

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: P1587725

Luminaire Tested: 22CZSP-SB-47-L935

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1587725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-SB-47-L935  
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

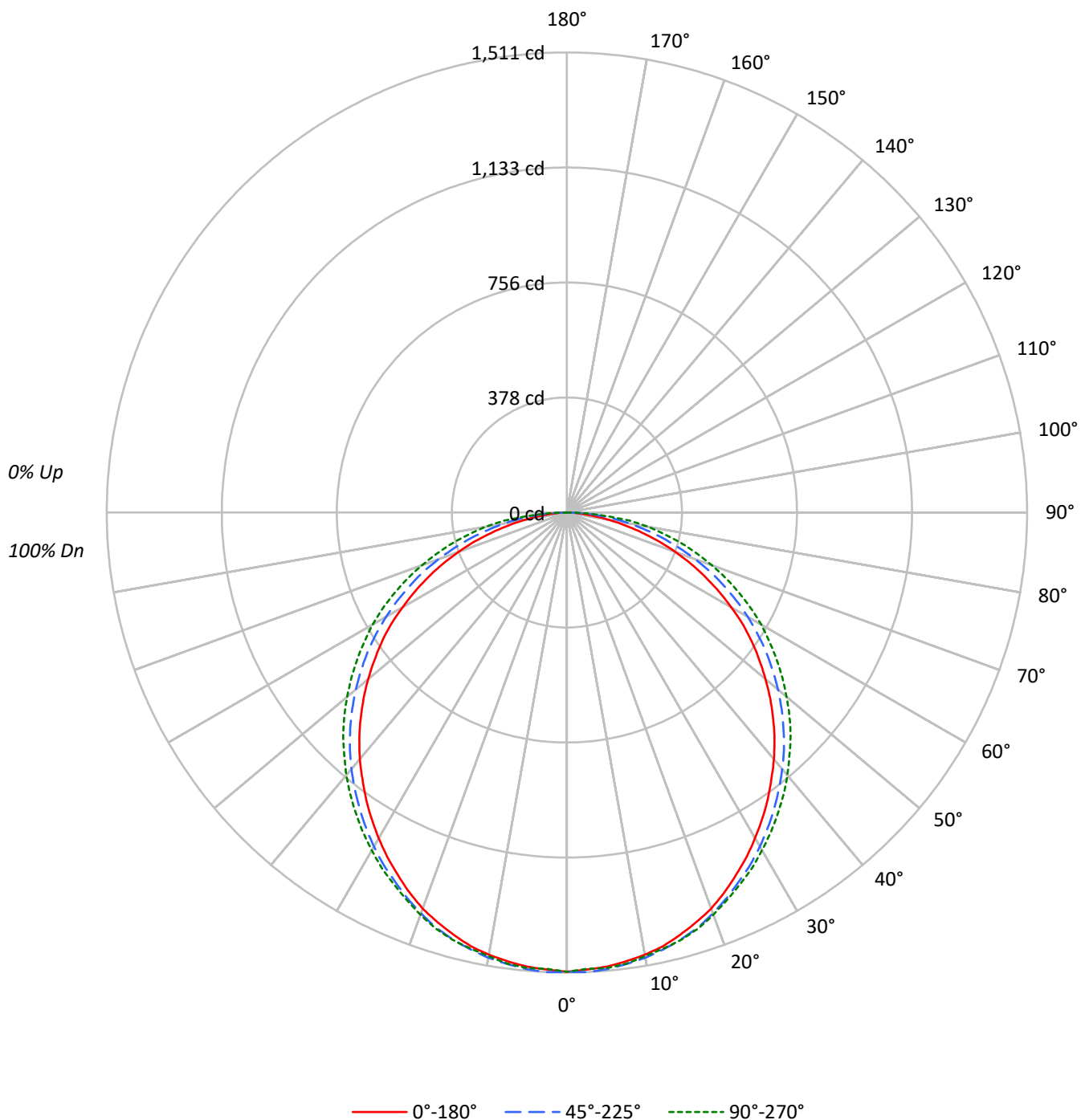
Lumens per Lamp: N/A  
Luminaire Lumens: 4402.0 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.1  
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  | 68  |
| 3   | 89  | 79  | 70  | 63  | 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°  | 4723 | 4723 | 4723 |
| 5°  | 4706 | 4733 | 4721 |
| 10° | 4689 | 4722 | 4704 |
| 15° | 4654 | 4703 | 4709 |
| 20° | 4614 | 4669 | 4685 |
| 25° | 4539 | 4619 | 4652 |
| 30° | 4467 | 4582 | 4632 |
| 35° | 4395 | 4537 | 4616 |
| 40° | 4323 | 4498 | 4604 |
| 45° | 4241 | 4456 | 4600 |
| 50° | 4149 | 4407 | 4588 |
| 55° | 4054 | 4359 | 4588 |
| 60° | 3904 | 4294 | 4616 |
| 65° | 3721 | 4211 | 4618 |
| 70° | 3472 | 4094 | 4632 |
| 75° | 3089 | 3945 | 4711 |
| 80° | 2537 | 3780 | 4889 |
| 85° | 1674 | 3550 | 4419 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5007 cd/sqm

TEST NUMBER: P1587725

CATALOG NUMBER: 22CZSP-SB-47-L935

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.7  | 3.2       |
| 10°-20°   | 408.4  | 9.3       |
| 20°-30°   | 615.6  | 14.0      |
| 30°-40°   | 741.3  | 16.8      |
| 40°-50°   | 774.5  | 17.6      |
| 50°-60°   | 711.5  | 16.2      |
| 60°-70°   | 560.3  | 12.7      |
| 70°-80°   | 343.5  | 7.8       |
| 80°-90°   | 104.2  | 2.4       |
| 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°    | 1166.7 | 26.5      |
| 0°-40°    | 1908.0 | 43.3      |
| 0°-60°    | 3394.0 | 77.1      |
| 0°-90°    | 4402.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4402.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1508 | 1508  | 1508 | 1508  | 1508 |      |
| 5°  | 1497 | 1500  | 1506 | 1504  | 1502 | 142  |
| 15° | 1436 | 1441  | 1451 | 1456  | 1452 | 405  |
| 25° | 1314 | 1322  | 1337 | 1351  | 1346 | 606  |
| 35° | 1150 | 1165  | 1187 | 1208  | 1208 | 719  |
| 45° | 958  | 978   | 1006 | 1034  | 1039 | 739  |
| 55° | 742  | 764   | 798  | 833   | 840  | 662  |
| 65° | 502  | 528   | 568  | 606   | 623  | 496  |
| 75° | 255  | 285   | 326  | 365   | 389  | 271  |
| 85° | 47   | 69    | 99   | 110   | 123  | 60   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1587725

CATALOG NUMBER: 22CZSP-SB-47-L935

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1508.4 | 1508.4 | 1508.4 | 1508.4 | 1508.4 |
| 2.5°  | 1502.8 | 1506.5 | 1511.2 | 1503.7 | 1500.0 |
| 5°    | 1497.2 | 1500.0 | 1505.6 | 1503.7 | 1501.9 |
| 7.5°  | 1487.0 | 1488.8 | 1496.3 | 1496.3 | 1494.4 |
| 10°   | 1474.8 | 1478.6 | 1485.1 | 1484.2 | 1479.5 |
| 12.5° | 1459.0 | 1461.8 | 1469.3 | 1469.3 | 1466.5 |
| 15°   | 1435.7 | 1441.3 | 1450.6 | 1456.2 | 1452.5 |
| 17.5° | 1411.5 | 1417.1 | 1429.2 | 1434.8 | 1432.9 |
| 20°   | 1384.5 | 1389.1 | 1401.2 | 1409.6 | 1405.9 |
| 22.5° | 1350.9 | 1356.5 | 1370.5 | 1379.8 | 1376.1 |
| 25°   | 1313.7 | 1322.1 | 1337.0 | 1350.9 | 1346.3 |
| 27.5° | 1276.4 | 1285.7 | 1304.4 | 1318.3 | 1316.5 |
| 30°   | 1235.4 | 1247.5 | 1267.1 | 1284.8 | 1281.1 |
| 32.5° | 1193.5 | 1207.5 | 1228.0 | 1246.6 | 1245.7 |
| 35°   | 1149.7 | 1164.6 | 1187.0 | 1208.4 | 1207.5 |
| 37.5° | 1103.1 | 1120.8 | 1144.1 | 1167.4 | 1168.3 |
| 40°   | 1057.5 | 1074.2 | 1100.3 | 1125.5 | 1126.4 |
| 42.5° | 1009.0 | 1026.7 | 1054.7 | 1080.7 | 1081.7 |
| 45°   | 957.8  | 978.3  | 1006.2 | 1034.2 | 1038.8 |
| 47.5° | 905.6  | 927.0  | 955.9  | 985.7  | 991.3  |
| 50°   | 851.6  | 873.9  | 904.7  | 936.3  | 941.9  |
| 52.5° | 796.6  | 819.9  | 851.6  | 883.2  | 891.6  |
| 55°   | 742.5  | 764.0  | 798.4  | 832.9  | 840.4  |
| 57.5° | 685.7  | 705.3  | 742.5  | 778.9  | 788.2  |
| 60°   | 623.3  | 647.5  | 685.7  | 722.1  | 737.0  |
| 62.5° | 562.7  | 588.8  | 628.0  | 664.3  | 681.1  |
| 65°   | 502.2  | 528.3  | 568.3  | 606.5  | 623.3  |
| 67.5° | 440.7  | 467.7  | 510.6  | 546.9  | 565.5  |
| 70°   | 379.2  | 406.2  | 447.2  | 486.3  | 505.9  |
| 72.5° | 317.7  | 346.6  | 386.6  | 426.7  | 446.3  |
| 75°   | 255.3  | 285.1  | 326.1  | 365.2  | 389.4  |
| 77.5° | 196.6  | 225.5  | 266.5  | 306.5  | 327.0  |
| 80°   | 140.7  | 169.6  | 209.6  | 249.7  | 271.1  |
| 82.5° | 89.4   | 116.5  | 155.6  | 189.1  | 208.7  |
| 85°   | 46.6   | 68.9   | 98.8   | 109.9  | 123.0  |
| 87.5° | 14.0   | 27.0   | 38.2   | 42.9   | 53.1   |
| 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 | 16.91            | 18.57 | 17.27 | 18.88 | 19.20 | 17.65          | 19.32 | 18.02 | 19.63 | 19.94 |
|                 | 3H   | 18.67            | 20.18 | 19.05 | 20.50 | 20.86 | 19.75          | 21.26 | 20.13 | 21.58 | 21.94 |
|                 | 4H   | 19.29            | 20.72 | 19.69 | 21.06 | 21.44 | 20.63          | 22.06 | 21.03 | 22.40 | 22.78 |
|                 | 6H   | 19.71            | 21.03 | 20.12 | 21.39 | 21.78 | 21.40          | 22.72 | 21.81 | 23.08 | 23.48 |
|                 | 8H   | 19.81            | 21.08 | 20.24 | 21.46 | 21.86 | 21.71          | 22.97 | 22.14 | 23.36 | 23.76 |
|                 | 12H  | 19.86            | 21.08 | 20.29 | 21.46 | 21.89 | 21.92          | 23.14 | 22.35 | 23.52 | 23.95 |
| 4H              | 2H   | 17.68            | 19.10 | 18.08 | 19.45 | 19.82 | 18.26          | 19.68 | 18.65 | 20.03 | 20.40 |
|                 | 3H   | 19.67            | 20.87 | 20.08 | 21.27 | 21.66 | 20.59          | 21.78 | 20.99 | 22.18 | 22.58 |
|                 | 4H   | 20.42            | 21.51 | 20.86 | 21.92 | 22.36 | 21.62          | 22.71 | 22.05 | 23.12 | 23.55 |
|                 | 6H   | 20.96            | 21.91 | 21.41 | 22.35 | 22.81 | 22.55          | 23.50 | 23.00 | 23.94 | 24.40 |
|                 | 8H   | 21.11            | 22.00 | 21.57 | 22.44 | 22.91 | 22.93          | 23.83 | 23.39 | 24.27 | 24.73 |
|                 | 12H  | 21.19            | 22.00 | 21.67 | 22.47 | 22.94 | 23.21          | 24.01 | 23.69 | 24.49 | 24.96 |
| 8H              | 4H   | 20.88            | 21.77 | 21.34 | 22.21 | 22.67 | 21.92          | 22.81 | 22.38 | 23.25 | 23.72 |
|                 | 6H   | 21.55            | 22.30 | 22.05 | 22.79 | 23.26 | 23.00          | 23.75 | 23.50 | 24.24 | 24.71 |
|                 | 8H   | 21.78            | 22.44 | 22.28 | 22.95 | 23.43 | 23.49          | 24.16 | 24.00 | 24.67 | 25.15 |
|                 | 12H  | 21.92            | 22.51 | 22.43 | 23.00 | 23.56 | 23.87          | 24.46 | 24.37 | 24.95 | 25.51 |
| 12H             | 4H   | 20.96            | 21.76 | 21.44 | 22.24 | 22.71 | 21.95          | 22.75 | 22.43 | 23.23 | 23.69 |
|                 | 6H   | 21.68            | 22.35 | 22.19 | 22.86 | 23.34 | 23.06          | 23.73 | 23.56 | 24.23 | 24.72 |
|                 | 8H   | 21.97            | 22.57 | 22.48 | 23.06 | 23.61 | 23.61          | 24.20 | 24.12 | 24.69 | 25.25 |