

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: P1584436

Luminaire Tested: 14CZSP-65-L840-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584436  
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-L840-S  
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6200 lumens, 80CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

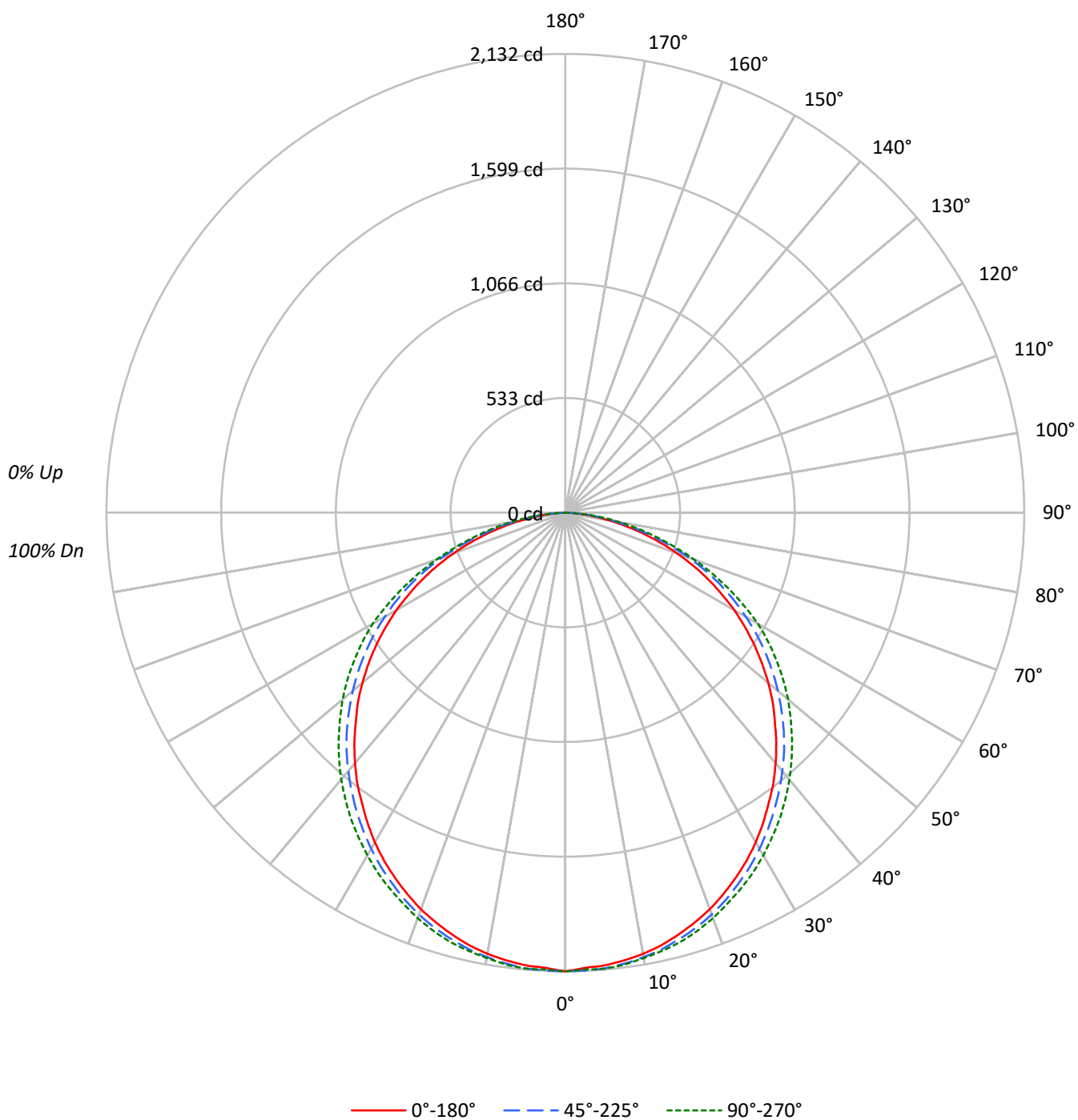
Lumens per Lamp: N/A  
Luminaire Lumens: 6164.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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: P1584436

CATALOG NUMBER: 14CZSP-65-L840-S

### Luminous Intensity Polar Plot



TEST NUMBER: P1584436

CATALOG NUMBER: 14CZSP-65-L840-S

**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°  | 7184 | 7184 | 7184 |
| 5°  | 7144 | 7190 | 7196 |
| 10° | 7124 | 7177 | 7193 |
| 15° | 7083 | 7156 | 7207 |
| 20° | 7034 | 7128 | 7193 |
| 25° | 6962 | 7074 | 7171 |
| 30° | 6884 | 7018 | 7156 |
| 35° | 6774 | 6957 | 7143 |
| 40° | 6685 | 6900 | 7124 |
| 45° | 6559 | 6840 | 7095 |
| 50° | 6449 | 6759 | 7082 |
| 55° | 6295 | 6662 | 7036 |
| 60° | 6102 | 6530 | 6964 |
| 65° | 5831 | 6351 | 6677 |
| 70° | 5434 | 5998 | 6266 |
| 75° | 4855 | 5409 | 5717 |
| 80° | 3978 | 4560 | 5001 |
| 85° | 2668 | 3333 | 3719 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7095 cd/sqm

TEST NUMBER: P1584436

CATALOG NUMBER: 14CZSP-65-L840-S

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 201.9  | 3.3       |
| 10°-20°   | 578.9  | 9.4       |
| 20°-30°   | 876.6  | 14.2      |
| 30°-40°   | 1058.6 | 17.2      |
| 40°-50°   | 1106.3 | 17.9      |
| 50°-60°   | 1013.7 | 16.4      |
| 60°-70°   | 782.5  | 12.7      |
| 70°-80°   | 440.2  | 7.1       |
| 80°-90°   | 105.3  | 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°    | 1657.4 | 26.9      |
| 0°-40°    | 2716.0 | 44.1      |
| 0°-60°    | 4836.0 | 78.5      |
| 0°-90°    | 6164.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6164.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2132 | 2132  | 2132 | 2132  | 2132 |      |
| 5°  | 2112 | 2128  | 2126 | 2128  | 2128 | 201  |
| 15° | 2030 | 2047  | 2051 | 2060  | 2066 | 573  |
| 25° | 1873 | 1889  | 1903 | 1913  | 1929 | 863  |
| 35° | 1647 | 1668  | 1691 | 1714  | 1737 | 1032 |
| 45° | 1376 | 1404  | 1435 | 1464  | 1489 | 1064 |
| 55° | 1072 | 1100  | 1134 | 1170  | 1198 | 957  |
| 65° | 731  | 763   | 797  | 828   | 837  | 723  |
| 75° | 373  | 407   | 416  | 433   | 439  | 395  |
| 85° | 69   | 79    | 86   | 94    | 96   | 89   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1584436

CATALOG NUMBER: 14CZSP-65-L840-S

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2132.1 | 2132.1 | 2132.1 | 2132.1 | 2132.1 |
| 2.5°  | 2117.6 | 2133.9 | 2130.3 | 2135.8 | 2125.8 |
| 5°    | 2112.2 | 2127.6 | 2125.8 | 2127.6 | 2127.6 |
| 7.5°  | 2098.6 | 2114.9 | 2114.0 | 2116.7 | 2118.5 |
| 10°   | 2082.2 | 2097.7 | 2097.7 | 2100.4 | 2102.2 |
| 12.5° | 2059.5 | 2075.9 | 2077.7 | 2082.2 | 2085.9 |
| 15°   | 2030.5 | 2046.8 | 2051.4 | 2059.5 | 2065.9 |
| 17.5° | 1997.9 | 2015.1 | 2022.4 | 2030.5 | 2038.7 |
| 20°   | 1961.6 | 1977.0 | 1987.9 | 1994.2 | 2006.0 |
| 22.5° | 1918.9 | 1936.2 | 1948.0 | 1954.3 | 1967.0 |
| 25°   | 1872.6 | 1889.0 | 1902.6 | 1912.6 | 1928.9 |
| 27.5° | 1823.7 | 1840.0 | 1856.3 | 1868.1 | 1887.2 |
| 30°   | 1769.2 | 1786.5 | 1803.7 | 1821.8 | 1839.1 |
| 32.5° | 1710.2 | 1730.2 | 1749.3 | 1769.2 | 1788.3 |
| 35°   | 1646.7 | 1667.6 | 1691.2 | 1713.9 | 1736.6 |
| 37.5° | 1587.8 | 1606.8 | 1631.3 | 1655.8 | 1678.5 |
| 40°   | 1519.7 | 1540.6 | 1568.7 | 1595.9 | 1619.5 |
| 42.5° | 1450.8 | 1473.4 | 1504.3 | 1530.6 | 1556.0 |
| 45°   | 1376.4 | 1403.6 | 1435.3 | 1464.4 | 1488.9 |
| 47.5° | 1307.4 | 1331.0 | 1362.8 | 1394.5 | 1419.9 |
| 50°   | 1230.3 | 1256.6 | 1289.3 | 1322.8 | 1351.0 |
| 52.5° | 1152.3 | 1179.5 | 1213.0 | 1246.6 | 1275.7 |
| 55°   | 1071.5 | 1099.6 | 1134.1 | 1169.5 | 1197.6 |
| 57.5° | 988.9  | 1018.9 | 1054.3 | 1089.7 | 1117.8 |
| 60°   | 905.5  | 935.4  | 969.0  | 1008.0 | 1033.4 |
| 62.5° | 818.4  | 851.9  | 883.7  | 920.0  | 935.4  |
| 65°   | 731.3  | 763.0  | 796.6  | 828.4  | 837.4  |
| 67.5° | 642.4  | 675.0  | 705.0  | 725.8  | 737.6  |
| 70°   | 551.6  | 587.0  | 608.8  | 628.8  | 636.0  |
| 72.5° | 461.8  | 497.2  | 509.9  | 529.0  | 536.2  |
| 75°   | 372.9  | 407.4  | 415.5  | 432.8  | 439.1  |
| 77.5° | 286.7  | 318.5  | 321.2  | 341.1  | 346.6  |
| 80°   | 205.0  | 230.5  | 235.0  | 254.0  | 257.7  |
| 82.5° | 131.6  | 149.7  | 156.1  | 172.4  | 177.8  |
| 85°   | 69.0   | 78.9   | 86.2   | 94.4   | 96.2   |
| 87.5° | 22.7   | 28.1   | 23.6   | 24.5   | 22.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1584436

CATALOG NUMBER: 14CZSP-65-L840-S

**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 | 18.56            | 20.21 | 18.93 | 20.53 | 20.84 | 19.10          | 20.75 | 19.47 | 21.07 | 21.38 |
|                 | 3H   | 20.34            | 21.83 | 20.72 | 22.16 | 22.52 | 20.96          | 22.45 | 21.34 | 22.78 | 23.14 |
|                 | 4H   | 20.97            | 22.37 | 21.36 | 22.72 | 23.10 | 21.63          | 23.04 | 22.03 | 23.38 | 23.76 |
|                 | 6H   | 21.37            | 22.68 | 21.78 | 23.04 | 23.43 | 22.11          | 23.41 | 22.52 | 23.77 | 24.16 |
|                 | 8H   | 21.48            | 22.72 | 21.90 | 23.11 | 23.51 | 22.25          | 23.50 | 22.68 | 23.89 | 24.29 |
|                 | 12H  | 21.53            | 22.72 | 21.96 | 23.10 | 23.53 | 22.33          | 23.53 | 22.76 | 23.91 | 24.34 |
| 4H              | 2H   | 19.29            | 20.69 | 19.69 | 21.04 | 21.42 | 19.71          | 21.12 | 20.11 | 21.46 | 21.84 |
|                 | 3H   | 21.28            | 22.46 | 21.69 | 22.86 | 23.26 | 21.78          | 22.96 | 22.19 | 23.36 | 23.76 |
|                 | 4H   | 22.04            | 23.11 | 22.47 | 23.52 | 23.96 | 22.58          | 23.65 | 23.01 | 24.06 | 24.49 |
|                 | 6H   | 22.57            | 23.50 | 23.02 | 23.94 | 24.40 | 23.18          | 24.11 | 23.63 | 24.55 | 25.01 |
|                 | 8H   | 22.71            | 23.58 | 23.17 | 24.02 | 24.49 | 23.37          | 24.25 | 23.83 | 24.69 | 25.15 |
|                 | 12H  | 22.79            | 23.57 | 23.27 | 24.05 | 24.51 | 23.49          | 24.28 | 23.97 | 24.75 | 25.22 |
| 8H              | 4H   | 22.38            | 23.25 | 22.84 | 23.69 | 24.16 | 22.85          | 23.73 | 23.31 | 24.17 | 24.63 |
|                 | 6H   | 23.02            | 23.74 | 23.51 | 24.23 | 24.71 | 23.57          | 24.29 | 24.06 | 24.78 | 25.25 |
|                 | 8H   | 23.22            | 23.87 | 23.73 | 24.37 | 24.86 | 23.82          | 24.47 | 24.33 | 24.98 | 25.47 |
|                 | 12H  | 23.35            | 23.92 | 23.85 | 24.41 | 24.97 | 24.01          | 24.58 | 24.51 | 25.07 | 25.63 |
| 12H             | 4H   | 22.41            | 23.20 | 22.89 | 23.67 | 24.14 | 22.88          | 23.66 | 23.36 | 24.14 | 24.61 |
|                 | 6H   | 23.07            | 23.72 | 23.58 | 24.23 | 24.72 | 23.60          | 24.26 | 24.11 | 24.76 | 25.25 |
|                 | 8H   | 23.32            | 23.90 | 23.83 | 24.39 | 24.95 | 23.91          | 24.49 | 24.42 | 24.98 | 25.54 |