

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: P1588853

Luminaire Tested: 24CZSP-A-75-L830

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1588853  
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-L830  
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7500 lumens, 80CRI, Ribbed Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

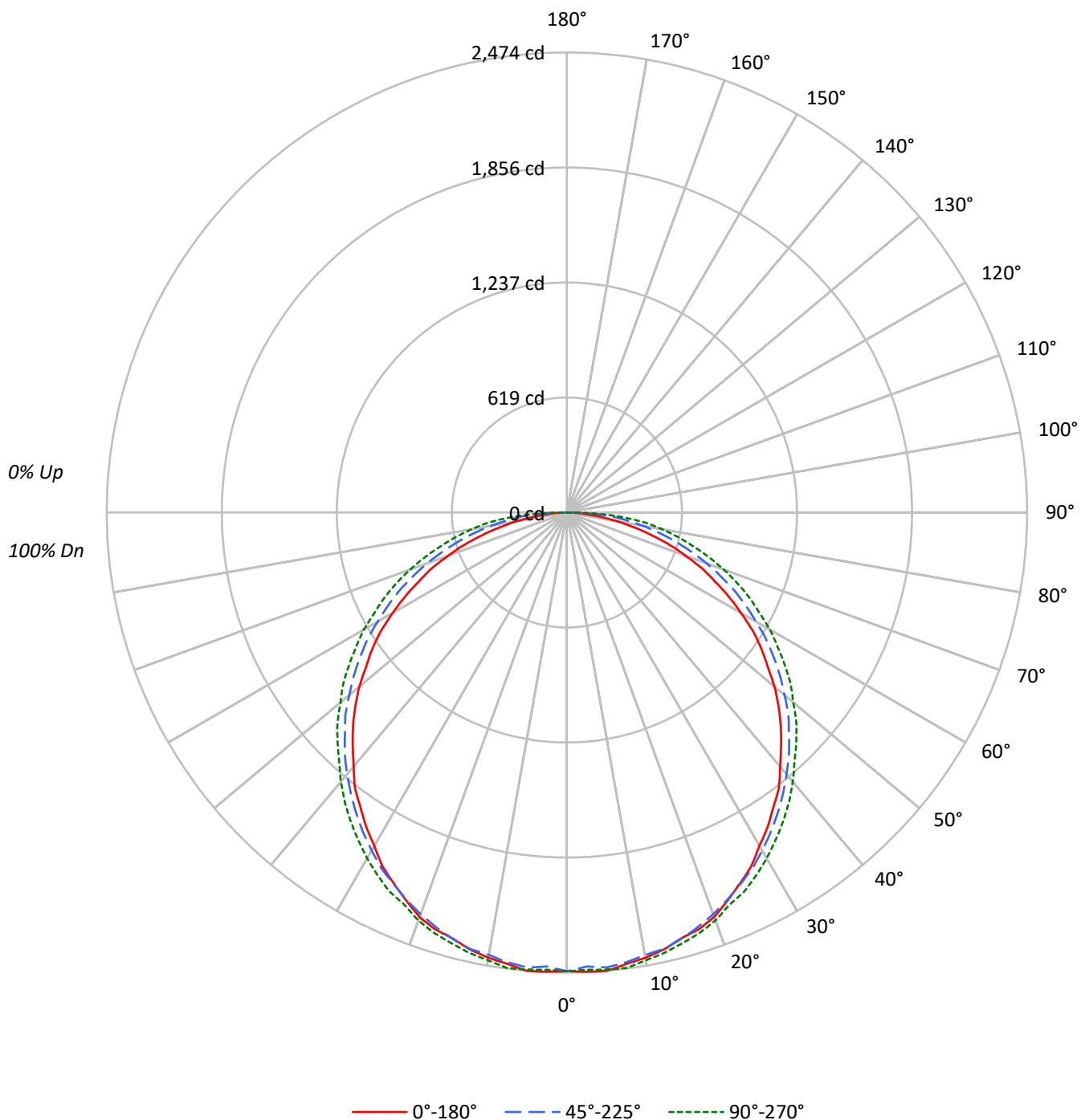
Lumens per Lamp: N/A  
Luminaire Lumens: 7529.0 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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  |     |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 108 | 103 | 98  | 94  | 105 | 100 | 96  | 92  | 96  | 93  | 89  | 92  | 89  | 87  | 89  | 86  | 84  | 82  |    |    |
| 2   | 98  | 89  | 82  | 76  | 95  | 87  | 80  | 75  | 83  | 78  | 73  | 80  | 75  | 71  | 77  | 73  | 70  | 67  |    |    |
| 3   | 89  | 78  | 69  | 62  | 86  | 76  | 68  | 62  | 73  | 66  | 61  | 70  | 64  | 60  | 68  | 63  | 59  | 56  |    |    |
| 4   | 81  | 69  | 60  | 53  | 79  | 67  | 59  | 52  | 65  | 57  | 51  | 62  | 56  | 51  | 60  | 55  | 50  | 48  |    |    |
| 5   | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 45  | 58  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 43  | 41  |    |    |
| 6   | 69  | 55  | 46  | 39  | 67  | 54  | 45  | 39  | 52  | 44  | 39  | 50  | 44  | 38  | 49  | 43  | 38  | 36  |    |    |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 40  | 34  | 47  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 32  |    |    |
| 8   | 59  | 45  | 37  | 31  | 58  | 45  | 36  | 31  | 43  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 28  |    |    |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 25  |    |    |
| 10  | 52  | 38  | 30  | 25  | 51  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 25  | 23  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3778 | 3778 | 3778 |
| 5°  | 3804 | 3776 | 3792 |
| 10° | 3780 | 3758 | 3803 |
| 15° | 3760 | 3765 | 3803 |
| 20° | 3774 | 3747 | 3806 |
| 25° | 3721 | 3727 | 3806 |
| 30° | 3661 | 3712 | 3798 |
| 35° | 3617 | 3692 | 3789 |
| 40° | 3566 | 3674 | 3778 |
| 45° | 3523 | 3656 | 3777 |
| 50° | 3471 | 3639 | 3785 |
| 55° | 3409 | 3626 | 3818 |
| 60° | 3314 | 3601 | 3861 |
| 65° | 3182 | 3601 | 3921 |
| 70° | 3036 | 3577 | 4013 |
| 75° | 2796 | 3585 | 4161 |
| 80° | 2449 | 3658 | 4580 |
| 85° | 1870 | 4214 | 5481 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6078 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 234.2  | 3.1       |
| 10°-20°   | 673.2  | 8.9       |
| 20°-30°   | 1022.7 | 13.6      |
| 30°-40°   | 1238.8 | 16.5      |
| 40°-50°   | 1303.3 | 17.3      |
| 50°-60°   | 1211.8 | 16.1      |
| 60°-70°   | 975.7  | 13.0      |
| 70°-80°   | 632.1  | 8.4       |
| 80°-90°   | 237.0  | 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°    | 1930.1 | 25.6      |
| 0°-40°    | 3169.0 | 42.1      |
| 0°-60°    | 5684.2 | 75.5      |
| 0°-90°    | 7529.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7529.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2467 | 2467  | 2467 | 2467  | 2467 |      |
| 5°  | 2474 | 2470  | 2456 | 2470  | 2467 | 234  |
| 15° | 2371 | 2380  | 2375 | 2404  | 2398 | 672  |
| 25° | 2202 | 2200  | 2205 | 2243  | 2252 | 1015 |
| 35° | 1935 | 1949  | 1974 | 2009  | 2027 | 1212 |
| 45° | 1626 | 1648  | 1688 | 1724  | 1744 | 1254 |
| 55° | 1277 | 1309  | 1358 | 1412  | 1430 | 1139 |
| 65° | 878  | 918   | 994  | 1053  | 1082 | 873  |
| 75° | 472  | 519   | 606  | 676   | 703  | 502  |
| 85° | 106  | 157   | 240  | 299   | 312  | 130  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2466.7 | 2466.7 | 2466.7 | 2466.7 | 2466.7 |
| 2.5°  | 2472.1 | 2472.1 | 2443.2 | 2473.9 | 2461.3 |
| 5°    | 2473.9 | 2470.3 | 2455.9 | 2470.3 | 2466.7 |
| 7.5°  | 2448.6 | 2452.2 | 2439.6 | 2457.7 | 2470.3 |
| 10°   | 2430.6 | 2434.2 | 2416.2 | 2445.0 | 2445.0 |
| 12.5° | 2407.2 | 2410.8 | 2403.6 | 2430.6 | 2425.2 |
| 15°   | 2371.1 | 2380.1 | 2374.7 | 2403.6 | 2398.2 |
| 17.5° | 2351.3 | 2344.1 | 2338.6 | 2360.3 | 2371.1 |
| 20°   | 2315.2 | 2299.0 | 2299.0 | 2327.8 | 2335.0 |
| 22.5° | 2257.5 | 2252.1 | 2253.9 | 2290.0 | 2282.8 |
| 25°   | 2201.6 | 2199.8 | 2205.2 | 2243.1 | 2252.1 |
| 27.5° | 2145.7 | 2142.1 | 2158.3 | 2194.4 | 2201.6 |
| 30°   | 2070.0 | 2077.2 | 2098.8 | 2138.5 | 2147.5 |
| 32.5° | 2006.9 | 2019.5 | 2039.3 | 2077.2 | 2088.0 |
| 35°   | 1934.7 | 1949.2 | 1974.4 | 2008.7 | 2026.7 |
| 37.5° | 1871.6 | 1880.7 | 1907.7 | 1940.2 | 1961.8 |
| 40°   | 1783.3 | 1806.7 | 1837.4 | 1884.3 | 1889.7 |
| 42.5° | 1704.0 | 1727.4 | 1767.1 | 1817.5 | 1812.1 |
| 45°   | 1626.4 | 1648.1 | 1687.7 | 1723.8 | 1743.6 |
| 47.5° | 1543.5 | 1563.3 | 1615.6 | 1658.9 | 1673.3 |
| 50°   | 1456.9 | 1482.2 | 1527.2 | 1572.3 | 1588.6 |
| 52.5° | 1359.6 | 1386.6 | 1444.3 | 1493.0 | 1516.4 |
| 55°   | 1276.6 | 1309.1 | 1357.8 | 1411.8 | 1429.9 |
| 57.5° | 1184.7 | 1211.7 | 1271.2 | 1325.3 | 1343.3 |
| 60°   | 1081.9 | 1114.3 | 1175.6 | 1233.3 | 1260.4 |
| 62.5° | 982.7  | 1018.8 | 1083.7 | 1143.2 | 1164.8 |
| 65°   | 878.1  | 917.8  | 993.5  | 1053.0 | 1081.9 |
| 67.5° | 788.0  | 820.4  | 894.3  | 961.1  | 991.7  |
| 70°   | 678.0  | 721.2  | 798.8  | 872.7  | 896.2  |
| 72.5° | 580.6  | 618.5  | 699.6  | 773.5  | 802.4  |
| 75°   | 472.4  | 519.3  | 605.8  | 676.2  | 703.2  |
| 77.5° | 373.2  | 421.9  | 508.5  | 582.4  | 613.1  |
| 80°   | 277.7  | 324.6  | 414.7  | 490.4  | 519.3  |
| 82.5° | 187.5  | 234.4  | 324.6  | 398.5  | 430.9  |
| 85°   | 106.4  | 156.9  | 239.8  | 299.3  | 311.9  |
| 87.5° | 46.9   | 90.2   | 135.2  | 162.3  | 173.1  |
| 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 | 16.30            | 17.98 | 16.67 | 18.30 | 18.61 | 16.98          | 18.66 | 17.34 | 18.97 | 19.29 |
|                 | 3H   | 18.16            | 19.68 | 18.53 | 20.01 | 20.37 | 19.19          | 20.72 | 19.57 | 21.05 | 21.41 |
|                 | 4H   | 18.84            | 20.29 | 19.24 | 20.63 | 21.01 | 20.16          | 21.60 | 20.56 | 21.95 | 22.32 |
|                 | 6H   | 19.33            | 20.68 | 19.74 | 21.04 | 21.43 | 21.05          | 22.39 | 21.46 | 22.76 | 23.15 |
|                 | 8H   | 19.48            | 20.77 | 19.91 | 21.16 | 21.55 | 21.45          | 22.74 | 21.88 | 23.13 | 23.52 |
|                 | 12H  | 19.57            | 20.80 | 20.00 | 21.19 | 21.61 | 21.81          | 23.05 | 22.24 | 23.43 | 23.86 |
| 4H              | 2H   | 17.10            | 18.54 | 17.49 | 18.89 | 19.26 | 17.62          | 19.06 | 18.01 | 19.41 | 19.78 |
|                 | 3H   | 19.18            | 20.40 | 19.59 | 20.80 | 21.20 | 20.08          | 21.30 | 20.48 | 21.69 | 22.09 |
|                 | 4H   | 20.00            | 21.11 | 20.43 | 21.53 | 21.96 | 21.20          | 22.31 | 21.63 | 22.73 | 23.16 |
|                 | 6H   | 20.63            | 21.60 | 21.08 | 22.04 | 22.50 | 22.27          | 23.25 | 22.73 | 23.69 | 24.14 |
|                 | 8H   | 20.83            | 21.74 | 21.28 | 22.18 | 22.65 | 22.76          | 23.68 | 23.22 | 24.12 | 24.58 |
|                 | 12H  | 20.96            | 21.79 | 21.44 | 22.26 | 22.73 | 23.22          | 24.04 | 23.70 | 24.52 | 24.98 |
| 8H              | 4H   | 20.51            | 21.43 | 20.97 | 21.87 | 22.33 | 21.55          | 22.46 | 22.00 | 22.90 | 23.37 |
|                 | 6H   | 21.30            | 22.06 | 21.79 | 22.55 | 23.02 | 22.80          | 23.56 | 23.29 | 24.05 | 24.52 |
|                 | 8H   | 21.58            | 22.27 | 22.09 | 22.77 | 23.26 | 23.42          | 24.11 | 23.93 | 24.61 | 25.10 |
|                 | 12H  | 21.80            | 22.41 | 22.30 | 22.90 | 23.46 | 24.03          | 24.64 | 24.53 | 25.13 | 25.69 |
| 12H             | 4H   | 20.62            | 21.45 | 21.10 | 21.92 | 22.39 | 21.59          | 22.41 | 22.06 | 22.88 | 23.35 |
|                 | 6H   | 21.46            | 22.16 | 21.97 | 22.66 | 23.14 | 22.87          | 23.56 | 23.38 | 24.07 | 24.55 |
|                 | 8H   | 21.83            | 22.45 | 22.34 | 22.94 | 23.49 | 23.58          | 24.19 | 24.08 | 24.68 | 25.23 |