

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: P1584284

Luminaire Tested: 14CZSP-42-L935-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584284  
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-42-L935-S  
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

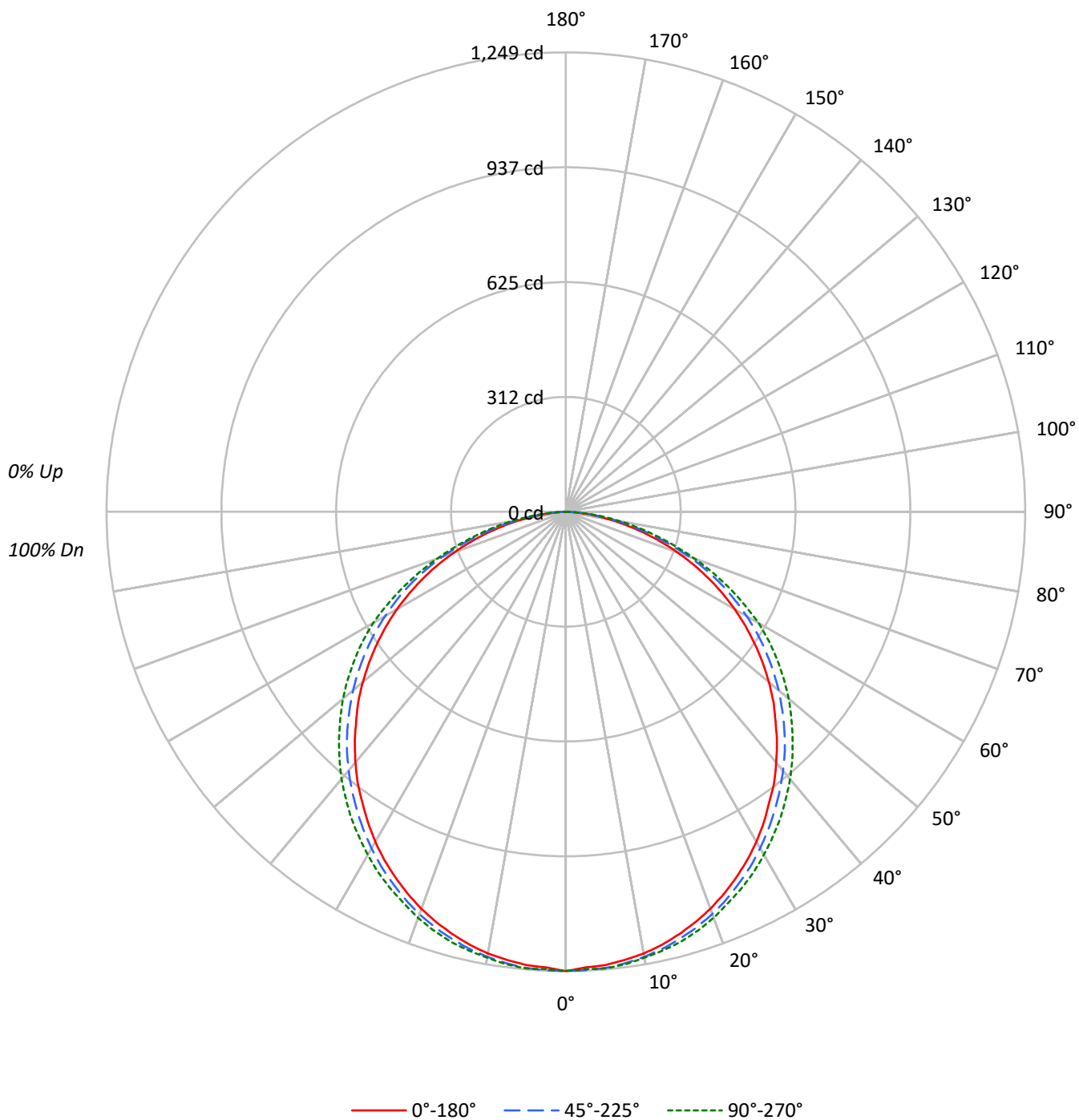
Lumens per Lamp: N/A  
Luminaire Lumens: 3610.0 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.5  
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°  | 4208 | 4208 | 4208 |
| 5°  | 4184 | 4211 | 4215 |
| 10° | 4173 | 4203 | 4213 |
| 15° | 4148 | 4191 | 4221 |
| 20° | 4119 | 4175 | 4213 |
| 25° | 4077 | 4143 | 4200 |
| 30° | 4032 | 4110 | 4191 |
| 35° | 3967 | 4074 | 4183 |
| 40° | 3915 | 4041 | 4172 |
| 45° | 3841 | 4006 | 4155 |
| 50° | 3777 | 3958 | 4148 |
| 55° | 3686 | 3902 | 4121 |
| 60° | 3574 | 3824 | 4079 |
| 65° | 3415 | 3719 | 3910 |
| 70° | 3183 | 3512 | 3670 |
| 75° | 2843 | 3169 | 3348 |
| 80° | 2330 | 2670 | 2928 |
| 85° | 1562 | 1952 | 2177 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4155 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 118.3  | 3.3       |
| 10°-20°   | 339.0  | 9.4       |
| 20°-30°   | 513.4  | 14.2      |
| 30°-40°   | 620.0  | 17.2      |
| 40°-50°   | 647.9  | 17.9      |
| 50°-60°   | 593.7  | 16.4      |
| 60°-70°   | 458.3  | 12.7      |
| 70°-80°   | 257.8  | 7.1       |
| 80°-90°   | 61.7   | 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°    | 970.7  | 26.9      |
| 0°-40°    | 1590.6 | 44.1      |
| 0°-60°    | 2832.2 | 78.5      |
| 0°-90°    | 3610.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3610.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1249 | 1249  | 1249 | 1249  | 1249 |      |
| 5°  | 1237 | 1246  | 1245 | 1246  | 1246 | 118  |
| 15° | 1189 | 1199  | 1201 | 1206  | 1210 | 336  |
| 25° | 1097 | 1106  | 1114 | 1120  | 1130 | 505  |
| 35° | 964  | 977   | 990  | 1004  | 1017 | 604  |
| 45° | 806  | 822   | 841  | 858   | 872  | 623  |
| 55° | 628  | 644   | 664  | 685   | 701  | 561  |
| 65° | 428  | 447   | 466  | 485   | 490  | 423  |
| 75° | 218  | 239   | 243  | 254   | 257  | 232  |
| 85° | 40   | 46    | 50   | 55    | 56   | 52   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1248.7 | 1248.7 | 1248.7 | 1248.7 | 1248.7 |
| 2.5°  | 1240.2 | 1249.8 | 1247.6 | 1250.8 | 1245.0 |
| 5°    | 1237.0 | 1246.0 | 1245.0 | 1246.0 | 1246.0 |
| 7.5°  | 1229.0 | 1238.6 | 1238.1 | 1239.7 | 1240.7 |
| 10°   | 1219.5 | 1228.5 | 1228.5 | 1230.1 | 1231.2 |
| 12.5° | 1206.2 | 1215.8 | 1216.8 | 1219.5 | 1221.6 |
| 15°   | 1189.2 | 1198.8 | 1201.4 | 1206.2 | 1209.9 |
| 17.5° | 1170.1 | 1180.2 | 1184.4 | 1189.2 | 1194.0 |
| 20°   | 1148.8 | 1157.8 | 1164.2 | 1167.9 | 1174.8 |
| 22.5° | 1123.8 | 1133.9 | 1140.8 | 1144.6 | 1152.0 |
| 25°   | 1096.7 | 1106.3 | 1114.3 | 1120.1 | 1129.7 |
| 27.5° | 1068.0 | 1077.6 | 1087.2 | 1094.1 | 1105.2 |
| 30°   | 1036.2 | 1046.3 | 1056.3 | 1067.0 | 1077.1 |
| 32.5° | 1001.6 | 1013.3 | 1024.5 | 1036.2 | 1047.3 |
| 35°   | 964.4  | 976.6  | 990.5  | 1003.7 | 1017.0 |
| 37.5° | 929.9  | 941.0  | 955.4  | 969.7  | 983.0  |
| 40°   | 890.0  | 902.3  | 918.7  | 934.7  | 948.5  |
| 42.5° | 849.6  | 862.9  | 881.0  | 896.4  | 911.3  |
| 45°   | 806.1  | 822.0  | 840.6  | 857.6  | 872.0  |
| 47.5° | 765.7  | 779.5  | 798.1  | 816.7  | 831.6  |
| 50°   | 720.5  | 735.9  | 755.1  | 774.7  | 791.2  |
| 52.5° | 674.8  | 690.8  | 710.4  | 730.1  | 747.1  |
| 55°   | 627.5  | 644.0  | 664.2  | 684.9  | 701.4  |
| 57.5° | 579.2  | 596.7  | 617.4  | 638.2  | 654.6  |
| 60°   | 530.3  | 547.8  | 567.5  | 590.3  | 605.2  |
| 62.5° | 479.3  | 498.9  | 517.5  | 538.8  | 547.8  |
| 65°   | 428.3  | 446.9  | 466.5  | 485.1  | 490.4  |
| 67.5° | 376.2  | 395.3  | 412.9  | 425.1  | 432.0  |
| 70°   | 323.1  | 343.8  | 356.5  | 368.2  | 372.5  |
| 72.5° | 270.5  | 291.2  | 298.6  | 309.8  | 314.0  |
| 75°   | 218.4  | 238.6  | 243.4  | 253.5  | 257.2  |
| 77.5° | 167.9  | 186.5  | 188.1  | 199.8  | 203.0  |
| 80°   | 120.1  | 135.0  | 137.6  | 148.8  | 150.9  |
| 82.5° | 77.0   | 87.7   | 91.4   | 101.0  | 104.1  |
| 85°   | 40.4   | 46.2   | 50.5   | 55.3   | 56.3   |
| 87.5° | 13.3   | 16.5   | 13.8   | 14.3   | 13.3   |
| 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 | 16.70            | 18.35 | 17.07 | 18.67 | 18.98 | 17.24          | 18.89 | 17.61 | 19.21 | 19.52 |
|                 | 3H   | 18.48            | 19.97 | 18.86 | 20.30 | 20.66 | 19.10          | 20.59 | 19.48 | 20.92 | 21.28 |
|                 | 4H   | 19.11            | 20.51 | 19.50 | 20.86 | 21.24 | 19.77          | 21.18 | 20.17 | 21.52 | 21.90 |
|                 | 6H   | 19.52            | 20.82 | 19.93 | 21.18 | 21.57 | 20.25          | 21.55 | 20.66 | 21.92 | 22.31 |
|                 | 8H   | 19.62            | 20.87 | 20.04 | 21.25 | 21.65 | 20.39          | 21.64 | 20.82 | 22.03 | 22.43 |
|                 | 12H  | 19.67            | 20.86 | 20.10 | 21.24 | 21.67 | 20.48          | 21.67 | 20.90 | 22.05 | 22.48 |
| 4H              | 2H   | 17.43            | 18.84 | 17.83 | 19.18 | 19.56 | 17.85          | 19.26 | 18.25 | 19.61 | 19.98 |
|                 | 3H   | 19.42            | 20.60 | 19.83 | 21.00 | 21.40 | 19.92          | 21.10 | 20.33 | 21.50 | 21.90 |
|                 | 4H   | 20.18            | 21.25 | 20.61 | 21.66 | 22.10 | 20.72          | 21.79 | 21.15 | 22.20 | 22.64 |
|                 | 6H   | 20.71            | 21.64 | 21.16 | 22.08 | 22.54 | 21.32          | 22.26 | 21.78 | 22.70 | 23.15 |
|                 | 8H   | 20.85            | 21.72 | 21.31 | 22.16 | 22.63 | 21.51          | 22.39 | 21.97 | 22.83 | 23.29 |
|                 | 12H  | 20.93            | 21.71 | 21.41 | 22.19 | 22.66 | 21.63          | 22.42 | 22.11 | 22.89 | 23.36 |
| 8H              | 4H   | 20.52            | 21.39 | 20.98 | 21.83 | 22.30 | 21.00          | 21.87 | 21.45 | 22.31 | 22.78 |
|                 | 6H   | 21.16            | 21.88 | 21.65 | 22.37 | 22.85 | 21.71          | 22.43 | 22.20 | 22.92 | 23.40 |
|                 | 8H   | 21.36            | 22.01 | 21.87 | 22.51 | 23.00 | 21.97          | 22.62 | 22.47 | 23.12 | 23.61 |
|                 | 12H  | 21.49            | 22.06 | 21.99 | 22.55 | 23.11 | 22.15          | 22.72 | 22.65 | 23.21 | 23.77 |
| 12H             | 4H   | 20.56            | 21.34 | 21.03 | 21.82 | 22.28 | 21.02          | 21.80 | 21.50 | 22.28 | 22.75 |
|                 | 6H   | 21.21            | 21.87 | 21.72 | 22.37 | 22.86 | 21.74          | 22.40 | 22.25 | 22.90 | 23.39 |
|                 | 8H   | 21.47            | 22.04 | 21.97 | 22.53 | 23.09 | 22.05          | 22.63 | 22.56 | 23.12 | 23.68 |