

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: P1584250

Luminaire Tested: 14CZSP-35-L950-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584250  
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-35-L950-S  
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 90CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

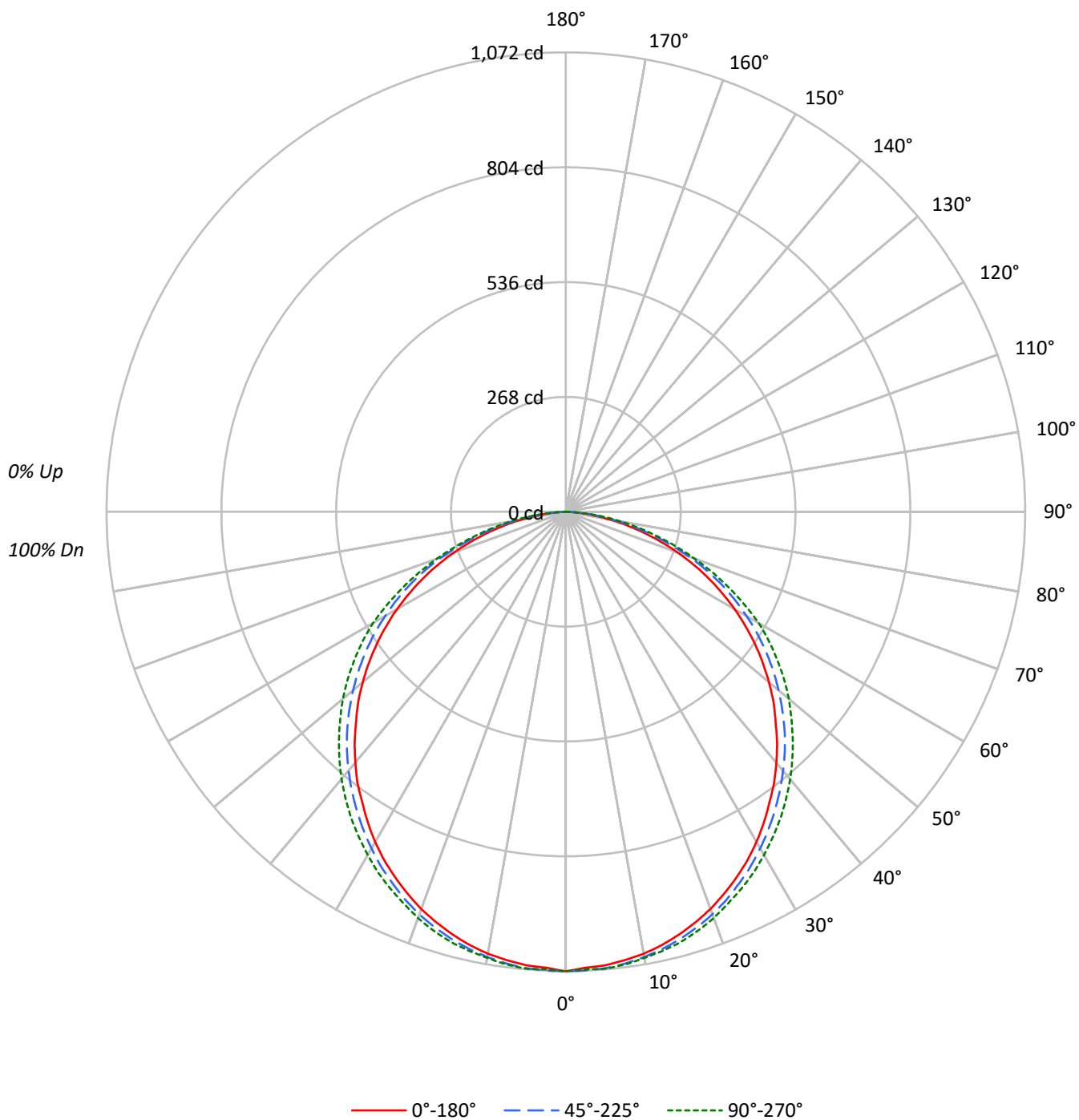
Lumens per Lamp: N/A  
Luminaire Lumens: 3100.0 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.2  
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°  | 3613 | 3613 | 3613 |
| 5°  | 3593 | 3616 | 3619 |
| 10° | 3583 | 3610 | 3617 |
| 15° | 3562 | 3599 | 3624 |
| 20° | 3537 | 3585 | 3618 |
| 25° | 3502 | 3558 | 3607 |
| 30° | 3462 | 3529 | 3599 |
| 35° | 3407 | 3499 | 3592 |
| 40° | 3362 | 3470 | 3583 |
| 45° | 3299 | 3440 | 3568 |
| 50° | 3243 | 3399 | 3562 |
| 55° | 3166 | 3351 | 3538 |
| 60° | 3069 | 3284 | 3502 |
| 65° | 2933 | 3194 | 3358 |
| 70° | 2733 | 3017 | 3152 |
| 75° | 2441 | 2721 | 2875 |
| 80° | 2001 | 2294 | 2515 |
| 85° | 1342 | 1674 | 1871 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3568 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.6  | 3.3       |
| 10°-20°   | 291.1  | 9.4       |
| 20°-30°   | 440.8  | 14.2      |
| 30°-40°   | 532.4  | 17.2      |
| 40°-50°   | 556.4  | 17.9      |
| 50°-60°   | 509.8  | 16.4      |
| 60°-70°   | 393.5  | 12.7      |
| 70°-80°   | 221.4  | 7.1       |
| 80°-90°   | 53.0   | 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°    | 833.6  | 26.9      |
| 0°-40°    | 1365.9 | 44.1      |
| 0°-60°    | 2432.1 | 78.5      |
| 0°-90°    | 3100.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3100.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1072 | 1072  | 1072 | 1072  | 1072 |      |
| 5°  | 1062 | 1070  | 1069 | 1070  | 1070 | 101  |
| 15° | 1021 | 1029  | 1032 | 1036  | 1039 | 288  |
| 25° | 942  | 950   | 957  | 962   | 970  | 434  |
| 35° | 828  | 839   | 850  | 862   | 873  | 519  |
| 45° | 692  | 706   | 722  | 736   | 749  | 535  |
| 55° | 539  | 553   | 570  | 588   | 602  | 481  |
| 65° | 368  | 384   | 401  | 417   | 421  | 363  |
| 75° | 188  | 205   | 209  | 218   | 221  | 199  |
| 85° | 35   | 40    | 43   | 48    | 48   | 45   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1072.3 | 1072.3 | 1072.3 | 1072.3 | 1072.3 |
| 2.5°  | 1065.0 | 1073.2 | 1071.4 | 1074.1 | 1069.1 |
| 5°    | 1062.3 | 1070.0 | 1069.1 | 1070.0 | 1070.0 |
| 7.5°  | 1055.4 | 1063.6 | 1063.2 | 1064.5 | 1065.4 |
| 10°   | 1047.2 | 1055.0 | 1055.0 | 1056.3 | 1057.2 |
| 12.5° | 1035.8 | 1044.0 | 1044.9 | 1047.2 | 1049.0 |
| 15°   | 1021.2 | 1029.4 | 1031.7 | 1035.8 | 1039.0 |
| 17.5° | 1004.8 | 1013.4 | 1017.1 | 1021.2 | 1025.3 |
| 20°   | 986.5  | 994.3  | 999.7  | 1002.9 | 1008.9 |
| 22.5° | 965.1  | 973.7  | 979.7  | 982.9  | 989.2  |
| 25°   | 941.8  | 950.0  | 956.9  | 961.9  | 970.1  |
| 27.5° | 917.2  | 925.4  | 933.6  | 939.5  | 949.1  |
| 30°   | 889.8  | 898.4  | 907.1  | 916.2  | 924.9  |
| 32.5° | 860.1  | 870.2  | 879.7  | 889.8  | 899.4  |
| 35°   | 828.2  | 838.7  | 850.5  | 861.9  | 873.3  |
| 37.5° | 798.5  | 808.1  | 820.4  | 832.7  | 844.1  |
| 40°   | 764.3  | 774.8  | 788.9  | 802.6  | 814.5  |
| 42.5° | 729.6  | 741.0  | 756.5  | 769.8  | 782.5  |
| 45°   | 692.2  | 705.9  | 721.9  | 736.5  | 748.8  |
| 47.5° | 657.5  | 669.4  | 685.4  | 701.3  | 714.1  |
| 50°   | 618.7  | 632.0  | 648.4  | 665.3  | 679.4  |
| 52.5° | 579.5  | 593.2  | 610.1  | 626.9  | 641.6  |
| 55°   | 538.9  | 553.0  | 570.4  | 588.2  | 602.3  |
| 57.5° | 497.4  | 512.4  | 530.2  | 548.0  | 562.2  |
| 60°   | 455.4  | 470.4  | 487.3  | 506.9  | 519.7  |
| 62.5° | 411.6  | 428.5  | 444.4  | 462.7  | 470.4  |
| 65°   | 367.8  | 383.7  | 400.6  | 416.6  | 421.2  |
| 67.5° | 323.1  | 339.5  | 354.5  | 365.0  | 371.0  |
| 70°   | 277.4  | 295.2  | 306.2  | 316.2  | 319.9  |
| 72.5° | 232.3  | 250.0  | 256.4  | 266.0  | 269.7  |
| 75°   | 187.5  | 204.9  | 209.0  | 217.7  | 220.8  |
| 77.5° | 144.2  | 160.2  | 161.5  | 171.6  | 174.3  |
| 80°   | 103.1  | 115.9  | 118.2  | 127.8  | 129.6  |
| 82.5° | 66.2   | 75.3   | 78.5   | 86.7   | 89.4   |
| 85°   | 34.7   | 39.7   | 43.3   | 47.5   | 48.4   |
| 87.5° | 11.4   | 14.1   | 11.9   | 12.3   | 11.4   |
| 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 | 16.18            | 17.83 | 16.54 | 18.14 | 18.45 | 16.72          | 18.37 | 17.08 | 18.68 | 18.99 |
|                 | 3H   | 17.95            | 19.44 | 18.33 | 19.77 | 20.13 | 18.57          | 20.07 | 18.95 | 20.39 | 20.75 |
|                 | 4H   | 18.58            | 19.98 | 18.98 | 20.33 | 20.71 | 19.24          | 20.65 | 19.64 | 21.00 | 21.37 |
|                 | 6H   | 18.99            | 20.29 | 19.40 | 20.65 | 21.05 | 19.72          | 21.02 | 20.13 | 21.39 | 21.78 |
|                 | 8H   | 19.09            | 20.34 | 19.51 | 20.72 | 21.12 | 19.86          | 21.11 | 20.29 | 21.50 | 21.90 |
|                 | 12H  | 19.14            | 20.33 | 19.57 | 20.72 | 21.14 | 19.95          | 21.14 | 20.38 | 21.52 | 21.95 |
| 4H              | 2H   | 16.90            | 18.31 | 17.30 | 18.65 | 19.03 | 17.32          | 18.73 | 17.72 | 19.08 | 19.45 |
|                 | 3H   | 18.89            | 20.07 | 19.30 | 20.47 | 20.87 | 19.39          | 20.57 | 19.80 | 20.97 | 21.37 |
|                 | 4H   | 19.65            | 20.72 | 20.08 | 21.13 | 21.57 | 20.19          | 21.26 | 20.62 | 21.67 | 22.11 |
|                 | 6H   | 20.18            | 21.11 | 20.63 | 21.55 | 22.01 | 20.79          | 21.73 | 21.25 | 22.17 | 22.62 |
|                 | 8H   | 20.32            | 21.19 | 20.78 | 21.63 | 22.10 | 20.98          | 21.86 | 21.44 | 22.30 | 22.76 |
|                 | 12H  | 20.40            | 21.18 | 20.88 | 21.66 | 22.13 | 21.10          | 21.89 | 21.58 | 22.37 | 22.83 |
| 8H              | 4H   | 19.99            | 20.86 | 20.45 | 21.30 | 21.77 | 20.47          | 21.34 | 20.93 | 21.78 | 22.25 |
|                 | 6H   | 20.63            | 21.36 | 21.12 | 21.84 | 22.32 | 21.18          | 21.90 | 21.67 | 22.39 | 22.87 |
|                 | 8H   | 20.83            | 21.48 | 21.34 | 21.99 | 22.47 | 21.44          | 22.09 | 21.94 | 22.59 | 23.08 |
|                 | 12H  | 20.96            | 21.53 | 21.46 | 22.02 | 22.58 | 21.62          | 22.19 | 22.12 | 22.68 | 23.24 |
| 12H             | 4H   | 20.03            | 20.81 | 20.51 | 21.29 | 21.76 | 20.49          | 21.28 | 20.97 | 21.75 | 22.22 |
|                 | 6H   | 20.68            | 21.34 | 21.19 | 21.84 | 22.33 | 21.22          | 21.87 | 21.72 | 22.37 | 22.86 |
|                 | 8H   | 20.94            | 21.51 | 21.44 | 22.00 | 22.56 | 21.52          | 22.10 | 22.03 | 22.59 | 23.15 |