

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: P1588867

Luminaire Tested: 24CZSP-A-75-L940

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1588867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CZSP-A-75-L940  
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 7500 lumens, 90CRI, Ribbed Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

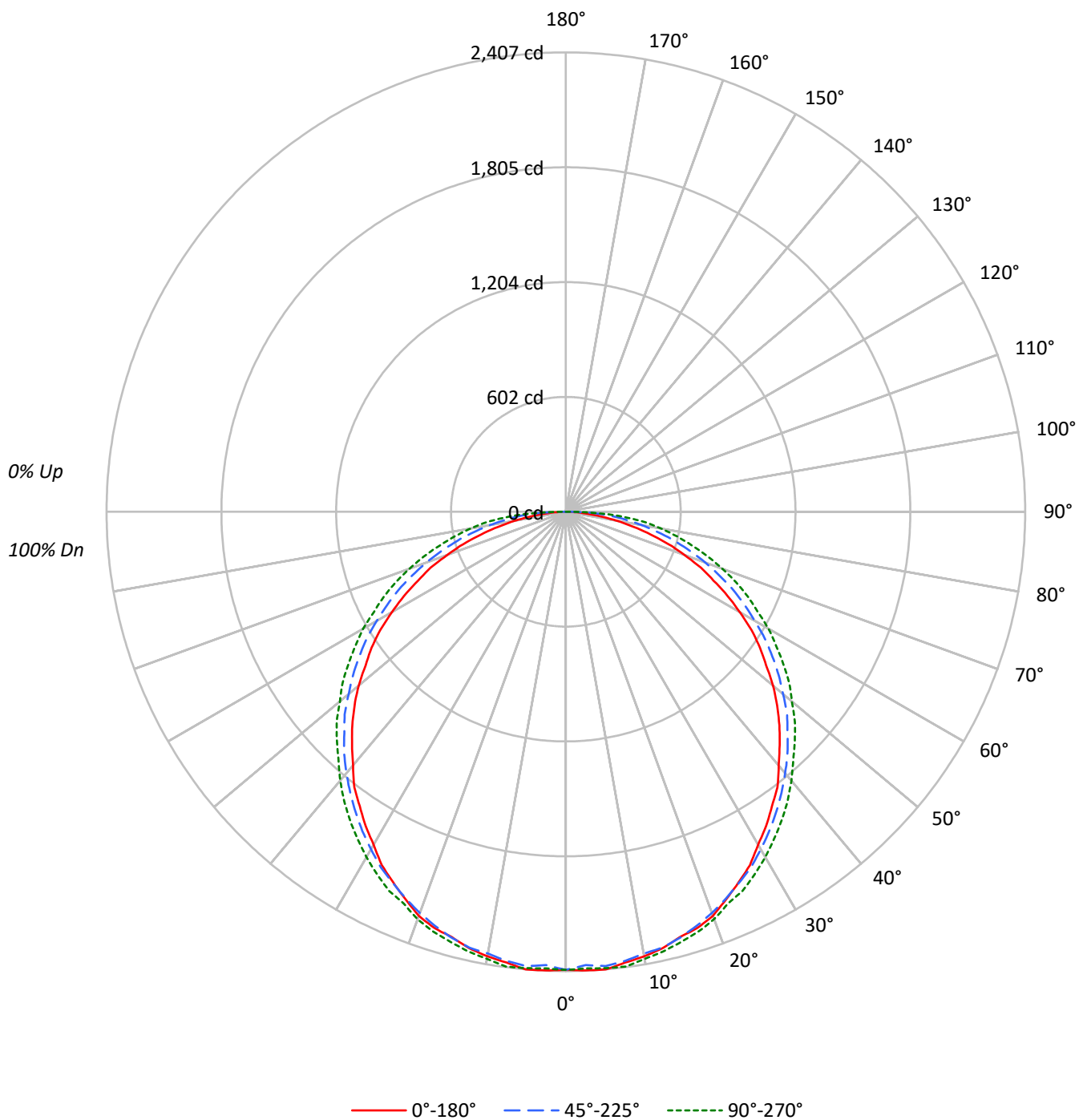
Lumens per Lamp: N/A  
Luminaire Lumens: 7326.0 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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  |
| 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 | 98  | 94  | 105 | 100 | 96  | 92  | 96  | 93  | 89  |  | 92  | 89  | 87  |  | 89  |
| 2   | 98  | 89  | 82  | 76  | 95  | 87  | 80  | 75  | 83  | 78  | 73  |  | 80  | 75  | 71  |  | 77  |
| 3   | 89  | 78  | 69  | 62  | 86  | 76  | 68  | 62  | 73  | 66  | 61  |  | 70  | 64  | 60  |  | 68  |
| 4   | 81  | 69  | 60  | 53  | 79  | 67  | 59  | 52  | 65  | 57  | 51  |  | 62  | 56  | 51  |  | 60  |
| 5   | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 45  | 58  | 50  | 44  |  | 56  | 49  | 44  |  | 54  |
| 6   | 69  | 55  | 46  | 39  | 67  | 54  | 45  | 39  | 52  | 44  | 39  |  | 50  | 44  | 38  |  | 49  |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 40  | 34  | 47  | 40  | 34  |  | 46  | 39  | 34  |  | 45  |
| 8   | 59  | 45  | 37  | 31  | 58  | 45  | 36  | 31  | 43  | 36  | 30  |  | 42  | 35  | 30  |  | 41  |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 27  |  | 39  | 32  | 27  |  | 38  |
| 10  | 52  | 38  | 30  | 25  | 51  | 38  | 30  | 25  | 37  | 30  | 25  |  | 36  | 29  | 25  |  | 35  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3676 | 3676 | 3676 |
| 5°  | 3701 | 3674 | 3690 |
| 10° | 3678 | 3656 | 3700 |
| 15° | 3658 | 3664 | 3700 |
| 20° | 3672 | 3646 | 3703 |
| 25° | 3620 | 3626 | 3703 |
| 30° | 3562 | 3612 | 3696 |
| 35° | 3520 | 3592 | 3687 |
| 40° | 3469 | 3575 | 3676 |
| 45° | 3428 | 3557 | 3675 |
| 50° | 3378 | 3541 | 3683 |
| 55° | 3317 | 3528 | 3715 |
| 60° | 3225 | 3504 | 3757 |
| 65° | 3096 | 3503 | 3815 |
| 70° | 2954 | 3480 | 3905 |
| 75° | 2720 | 3489 | 4050 |
| 80° | 2383 | 3559 | 4457 |
| 85° | 1819 | 4100 | 5334 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 5913 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 227.9  | 3.1       |
| 10°-20°   | 655.1  | 8.9       |
| 20°-30°   | 995.1  | 13.6      |
| 30°-40°   | 1205.4 | 16.5      |
| 40°-50°   | 1268.2 | 17.3      |
| 50°-60°   | 1179.2 | 16.1      |
| 60°-70°   | 949.4  | 13.0      |
| 70°-80°   | 615.0  | 8.4       |
| 80°-90°   | 230.6  | 3.1       |
| 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°    | 1878.1 | 25.6      |
| 0°-40°    | 3083.5 | 42.1      |
| 0°-60°    | 5530.9 | 75.5      |
| 0°-90°    | 7326.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7326.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2400 | 2400  | 2400 | 2400  | 2400 |      |
| 5°  | 2407 | 2404  | 2390 | 2404  | 2400 | 228  |
| 15° | 2307 | 2316  | 2311 | 2339  | 2334 | 654  |
| 25° | 2142 | 2140  | 2146 | 2183  | 2191 | 987  |
| 35° | 1883 | 1897  | 1921 | 1954  | 1972 | 1179 |
| 45° | 1583 | 1604  | 1642 | 1677  | 1697 | 1220 |
| 55° | 1242 | 1274  | 1321 | 1374  | 1391 | 1108 |
| 65° | 854  | 893   | 967  | 1025  | 1053 | 850  |
| 75° | 460  | 505   | 590  | 658   | 684  | 489  |
| 85° | 104  | 153   | 233  | 291   | 304  | 127  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2400.2 | 2400.2 | 2400.2 | 2400.2 | 2400.2 |
| 2.5°  | 2405.4 | 2405.4 | 2377.4 | 2407.2 | 2394.9 |
| 5°    | 2407.2 | 2403.7 | 2389.6 | 2403.7 | 2400.2 |
| 7.5°  | 2382.6 | 2386.1 | 2373.8 | 2391.4 | 2403.7 |
| 10°   | 2365.1 | 2368.6 | 2351.0 | 2379.1 | 2379.1 |
| 12.5° | 2342.3 | 2345.8 | 2338.8 | 2365.1 | 2359.8 |
| 15°   | 2307.2 | 2315.9 | 2310.7 | 2338.8 | 2333.5 |
| 17.5° | 2287.9 | 2280.9 | 2275.6 | 2296.6 | 2307.2 |
| 20°   | 2252.8 | 2237.0 | 2237.0 | 2265.1 | 2272.1 |
| 22.5° | 2196.6 | 2191.4 | 2193.1 | 2228.2 | 2221.2 |
| 25°   | 2142.3 | 2140.5 | 2145.8 | 2182.6 | 2191.4 |
| 27.5° | 2087.9 | 2084.4 | 2100.1 | 2135.2 | 2142.3 |
| 30°   | 2014.2 | 2021.2 | 2042.2 | 2080.8 | 2089.6 |
| 32.5° | 1952.8 | 1965.0 | 1984.3 | 2021.2 | 2031.7 |
| 35°   | 1882.6 | 1896.6 | 1921.2 | 1954.5 | 1972.1 |
| 37.5° | 1821.2 | 1829.9 | 1856.3 | 1887.8 | 1908.9 |
| 40°   | 1735.2 | 1758.0 | 1787.8 | 1833.5 | 1838.7 |
| 42.5° | 1658.0 | 1680.8 | 1719.4 | 1768.5 | 1763.3 |
| 45°   | 1582.6 | 1603.6 | 1642.2 | 1677.3 | 1696.6 |
| 47.5° | 1501.9 | 1521.2 | 1572.0 | 1614.1 | 1628.2 |
| 50°   | 1417.6 | 1442.2 | 1486.1 | 1529.9 | 1545.7 |
| 52.5° | 1322.9 | 1349.2 | 1405.4 | 1452.7 | 1475.5 |
| 55°   | 1242.2 | 1273.8 | 1321.1 | 1373.8 | 1391.3 |
| 57.5° | 1152.7 | 1179.0 | 1236.9 | 1289.6 | 1307.1 |
| 60°   | 1052.7 | 1084.3 | 1143.9 | 1200.1 | 1226.4 |
| 62.5° | 956.2  | 991.3  | 1054.5 | 1112.4 | 1133.4 |
| 65°   | 854.4  | 893.0  | 966.7  | 1024.6 | 1052.7 |
| 67.5° | 766.7  | 798.3  | 870.2  | 935.2  | 965.0  |
| 70°   | 659.7  | 701.8  | 777.2  | 849.2  | 872.0  |
| 72.5° | 565.0  | 601.8  | 680.7  | 752.7  | 780.8  |
| 75°   | 459.7  | 505.3  | 589.5  | 657.9  | 684.3  |
| 77.5° | 363.2  | 410.6  | 494.8  | 566.7  | 596.5  |
| 80°   | 270.2  | 315.8  | 403.5  | 477.2  | 505.3  |
| 82.5° | 182.5  | 228.1  | 315.8  | 387.7  | 419.3  |
| 85°   | 103.5  | 152.6  | 233.3  | 291.2  | 303.5  |
| 87.5° | 45.6   | 87.7   | 131.6  | 157.9  | 168.4  |
| 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 | 16.21            | 17.89 | 16.57 | 18.20 | 18.52 | 16.88          | 18.56 | 17.25 | 18.88 | 19.19 |
|                 | 3H   | 18.06            | 19.59 | 18.44 | 19.92 | 20.27 | 19.10          | 20.63 | 19.48 | 20.95 | 21.31 |
|                 | 4H   | 18.75            | 20.19 | 19.15 | 20.54 | 20.91 | 20.06          | 21.51 | 20.46 | 21.85 | 22.23 |
|                 | 6H   | 19.24            | 20.58 | 19.65 | 20.95 | 21.34 | 20.96          | 22.30 | 21.37 | 22.66 | 23.05 |
|                 | 8H   | 19.39            | 20.67 | 19.81 | 21.06 | 21.46 | 21.36          | 22.64 | 21.78 | 23.03 | 23.43 |
|                 | 12H  | 19.48            | 20.71 | 19.91 | 21.09 | 21.52 | 21.72          | 22.95 | 22.15 | 23.33 | 23.76 |
| 4H              | 2H   | 17.00            | 18.44 | 17.40 | 18.79 | 19.17 | 17.52          | 18.96 | 17.92 | 19.31 | 19.69 |
|                 | 3H   | 19.09            | 20.31 | 19.50 | 20.71 | 21.10 | 19.98          | 21.20 | 20.39 | 21.60 | 22.00 |
|                 | 4H   | 19.91            | 21.02 | 20.34 | 21.43 | 21.86 | 21.11          | 22.22 | 21.54 | 22.63 | 23.07 |
|                 | 6H   | 20.53            | 21.51 | 20.98 | 21.95 | 22.40 | 22.18          | 23.16 | 22.63 | 23.59 | 24.05 |
|                 | 8H   | 20.73            | 21.65 | 21.19 | 22.09 | 22.55 | 22.67          | 23.58 | 23.13 | 24.03 | 24.49 |
|                 | 12H  | 20.87            | 21.69 | 21.34 | 22.17 | 22.63 | 23.12          | 23.95 | 23.60 | 24.42 | 24.89 |
| 8H              | 4H   | 20.42            | 21.33 | 20.87 | 21.77 | 22.24 | 21.45          | 22.37 | 21.91 | 22.81 | 23.27 |
|                 | 6H   | 21.20            | 21.97 | 21.69 | 22.45 | 22.93 | 22.70          | 23.47 | 23.19 | 23.95 | 24.43 |
|                 | 8H   | 21.49            | 22.18 | 21.99 | 22.68 | 23.16 | 23.32          | 24.02 | 23.83 | 24.52 | 25.00 |
|                 | 12H  | 21.70            | 22.32 | 22.21 | 22.80 | 23.36 | 23.94          | 24.55 | 24.44 | 25.04 | 25.59 |
| 12H             | 4H   | 20.52            | 21.35 | 21.00 | 21.82 | 22.29 | 21.49          | 22.32 | 21.97 | 22.79 | 23.26 |
|                 | 6H   | 21.37            | 22.06 | 21.87 | 22.56 | 23.05 | 22.78          | 23.47 | 23.28 | 23.97 | 24.45 |
|                 | 8H   | 21.74            | 22.35 | 22.24 | 22.84 | 23.40 | 23.48          | 24.09 | 23.98 | 24.58 | 25.14 |