1  | 638.9  | 661.1  | 683.2  | 700.9  |
| 60°   | 567.8  | 586.5  | 607.6  | 632.0  | 648.0  |
| 62.5° | 513.1  | 534.2  | 554.1  | 576.9  | 586.5  |
| 65°   | 458.5  | 478.4  | 499.5  | 519.4  | 525.1  |
| 67.5° | 402.8  | 423.3  | 442.0  | 455.1  | 462.5  |
| 70°   | 345.9  | 368.1  | 381.7  | 394.2  | 398.8  |
| 72.5° | 289.6  | 311.8  | 319.7  | 331.7  | 336.2  |
| 75°   | 233.8  | 255.4  | 260.6  | 271.4  | 275.3  |
| 77.5° | 179.8  | 199.7  | 201.4  | 213.9  | 217.3  |
| 80°   | 128.6  | 144.5  | 147.3  | 159.3  | 161.6  |
| 82.5° | 82.5   | 93.9   | 97.9   | 108.1  | 111.5  |
| 85°   | 43.2   | 49.5   | 54.0   | 59.2   | 60.3   |
| 87.5° | 14.2   | 17.6   | 14.8   | 15.4   | 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 | 17.31 | 18.91 | 19.22 | 17.48          | 19.13 | 17.85 | 19.45 | 19.76 |
|                 | 3H   | 18.72            | 20.21 | 19.09 | 20.54 | 20.90 | 19.34          | 20.83 | 19.71 | 21.16 | 21.52 |
|                 | 4H   | 19.34            | 20.75 | 19.74 | 21.10 | 21.47 | 20.01          | 21.41 | 20.40 | 21.76 | 22.14 |
|                 | 6H   | 19.75            | 21.06 | 20.16 | 21.42 | 21.81 | 20.48          | 21.79 | 20.89 | 22.15 | 22.54 |
|                 | 8H   | 19.86            | 21.10 | 20.28 | 21.49 | 21.89 | 20.63          | 21.88 | 21.05 | 22.27 | 22.66 |
|                 | 12H  | 19.91            | 21.10 | 20.34 | 21.48 | 21.91 | 20.71          | 21.91 | 21.14 | 22.29 | 22.72 |
| 4H              | 2H   | 17.67            | 19.07 | 18.06 | 19.42 | 19.80 | 18.09          | 19.50 | 18.49 | 19.84 | 20.22 |
|                 | 3H   | 19.66            | 20.84 | 20.07 | 21.24 | 21.64 | 20.16          | 21.34 | 20.57 | 21.74 | 22.14 |
|                 | 4H   | 20.42            | 21.49 | 20.85 | 21.90 | 22.33 | 20.96          | 22.02 | 21.39 | 22.44 | 22.87 |
|                 | 6H   | 20.95            | 21.88 | 21.40 | 22.32 | 22.77 | 21.56          | 22.49 | 22.01 | 22.93 | 23.39 |
|                 | 8H   | 21.09            | 21.96 | 21.55 | 22.40 | 22.87 | 21.75          | 22.62 | 22.21 | 23.07 | 23.53 |
|                 | 12H  | 21.16            | 21.95 | 21.64 | 22.42 | 22.89 | 21.87          | 22.66 | 22.35 | 23.13 | 23.60 |
| 8H              | 4H   | 20.76            | 21.63 | 21.21 | 22.07 | 22.54 | 21.23          | 22.11 | 21.69 | 22.55 | 23.01 |
|                 | 6H   | 21.40            | 22.12 | 21.89 | 22.61 | 23.08 | 21.94          | 22.67 | 22.44 | 23.16 | 23.63 |
|                 | 8H   | 21.60            | 22.25 | 22.10 | 22.75 | 23.24 | 22.20          | 22.85 | 22.71 | 23.36 | 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            | 21.58 | 21.27 | 22.05 | 22.52 | 21.26          | 22.04 | 21.74 | 22.52 | 22.98 |
|                 | 6H   | 21.45            | 22.10 | 21.96 | 22.61 | 23.09 | 21.98          | 22.63 | 22.49 | 23.14 | 23.62 |
|                 | 8H   | 21.70            | 22.28 | 22.21 | 22.77 | 23.33 | 22.29          | 22.86 | 22.80 | 23.35 | 23.91 |