

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: P1585750

Luminaire Tested: 14CZSP-SB-49HE-L950-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1585750  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-SB-49HE-L950-S  
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

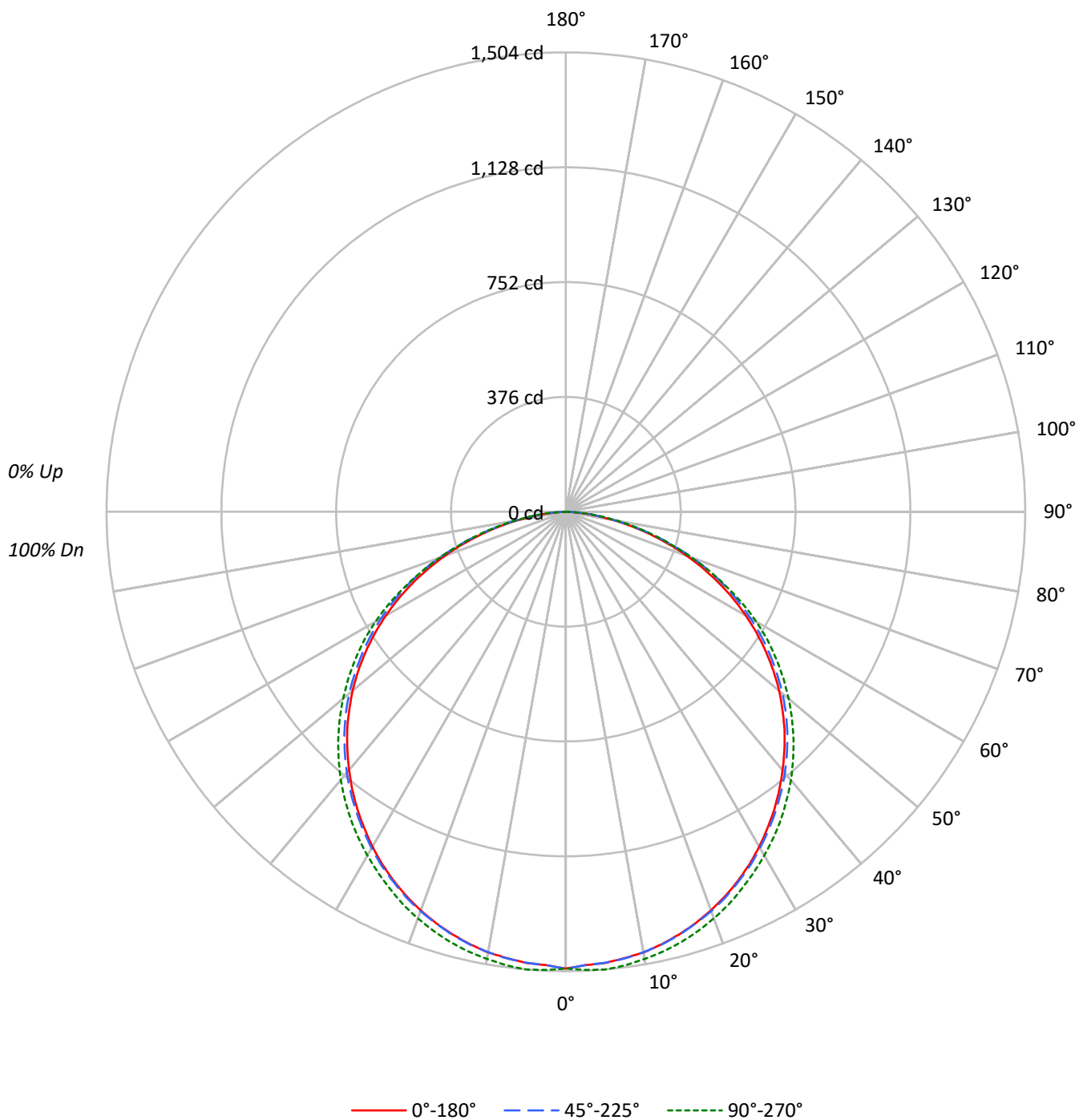
Lumens per Lamp: N/A  
Luminaire Lumens: 4413.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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   | 109 | 104 | 99  | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 93  | 91  | 88  |  | 90  | 88  | 86  | 84  |
| 2   | 99  | 90  | 83  | 77  | 96  | 88  | 82  | 77  | 85  | 79  | 75  |  | 81  | 77  | 73  |  | 78  | 75  | 71  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 64  | 74  | 68  | 62  |  | 72  | 66  | 61  |  | 69  | 64  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 57  | 52  |  | 61  | 56  | 52  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  |  | 57  | 50  | 45  |  | 55  | 49  | 45  | 43  |
| 6   | 70  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  | 44  | 39  | 37  |
| 7   | 64  | 51  | 42  | 36  | 63  | 50  | 41  | 35  | 48  | 41  | 35  |  | 47  | 40  | 35  |  | 46  | 39  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 37  | 32  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  | 36  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 55  | 42  | 34  | 28  | 41  | 33  | 28  |  | 40  | 33  | 28  |  | 39  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 30  | 26  |  | 37  | 30  | 25  |  | 36  | 30  | 25  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5039 | 5039 | 5039 |
| 5°  | 5015 | 5012 | 5088 |
| 10° | 5013 | 5010 | 5086 |
| 15° | 4998 | 5002 | 5089 |
| 20° | 4982 | 4991 | 5081 |
| 25° | 4957 | 4969 | 5065 |
| 30° | 4927 | 4948 | 5056 |
| 35° | 4895 | 4925 | 5053 |
| 40° | 4857 | 4907 | 5044 |
| 45° | 4827 | 4888 | 5023 |
| 50° | 4779 | 4853 | 4991 |
| 55° | 4704 | 4791 | 4942 |
| 60° | 4590 | 4709 | 4854 |
| 65° | 4418 | 4585 | 4633 |
| 70° | 4155 | 4348 | 4321 |
| 75° | 3730 | 3889 | 3915 |
| 80° | 3081 | 3239 | 3409 |
| 85° | 2065 | 2405 | 2532 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5023 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 141.7  | 3.2       |
| 10°-20°   | 407.4  | 9.2       |
| 20°-30°   | 620.4  | 14.1      |
| 30°-40°   | 755.0  | 17.1      |
| 40°-50°   | 796.0  | 18.0      |
| 50°-60°   | 733.1  | 16.6      |
| 60°-70°   | 566.2  | 12.8      |
| 70°-80°   | 316.8  | 7.2       |
| 80°-90°   | 76.4   | 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°    | 1169.5 | 26.5      |
| 0°-40°    | 1924.5 | 43.6      |
| 0°-60°    | 3453.6 | 78.3      |
| 0°-90°    | 4413.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4413.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1495 | 1495  | 1495 | 1495  | 1495 |      |
| 5°  | 1483 | 1504  | 1482 | 1484  | 1504 | 141  |
| 15° | 1433 | 1452  | 1434 | 1442  | 1459 | 404  |
| 25° | 1333 | 1352  | 1337 | 1345  | 1362 | 615  |
| 35° | 1190 | 1208  | 1197 | 1212  | 1228 | 744  |
| 45° | 1013 | 1027  | 1026 | 1041  | 1054 | 781  |
| 55° | 801  | 814   | 816  | 832   | 841  | 715  |
| 65° | 554  | 570   | 575  | 580   | 581  | 547  |
| 75° | 286  | 304   | 299  | 298   | 301  | 304  |
| 85° | 53   | 59    | 62   | 70    | 66   | 68   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1495.4 | 1495.4 | 1495.4 | 1495.4 | 1495.4 |
| 2.5°  | 1485.9 | 1507.6 | 1485.9 | 1489.3 | 1501.5 |
| 5°    | 1482.6 | 1503.5 | 1481.9 | 1483.9 | 1504.2 |
| 7.5°  | 1473.8 | 1495.4 | 1475.1 | 1477.8 | 1497.4 |
| 10°   | 1465.0 | 1484.6 | 1464.3 | 1467.7 | 1486.6 |
| 12.5° | 1450.1 | 1470.4 | 1451.5 | 1455.5 | 1474.5 |
| 15°   | 1432.6 | 1452.2 | 1433.9 | 1442.0 | 1458.9 |
| 17.5° | 1412.3 | 1431.2 | 1413.6 | 1423.1 | 1439.3 |
| 20°   | 1389.3 | 1407.6 | 1392.0 | 1398.8 | 1417.0 |
| 22.5° | 1362.3 | 1381.2 | 1366.3 | 1372.4 | 1392.0 |
| 25°   | 1333.2 | 1352.1 | 1336.6 | 1345.4 | 1362.3 |
| 27.5° | 1301.5 | 1319.7 | 1306.2 | 1317.0 | 1331.9 |
| 30°   | 1266.3 | 1283.9 | 1271.7 | 1284.6 | 1299.4 |
| 32.5° | 1228.5 | 1247.4 | 1235.2 | 1250.1 | 1265.0 |
| 35°   | 1190.0 | 1207.5 | 1197.4 | 1212.3 | 1228.5 |
| 37.5° | 1148.1 | 1165.0 | 1157.5 | 1173.1 | 1187.9 |
| 40°   | 1104.2 | 1123.1 | 1115.6 | 1131.9 | 1146.7 |
| 42.5° | 1058.9 | 1077.1 | 1071.0 | 1087.9 | 1100.8 |
| 45°   | 1012.9 | 1027.1 | 1025.8 | 1041.3 | 1054.1 |
| 47.5° | 962.2  | 979.8  | 977.1  | 992.7  | 1004.1 |
| 50°   | 911.6  | 925.8  | 925.8  | 940.6  | 952.1  |
| 52.5° | 856.8  | 871.0  | 871.0  | 888.6  | 898.1  |
| 55°   | 800.7  | 814.3  | 815.6  | 832.5  | 841.3  |
| 57.5° | 741.3  | 755.5  | 758.2  | 775.1  | 783.2  |
| 60°   | 681.1  | 694.7  | 698.7  | 715.6  | 720.3  |
| 62.5° | 618.3  | 634.5  | 636.5  | 650.1  | 652.8  |
| 65°   | 554.1  | 570.3  | 575.1  | 580.5  | 581.1  |
| 67.5° | 488.6  | 505.5  | 510.2  | 510.2  | 510.2  |
| 70°   | 421.7  | 437.2  | 441.3  | 438.6  | 438.6  |
| 72.5° | 354.1  | 371.0  | 369.0  | 366.2  | 367.6  |
| 75°   | 286.5  | 304.1  | 298.7  | 298.0  | 300.7  |
| 77.5° | 221.6  | 238.5  | 229.8  | 235.2  | 235.8  |
| 80°   | 158.8  | 171.6  | 166.9  | 175.0  | 175.7  |
| 82.5° | 102.0  | 110.1  | 111.5  | 118.3  | 116.2  |
| 85°   | 53.4   | 58.8   | 62.2   | 69.6   | 65.5   |
| 87.5° | 16.9   | 22.3   | 20.3   | 23.7   | 18.2   |
| 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 | 17.65            | 19.31 | 18.02 | 19.62 | 19.94 | 17.87          | 19.53 | 18.23 | 19.84 | 20.15 |
|                 | 3H   | 19.47            | 20.97 | 19.85 | 21.30 | 21.66 | 19.67          | 21.17 | 20.05 | 21.49 | 21.85 |
|                 | 4H   | 20.12            | 21.53 | 20.52 | 21.88 | 22.26 | 20.31          | 21.72 | 20.71 | 22.07 | 22.44 |
|                 | 6H   | 20.55            | 21.86 | 20.96 | 22.22 | 22.61 | 20.76          | 22.07 | 21.17 | 22.43 | 22.82 |
|                 | 8H   | 20.66            | 21.91 | 21.08 | 22.30 | 22.70 | 20.89          | 22.14 | 21.32 | 22.53 | 22.93 |
|                 | 12H  | 20.71            | 21.91 | 21.14 | 22.29 | 22.72 | 20.97          | 22.17 | 21.40 | 22.55 | 22.98 |
| 4H              | 2H   | 18.33            | 19.75 | 18.73 | 20.09 | 20.47 | 18.50          | 19.91 | 18.90 | 20.26 | 20.64 |
|                 | 3H   | 20.37            | 21.56 | 20.78 | 21.96 | 22.36 | 20.52          | 21.70 | 20.93 | 22.10 | 22.50 |
|                 | 4H   | 21.15            | 22.23 | 21.58 | 22.64 | 23.07 | 21.27          | 22.35 | 21.71 | 22.76 | 23.19 |
|                 | 6H   | 21.70            | 22.64 | 22.16 | 23.08 | 23.54 | 21.85          | 22.79 | 22.30 | 23.23 | 23.68 |
|                 | 8H   | 21.85            | 22.73 | 22.31 | 23.17 | 23.63 | 22.02          | 22.90 | 22.48 | 23.34 | 23.81 |
|                 | 12H  | 21.93            | 22.72 | 22.41 | 23.20 | 23.66 | 22.14          | 22.93 | 22.62 | 23.40 | 23.87 |
| 8H              | 4H   | 21.46            | 22.34 | 21.92 | 22.78 | 23.24 | 21.57          | 22.45 | 22.03 | 22.89 | 23.35 |
|                 | 6H   | 22.12            | 22.85 | 22.61 | 23.34 | 23.81 | 22.25          | 22.98 | 22.74 | 23.47 | 23.94 |
|                 | 8H   | 22.33            | 22.98 | 22.83 | 23.48 | 23.97 | 22.49          | 23.14 | 23.00 | 23.65 | 24.13 |
|                 | 12H  | 22.46            | 23.04 | 22.97 | 23.53 | 24.09 | 22.67          | 23.24 | 23.17 | 23.73 | 24.29 |
| 12H             | 4H   | 21.49            | 22.28 | 21.97 | 22.76 | 23.22 | 21.60          | 22.39 | 22.08 | 22.86 | 23.33 |
|                 | 6H   | 22.17            | 22.82 | 22.67 | 23.33 | 23.81 | 22.29          | 22.95 | 22.80 | 23.45 | 23.94 |
|                 | 8H   | 22.42            | 23.00 | 22.93 | 23.49 | 24.05 | 22.58          | 23.16 | 23.09 | 23.65 | 24.21 |