

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: P1584321

Luminaire Tested: 14CZSP-47-L850

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584321  
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-47-L850  
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Ribbed Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

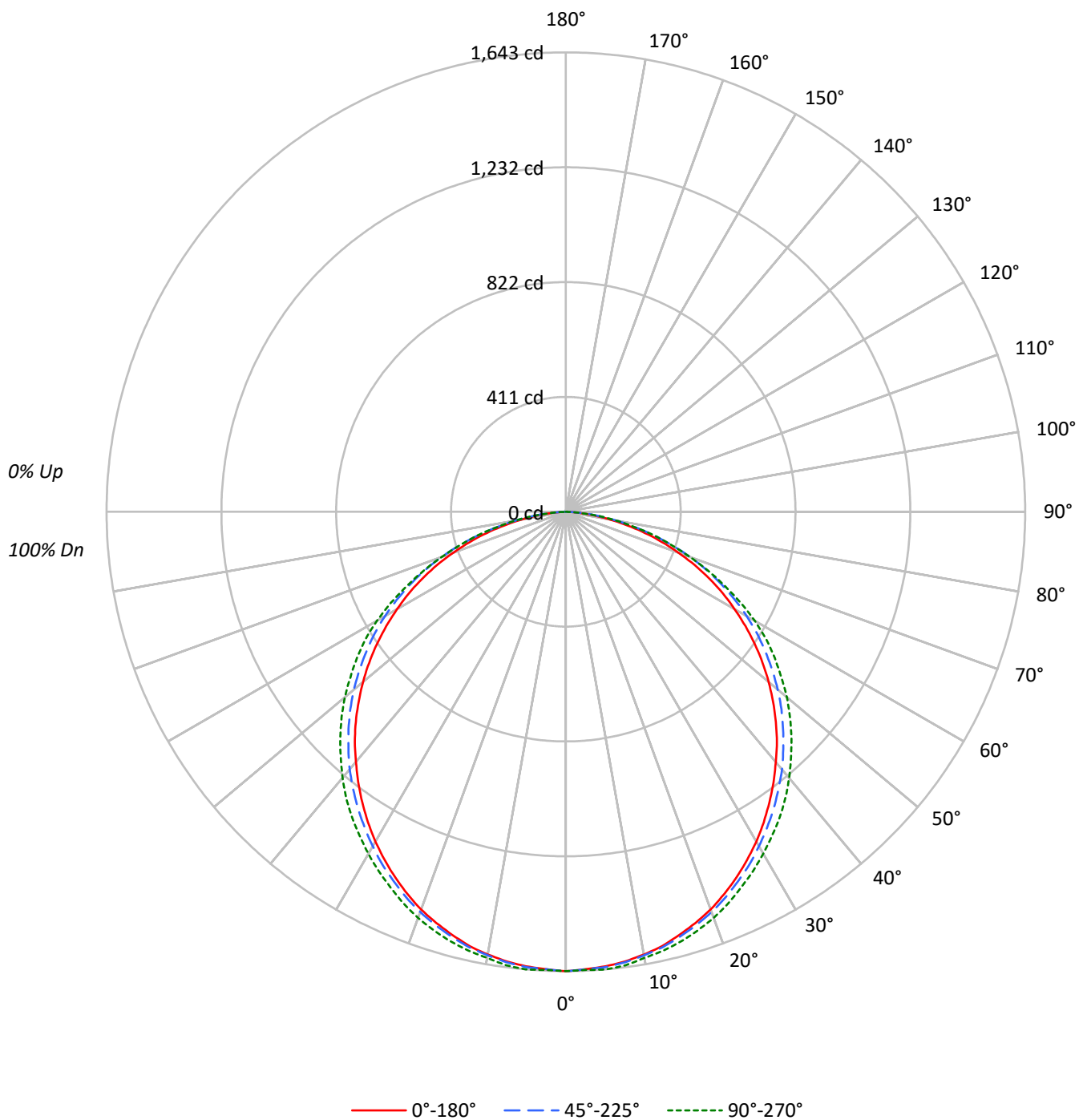
Lumens per Lamp: N/A  
Luminaire Lumens: 4741.0 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.8  
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  |     |     | 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  | 53  |  | 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  | 29  |  | 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°  | 5537 | 5537 | 5537 |
| 5°  | 5519 | 5529 | 5558 |
| 10° | 5502 | 5511 | 5545 |
| 15° | 5467 | 5492 | 5550 |
| 20° | 5428 | 5463 | 5544 |
| 25° | 5367 | 5419 | 5513 |
| 30° | 5299 | 5376 | 5496 |
| 35° | 5221 | 5331 | 5487 |
| 40° | 5138 | 5292 | 5465 |
| 45° | 5064 | 5238 | 5439 |
| 50° | 4966 | 5187 | 5408 |
| 55° | 4847 | 5119 | 5359 |
| 60° | 4698 | 5039 | 5257 |
| 65° | 4516 | 4897 | 4998 |
| 70° | 4237 | 4653 | 4653 |
| 75° | 3807 | 4227 | 4246 |
| 80° | 3136 | 3572 | 3572 |
| 85° | 2173 | 2610 | 2281 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5439 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.6  | 3.3       |
| 10°-20°   | 445.7  | 9.4       |
| 20°-30°   | 674.6  | 14.2      |
| 30°-40°   | 814.4  | 17.2      |
| 40°-50°   | 850.9  | 17.9      |
| 50°-60°   | 779.5  | 16.4      |
| 60°-70°   | 601.0  | 12.7      |
| 70°-80°   | 339.0  | 7.2       |
| 80°-90°   | 80.3   | 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°    | 1276.0 | 26.9      |
| 0°-40°    | 2090.4 | 44.1      |
| 0°-60°    | 3720.7 | 78.5      |
| 0°-90°    | 4741.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4741.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1643 | 1643  | 1643 | 1643  | 1643 |      |
| 5°  | 1632 | 1643  | 1635 | 1638  | 1643 | 155  |
| 15° | 1567 | 1577  | 1574 | 1587  | 1591 | 442  |
| 25° | 1444 | 1456  | 1458 | 1477  | 1483 | 665  |
| 35° | 1269 | 1286  | 1296 | 1324  | 1334 | 794  |
| 45° | 1063 | 1081  | 1099 | 1132  | 1141 | 819  |
| 55° | 825  | 846   | 871  | 904   | 912  | 737  |
| 65° | 566  | 585   | 614  | 635   | 627  | 560  |
| 75° | 292  | 315   | 325  | 333   | 326  | 310  |
| 85° | 56   | 63    | 68   | 72    | 59   | 71   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1643.1 | 1643.1 | 1643.1 | 1643.1 | 1643.1 |
| 2.5°  | 1637.5 | 1648.7 | 1637.5 | 1643.1 | 1640.3 |
| 5°    | 1631.8 | 1643.1 | 1634.6 | 1637.5 | 1643.1 |
| 7.5°  | 1622.0 | 1633.2 | 1624.8 | 1629.0 | 1636.1 |
| 10°   | 1607.9 | 1619.2 | 1610.8 | 1617.8 | 1620.6 |
| 12.5° | 1591.1 | 1600.9 | 1595.3 | 1603.7 | 1607.9 |
| 15°   | 1567.2 | 1577.0 | 1574.2 | 1586.9 | 1591.1 |
| 17.5° | 1541.9 | 1553.1 | 1550.3 | 1565.8 | 1570.0 |
| 20°   | 1513.8 | 1523.6 | 1523.6 | 1537.7 | 1546.1 |
| 22.5° | 1480.0 | 1491.3 | 1492.7 | 1508.1 | 1516.6 |
| 25°   | 1443.5 | 1456.1 | 1457.5 | 1477.2 | 1482.8 |
| 27.5° | 1404.1 | 1416.8 | 1422.4 | 1443.5 | 1449.1 |
| 30°   | 1362.0 | 1374.6 | 1381.6 | 1405.5 | 1412.6 |
| 32.5° | 1317.0 | 1332.5 | 1339.5 | 1366.2 | 1373.2 |
| 35°   | 1269.2 | 1286.1 | 1295.9 | 1324.0 | 1333.9 |
| 37.5° | 1220.0 | 1236.9 | 1249.5 | 1279.0 | 1290.3 |
| 40°   | 1168.0 | 1186.3 | 1203.1 | 1232.7 | 1242.5 |
| 42.5° | 1117.4 | 1135.7 | 1151.1 | 1182.1 | 1191.9 |
| 45°   | 1062.6 | 1080.9 | 1099.1 | 1131.5 | 1141.3 |
| 47.5° | 1005.0 | 1024.6 | 1045.7 | 1075.2 | 1087.9 |
| 50°   | 947.3  | 967.0  | 989.5  | 1020.4 | 1031.7 |
| 52.5° | 886.9  | 908.0  | 930.5  | 962.8  | 971.2  |
| 55°   | 825.1  | 846.1  | 871.4  | 903.8  | 912.2  |
| 57.5° | 761.8  | 784.3  | 811.0  | 841.9  | 850.4  |
| 60°   | 697.1  | 719.6  | 747.7  | 777.3  | 780.1  |
| 62.5° | 633.9  | 653.6  | 681.7  | 709.8  | 705.6  |
| 65°   | 566.4  | 584.7  | 614.2  | 635.3  | 626.9  |
| 67.5° | 499.0  | 518.6  | 545.4  | 560.8  | 549.6  |
| 70°   | 430.1  | 451.2  | 472.3  | 483.5  | 472.3  |
| 72.5° | 361.2  | 383.7  | 399.2  | 406.2  | 396.4  |
| 75°   | 292.4  | 314.8  | 324.7  | 333.1  | 326.1  |
| 77.5° | 226.3  | 247.4  | 251.6  | 261.4  | 251.6  |
| 80°   | 161.6  | 181.3  | 184.1  | 194.0  | 184.1  |
| 82.5° | 104.0  | 116.7  | 122.3  | 130.7  | 120.9  |
| 85°   | 56.2   | 63.2   | 67.5   | 71.7   | 59.0   |
| 87.5° | 19.7   | 22.5   | 19.7   | 16.9   | 7.0    |
| 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 | 17.66            | 19.31 | 18.02 | 19.62 | 19.94 | 18.20          | 19.85 | 18.57 | 20.17 | 20.48 |
|                 | 3H   | 19.45            | 20.94 | 19.82 | 21.27 | 21.63 | 20.01          | 21.50 | 20.39 | 21.83 | 22.19 |
|                 | 4H   | 20.09            | 21.49 | 20.48 | 21.84 | 22.21 | 20.65          | 22.06 | 21.05 | 22.41 | 22.78 |
|                 | 6H   | 20.51            | 21.81 | 20.92 | 22.18 | 22.57 | 21.09          | 22.40 | 21.50 | 22.76 | 23.15 |
|                 | 8H   | 20.62            | 21.86 | 21.04 | 22.25 | 22.65 | 21.22          | 22.46 | 21.64 | 22.85 | 23.25 |
|                 | 12H  | 20.67            | 21.87 | 21.10 | 22.25 | 22.68 | 21.27          | 22.47 | 21.70 | 22.85 | 23.28 |
| 4H              | 2H   | 18.39            | 19.79 | 18.78 | 20.14 | 20.51 | 18.81          | 20.22 | 19.21 | 20.56 | 20.94 |
|                 | 3H   | 20.39            | 21.57 | 20.80 | 21.97 | 22.37 | 20.85          | 22.03 | 21.26 | 22.42 | 22.82 |
|                 | 4H   | 21.16            | 22.23 | 21.59 | 22.64 | 23.08 | 21.63          | 22.69 | 22.06 | 23.11 | 23.54 |
|                 | 6H   | 21.70            | 22.64 | 22.16 | 23.08 | 23.53 | 22.19          | 23.13 | 22.65 | 23.57 | 24.02 |
|                 | 8H   | 21.85            | 22.72 | 22.31 | 23.16 | 23.63 | 22.36          | 23.23 | 22.82 | 23.67 | 24.14 |
|                 | 12H  | 21.93            | 22.72 | 22.41 | 23.19 | 23.66 | 22.45          | 23.24 | 22.93 | 23.71 | 24.18 |
| 8H              | 4H   | 21.50            | 22.38 | 21.96 | 22.82 | 23.28 | 21.91          | 22.79 | 22.37 | 23.23 | 23.69 |
|                 | 6H   | 22.16            | 22.89 | 22.65 | 23.37 | 23.85 | 22.60          | 23.32 | 23.09 | 23.81 | 24.28 |
|                 | 8H   | 22.37            | 23.02 | 22.88 | 23.52 | 24.01 | 22.83          | 23.48 | 23.34 | 23.99 | 24.47 |
|                 | 12H  | 22.50            | 23.08 | 23.01 | 23.57 | 24.13 | 22.98          | 23.55 | 23.49 | 24.05 | 24.60 |
| 12H             | 4H   | 21.54            | 22.32 | 22.02 | 22.80 | 23.27 | 21.94          | 22.73 | 22.42 | 23.20 | 23.67 |
|                 | 6H   | 22.22            | 22.87 | 22.72 | 23.37 | 23.86 | 22.64          | 23.29 | 23.15 | 23.80 | 24.28 |
|                 | 8H   | 22.47            | 23.05 | 22.98 | 23.54 | 24.10 | 22.92          | 23.50 | 23.43 | 23.99 | 24.55 |