

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: P1584446

Luminaire Tested: 14CZSP-65-L940-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-65-L940-S  
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6200 lumens, 90CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

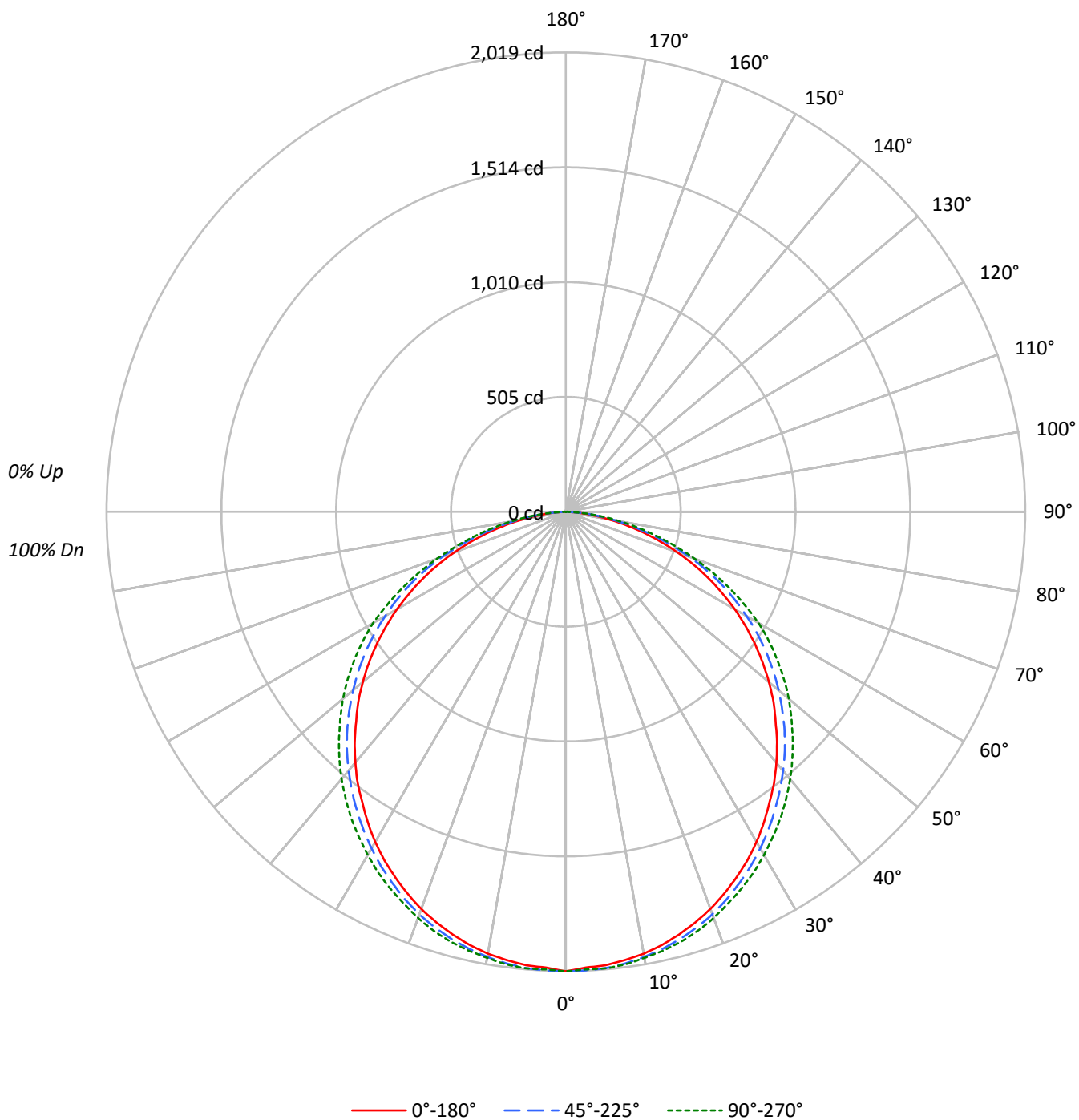
Lumens per Lamp: N/A  
Luminaire Lumens: 5838.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 48.8  
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

TEST NUMBER: P1584446

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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   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 93  | 91  | 88  |  | 90  | 88  | 86  | 84  |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  | 75  | 72  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  | 65  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 58  | 52  |  | 62  | 56  | 52  | 50  |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  |  | 57  | 51  | 45  |  | 55  | 50  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  | 44  | 39  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 35  |  | 47  | 40  | 35  |  | 46  | 40  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 42  | 36  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 28  |  | 40  | 33  | 28  |  | 39  | 33  | 28  | 26  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  | 30  | 26  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6805 | 6805 | 6805 |
| 5°  | 6767 | 6810 | 6816 |
| 10° | 6748 | 6798 | 6812 |
| 15° | 6709 | 6778 | 6825 |
| 20° | 6662 | 6751 | 6813 |
| 25° | 6594 | 6700 | 6792 |
| 30° | 6520 | 6647 | 6777 |
| 35° | 6415 | 6589 | 6765 |
| 40° | 6331 | 6535 | 6747 |
| 45° | 6212 | 6478 | 6720 |
| 50° | 6108 | 6401 | 6707 |
| 55° | 5962 | 6310 | 6664 |
| 60° | 5779 | 6185 | 6596 |
| 65° | 5522 | 6016 | 6323 |
| 70° | 5148 | 5681 | 5935 |
| 75° | 4598 | 5124 | 5415 |
| 80° | 3768 | 4319 | 4735 |
| 85° | 2525 | 3155 | 3522 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6720 cd/sqm

TEST NUMBER: P1584446

CATALOG NUMBER: 14CZSP-65-L940-S

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 191.3  | 3.3       |
| 10°-20°   | 548.3  | 9.4       |
| 20°-30°   | 830.2  | 14.2      |
| 30°-40°   | 1002.6 | 17.2      |
| 40°-50°   | 1047.8 | 17.9      |
| 50°-60°   | 960.1  | 16.4      |
| 60°-70°   | 741.1  | 12.7      |
| 70°-80°   | 416.9  | 7.1       |
| 80°-90°   | 99.7   | 1.7       |
| 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°    | 1569.8 | 26.9      |
| 0°-40°    | 2572.3 | 44.1      |
| 0°-60°    | 4580.2 | 78.5      |
| 0°-90°    | 5838.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5838.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2019 | 2019  | 2019 | 2019  | 2019 |      |
| 5°  | 2000 | 2015  | 2013 | 2015  | 2015 | 190  |
| 15° | 1923 | 1939  | 1943 | 1951  | 1957 | 543  |
| 25° | 1774 | 1789  | 1802 | 1811  | 1827 | 817  |
| 35° | 1560 | 1579  | 1602 | 1623  | 1645 | 977  |
| 45° | 1304 | 1329  | 1359 | 1387  | 1410 | 1007 |
| 55° | 1015 | 1042  | 1074 | 1108  | 1134 | 907  |
| 65° | 693  | 723   | 754  | 784   | 793  | 684  |
| 75° | 353  | 386   | 394  | 410   | 416  | 374  |
| 85° | 65   | 75    | 82   | 89    | 91   | 84   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1584446

CATALOG NUMBER: 14CZSP-65-L940-S

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2019.4 | 2019.4 | 2019.4 | 2019.4 | 2019.4 |
| 2.5°  | 2005.6 | 2021.1 | 2017.7 | 2022.8 | 2013.4 |
| 5°    | 2000.5 | 2015.1 | 2013.4 | 2015.1 | 2015.1 |
| 7.5°  | 1987.6 | 2003.0 | 2002.2 | 2004.8 | 2006.5 |
| 10°   | 1972.1 | 1986.7 | 1986.7 | 1989.3 | 1991.0 |
| 12.5° | 1950.6 | 1966.1 | 1967.8 | 1972.1 | 1975.5 |
| 15°   | 1923.1 | 1938.6 | 1942.9 | 1950.6 | 1956.6 |
| 17.5° | 1892.2 | 1908.5 | 1915.4 | 1923.1 | 1930.9 |
| 20°   | 1857.8 | 1872.4 | 1882.7 | 1888.8 | 1899.9 |
| 22.5° | 1817.4 | 1833.8 | 1844.9 | 1850.9 | 1863.0 |
| 25°   | 1773.6 | 1789.1 | 1802.0 | 1811.4 | 1826.9 |
| 27.5° | 1727.2 | 1742.7 | 1758.1 | 1769.3 | 1787.4 |
| 30°   | 1675.6 | 1692.0 | 1708.3 | 1725.5 | 1741.8 |
| 32.5° | 1619.8 | 1638.7 | 1656.7 | 1675.6 | 1693.7 |
| 35°   | 1559.6 | 1579.4 | 1601.7 | 1623.2 | 1644.7 |
| 37.5° | 1503.8 | 1521.8 | 1545.0 | 1568.2 | 1589.7 |
| 40°   | 1439.3 | 1459.1 | 1485.7 | 1511.5 | 1533.9 |
| 42.5° | 1374.0 | 1395.5 | 1424.7 | 1449.6 | 1473.7 |
| 45°   | 1303.6 | 1329.3 | 1359.4 | 1386.9 | 1410.1 |
| 47.5° | 1238.3 | 1260.6 | 1290.7 | 1320.8 | 1344.8 |
| 50°   | 1165.2 | 1190.1 | 1221.1 | 1252.9 | 1279.5 |
| 52.5° | 1091.3 | 1117.1 | 1148.9 | 1180.7 | 1208.2 |
| 55°   | 1014.8 | 1041.5 | 1074.1 | 1107.6 | 1134.3 |
| 57.5° | 936.6  | 965.0  | 998.5  | 1032.0 | 1058.7 |
| 60°   | 857.6  | 885.9  | 917.7  | 954.7  | 978.7  |
| 62.5° | 775.1  | 806.9  | 837.0  | 871.3  | 885.9  |
| 65°   | 692.6  | 722.7  | 754.5  | 784.5  | 793.1  |
| 67.5° | 608.4  | 639.3  | 667.7  | 687.4  | 698.6  |
| 70°   | 522.5  | 556.0  | 576.6  | 595.5  | 602.4  |
| 72.5° | 437.4  | 470.9  | 482.9  | 501.0  | 507.8  |
| 75°   | 353.2  | 385.8  | 393.6  | 409.9  | 415.9  |
| 77.5° | 271.5  | 301.6  | 304.2  | 323.1  | 328.3  |
| 80°   | 194.2  | 218.3  | 222.6  | 240.6  | 244.0  |
| 82.5° | 124.6  | 141.8  | 147.8  | 163.3  | 168.4  |
| 85°   | 65.3   | 74.8   | 81.6   | 89.4   | 91.1   |
| 87.5° | 21.5   | 26.6   | 22.3   | 23.2   | 21.5   |
| 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 | 18.37            | 20.02 | 18.74 | 20.34 | 20.65 | 18.91          | 20.56 | 19.28 | 20.88 | 21.19 |
|                 | 3H   | 20.15            | 21.64 | 20.53 | 21.97 | 22.33 | 20.77          | 22.26 | 21.15 | 22.59 | 22.95 |
|                 | 4H   | 20.78            | 22.18 | 21.17 | 22.53 | 22.91 | 21.44          | 22.85 | 21.84 | 23.19 | 23.57 |
|                 | 6H   | 21.19            | 22.49 | 21.60 | 22.85 | 23.24 | 21.92          | 23.22 | 22.33 | 23.59 | 23.98 |
|                 | 8H   | 21.29            | 22.54 | 21.71 | 22.92 | 23.32 | 22.06          | 23.31 | 22.49 | 23.70 | 24.10 |
|                 | 12H  | 21.34            | 22.53 | 21.77 | 22.91 | 23.34 | 22.15          | 23.34 | 22.57 | 23.72 | 24.15 |
| 4H              | 2H   | 19.10            | 20.51 | 19.50 | 20.85 | 21.23 | 19.52          | 20.93 | 19.92 | 21.28 | 21.65 |
|                 | 3H   | 21.09            | 22.27 | 21.50 | 22.67 | 23.07 | 21.59          | 22.77 | 22.00 | 23.17 | 23.57 |
|                 | 4H   | 21.85            | 22.92 | 22.28 | 23.33 | 23.77 | 22.39          | 23.46 | 22.82 | 23.87 | 24.31 |
|                 | 6H   | 22.38            | 23.31 | 22.83 | 23.75 | 24.21 | 22.99          | 23.93 | 23.45 | 24.37 | 24.82 |
|                 | 8H   | 22.52            | 23.39 | 22.98 | 23.83 | 24.30 | 23.18          | 24.06 | 23.64 | 24.50 | 24.96 |
|                 | 12H  | 22.60            | 23.38 | 23.08 | 23.86 | 24.33 | 23.30          | 24.09 | 23.78 | 24.56 | 25.03 |
| 8H              | 4H   | 22.19            | 23.06 | 22.65 | 23.50 | 23.97 | 22.67          | 23.54 | 23.12 | 23.98 | 24.45 |
|                 | 6H   | 22.83            | 23.55 | 23.32 | 24.04 | 24.52 | 23.38          | 24.10 | 23.87 | 24.59 | 25.07 |
|                 | 8H   | 23.03            | 23.68 | 23.54 | 24.18 | 24.67 | 23.64          | 24.29 | 24.14 | 24.79 | 25.28 |
|                 | 12H  | 23.16            | 23.73 | 23.66 | 24.22 | 24.78 | 23.82          | 24.39 | 24.32 | 24.88 | 25.44 |
| 12H             | 4H   | 22.23            | 23.01 | 22.70 | 23.49 | 23.95 | 22.69          | 23.47 | 23.17 | 23.95 | 24.42 |
|                 | 6H   | 22.88            | 23.54 | 23.39 | 24.04 | 24.53 | 23.41          | 24.07 | 23.92 | 24.57 | 25.06 |
|                 | 8H   | 23.14            | 23.71 | 23.64 | 24.20 | 24.76 | 23.72          | 24.30 | 24.23 | 24.79 | 25.35 |