

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: P1586590

Luminaire Tested: 22CZSP-A-33HE-L950-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586590  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-A-33HE-L950-S  
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 90CRI, Smooth Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

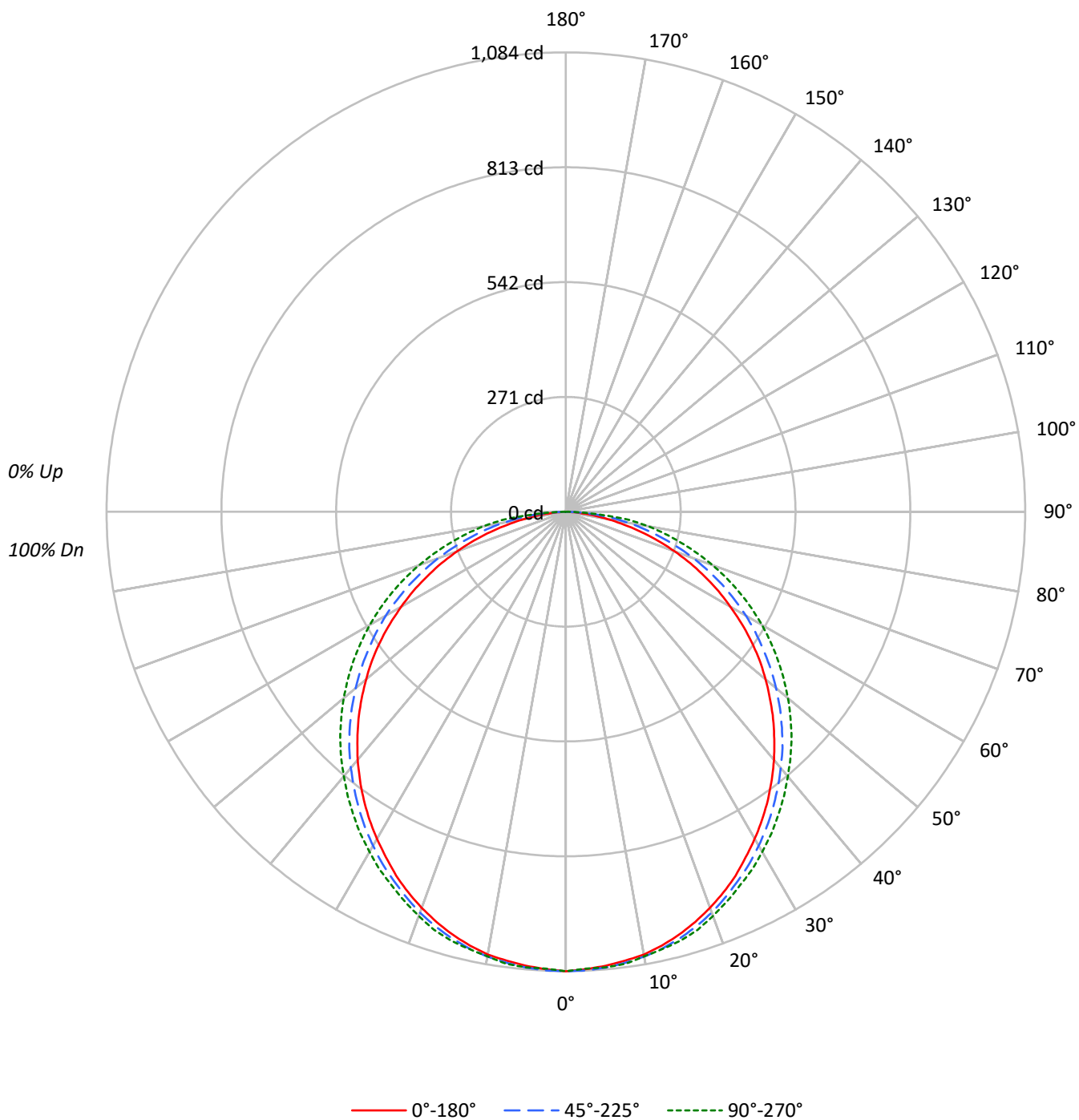
Lumens per Lamp: N/A  
Luminaire Lumens: 3166.0 lumens  
Efficiency: N/A  
Efficacy: 145.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.7  
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   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  |  | 93  | 90  | 88  |  | 89  | 87  | 85  | 83  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 72  |  | 78  | 74  | 71  | 69  |
| 3   | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 65  | 61  |  | 69  | 64  | 60  | 57  |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 52  |  | 63  | 57  | 52  |  | 61  | 56  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  |  | 57  | 50  | 45  |  | 55  | 49  | 44  | 42  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  |  | 51  | 44  | 39  |  | 50  | 44  | 39  | 37  |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  |  | 47  | 40  | 35  |  | 45  | 39  | 34  | 32  |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  | 35  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  |  | 37  | 30  | 25  |  | 36  | 30  | 25  | 23  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3396 | 3396 | 3396 |
| 5°  | 3380 | 3393 | 3391 |
| 10° | 3373 | 3389 | 3386 |
| 15° | 3349 | 3376 | 3396 |
| 20° | 3315 | 3354 | 3382 |
| 25° | 3274 | 3320 | 3360 |
| 30° | 3223 | 3291 | 3351 |
| 35° | 3176 | 3258 | 3341 |
| 40° | 3124 | 3226 | 3331 |
| 45° | 3064 | 3193 | 3335 |
| 50° | 2998 | 3154 | 3334 |
| 55° | 2920 | 3110 | 3337 |
| 60° | 2811 | 3076 | 3346 |
| 65° | 2681 | 3016 | 3356 |
| 70° | 2499 | 2932 | 3371 |
| 75° | 2227 | 2815 | 3405 |
| 80° | 1841 | 2681 | 3570 |
| 85° | 1196 | 2422 | 3119 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3682 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.6  | 3.2       |
| 10°-20°   | 293.7  | 9.3       |
| 20°-30°   | 442.9  | 14.0      |
| 30°-40°   | 533.5  | 16.8      |
| 40°-50°   | 557.1  | 17.6      |
| 50°-60°   | 511.7  | 16.2      |
| 60°-70°   | 403.0  | 12.7      |
| 70°-80°   | 247.2  | 7.8       |
| 80°-90°   | 74.4   | 2.3       |
| 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°    | 839.1  | 26.5      |
| 0°-40°    | 1372.6 | 43.4      |
| 0°-60°    | 2441.4 | 77.1      |
| 0°-90°    | 3166.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3166.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1084 | 1084  | 1084 | 1084  | 1084 |      |
| 5°  | 1075 | 1077  | 1080 | 1083  | 1079 | 102  |
| 15° | 1033 | 1035  | 1041 | 1048  | 1048 | 291  |
| 25° | 948  | 950   | 961  | 973   | 973  | 436  |
| 35° | 831  | 835   | 852  | 870   | 874  | 520  |
| 45° | 692  | 700   | 721  | 746   | 753  | 533  |
| 55° | 535  | 545   | 570  | 602   | 611  | 478  |
| 65° | 362  | 374   | 407  | 441   | 453  | 358  |
| 75° | 184  | 199   | 233  | 270   | 281  | 195  |
| 85° | 33   | 46    | 67   | 85    | 87   | 44   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1084.4 | 1084.4 | 1084.4 | 1084.4 | 1084.4 |
| 2.5°  | 1080.3 | 1082.4 | 1083.1 | 1083.7 | 1078.9 |
| 5°    | 1075.4 | 1076.8 | 1079.6 | 1083.1 | 1078.9 |
| 7.5°  | 1068.5 | 1069.9 | 1073.3 | 1078.2 | 1076.1 |
| 10°   | 1060.8 | 1061.5 | 1065.7 | 1069.2 | 1065.0 |
| 12.5° | 1048.3 | 1050.4 | 1055.3 | 1058.0 | 1056.7 |
| 15°   | 1033.0 | 1035.1 | 1041.4 | 1047.6 | 1047.6 |
| 17.5° | 1015.0 | 1017.7 | 1025.4 | 1033.7 | 1034.4 |
| 20°   | 994.8  | 996.9  | 1006.6 | 1015.0 | 1015.0 |
| 22.5° | 971.9  | 974.7  | 984.4  | 993.4  | 994.8  |
| 25°   | 947.6  | 949.7  | 960.8  | 972.6  | 972.6  |
| 27.5° | 919.1  | 923.3  | 937.2  | 949.0  | 951.8  |
| 30°   | 891.3  | 894.8  | 910.1  | 924.7  | 926.7  |
| 32.5° | 862.1  | 866.3  | 882.3  | 898.3  | 901.7  |
| 35°   | 830.9  | 835.0  | 852.4  | 869.8  | 873.9  |
| 37.5° | 798.2  | 803.1  | 821.1  | 841.3  | 845.5  |
| 40°   | 764.2  | 769.7  | 789.2  | 810.7  | 814.9  |
| 42.5° | 728.1  | 735.7  | 756.5  | 778.8  | 785.0  |
| 45°   | 691.9  | 699.6  | 721.1  | 746.1  | 753.1  |
| 47.5° | 653.7  | 662.8  | 685.0  | 711.4  | 719.0  |
| 50°   | 615.5  | 624.5  | 647.5  | 676.0  | 684.3  |
| 52.5° | 576.6  | 585.6  | 609.3  | 639.1  | 648.2  |
| 55°   | 534.9  | 544.7  | 569.7  | 601.6  | 611.3  |
| 57.5° | 491.9  | 504.4  | 530.8  | 563.4  | 573.1  |
| 60°   | 448.8  | 461.3  | 491.2  | 523.1  | 534.2  |
| 62.5° | 406.4  | 418.2  | 448.8  | 482.8  | 494.6  |
| 65°   | 361.9  | 374.4  | 407.1  | 441.1  | 452.9  |
| 67.5° | 318.2  | 330.7  | 363.3  | 398.8  | 411.3  |
| 70°   | 273.0  | 286.9  | 320.3  | 355.7  | 368.2  |
| 72.5° | 227.9  | 242.5  | 276.5  | 312.6  | 324.4  |
| 75°   | 184.1  | 198.7  | 232.7  | 269.5  | 281.4  |
| 77.5° | 141.0  | 157.0  | 190.4  | 227.9  | 239.0  |
| 80°   | 102.1  | 117.4  | 148.7  | 185.5  | 198.0  |
| 82.5° | 65.3   | 78.5   | 109.8  | 144.5  | 153.5  |
| 85°   | 33.3   | 45.9   | 67.4   | 85.4   | 86.8   |
| 87.5° | 10.4   | 14.6   | 22.2   | 33.3   | 34.0   |
| 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 | 15.73            | 17.39 | 16.09 | 17.70 | 18.02 | 16.56          | 18.22 | 16.92 | 18.53 | 18.85 |
|                 | 3H   | 17.48            | 18.99 | 17.86 | 19.31 | 19.67 | 18.67          | 20.18 | 19.05 | 20.51 | 20.87 |
|                 | 4H   | 18.10            | 19.52 | 18.50 | 19.87 | 20.24 | 19.56          | 20.98 | 19.96 | 21.33 | 21.71 |
|                 | 6H   | 18.51            | 19.83 | 18.92 | 20.19 | 20.59 | 20.34          | 21.66 | 20.75 | 22.03 | 22.42 |
|                 | 8H   | 18.62            | 19.88 | 19.04 | 20.27 | 20.67 | 20.66          | 21.92 | 21.09 | 22.31 | 22.71 |
|                 | 12H  | 18.67            | 19.88 | 19.10 | 20.26 | 20.69 | 20.87          | 22.08 | 21.30 | 22.47 | 22.89 |
| 4H              | 2H   | 16.50            | 17.92 | 16.90 | 18.27 | 18.64 | 17.14          | 18.57 | 17.54 | 18.91 | 19.29 |
|                 | 3H   | 18.47            | 19.67 | 18.88 | 20.07 | 20.47 | 19.50          | 20.70 | 19.91 | 21.09 | 21.49 |
|                 | 4H   | 19.21            | 20.30 | 19.64 | 20.71 | 21.15 | 20.55          | 21.64 | 20.98 | 22.05 | 22.48 |
|                 | 6H   | 19.74            | 20.69 | 20.19 | 21.13 | 21.59 | 21.50          | 22.46 | 21.96 | 22.90 | 23.35 |
|                 | 8H   | 19.89            | 20.78 | 20.35 | 21.22 | 21.68 | 21.90          | 22.79 | 22.36 | 23.23 | 23.70 |
|                 | 12H  | 19.97            | 20.77 | 20.45 | 21.25 | 21.72 | 22.18          | 22.98 | 22.66 | 23.45 | 23.92 |
| 8H              | 4H   | 19.67            | 20.56 | 20.13 | 21.00 | 21.47 | 20.84          | 21.73 | 21.30 | 22.17 | 22.64 |
|                 | 6H   | 20.33            | 21.08 | 20.82 | 21.56 | 22.04 | 21.95          | 22.70 | 22.44 | 23.18 | 23.66 |
|                 | 8H   | 20.54            | 21.21 | 21.05 | 21.72 | 22.20 | 22.46          | 23.13 | 22.97 | 23.64 | 24.12 |
|                 | 12H  | 20.68            | 21.27 | 21.19 | 21.76 | 22.32 | 22.85          | 23.44 | 23.35 | 23.93 | 24.49 |
| 12H             | 4H   | 19.76            | 20.56 | 20.24 | 21.04 | 21.51 | 20.86          | 21.67 | 21.34 | 22.14 | 22.61 |
|                 | 6H   | 20.46            | 21.13 | 20.97 | 21.64 | 22.12 | 22.00          | 22.67 | 22.51 | 23.17 | 23.66 |
|                 | 8H   | 20.74            | 21.33 | 21.25 | 21.82 | 22.38 | 22.58          | 23.17 | 23.08 | 23.66 | 24.22 |