

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: P1586790

Luminaire Tested: 22CZSP-A-60HE-L950-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586790  
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: 22CZSP-A-60HE-L950-S  
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 6700 lumens, 90CRI, Smooth Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

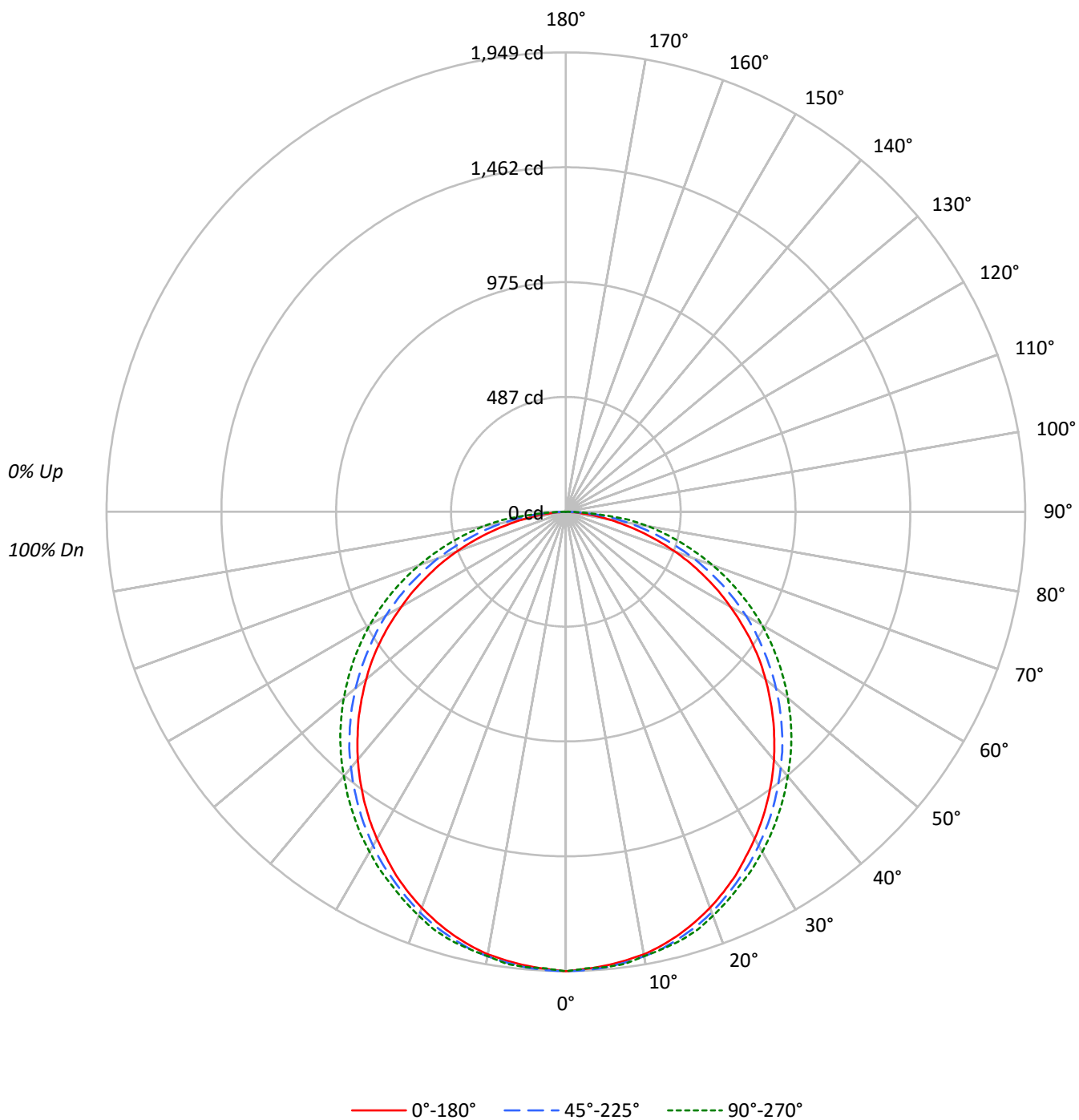
Lumens per Lamp: N/A  
Luminaire Lumens: 5691.0 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 41.5  
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°  | 6104 | 6104 | 6104 |
| 5°  | 6076 | 6100 | 6096 |
| 10° | 6063 | 6091 | 6087 |
| 15° | 6020 | 6068 | 6105 |
| 20° | 5959 | 6030 | 6079 |
| 25° | 5885 | 5967 | 6040 |
| 30° | 5793 | 5915 | 6023 |
| 35° | 5709 | 5857 | 6005 |
| 40° | 5615 | 5799 | 5988 |
| 45° | 5508 | 5740 | 5995 |
| 50° | 5390 | 5669 | 5992 |
| 55° | 5249 | 5590 | 5999 |
| 60° | 5052 | 5529 | 6014 |
| 65° | 4821 | 5422 | 6033 |
| 70° | 4493 | 5271 | 6059 |
| 75° | 4003 | 5061 | 6118 |
| 80° | 3311 | 4818 | 6418 |
| 85° | 2152 | 4351 | 5608 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6621 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 184.4  | 3.2       |
| 10°-20°   | 527.9  | 9.3       |
| 20°-30°   | 796.1  | 14.0      |
| 30°-40°   | 958.9  | 16.8      |
| 40°-50°   | 1001.4 | 17.6      |
| 50°-60°   | 919.7  | 16.2      |
| 60°-70°   | 724.4  | 12.7      |
| 70°-80°   | 444.4  | 7.8       |
| 80°-90°   | 133.7  | 2.3       |
| 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°    | 1508.4 | 26.5      |
| 0°-40°    | 2467.3 | 43.4      |
| 0°-60°    | 4388.5 | 77.1      |
| 0°-90°    | 5691.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5691.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1949 | 1949  | 1949 | 1949  | 1949 |      |
| 5°  | 1933 | 1936  | 1941 | 1947  | 1939 | 184  |
| 15° | 1857 | 1861  | 1872 | 1883  | 1883 | 524  |
| 25° | 1703 | 1707  | 1727 | 1748  | 1748 | 784  |
| 35° | 1494 | 1501  | 1532 | 1564  | 1571 | 934  |
| 45° | 1244 | 1258  | 1296 | 1341  | 1354 | 959  |
| 55° | 962  | 979   | 1024 | 1081  | 1099 | 858  |
| 65° | 651  | 673   | 732  | 793   | 814  | 644  |
| 75° | 331  | 357   | 418  | 484   | 506  | 351  |
| 85° | 60   | 82    | 121  | 154   | 156  | 78   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1949.3 | 1949.3 | 1949.3 | 1949.3 | 1949.3 |
| 2.5°  | 1941.8 | 1945.6 | 1946.8 | 1948.1 | 1939.3 |
| 5°    | 1933.1 | 1935.6 | 1940.6 | 1946.8 | 1939.3 |
| 7.5°  | 1920.6 | 1923.1 | 1929.3 | 1938.1 | 1934.3 |
| 10°   | 1906.9 | 1908.1 | 1915.6 | 1921.8 | 1914.4 |
| 12.5° | 1884.4 | 1888.1 | 1896.9 | 1901.9 | 1899.4 |
| 15°   | 1856.9 | 1860.7 | 1871.9 | 1883.1 | 1883.1 |
| 17.5° | 1824.4 | 1829.4 | 1843.2 | 1858.2 | 1859.4 |
| 20°   | 1788.2 | 1792.0 | 1809.5 | 1824.4 | 1824.4 |
| 22.5° | 1747.0 | 1752.0 | 1769.5 | 1785.7 | 1788.2 |
| 25°   | 1703.3 | 1707.1 | 1727.0 | 1748.3 | 1748.3 |
| 27.5° | 1652.1 | 1659.6 | 1684.6 | 1705.8 | 1710.8 |
| 30°   | 1602.2 | 1608.4 | 1635.9 | 1662.1 | 1665.9 |
| 32.5° | 1549.7 | 1557.2 | 1585.9 | 1614.7 | 1620.9 |
| 35°   | 1493.5 | 1501.0 | 1532.2 | 1563.5 | 1570.9 |
| 37.5° | 1434.8 | 1443.6 | 1476.0 | 1512.3 | 1519.7 |
| 40°   | 1373.6 | 1383.6 | 1418.6 | 1457.3 | 1464.8 |
| 42.5° | 1308.7 | 1322.4 | 1359.9 | 1399.9 | 1411.1 |
| 45°   | 1243.8 | 1257.5 | 1296.2 | 1341.2 | 1353.7 |
| 47.5° | 1175.1 | 1191.3 | 1231.3 | 1278.7 | 1292.5 |
| 50°   | 1106.4 | 1122.6 | 1163.8 | 1215.0 | 1230.0 |
| 52.5° | 1036.5 | 1052.7 | 1095.2 | 1148.9 | 1165.1 |
| 55°   | 961.5  | 979.0  | 1024.0 | 1081.4 | 1098.9 |
| 57.5° | 884.1  | 906.6  | 954.1  | 1012.7 | 1030.2 |
| 60°   | 806.7  | 829.2  | 882.9  | 940.3  | 960.3  |
| 62.5° | 730.5  | 751.8  | 806.7  | 867.9  | 889.1  |
| 65°   | 650.6  | 673.1  | 731.8  | 793.0  | 814.2  |
| 67.5° | 571.9  | 594.4  | 653.1  | 716.8  | 739.3  |
| 70°   | 490.8  | 515.7  | 575.7  | 639.4  | 661.8  |
| 72.5° | 409.6  | 435.8  | 497.0  | 561.9  | 583.2  |
| 75°   | 330.9  | 357.1  | 418.3  | 484.5  | 505.7  |
| 77.5° | 253.5  | 282.2  | 342.2  | 409.6  | 429.6  |
| 80°   | 183.6  | 211.0  | 267.2  | 333.4  | 355.9  |
| 82.5° | 117.4  | 141.1  | 197.3  | 259.7  | 276.0  |
| 85°   | 59.9   | 82.4   | 121.1  | 153.6  | 156.1  |
| 87.5° | 18.7   | 26.2   | 40.0   | 59.9   | 61.2   |
| 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 | 17.76            | 19.43 | 18.13 | 19.74 | 20.05 | 18.59          | 20.25 | 18.96 | 20.57 | 20.88 |
|                 | 3H   | 19.52            | 21.03 | 19.89 | 21.35 | 21.71 | 20.71          | 22.22 | 21.09 | 22.54 | 22.90 |
|                 | 4H   | 20.14            | 21.56 | 20.53 | 21.91 | 22.28 | 21.60          | 23.02 | 22.00 | 23.37 | 23.74 |
|                 | 6H   | 20.55            | 21.87 | 20.96 | 22.23 | 22.62 | 22.38          | 23.70 | 22.79 | 24.06 | 24.45 |
|                 | 8H   | 20.66            | 21.92 | 21.08 | 22.31 | 22.70 | 22.70          | 23.96 | 23.12 | 24.35 | 24.75 |
|                 | 12H  | 20.71            | 21.92 | 21.14 | 22.30 | 22.73 | 22.91          | 24.12 | 23.34 | 24.50 | 24.93 |
| 4H              | 2H   | 18.53            | 19.96 | 18.93 | 20.30 | 20.68 | 19.18          | 20.60 | 19.58 | 20.95 | 21.33 |
|                 | 3H   | 20.51            | 21.71 | 20.92 | 22.11 | 22.51 | 21.54          | 22.73 | 21.94 | 23.13 | 23.53 |
|                 | 4H   | 21.25            | 22.33 | 21.68 | 22.75 | 23.18 | 22.59          | 23.67 | 23.02 | 24.09 | 24.52 |
|                 | 6H   | 21.78            | 22.73 | 22.23 | 23.17 | 23.62 | 23.54          | 24.49 | 23.99 | 24.93 | 25.39 |
|                 | 8H   | 21.92            | 22.82 | 22.38 | 23.26 | 23.72 | 23.94          | 24.83 | 24.40 | 25.27 | 25.74 |
|                 | 12H  | 22.01            | 22.81 | 22.49 | 23.29 | 23.75 | 24.21          | 25.02 | 24.69 | 25.49 | 25.96 |
| 8H              | 4H   | 21.71            | 22.60 | 22.17 | 23.04 | 23.51 | 22.88          | 23.77 | 23.34 | 24.21 | 24.67 |
|                 | 6H   | 22.37            | 23.11 | 22.86 | 23.60 | 24.07 | 23.99          | 24.73 | 24.48 | 25.22 | 25.69 |
|                 | 8H   | 22.58            | 23.25 | 23.09 | 23.75 | 24.24 | 24.50          | 25.17 | 25.01 | 25.67 | 26.16 |
|                 | 12H  | 22.72            | 23.31 | 23.22 | 23.80 | 24.36 | 24.89          | 25.48 | 25.39 | 25.97 | 26.53 |
| 12H             | 4H   | 21.80            | 22.60 | 22.28 | 23.07 | 23.54 | 22.90          | 23.71 | 23.38 | 24.18 | 24.65 |
|                 | 6H   | 22.50            | 23.17 | 23.01 | 23.68 | 24.16 | 24.04          | 24.71 | 24.54 | 25.21 | 25.70 |
|                 | 8H   | 22.78            | 23.37 | 23.28 | 23.86 | 24.42 | 24.61          | 25.21 | 25.12 | 25.70 | 26.25 |