

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: P1586664

Luminaire Tested: 22CZSP-A-43HE-L935-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586664  
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-43HE-L935-S  
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

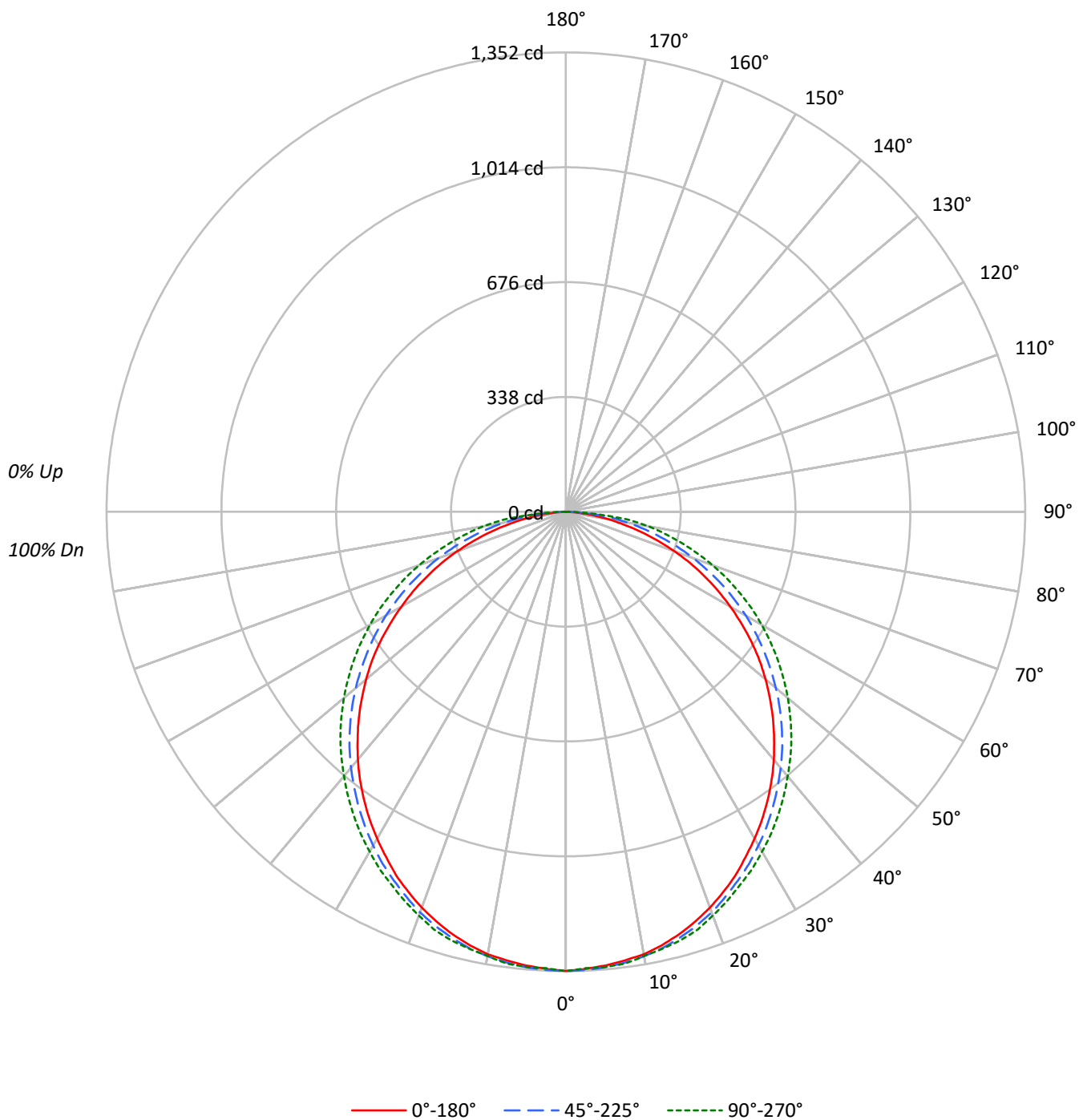
Lumens per Lamp: N/A  
Luminaire Lumens: 3946.0 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.2  
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  |
| 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   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  |  | 93  | 90  | 88  |  | 89  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 72  |  | 78  |
| 3   | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 65  | 61  |  | 69  |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 52  |  | 63  | 57  | 52  |  | 61  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  |  | 57  | 50  | 45  |  | 55  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  |  | 51  | 44  | 39  |  | 50  |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  |  | 47  | 40  | 35  |  | 45  |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  |  | 37  | 30  | 25  |  | 36  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4232 | 4232 | 4232 |
| 5°  | 4213 | 4229 | 4227 |
| 10° | 4204 | 4223 | 4221 |
| 15° | 4174 | 4208 | 4233 |
| 20° | 4132 | 4181 | 4215 |
| 25° | 4080 | 4137 | 4188 |
| 30° | 4017 | 4101 | 4177 |
| 35° | 3959 | 4061 | 4164 |
| 40° | 3893 | 4021 | 4152 |
| 45° | 3819 | 3980 | 4156 |
| 50° | 3737 | 3931 | 4155 |
| 55° | 3640 | 3876 | 4160 |
| 60° | 3503 | 3834 | 4170 |
| 65° | 3342 | 3760 | 4183 |
| 70° | 3116 | 3655 | 4201 |
| 75° | 2777 | 3510 | 4243 |
| 80° | 2296 | 3341 | 4450 |
| 85° | 1495 | 3018 | 3887 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4592 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.8  | 3.2       |
| 10°-20°   | 366.0  | 9.3       |
| 20°-30°   | 552.0  | 14.0      |
| 30°-40°   | 664.9  | 16.8      |
| 40°-50°   | 694.4  | 17.6      |
| 50°-60°   | 637.7  | 16.2      |
| 60°-70°   | 502.3  | 12.7      |
| 70°-80°   | 308.1  | 7.8       |
| 80°-90°   | 92.7   | 2.4       |
| 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°    | 1045.9 | 26.5      |
| 0°-40°    | 1710.8 | 43.4      |
| 0°-60°    | 3042.8 | 77.1      |
| 0°-90°    | 3946.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3946.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1352 | 1352  | 1352 | 1352  | 1352 |      |
| 5°  | 1340 | 1342  | 1346 | 1350  | 1345 | 127  |
| 15° | 1288 | 1290  | 1298 | 1306  | 1306 | 363  |
| 25° | 1181 | 1184  | 1198 | 1212  | 1212 | 544  |
| 35° | 1036 | 1041  | 1062 | 1084  | 1089 | 648  |
| 45° | 862  | 872   | 899  | 930   | 939  | 665  |
| 55° | 667  | 679   | 710  | 750   | 762  | 595  |
| 65° | 451  | 467   | 507  | 550   | 564  | 446  |
| 75° | 230  | 248   | 290  | 336   | 351  | 243  |
| 85° | 42   | 57    | 84   | 106   | 108  | 54   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 |
| 2.5°  | 1346.4 | 1349.0 | 1349.9 | 1350.7 | 1344.7 |
| 5°    | 1340.4 | 1342.1 | 1345.5 | 1349.9 | 1344.7 |
| 7.5°  | 1331.7 | 1333.4 | 1337.8 | 1343.8 | 1341.2 |
| 10°   | 1322.2 | 1323.0 | 1328.2 | 1332.6 | 1327.4 |
| 12.5° | 1306.6 | 1309.2 | 1315.2 | 1318.7 | 1317.0 |
| 15°   | 1287.5 | 1290.1 | 1297.9 | 1305.7 | 1305.7 |
| 17.5° | 1265.0 | 1268.5 | 1278.0 | 1288.4 | 1289.3 |
| 20°   | 1239.9 | 1242.5 | 1254.6 | 1265.0 | 1265.0 |
| 22.5° | 1211.3 | 1214.8 | 1226.9 | 1238.2 | 1239.9 |
| 25°   | 1181.0 | 1183.6 | 1197.5 | 1212.2 | 1212.2 |
| 27.5° | 1145.5 | 1150.7 | 1168.0 | 1182.8 | 1186.2 |
| 30°   | 1110.9 | 1115.2 | 1134.3 | 1152.5 | 1155.1 |
| 32.5° | 1074.5 | 1079.7 | 1099.6 | 1119.6 | 1123.9 |
| 35°   | 1035.6 | 1040.8 | 1062.4 | 1084.1 | 1089.3 |
| 37.5° | 994.9  | 1000.9 | 1023.4 | 1048.6 | 1053.8 |
| 40°   | 952.4  | 959.4  | 983.6  | 1010.5 | 1015.7 |
| 42.5° | 907.4  | 916.9  | 942.9  | 970.6  | 978.4  |
| 45°   | 862.4  | 871.9  | 898.8  | 929.9  | 938.6  |
| 47.5° | 814.8  | 826.0  | 853.7  | 886.6  | 896.2  |
| 50°   | 767.2  | 778.4  | 807.0  | 842.5  | 852.9  |
| 52.5° | 718.7  | 729.9  | 759.4  | 796.6  | 807.8  |
| 55°   | 666.7  | 678.8  | 710.0  | 749.8  | 762.0  |
| 57.5° | 613.0  | 628.6  | 661.5  | 702.2  | 714.3  |
| 60°   | 559.3  | 574.9  | 612.2  | 652.0  | 665.8  |
| 62.5° | 506.5  | 521.2  | 559.3  | 601.8  | 616.5  |
| 65°   | 451.1  | 466.7  | 507.4  | 549.8  | 564.5  |
| 67.5° | 396.6  | 412.2  | 452.8  | 497.0  | 512.6  |
| 70°   | 340.3  | 357.6  | 399.2  | 443.3  | 458.9  |
| 72.5° | 284.0  | 302.2  | 344.6  | 389.6  | 404.4  |
| 75°   | 229.5  | 247.6  | 290.1  | 336.0  | 350.7  |
| 77.5° | 175.8  | 195.7  | 237.2  | 284.0  | 297.9  |
| 80°   | 127.3  | 146.3  | 185.3  | 231.2  | 246.8  |
| 82.5° | 81.4   | 97.8   | 136.8  | 180.1  | 191.4  |
| 85°   | 41.6   | 57.1   | 84.0   | 106.5  | 108.2  |
| 87.5° | 13.0   | 18.2   | 27.7   | 41.6   | 42.4   |
| 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 | 16.49            | 18.15 | 16.86 | 18.47 | 18.78 | 17.32          | 18.98 | 17.69 | 19.30 | 19.61 |
|                 | 3H   | 18.25            | 19.75 | 18.62 | 20.08 | 20.44 | 19.44          | 20.94 | 19.81 | 21.27 | 21.63 |
|                 | 4H   | 18.87            | 20.29 | 19.26 | 20.63 | 21.01 | 20.33          | 21.75 | 20.72 | 22.10 | 22.47 |
|                 | 6H   | 19.28            | 20.60 | 19.69 | 20.96 | 21.35 | 21.11          | 22.43 | 21.52 | 22.79 | 23.18 |
|                 | 8H   | 19.38            | 20.65 | 19.81 | 21.03 | 21.43 | 21.43          | 22.69 | 21.85 | 23.08 | 23.48 |
|                 | 12H  | 19.44            | 20.65 | 19.86 | 21.03 | 21.46 | 21.64          | 22.85 | 22.07 | 23.23 | 23.66 |
| 4H              | 2H   | 17.26            | 18.68 | 17.66 | 19.03 | 19.41 | 17.91          | 19.33 | 18.31 | 19.68 | 20.05 |
|                 | 3H   | 19.24            | 20.44 | 19.65 | 20.83 | 21.23 | 20.26          | 21.46 | 20.67 | 21.86 | 22.26 |
|                 | 4H   | 19.98            | 21.06 | 20.41 | 21.48 | 21.91 | 21.32          | 22.40 | 21.75 | 22.81 | 23.25 |
|                 | 6H   | 20.51            | 21.46 | 20.96 | 21.90 | 22.35 | 22.27          | 23.22 | 22.72 | 23.66 | 24.11 |
|                 | 8H   | 20.65            | 21.54 | 21.11 | 21.98 | 22.45 | 22.67          | 23.56 | 23.12 | 24.00 | 24.46 |
|                 | 12H  | 20.74            | 21.54 | 21.21 | 22.01 | 22.48 | 22.94          | 23.75 | 23.42 | 24.22 | 24.69 |
| 8H              | 4H   | 20.44            | 21.33 | 20.89 | 21.77 | 22.23 | 21.61          | 22.50 | 22.06 | 22.94 | 23.40 |
|                 | 6H   | 21.10            | 21.84 | 21.59 | 22.33 | 22.80 | 22.72          | 23.46 | 23.21 | 23.95 | 24.42 |
|                 | 8H   | 21.31            | 21.98 | 21.81 | 22.48 | 22.97 | 23.23          | 23.90 | 23.74 | 24.40 | 24.89 |
|                 | 12H  | 21.45            | 22.04 | 21.95 | 22.53 | 23.09 | 23.61          | 24.21 | 24.12 | 24.70 | 25.25 |
| 12H             | 4H   | 20.53            | 21.33 | 21.00 | 21.80 | 22.27 | 21.63          | 22.43 | 22.11 | 22.91 | 23.38 |
|                 | 6H   | 21.23            | 21.90 | 21.74 | 22.40 | 22.89 | 22.76          | 23.43 | 23.27 | 23.94 | 24.42 |
|                 | 8H   | 21.51            | 22.10 | 22.01 | 22.59 | 23.15 | 23.34          | 23.93 | 23.85 | 24.42 | 24.98 |