

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: P1584298

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

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584298  
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-43HE-L845-S  
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

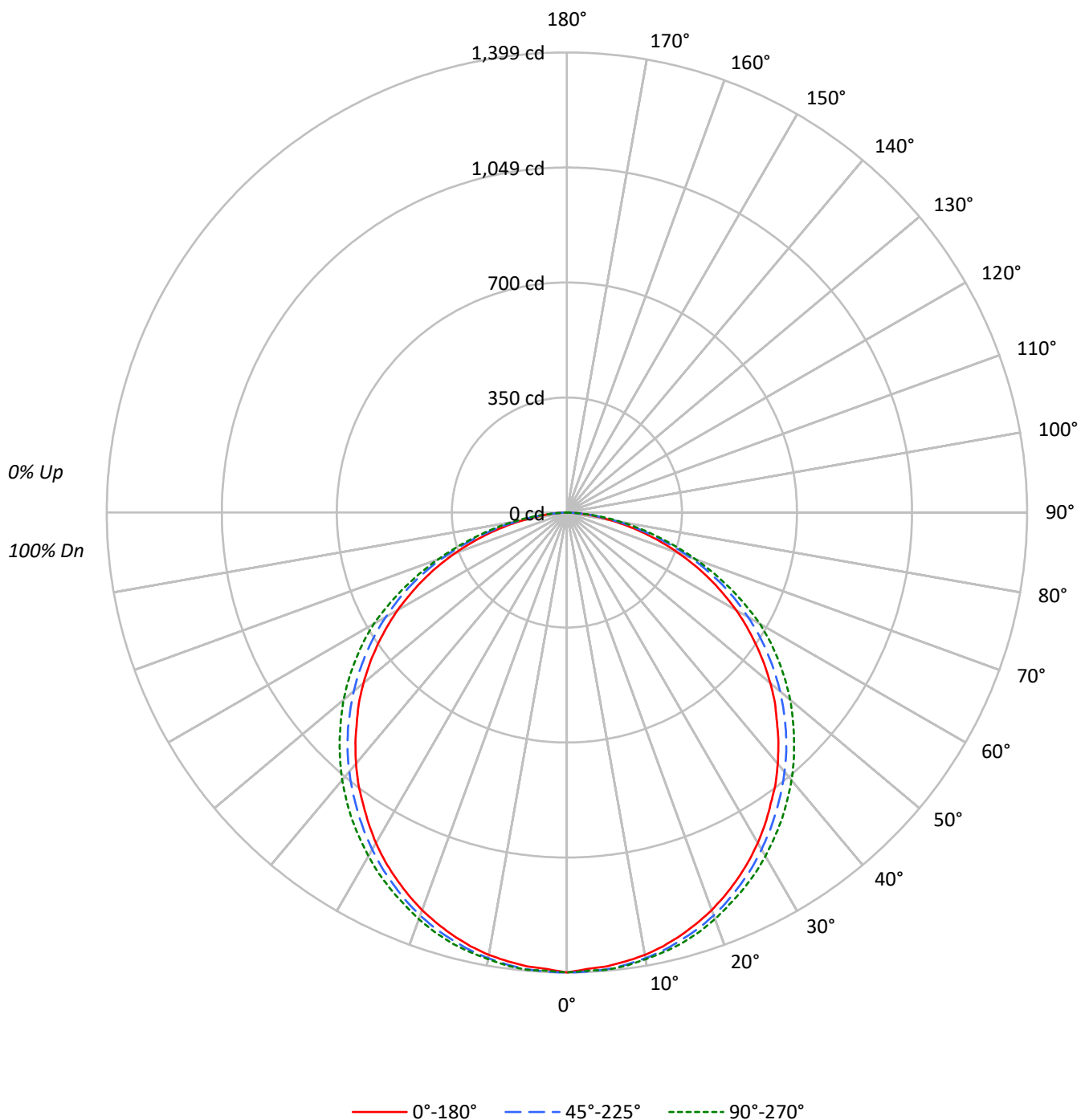
Lumens per Lamp: N/A  
Luminaire Lumens: 4044.0 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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  |
| 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°  | 4713 | 4713 | 4713 |
| 5°  | 4687 | 4718 | 4721 |
| 10° | 4674 | 4709 | 4719 |
| 15° | 4647 | 4695 | 4728 |
| 20° | 4615 | 4677 | 4719 |
| 25° | 4568 | 4641 | 4705 |
| 30° | 4516 | 4604 | 4695 |
| 35° | 4444 | 4564 | 4687 |
| 40° | 4385 | 4527 | 4674 |
| 45° | 4303 | 4487 | 4655 |
| 50° | 4231 | 4434 | 4646 |
| 55° | 4130 | 4371 | 4616 |
| 60° | 4004 | 4284 | 4569 |
| 65° | 3825 | 4167 | 4380 |
| 70° | 3565 | 3935 | 4111 |
| 75° | 3184 | 3549 | 3751 |
| 80° | 2610 | 2992 | 3279 |
| 85° | 1748 | 2184 | 2440 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4655 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 132.5  | 3.3       |
| 10°-20°   | 379.8  | 9.4       |
| 20°-30°   | 575.1  | 14.2      |
| 30°-40°   | 694.5  | 17.2      |
| 40°-50°   | 725.8  | 17.9      |
| 50°-60°   | 665.1  | 16.4      |
| 60°-70°   | 513.4  | 12.7      |
| 70°-80°   | 288.8  | 7.1       |
| 80°-90°   | 69.1   | 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°    | 1087.4 | 26.9      |
| 0°-40°    | 1781.9 | 44.1      |
| 0°-60°    | 3172.7 | 78.5      |
| 0°-90°    | 4044.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4044.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1399 | 1399  | 1399 | 1399  | 1399 |      |
| 5°  | 1386 | 1396  | 1395 | 1396  | 1396 | 132  |
| 15° | 1332 | 1343  | 1346 | 1351  | 1355 | 376  |
| 25° | 1229 | 1239  | 1248 | 1255  | 1266 | 566  |
| 35° | 1080 | 1094  | 1110 | 1124  | 1139 | 677  |
| 45° | 903  | 921   | 942  | 961   | 977  | 698  |
| 55° | 703  | 721   | 744  | 767   | 786  | 628  |
| 65° | 480  | 501   | 523  | 544   | 549  | 474  |
| 75° | 245  | 267   | 273  | 284   | 288  | 259  |
| 85° | 45   | 52    | 56   | 62    | 63   | 58   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1398.8 | 1398.8 | 1398.8 | 1398.8 | 1398.8 |
| 2.5°  | 1389.3 | 1400.0 | 1397.6 | 1401.2 | 1394.7 |
| 5°    | 1385.7 | 1395.8 | 1394.7 | 1395.8 | 1395.8 |
| 7.5°  | 1376.8 | 1387.5 | 1386.9 | 1388.7 | 1389.9 |
| 10°   | 1366.1 | 1376.2 | 1376.2 | 1378.0 | 1379.2 |
| 12.5° | 1351.2 | 1361.9 | 1363.1 | 1366.1 | 1368.5 |
| 15°   | 1332.2 | 1342.9 | 1345.8 | 1351.2 | 1355.4 |
| 17.5° | 1310.7 | 1322.0 | 1326.8 | 1332.2 | 1337.5 |
| 20°   | 1286.9 | 1297.0 | 1304.2 | 1308.3 | 1316.1 |
| 22.5° | 1258.9 | 1270.3 | 1278.0 | 1282.2 | 1290.5 |
| 25°   | 1228.6 | 1239.3 | 1248.2 | 1254.8 | 1265.5 |
| 27.5° | 1196.4 | 1207.2 | 1217.9 | 1225.6 | 1238.1 |
| 30°   | 1160.7 | 1172.0 | 1183.3 | 1195.2 | 1206.6 |
| 32.5° | 1122.0 | 1135.1 | 1147.6 | 1160.7 | 1173.2 |
| 35°   | 1080.4 | 1094.1 | 1109.5 | 1124.4 | 1139.3 |
| 37.5° | 1041.7 | 1054.2 | 1070.2 | 1086.3 | 1101.2 |
| 40°   | 997.0  | 1010.7 | 1029.2 | 1047.0 | 1062.5 |
| 42.5° | 951.8  | 966.7  | 986.9  | 1004.2 | 1020.8 |
| 45°   | 903.0  | 920.8  | 941.7  | 960.7  | 976.8  |
| 47.5° | 857.7  | 873.2  | 894.1  | 914.9  | 931.6  |
| 50°   | 807.2  | 824.4  | 845.8  | 867.9  | 886.3  |
| 52.5° | 756.0  | 773.8  | 795.8  | 817.9  | 836.9  |
| 55°   | 703.0  | 721.4  | 744.1  | 767.3  | 785.7  |
| 57.5° | 648.8  | 668.5  | 691.7  | 714.9  | 733.3  |
| 60°   | 594.1  | 613.7  | 635.7  | 661.3  | 678.0  |
| 62.5° | 536.9  | 558.9  | 579.8  | 603.6  | 613.7  |
| 65°   | 479.8  | 500.6  | 522.6  | 543.5  | 549.4  |
| 67.5° | 421.4  | 442.9  | 462.5  | 476.2  | 483.9  |
| 70°   | 361.9  | 385.1  | 399.4  | 412.5  | 417.3  |
| 72.5° | 303.0  | 326.2  | 334.5  | 347.0  | 351.8  |
| 75°   | 244.6  | 267.3  | 272.6  | 283.9  | 288.1  |
| 77.5° | 188.1  | 208.9  | 210.7  | 223.8  | 227.4  |
| 80°   | 134.5  | 151.2  | 154.2  | 166.7  | 169.0  |
| 82.5° | 86.3   | 98.2   | 102.4  | 113.1  | 116.7  |
| 85°   | 45.2   | 51.8   | 56.5   | 61.9   | 63.1   |
| 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 | 17.10            | 18.75 | 17.46 | 19.06 | 19.38 | 17.64          | 19.29 | 18.00 | 19.60 | 19.92 |
|                 | 3H   | 18.88            | 20.37 | 19.25 | 20.69 | 21.05 | 19.50          | 20.99 | 19.87 | 21.32 | 21.68 |
|                 | 4H   | 19.50            | 20.91 | 19.90 | 21.26 | 21.63 | 20.16          | 21.57 | 20.56 | 21.92 | 22.29 |
|                 | 6H   | 19.91            | 21.21 | 20.32 | 21.58 | 21.97 | 20.64          | 21.95 | 21.05 | 22.31 | 22.70 |
|                 | 8H   | 20.01            | 21.26 | 20.44 | 21.65 | 22.05 | 20.79          | 22.03 | 21.21 | 22.42 | 22.82 |
|                 | 12H  | 20.06            | 21.26 | 20.49 | 21.64 | 22.07 | 20.87          | 22.06 | 21.30 | 22.45 | 22.87 |
| 4H              | 2H   | 17.82            | 19.23 | 18.22 | 19.58 | 19.95 | 18.25          | 19.65 | 18.64 | 20.00 | 20.38 |
|                 | 3H   | 19.82            | 21.00 | 20.23 | 21.40 | 21.80 | 20.32          | 21.50 | 20.73 | 21.89 | 22.29 |
|                 | 4H   | 20.58            | 21.64 | 21.01 | 22.06 | 22.49 | 21.11          | 22.18 | 21.54 | 22.59 | 23.03 |
|                 | 6H   | 21.10            | 22.04 | 21.56 | 22.48 | 22.93 | 21.72          | 22.65 | 22.17 | 23.09 | 23.54 |
|                 | 8H   | 21.24            | 22.12 | 21.70 | 22.56 | 23.02 | 21.91          | 22.78 | 22.37 | 23.22 | 23.69 |
|                 | 12H  | 21.32            | 22.11 | 21.80 | 22.58 | 23.05 | 22.03          | 22.81 | 22.51 | 23.29 | 23.76 |
| 8H              | 4H   | 20.91            | 21.79 | 21.37 | 22.23 | 22.69 | 21.39          | 22.26 | 21.85 | 22.71 | 23.17 |
|                 | 6H   | 21.55            | 22.28 | 22.05 | 22.77 | 23.24 | 22.10          | 22.83 | 22.59 | 23.32 | 23.79 |
|                 | 8H   | 21.75            | 22.40 | 22.26 | 22.91 | 23.39 | 22.36          | 23.01 | 22.87 | 23.52 | 24.00 |
|                 | 12H  | 21.88            | 22.46 | 22.39 | 22.95 | 23.51 | 22.54          | 23.12 | 23.05 | 23.61 | 24.17 |
| 12H             | 4H   | 20.95            | 21.74 | 21.43 | 22.21 | 22.68 | 21.41          | 22.20 | 21.89 | 22.67 | 23.14 |
|                 | 6H   | 21.61            | 22.26 | 22.12 | 22.77 | 23.25 | 22.14          | 22.79 | 22.65 | 23.30 | 23.78 |
|                 | 8H   | 21.86            | 22.43 | 22.37 | 22.92 | 23.48 | 22.45          | 23.02 | 22.95 | 23.51 | 24.07 |