

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: P1586647

Luminaire Tested: 22CZSP-A-42-L940

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-A-42-L940  
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Ribbed Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

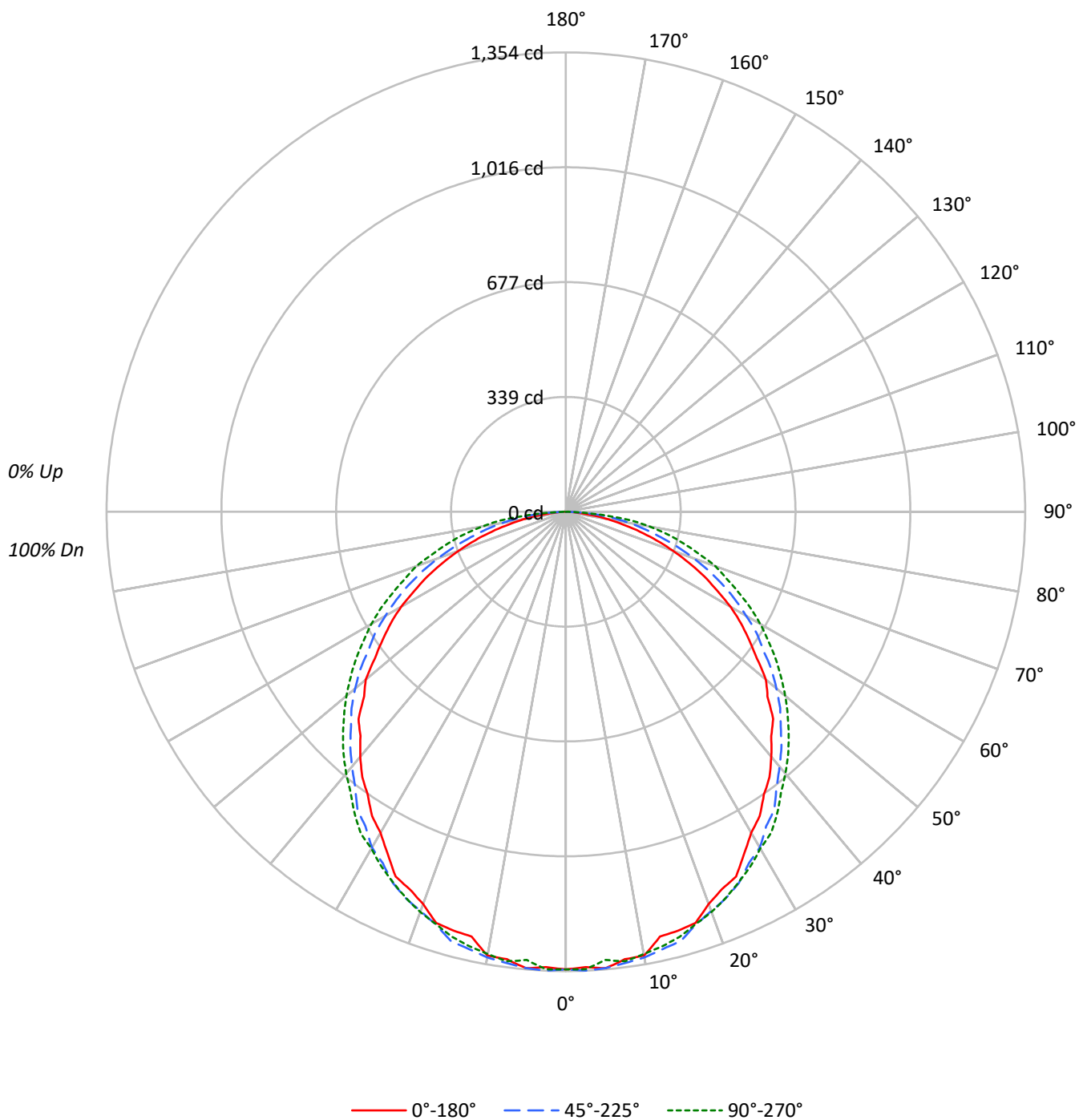
Lumens per Lamp: N/A  
Luminaire Lumens: 3938.0 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

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   | 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  | 63  | 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  | 31  | 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°  | 4224 | 4224 | 4224 |
| 5°  | 4245 | 4245 | 4168 |
| 10° | 4224 | 4240 | 4209 |
| 15° | 4144 | 4244 | 4204 |
| 20° | 4100 | 4173 | 4184 |
| 25° | 4100 | 4170 | 4164 |
| 30° | 3951 | 4133 | 4145 |
| 35° | 3891 | 4093 | 4151 |
| 40° | 3852 | 4006 | 4116 |
| 45° | 3827 | 3965 | 4113 |
| 50° | 3752 | 3948 | 4112 |
| 55° | 3599 | 3874 | 4122 |
| 60° | 3513 | 3845 | 4145 |
| 65° | 3335 | 3790 | 4157 |
| 70° | 3075 | 3668 | 4298 |
| 75° | 2733 | 3505 | 4339 |
| 80° | 2272 | 3437 | 4497 |
| 85° | 1387 | 3079 | 3801 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4654 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.9  | 3.2       |
| 10°-20°   | 365.5  | 9.3       |
| 20°-30°   | 551.3  | 14.0      |
| 30°-40°   | 662.1  | 16.8      |
| 40°-50°   | 691.1  | 17.6      |
| 50°-60°   | 636.4  | 16.2      |
| 60°-70°   | 502.5  | 12.8      |
| 70°-80°   | 309.5  | 7.9       |
| 80°-90°   | 91.8   | 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°    | 1044.6 | 26.5      |
| 0°-40°    | 1706.7 | 43.3      |
| 0°-60°    | 3034.3 | 77.1      |
| 0°-90°    | 3938.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3938.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1349 | 1349  | 1349 | 1349  | 1349 |      |
| 5°  | 1350 | 1337  | 1350 | 1352  | 1326 | 128  |
| 15° | 1278 | 1296  | 1309 | 1303  | 1297 | 361  |
| 25° | 1187 | 1195  | 1207 | 1202  | 1205 | 541  |
| 35° | 1018 | 1036  | 1071 | 1076  | 1086 | 640  |
| 45° | 864  | 871   | 895  | 915   | 929  | 661  |
| 55° | 659  | 677   | 710  | 742   | 755  | 592  |
| 65° | 450  | 466   | 512  | 548   | 561  | 443  |
| 75° | 226  | 248   | 290  | 336   | 359  | 240  |
| 85° | 39   | 55    | 86   | 102   | 106  | 52   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1348.8 | 1348.8 | 1348.8 | 1348.8 | 1348.8 |
| 2.5°  | 1343.7 | 1358.0 | 1353.8 | 1356.3 | 1349.6 |
| 5°    | 1350.4 | 1337.0 | 1350.4 | 1352.1 | 1326.1 |
| 7.5°  | 1330.3 | 1332.0 | 1341.2 | 1343.7 | 1336.2 |
| 10°   | 1328.6 | 1333.6 | 1333.6 | 1325.2 | 1323.6 |
| 12.5° | 1282.4 | 1307.6 | 1320.2 | 1326.1 | 1311.8 |
| 15°   | 1278.2 | 1295.9 | 1309.3 | 1303.4 | 1296.7 |
| 17.5° | 1270.7 | 1265.6 | 1274.9 | 1281.6 | 1274.0 |
| 20°   | 1230.3 | 1238.7 | 1252.2 | 1253.9 | 1255.5 |
| 22.5° | 1203.5 | 1206.0 | 1232.9 | 1235.4 | 1232.0 |
| 25°   | 1186.7 | 1195.1 | 1206.8 | 1201.8 | 1205.2 |
| 27.5° | 1137.1 | 1157.3 | 1168.2 | 1178.3 | 1178.3 |
| 30°   | 1092.6 | 1116.1 | 1143.0 | 1146.4 | 1146.4 |
| 32.5° | 1063.2 | 1079.2 | 1099.3 | 1106.1 | 1124.5 |
| 35°   | 1017.9 | 1036.3 | 1070.8 | 1075.8 | 1085.9 |
| 37.5° | 986.0  | 1004.4 | 1020.4 | 1038.0 | 1042.2 |
| 40°   | 942.3  | 961.6  | 980.1  | 1000.2 | 1007.0 |
| 42.5° | 896.1  | 916.3  | 940.6  | 961.6  | 970.0  |
| 45°   | 864.2  | 870.9  | 895.3  | 914.6  | 928.8  |
| 47.5° | 806.2  | 825.6  | 856.6  | 881.0  | 886.9  |
| 50°   | 770.1  | 777.7  | 810.4  | 843.2  | 844.0  |
| 52.5° | 709.7  | 732.3  | 764.2  | 795.3  | 799.5  |
| 55°   | 659.3  | 676.9  | 709.7  | 741.6  | 755.0  |
| 57.5° | 612.2  | 625.7  | 667.7  | 699.6  | 707.1  |
| 60°   | 561.0  | 575.3  | 613.9  | 650.9  | 661.8  |
| 62.5° | 501.4  | 521.5  | 563.5  | 598.8  | 613.9  |
| 65°   | 450.1  | 466.1  | 511.5  | 548.4  | 561.0  |
| 67.5° | 392.2  | 414.0  | 456.9  | 498.0  | 511.5  |
| 70°   | 335.9  | 357.8  | 400.6  | 443.4  | 469.5  |
| 72.5° | 280.5  | 303.2  | 346.0  | 395.6  | 409.8  |
| 75°   | 225.9  | 247.7  | 289.7  | 335.9  | 358.6  |
| 77.5° | 172.2  | 195.7  | 238.5  | 284.7  | 306.5  |
| 80°   | 126.0  | 144.5  | 190.6  | 231.0  | 249.4  |
| 82.5° | 78.1   | 97.4   | 140.3  | 178.0  | 194.0  |
| 85°   | 38.6   | 55.4   | 85.7   | 101.6  | 105.8  |
| 87.5° | 11.8   | 17.6   | 26.9   | 35.3   | 40.3   |
| 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 | 16.47            | 18.13 | 16.84 | 18.45 | 18.76 | 17.29          | 18.96 | 17.66 | 19.27 | 19.59 |
|                 | 3H   | 18.23            | 19.73 | 18.60 | 20.06 | 20.42 | 19.44          | 20.95 | 19.82 | 21.28 | 21.64 |
|                 | 4H   | 18.84            | 20.26 | 19.24 | 20.61 | 20.98 | 20.36          | 21.78 | 20.75 | 22.13 | 22.50 |
|                 | 6H   | 19.24            | 20.56 | 19.65 | 20.93 | 21.32 | 21.16          | 22.48 | 21.57 | 22.84 | 23.23 |
|                 | 8H   | 19.34            | 20.61 | 19.77 | 21.00 | 21.39 | 21.48          | 22.74 | 21.90 | 23.13 | 23.53 |
|                 | 12H  | 19.39            | 20.60 | 19.82 | 20.98 | 21.41 | 21.68          | 22.90 | 22.11 | 23.28 | 23.71 |
| 4H              | 2H   | 17.26            | 18.69 | 17.66 | 19.03 | 19.41 | 17.90          | 19.32 | 18.30 | 19.67 | 20.05 |
|                 | 3H   | 19.24            | 20.44 | 19.65 | 20.83 | 21.23 | 20.28          | 21.48 | 20.69 | 21.88 | 22.27 |
|                 | 4H   | 19.97            | 21.06 | 20.40 | 21.47 | 21.90 | 21.35          | 22.43 | 21.78 | 22.85 | 23.28 |
|                 | 6H   | 20.49            | 21.44 | 20.94 | 21.88 | 22.33 | 22.31          | 23.27 | 22.77 | 23.71 | 24.16 |
|                 | 8H   | 20.63            | 21.52 | 21.09 | 21.96 | 22.43 | 22.71          | 23.60 | 23.17 | 24.05 | 24.51 |
|                 | 12H  | 20.70            | 21.51 | 21.18 | 21.98 | 22.45 | 22.98          | 23.78 | 23.46 | 24.26 | 24.73 |
| 8H              | 4H   | 20.43            | 21.33 | 20.89 | 21.77 | 22.23 | 21.64          | 22.53 | 22.09 | 22.97 | 23.43 |
|                 | 6H   | 21.09            | 21.83 | 21.58 | 22.32 | 22.79 | 22.76          | 23.51 | 23.25 | 23.99 | 24.47 |
|                 | 8H   | 21.29            | 21.96 | 21.80 | 22.47 | 22.95 | 23.27          | 23.94 | 23.78 | 24.44 | 24.93 |
|                 | 12H  | 21.42            | 22.02 | 21.93 | 22.50 | 23.06 | 23.64          | 24.23 | 24.14 | 24.72 | 25.28 |
| 12H             | 4H   | 20.53            | 21.33 | 21.00 | 21.80 | 22.27 | 21.66          | 22.46 | 22.14 | 22.94 | 23.41 |
|                 | 6H   | 21.23            | 21.90 | 21.73 | 22.40 | 22.89 | 22.81          | 23.48 | 23.32 | 23.99 | 24.47 |
|                 | 8H   | 21.50            | 22.09 | 22.01 | 22.58 | 23.14 | 23.38          | 23.98 | 23.89 | 24.47 | 25.02 |