

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: P1588381

Luminaire Tested: 24CZSP-57-L850

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1588381  
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-57-L850  
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Ribbed Lens  
Light Source: -  
Ballast/Driver: -

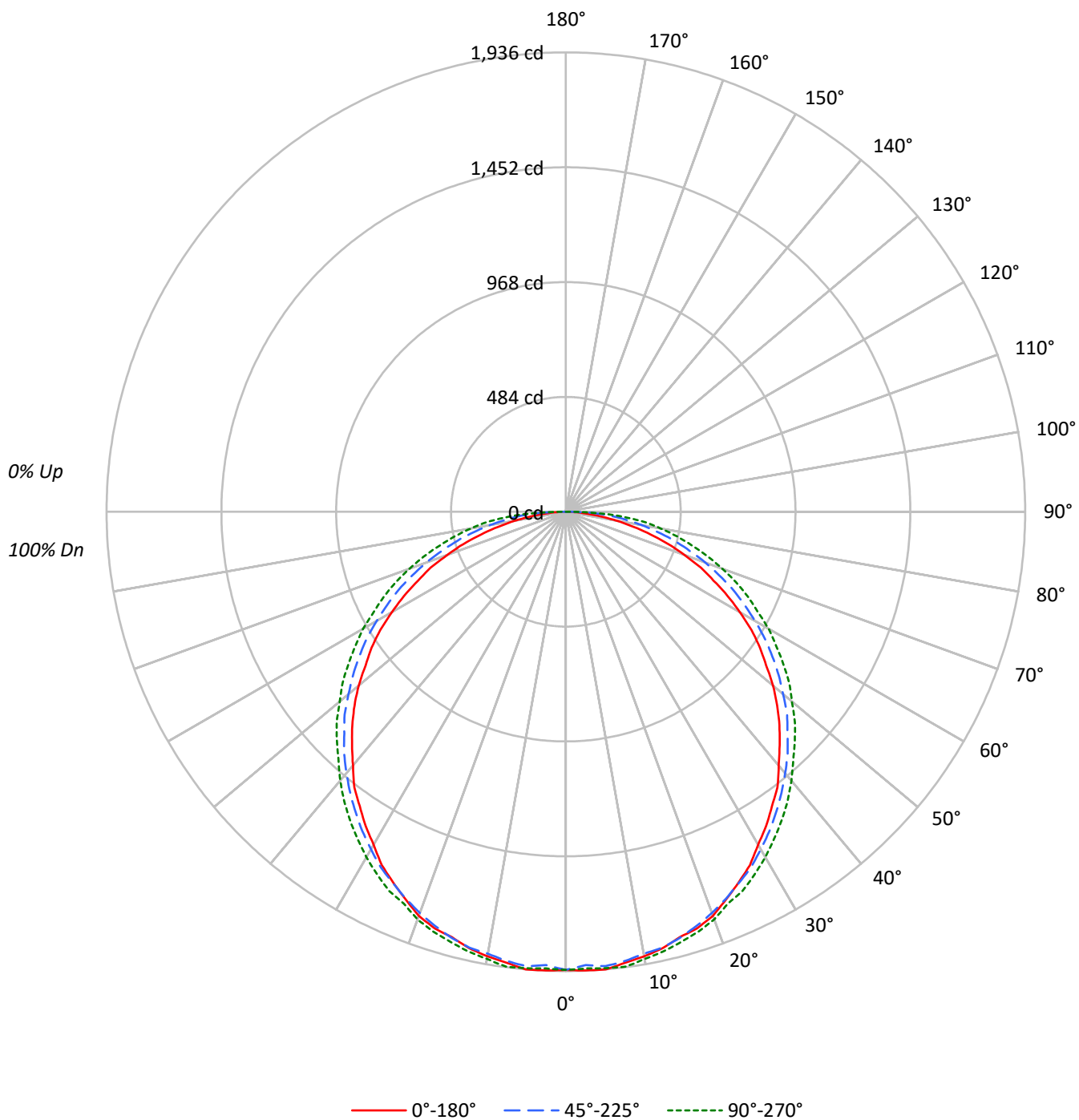
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5893.0 lumens  
Efficiency: N/A  
Efficacy: 144.1 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): 40.9  
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  |     |     | 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 | 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°  | 2957 | 2957 | 2957 |
| 5°  | 2977 | 2955 | 2968 |
| 10° | 2959 | 2941 | 2976 |
| 15° | 2943 | 2947 | 2976 |
| 20° | 2954 | 2933 | 2979 |
| 25° | 2912 | 2917 | 2979 |
| 30° | 2865 | 2905 | 2973 |
| 35° | 2831 | 2890 | 2966 |
| 40° | 2791 | 2875 | 2957 |
| 45° | 2757 | 2861 | 2956 |
| 50° | 2717 | 2848 | 2963 |
| 55° | 2668 | 2838 | 2989 |
| 60° | 2594 | 2819 | 3022 |
| 65° | 2491 | 2818 | 3069 |
| 70° | 2377 | 2800 | 3141 |
| 75° | 2188 | 2806 | 3257 |
| 80° | 1917 | 2863 | 3585 |
| 85° | 1464 | 3299 | 4291 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4758 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 183.3  | 3.1       |
| 10°-20°   | 526.9  | 8.9       |
| 20°-30°   | 800.5  | 13.6      |
| 30°-40°   | 969.6  | 16.5      |
| 40°-50°   | 1020.1 | 17.3      |
| 50°-60°   | 948.5  | 16.1      |
| 60°-70°   | 763.7  | 13.0      |
| 70°-80°   | 494.7  | 8.4       |
| 80°-90°   | 185.5  | 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°    | 1510.7 | 25.6      |
| 0°-40°    | 2480.4 | 42.1      |
| 0°-60°    | 4449.0 | 75.5      |
| 0°-90°    | 5893.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5893.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1931 | 1931  | 1931 | 1931  | 1931 |      |
| 5°  | 1936 | 1934  | 1922 | 1934  | 1931 | 183  |
| 15° | 1856 | 1863  | 1859 | 1881  | 1877 | 526  |
| 25° | 1723 | 1722  | 1726 | 1756  | 1763 | 794  |
| 35° | 1514 | 1526  | 1545 | 1572  | 1586 | 949  |
| 45° | 1273 | 1290  | 1321 | 1349  | 1365 | 981  |
| 55° | 999  | 1025  | 1063 | 1105  | 1119 | 891  |
| 65° | 687  | 718   | 778  | 824   | 847  | 683  |
| 75° | 370  | 406   | 474  | 529   | 550  | 393  |
| 85° | 83   | 123   | 188  | 234   | 244  | 102  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1930.7 | 1930.7 | 1930.7 | 1930.7 | 1930.7 |
| 2.5°  | 1934.9 | 1934.9 | 1912.3 | 1936.3 | 1926.4 |
| 5°    | 1936.3 | 1933.5 | 1922.2 | 1933.5 | 1930.7 |
| 7.5°  | 1916.6 | 1919.4 | 1909.5 | 1923.6 | 1933.5 |
| 10°   | 1902.5 | 1905.3 | 1891.2 | 1913.7 | 1913.7 |
| 12.5° | 1884.1 | 1886.9 | 1881.3 | 1902.5 | 1898.2 |
| 15°   | 1855.9 | 1862.9 | 1858.7 | 1881.3 | 1877.1 |
| 17.5° | 1840.4 | 1834.7 | 1830.5 | 1847.4 | 1855.9 |
| 20°   | 1812.1 | 1799.4 | 1799.4 | 1822.0 | 1827.7 |
| 22.5° | 1767.0 | 1762.7 | 1764.1 | 1792.4 | 1786.7 |
| 25°   | 1723.2 | 1721.8 | 1726.0 | 1755.7 | 1762.7 |
| 27.5° | 1679.5 | 1676.6 | 1689.3 | 1717.6 | 1723.2 |
| 30°   | 1620.2 | 1625.8 | 1642.8 | 1673.8 | 1680.9 |
| 32.5° | 1570.8 | 1580.7 | 1596.2 | 1625.8 | 1634.3 |
| 35°   | 1514.3 | 1525.6 | 1545.4 | 1572.2 | 1586.3 |
| 37.5° | 1464.9 | 1472.0 | 1493.2 | 1518.6 | 1535.5 |
| 40°   | 1395.8 | 1414.1 | 1438.1 | 1474.8 | 1479.1 |
| 42.5° | 1333.7 | 1352.0 | 1383.1 | 1422.6 | 1418.4 |
| 45°   | 1273.0 | 1289.9 | 1321.0 | 1349.2 | 1364.7 |
| 47.5° | 1208.1 | 1223.6 | 1264.5 | 1298.4 | 1309.7 |
| 50°   | 1140.3 | 1160.1 | 1195.4 | 1230.7 | 1243.4 |
| 52.5° | 1064.1 | 1085.3 | 1130.5 | 1168.6 | 1186.9 |
| 55°   | 999.2  | 1024.6 | 1062.7 | 1105.1 | 1119.2 |
| 57.5° | 927.2  | 948.4  | 995.0  | 1037.3 | 1051.4 |
| 60°   | 846.8  | 872.2  | 920.2  | 965.3  | 986.5  |
| 62.5° | 769.2  | 797.4  | 848.2  | 894.8  | 911.7  |
| 65°   | 687.3  | 718.4  | 777.6  | 824.2  | 846.8  |
| 67.5° | 616.7  | 642.1  | 700.0  | 752.2  | 776.2  |
| 70°   | 530.7  | 564.5  | 625.2  | 683.1  | 701.4  |
| 72.5° | 454.4  | 484.1  | 547.6  | 605.5  | 628.0  |
| 75°   | 369.8  | 406.5  | 474.2  | 529.2  | 550.4  |
| 77.5° | 292.1  | 330.2  | 398.0  | 455.9  | 479.8  |
| 80°   | 217.3  | 254.0  | 324.6  | 383.9  | 406.5  |
| 82.5° | 146.8  | 183.5  | 254.0  | 311.9  | 337.3  |
| 85°   | 83.3   | 122.8  | 187.7  | 234.3  | 244.2  |
| 87.5° | 36.7   | 70.6   | 105.8  | 127.0  | 135.5  |
| 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 | 15.45            | 17.13 | 15.82 | 17.45 | 17.76 | 16.13          | 17.81 | 16.49 | 18.12 | 18.44 |
|                 | 3H   | 17.31            | 18.83 | 17.68 | 19.16 | 19.52 | 18.34          | 19.87 | 18.72 | 20.20 | 20.56 |
|                 | 4H   | 17.99            | 19.44 | 18.39 | 19.78 | 20.16 | 19.31          | 20.75 | 19.70 | 21.10 | 21.47 |
|                 | 6H   | 18.48            | 19.83 | 18.89 | 20.19 | 20.58 | 20.20          | 21.54 | 20.61 | 21.90 | 22.29 |
|                 | 8H   | 18.63            | 19.92 | 19.05 | 20.30 | 20.70 | 20.60          | 21.89 | 21.03 | 22.28 | 22.67 |
|                 | 12H  | 18.72            | 19.95 | 19.15 | 20.33 | 20.76 | 20.96          | 22.19 | 21.39 | 22.58 | 23.00 |
| 4H              | 2H   | 16.24            | 17.69 | 16.64 | 18.04 | 18.41 | 16.76          | 18.21 | 17.16 | 18.56 | 18.93 |
|                 | 3H   | 18.33            | 19.55 | 18.74 | 19.95 | 20.35 | 19.22          | 20.45 | 19.63 | 20.84 | 21.24 |
|                 | 4H   | 19.15            | 20.26 | 19.58 | 20.67 | 21.11 | 20.35          | 21.46 | 20.78 | 21.87 | 22.31 |
|                 | 6H   | 19.78            | 20.75 | 20.23 | 21.19 | 21.64 | 21.42          | 22.40 | 21.87 | 22.84 | 23.29 |
|                 | 8H   | 19.97            | 20.89 | 20.43 | 21.33 | 21.79 | 21.91          | 22.83 | 22.37 | 23.27 | 23.73 |
|                 | 12H  | 20.11            | 20.94 | 20.59 | 21.41 | 21.88 | 22.37          | 23.19 | 22.84 | 23.67 | 24.13 |
| 8H              | 4H   | 19.66            | 20.58 | 20.12 | 21.02 | 21.48 | 20.70          | 21.61 | 21.15 | 22.05 | 22.51 |
|                 | 6H   | 20.45            | 21.21 | 20.94 | 21.70 | 22.17 | 21.95          | 22.71 | 22.44 | 23.20 | 23.67 |
|                 | 8H   | 20.73            | 21.42 | 21.23 | 21.92 | 22.41 | 22.57          | 23.26 | 23.07 | 23.76 | 24.25 |
|                 | 12H  | 20.95            | 21.56 | 21.45 | 22.05 | 22.60 | 23.18          | 23.79 | 23.68 | 24.28 | 24.84 |
| 12H             | 4H   | 19.77            | 20.59 | 20.25 | 21.07 | 21.54 | 20.73          | 21.56 | 21.21 | 22.03 | 22.50 |
|                 | 6H   | 20.61            | 21.30 | 21.12 | 21.81 | 22.29 | 22.02          | 22.71 | 22.52 | 23.21 | 23.70 |
|                 | 8H   | 20.98            | 21.59 | 21.49 | 22.08 | 22.64 | 22.72          | 23.34 | 23.23 | 23.83 | 24.38 |