

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: P1584745

Luminaire Tested: 14CZSP-A-65-L935

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-A-65-L935  
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 6200 lumens, 90CRI, Ribbed Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

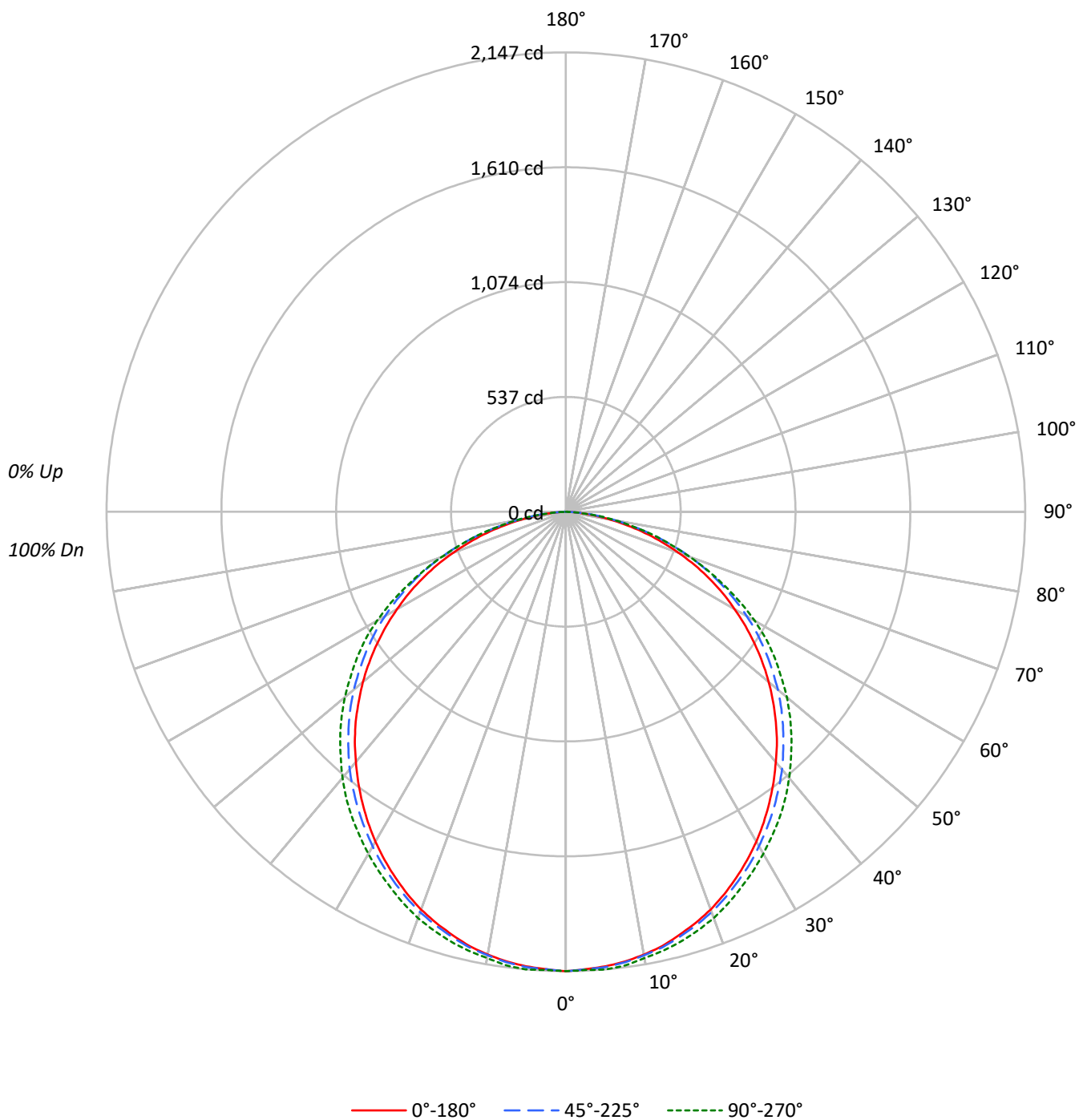
Lumens per Lamp: N/A  
Luminaire Lumens: 6196.0 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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

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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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 93  | 91  | 88  |  | 90  |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 58  | 53  |  | 62  |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  |  | 57  | 51  | 45  |  | 55  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 35  |  | 47  | 40  | 35  |  | 46  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  |  | 40  | 33  | 28  |  | 39  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7235 | 7235 | 7235 |
| 5°  | 7213 | 7226 | 7263 |
| 10° | 7190 | 7203 | 7247 |
| 15° | 7145 | 7177 | 7254 |
| 20° | 7094 | 7140 | 7246 |
| 25° | 7014 | 7082 | 7205 |
| 30° | 6926 | 7026 | 7183 |
| 35° | 6823 | 6967 | 7171 |
| 40° | 6715 | 6916 | 7143 |
| 45° | 6618 | 6845 | 7108 |
| 50° | 6490 | 6779 | 7068 |
| 55° | 6335 | 6691 | 7003 |
| 60° | 6140 | 6586 | 6871 |
| 65° | 5902 | 6400 | 6532 |
| 70° | 5538 | 6081 | 6081 |
| 75° | 4975 | 5524 | 5549 |
| 80° | 4098 | 4669 | 4669 |
| 85° | 2842 | 3410 | 2981 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7108 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 203.4  | 3.3       |
| 10°-20°   | 582.5  | 9.4       |
| 20°-30°   | 881.7  | 14.2      |
| 30°-40°   | 1064.4 | 17.2      |
| 40°-50°   | 1112.0 | 17.9      |
| 50°-60°   | 1018.7 | 16.4      |
| 60°-70°   | 785.4  | 12.7      |
| 70°-80°   | 443.1  | 7.2       |
| 80°-90°   | 104.9  | 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°    | 1667.6 | 26.9      |
| 0°-40°    | 2732.0 | 44.1      |
| 0°-60°    | 4862.7 | 78.5      |
| 0°-90°    | 6196.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6196.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2147 | 2147  | 2147 | 2147  | 2147 |      |
| 5°  | 2133 | 2147  | 2136 | 2140  | 2147 | 203  |
| 15° | 2048 | 2061  | 2057 | 2074  | 2079 | 578  |
| 25° | 1886 | 1903  | 1905 | 1931  | 1938 | 869  |
| 35° | 1659 | 1681  | 1694 | 1730  | 1743 | 1038 |
| 45° | 1389 | 1413  | 1436 | 1479  | 1492 | 1070 |
| 55° | 1078 | 1106  | 1139 | 1181  | 1192 | 963  |
| 65° | 740  | 764   | 803  | 830   | 819  | 732  |
| 75° | 382  | 412   | 424  | 435   | 426  | 405  |
| 85° | 74   | 83    | 88   | 94    | 77   | 93   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2147.3 | 2147.3 | 2147.3 | 2147.3 | 2147.3 |
| 2.5°  | 2140.0 | 2154.7 | 2140.0 | 2147.3 | 2143.7 |
| 5°    | 2132.6 | 2147.3 | 2136.3 | 2140.0 | 2147.3 |
| 7.5°  | 2119.8 | 2134.5 | 2123.5 | 2129.0 | 2138.1 |
| 10°   | 2101.4 | 2116.1 | 2105.1 | 2114.3 | 2117.9 |
| 12.5° | 2079.4 | 2092.2 | 2084.9 | 2095.9 | 2101.4 |
| 15°   | 2048.1 | 2061.0 | 2057.3 | 2073.9 | 2079.4 |
| 17.5° | 2015.1 | 2029.8 | 2026.1 | 2046.3 | 2051.8 |
| 20°   | 1978.3 | 1991.2 | 1991.2 | 2009.6 | 2020.6 |
| 22.5° | 1934.3 | 1948.9 | 1950.8 | 1971.0 | 1982.0 |
| 25°   | 1886.5 | 1903.0 | 1904.9 | 1930.6 | 1937.9 |
| 27.5° | 1835.1 | 1851.6 | 1858.9 | 1886.5 | 1893.8 |
| 30°   | 1780.0 | 1796.5 | 1805.7 | 1836.9 | 1846.1 |
| 32.5° | 1721.2 | 1741.4 | 1750.6 | 1785.5 | 1794.6 |
| 35°   | 1658.7 | 1680.8 | 1693.6 | 1730.4 | 1743.2 |
| 37.5° | 1594.4 | 1616.5 | 1633.0 | 1671.6 | 1686.3 |
| 40°   | 1526.5 | 1550.3 | 1572.4 | 1611.0 | 1623.8 |
| 42.5° | 1460.3 | 1484.2 | 1504.4 | 1544.8 | 1557.7 |
| 45°   | 1388.7 | 1412.6 | 1436.5 | 1478.7 | 1491.6 |
| 47.5° | 1313.4 | 1339.1 | 1366.7 | 1405.2 | 1421.8 |
| 50°   | 1238.1 | 1263.8 | 1293.2 | 1333.6 | 1348.3 |
| 52.5° | 1159.1 | 1186.6 | 1216.0 | 1258.3 | 1269.3 |
| 55°   | 1078.3 | 1105.8 | 1138.9 | 1181.1 | 1192.1 |
| 57.5° | 995.6  | 1025.0 | 1059.9 | 1100.3 | 1111.3 |
| 60°   | 911.1  | 940.5  | 977.2  | 1015.8 | 1019.5 |
| 62.5° | 828.4  | 854.2  | 890.9  | 927.6  | 922.1  |
| 65°   | 740.3  | 764.1  | 802.7  | 830.3  | 819.3  |
| 67.5° | 652.1  | 677.8  | 712.7  | 732.9  | 718.2  |
| 70°   | 562.1  | 589.6  | 617.2  | 631.9  | 617.2  |
| 72.5° | 472.1  | 501.5  | 521.7  | 530.9  | 518.0  |
| 75°   | 382.1  | 411.5  | 424.3  | 435.3  | 426.2  |
| 77.5° | 295.7  | 323.3  | 328.8  | 341.7  | 328.8  |
| 80°   | 211.2  | 237.0  | 240.6  | 253.5  | 240.6  |
| 82.5° | 135.9  | 152.5  | 159.8  | 170.8  | 158.0  |
| 85°   | 73.5   | 82.7   | 88.2   | 93.7   | 77.1   |
| 87.5° | 25.7   | 29.4   | 25.7   | 22.0   | 9.2    |
| 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 | 18.59            | 20.24 | 18.95 | 20.55 | 20.87 | 19.13          | 20.78 | 19.50 | 21.10 | 21.41 |
|                 | 3H   | 20.38            | 21.87 | 20.75 | 22.20 | 22.55 | 20.94          | 22.43 | 21.32 | 22.76 | 23.12 |
|                 | 4H   | 21.02            | 22.42 | 21.41 | 22.77 | 23.14 | 21.58          | 22.99 | 21.98 | 23.34 | 23.71 |
|                 | 6H   | 21.44            | 22.74 | 21.85 | 23.11 | 23.50 | 22.02          | 23.33 | 22.43 | 23.69 | 24.08 |
|                 | 8H   | 21.55            | 22.79 | 21.97 | 23.18 | 23.58 | 22.15          | 23.39 | 22.57 | 23.78 | 24.18 |
|                 | 12H  | 21.60            | 22.80 | 22.03 | 23.18 | 23.61 | 22.20          | 23.40 | 22.63 | 23.78 | 24.21 |
| 4H              | 2H   | 19.32            | 20.72 | 19.71 | 21.07 | 21.44 | 19.74          | 21.15 | 20.14 | 21.49 | 21.87 |
|                 | 3H   | 21.32            | 22.50 | 21.73 | 22.90 | 23.30 | 21.78          | 22.96 | 22.19 | 23.35 | 23.75 |
|                 | 4H   | 22.09            | 23.16 | 22.52 | 23.57 | 24.01 | 22.56          | 23.62 | 22.99 | 24.04 | 24.47 |
|                 | 6H   | 22.63            | 23.57 | 23.09 | 24.01 | 24.46 | 23.12          | 24.06 | 23.58 | 24.50 | 24.95 |
|                 | 8H   | 22.78            | 23.65 | 23.24 | 24.09 | 24.56 | 23.29          | 24.16 | 23.75 | 24.60 | 25.07 |
|                 | 12H  | 22.86            | 23.65 | 23.34 | 24.12 | 24.59 | 23.38          | 24.17 | 23.86 | 24.64 | 25.11 |
| 8H              | 4H   | 22.43            | 23.31 | 22.89 | 23.75 | 24.21 | 22.84          | 23.72 | 23.30 | 24.16 | 24.62 |
|                 | 6H   | 23.09            | 23.82 | 23.58 | 24.30 | 24.78 | 23.53          | 24.25 | 24.02 | 24.74 | 25.21 |
|                 | 8H   | 23.30            | 23.95 | 23.81 | 24.45 | 24.94 | 23.76          | 24.41 | 24.27 | 24.92 | 25.40 |
|                 | 12H  | 23.43            | 24.01 | 23.94 | 24.50 | 25.06 | 23.91          | 24.48 | 24.42 | 24.97 | 25.53 |
| 12H             | 4H   | 22.47            | 23.25 | 22.95 | 23.73 | 24.20 | 22.87          | 23.66 | 23.35 | 24.13 | 24.60 |
|                 | 6H   | 23.15            | 23.80 | 23.65 | 24.30 | 24.79 | 23.57          | 24.22 | 24.08 | 24.73 | 25.21 |
|                 | 8H   | 23.40            | 23.98 | 23.91 | 24.47 | 25.03 | 23.85          | 24.43 | 24.36 | 24.92 | 25.48 |