

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: P1588524

Luminaire Tested: 24CZSP-75-L935-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1588524  
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: 24CZSP-75-L935-S  
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7500 lumens, 90CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

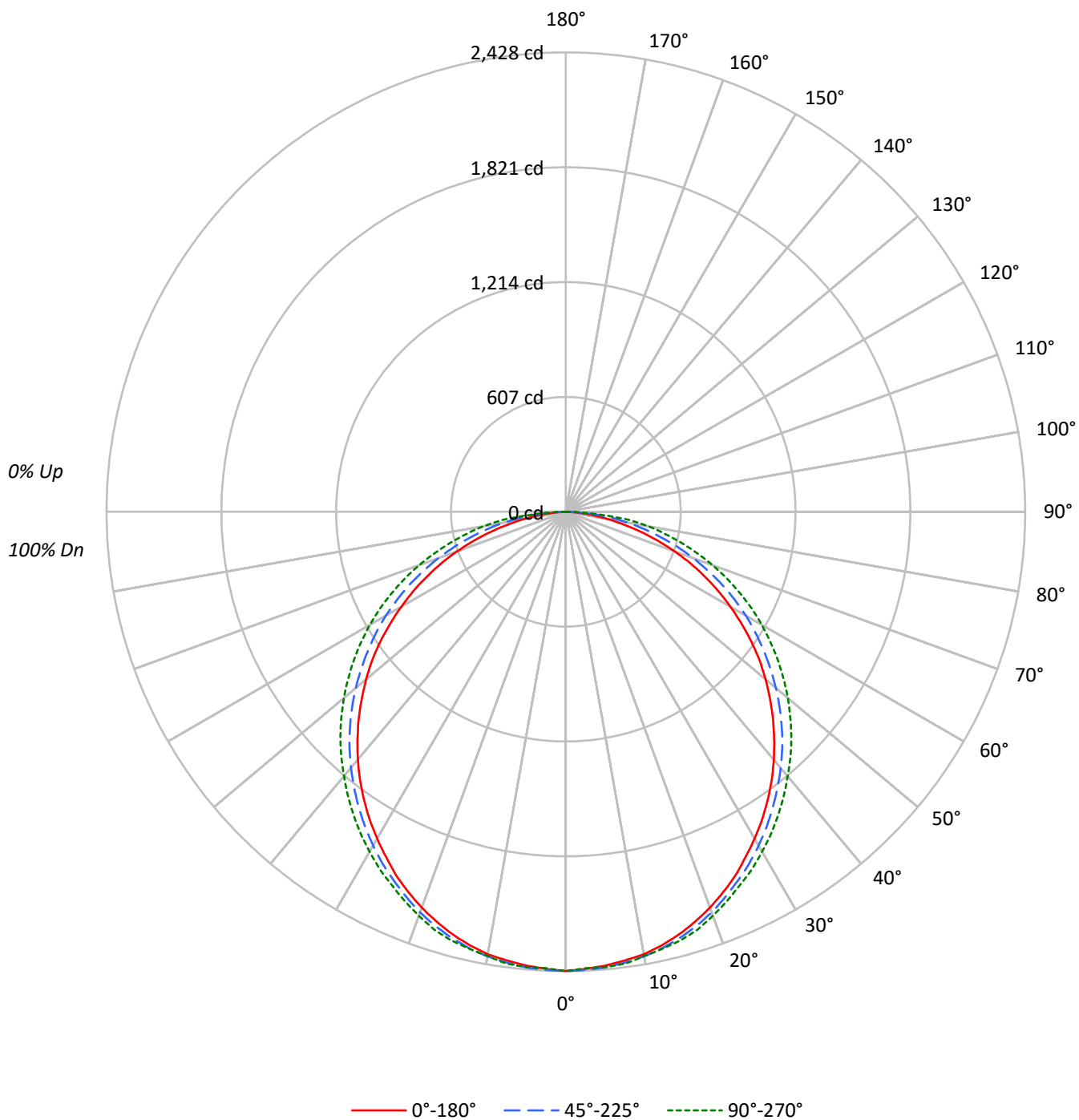
Lumens per Lamp: N/A  
Luminaire Lumens: 7087.0 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 59.5  
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  |     |     | 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°  | 3718 | 3718 | 3718 |
| 5°  | 3701 | 3715 | 3713 |
| 10° | 3693 | 3710 | 3708 |
| 15° | 3667 | 3696 | 3719 |
| 20° | 3630 | 3673 | 3703 |
| 25° | 3585 | 3635 | 3679 |
| 30° | 3529 | 3603 | 3669 |
| 35° | 3478 | 3568 | 3658 |
| 40° | 3420 | 3532 | 3647 |
| 45° | 3355 | 3496 | 3651 |
| 50° | 3283 | 3453 | 3650 |
| 55° | 3197 | 3405 | 3654 |
| 60° | 3077 | 3368 | 3663 |
| 65° | 2936 | 3303 | 3675 |
| 70° | 2737 | 3210 | 3691 |
| 75° | 2439 | 3083 | 3727 |
| 80° | 2016 | 2935 | 3909 |
| 85° | 1311 | 2650 | 3416 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4033 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 229.6  | 3.2       |
| 10°-20°   | 657.4  | 9.3       |
| 20°-30°   | 991.4  | 14.0      |
| 30°-40°   | 1194.1 | 16.8      |
| 40°-50°   | 1247.1 | 17.6      |
| 50°-60°   | 1145.3 | 16.2      |
| 60°-70°   | 902.1  | 12.7      |
| 70°-80°   | 553.4  | 7.8       |
| 80°-90°   | 166.5  | 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°    | 1878.4 | 26.5      |
| 0°-40°    | 3072.5 | 43.4      |
| 0°-60°    | 5465.0 | 77.1      |
| 0°-90°    | 7087.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7087.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2428 | 2428  | 2428 | 2428  | 2428 |      |
| 5°  | 2407 | 2410  | 2417 | 2424  | 2415 | 229  |
| 15° | 2312 | 2317  | 2331 | 2345  | 2345 | 652  |
| 25° | 2121 | 2126  | 2151 | 2177  | 2177 | 976  |
| 35° | 1860 | 1869  | 1908 | 1947  | 1956 | 1163 |
| 45° | 1549 | 1566  | 1614 | 1670  | 1686 | 1194 |
| 55° | 1197 | 1219  | 1275 | 1347  | 1368 | 1069 |
| 65° | 810  | 838   | 911  | 988   | 1014 | 802  |
| 75° | 412  | 445   | 521  | 603   | 630  | 437  |
| 85° | 75   | 103   | 151  | 191   | 194  | 97   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2427.5 | 2427.5 | 2427.5 | 2427.5 | 2427.5 |
| 2.5°  | 2418.2 | 2422.8 | 2424.4 | 2425.9 | 2415.0 |
| 5°    | 2407.3 | 2410.4 | 2416.6 | 2424.4 | 2415.0 |
| 7.5°  | 2391.7 | 2394.8 | 2402.6 | 2413.5 | 2408.8 |
| 10°   | 2374.6 | 2376.2 | 2385.5 | 2393.3 | 2383.9 |
| 12.5° | 2346.6 | 2351.3 | 2362.2 | 2368.4 | 2365.3 |
| 15°   | 2312.4 | 2317.1 | 2331.1 | 2345.1 | 2345.1 |
| 17.5° | 2272.0 | 2278.2 | 2295.3 | 2314.0 | 2315.5 |
| 20°   | 2226.9 | 2231.5 | 2253.3 | 2272.0 | 2272.0 |
| 22.5° | 2175.6 | 2181.8 | 2203.6 | 2223.8 | 2226.9 |
| 25°   | 2121.1 | 2125.8 | 2150.7 | 2177.1 | 2177.1 |
| 27.5° | 2057.4 | 2066.7 | 2097.8 | 2124.2 | 2130.5 |
| 30°   | 1995.2 | 2002.9 | 2037.2 | 2069.8 | 2074.5 |
| 32.5° | 1929.9 | 1939.2 | 1975.0 | 2010.7 | 2018.5 |
| 35°   | 1859.9 | 1869.2 | 1908.1 | 1947.0 | 1956.3 |
| 37.5° | 1786.8 | 1797.7 | 1838.1 | 1883.2 | 1892.5 |
| 40°   | 1710.6 | 1723.0 | 1766.6 | 1814.8 | 1824.1 |
| 42.5° | 1629.7 | 1646.8 | 1693.5 | 1743.2 | 1757.2 |
| 45°   | 1548.9 | 1566.0 | 1614.2 | 1670.2 | 1685.7 |
| 47.5° | 1463.3 | 1483.6 | 1533.3 | 1592.4 | 1609.5 |
| 50°   | 1377.8 | 1398.0 | 1449.3 | 1513.1 | 1531.8 |
| 52.5° | 1290.7 | 1310.9 | 1363.8 | 1430.7 | 1450.9 |
| 55°   | 1197.4 | 1219.2 | 1275.2 | 1346.7 | 1368.5 |
| 57.5° | 1101.0 | 1129.0 | 1188.1 | 1261.2 | 1282.9 |
| 60°   | 1004.6 | 1032.6 | 1099.4 | 1171.0 | 1195.9 |
| 62.5° | 909.7  | 936.2  | 1004.6 | 1080.8 | 1107.2 |
| 65°   | 810.2  | 838.2  | 911.3  | 987.5  | 1013.9 |
| 67.5° | 712.2  | 740.2  | 813.3  | 892.6  | 920.6  |
| 70°   | 611.1  | 642.2  | 716.9  | 796.2  | 824.2  |
| 72.5° | 510.1  | 542.7  | 618.9  | 699.8  | 726.2  |
| 75°   | 412.1  | 444.8  | 521.0  | 603.4  | 629.8  |
| 77.5° | 315.7  | 351.4  | 426.1  | 510.1  | 534.9  |
| 80°   | 228.6  | 262.8  | 332.8  | 415.2  | 443.2  |
| 82.5° | 146.2  | 175.7  | 245.7  | 323.5  | 343.7  |
| 85°   | 74.6   | 102.6  | 150.8  | 191.3  | 194.4  |
| 87.5° | 23.3   | 32.7   | 49.8   | 74.6   | 76.2   |
| 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 | 16.04            | 17.70 | 16.41 | 18.02 | 18.33 | 16.87          | 18.53 | 17.24 | 18.85 | 19.16 |
|                 | 3H   | 17.80            | 19.30 | 18.17 | 19.63 | 19.99 | 18.99          | 20.49 | 19.36 | 20.82 | 21.18 |
|                 | 4H   | 18.41            | 19.84 | 18.81 | 20.18 | 20.56 | 19.88          | 21.30 | 20.27 | 21.65 | 22.02 |
|                 | 6H   | 18.83            | 20.15 | 19.24 | 20.51 | 20.90 | 20.66          | 21.98 | 21.07 | 22.34 | 22.73 |
|                 | 8H   | 18.93            | 20.20 | 19.36 | 20.58 | 20.98 | 20.98          | 22.24 | 21.40 | 22.63 | 23.03 |
|                 | 12H  | 18.98            | 20.20 | 19.41 | 20.58 | 21.01 | 21.19          | 22.40 | 21.62 | 22.78 | 23.21 |
| 4H              | 2H   | 16.81            | 18.23 | 17.21 | 18.58 | 18.96 | 17.46          | 18.88 | 17.86 | 19.23 | 19.60 |
|                 | 3H   | 18.79            | 19.99 | 19.20 | 20.38 | 20.78 | 19.81          | 21.01 | 20.22 | 21.41 | 21.81 |
|                 | 4H   | 19.53            | 20.61 | 19.96 | 21.03 | 21.46 | 20.87          | 21.95 | 21.30 | 22.36 | 22.80 |
|                 | 6H   | 20.06            | 21.01 | 20.51 | 21.45 | 21.90 | 21.82          | 22.77 | 22.27 | 23.21 | 23.66 |
|                 | 8H   | 20.20            | 21.09 | 20.66 | 21.53 | 22.00 | 22.22          | 23.11 | 22.67 | 23.55 | 24.01 |
|                 | 12H  | 20.29            | 21.09 | 20.76 | 21.56 | 22.03 | 22.49          | 23.30 | 22.97 | 23.77 | 24.24 |
| 8H              | 4H   | 19.99            | 20.88 | 20.44 | 21.32 | 21.78 | 21.16          | 22.05 | 21.61 | 22.49 | 22.95 |
|                 | 6H   | 20.65            | 21.39 | 21.14 | 21.88 | 22.35 | 22.27          | 23.01 | 22.76 | 23.50 | 23.97 |
|                 | 8H   | 20.86            | 21.53 | 21.36 | 22.03 | 22.52 | 22.78          | 23.45 | 23.29 | 23.95 | 24.44 |
|                 | 12H  | 21.00            | 21.59 | 21.50 | 22.08 | 22.64 | 23.16          | 23.76 | 23.67 | 24.25 | 24.80 |
| 12H             | 4H   | 20.07            | 20.88 | 20.55 | 21.35 | 21.82 | 21.18          | 21.98 | 21.66 | 22.46 | 22.93 |
|                 | 6H   | 20.78            | 21.45 | 21.29 | 21.95 | 22.44 | 22.31          | 22.98 | 22.82 | 23.49 | 23.97 |
|                 | 8H   | 21.06            | 21.65 | 21.56 | 22.14 | 22.70 | 22.89          | 23.48 | 23.40 | 23.97 | 24.53 |