

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: P1585613

Luminaire Tested: 14CZSP-SB-32HE-L830

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1585613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-SB-32HE-L830  
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 80CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

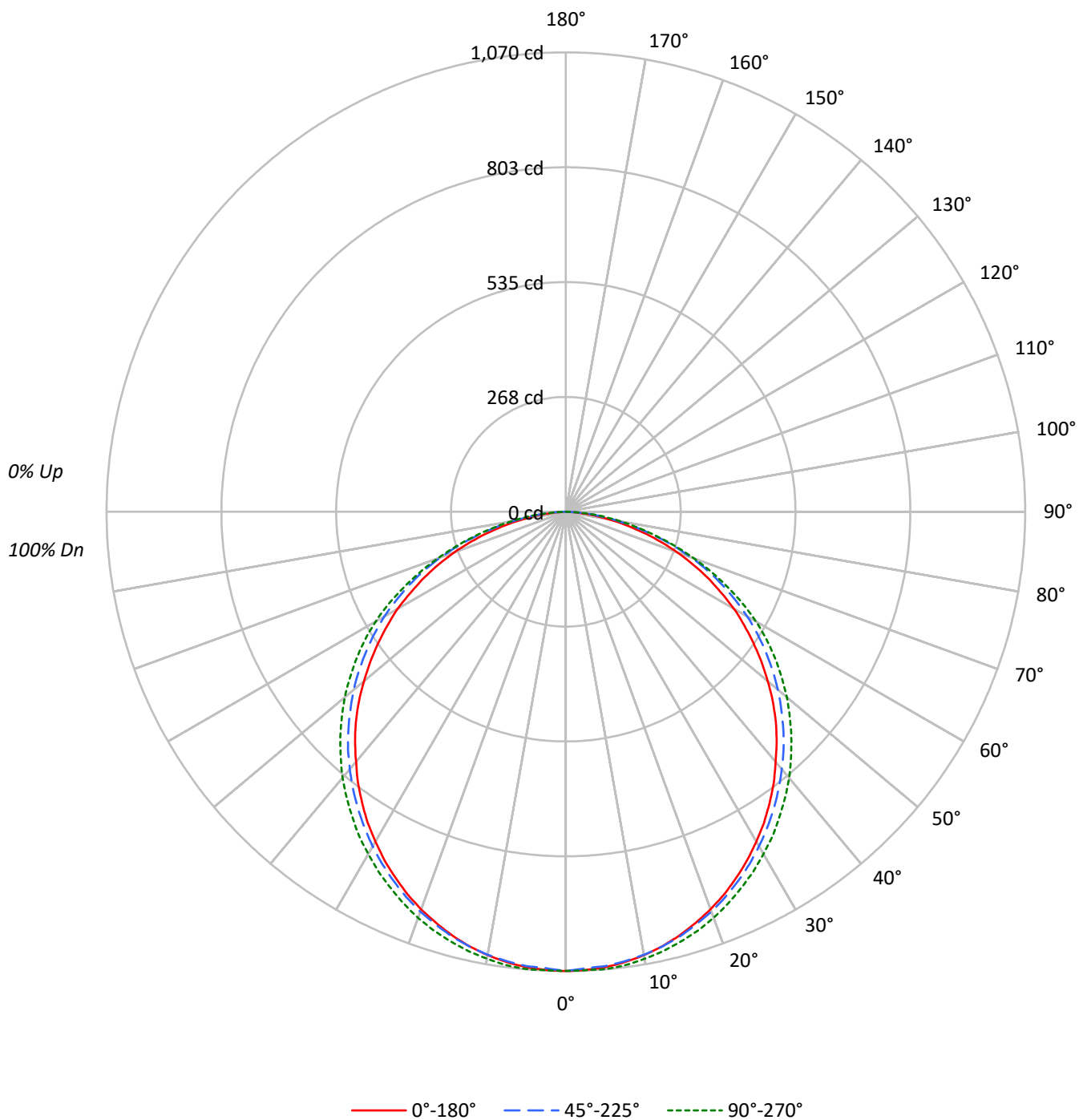
Lumens per Lamp: N/A  
Luminaire Lumens: 3090.0 lumens  
Efficiency: N/A  
Efficacy: 149.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.7  
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  | 79  | 75  |  | 82  | 77  | 73  |  | 79  | 75  | 71  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 61  |  | 69  | 64  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 58  | 52  |  | 62  | 56  | 52  | 50  |
| 5   | 75  | 62  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  |  | 57  | 51  | 45  |  | 55  | 50  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 40  | 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  | 58  | 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°  | 3604 | 3604 | 3604 |
| 5°  | 3601 | 3592 | 3616 |
| 10° | 3588 | 3585 | 3617 |
| 15° | 3565 | 3573 | 3615 |
| 20° | 3534 | 3554 | 3609 |
| 25° | 3495 | 3528 | 3594 |
| 30° | 3452 | 3502 | 3582 |
| 35° | 3404 | 3473 | 3568 |
| 40° | 3344 | 3444 | 3559 |
| 45° | 3296 | 3413 | 3540 |
| 50° | 3218 | 3381 | 3523 |
| 55° | 3135 | 3336 | 3496 |
| 60° | 3051 | 3287 | 3450 |
| 65° | 2913 | 3201 | 3318 |
| 70° | 2719 | 3056 | 3131 |
| 75° | 2423 | 2770 | 2851 |
| 80° | 1977 | 2400 | 2523 |
| 85° | 1307 | 1910 | 2049 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3540 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.3  | 3.3       |
| 10°-20°   | 290.2  | 9.4       |
| 20°-30°   | 439.3  | 14.2      |
| 30°-40°   | 530.3  | 17.2      |
| 40°-50°   | 553.8  | 17.9      |
| 50°-60°   | 506.6  | 16.4      |
| 60°-70°   | 391.7  | 12.7      |
| 70°-80°   | 221.7  | 7.2       |
| 80°-90°   | 55.1   | 1.8       |
| 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°    | 830.8  | 26.9      |
| 0°-40°    | 1361.1 | 44.0      |
| 0°-60°    | 2421.6 | 78.4      |
| 0°-90°    | 3090.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3090.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1070 | 1070  | 1070 | 1070  | 1070 |      |
| 5°  | 1065 | 1072  | 1062 | 1063  | 1069 | 101  |
| 15° | 1022 | 1031  | 1024 | 1029  | 1036 | 288  |
| 25° | 940  | 952   | 949  | 958   | 967  | 433  |
| 35° | 827  | 839   | 844  | 859   | 868  | 518  |
| 45° | 692  | 705   | 716  | 734   | 743  | 533  |
| 55° | 534  | 550   | 568  | 586   | 595  | 477  |
| 65° | 365  | 381   | 402  | 414   | 416  | 361  |
| 75° | 186  | 202   | 213  | 218   | 219  | 197  |
| 85° | 34   | 39    | 49   | 52    | 53   | 44   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1069.6 | 1069.6 | 1069.6 | 1069.6 | 1069.6 |
| 2.5°  | 1068.2 | 1075.8 | 1064.2 | 1066.5 | 1068.7 |
| 5°    | 1064.7 | 1072.3 | 1062.0 | 1062.9 | 1069.1 |
| 7.5°  | 1058.0 | 1066.5 | 1055.8 | 1057.6 | 1065.1 |
| 10°   | 1048.7 | 1057.1 | 1047.8 | 1049.6 | 1057.1 |
| 12.5° | 1036.6 | 1045.1 | 1037.1 | 1039.8 | 1048.2 |
| 15°   | 1022.0 | 1030.9 | 1024.2 | 1029.1 | 1036.2 |
| 17.5° | 1004.1 | 1015.3 | 1008.2 | 1015.7 | 1022.8 |
| 20°   | 985.5  | 996.6  | 991.2  | 997.9  | 1006.4 |
| 22.5° | 964.1  | 975.2  | 971.2  | 978.3  | 987.7  |
| 25°   | 940.1  | 952.1  | 949.0  | 957.9  | 966.8  |
| 27.5° | 915.1  | 926.7  | 925.8  | 935.6  | 945.0  |
| 30°   | 887.1  | 899.6  | 900.0  | 911.6  | 920.5  |
| 32.5° | 859.0  | 870.2  | 872.8  | 885.8  | 896.0  |
| 35°   | 827.4  | 839.0  | 844.4  | 858.6  | 867.5  |
| 37.5° | 795.4  | 808.3  | 814.1  | 829.7  | 839.0  |
| 40°   | 760.2  | 774.9  | 782.9  | 799.4  | 809.2  |
| 42.5° | 726.9  | 740.2  | 750.9  | 767.4  | 776.3  |
| 45°   | 691.7  | 705.0  | 716.2  | 734.4  | 742.9  |
| 47.5° | 653.9  | 668.5  | 680.6  | 698.4  | 707.7  |
| 50°   | 613.8  | 629.8  | 645.0  | 662.3  | 672.1  |
| 52.5° | 574.2  | 589.8  | 607.1  | 624.0  | 633.8  |
| 55°   | 533.7  | 549.7  | 567.9  | 585.8  | 595.1  |
| 57.5° | 492.7  | 508.8  | 528.8  | 544.8  | 554.6  |
| 60°   | 452.7  | 467.4  | 487.8  | 503.9  | 511.9  |
| 62.5° | 407.3  | 424.2  | 445.1  | 461.1  | 465.6  |
| 65°   | 365.4  | 380.6  | 401.5  | 413.5  | 416.2  |
| 67.5° | 320.9  | 336.1  | 357.0  | 363.6  | 367.7  |
| 70°   | 276.0  | 292.0  | 310.2  | 314.7  | 317.8  |
| 72.5° | 230.6  | 247.0  | 261.3  | 265.7  | 268.4  |
| 75°   | 186.1  | 202.1  | 212.8  | 218.1  | 219.0  |
| 77.5° | 142.9  | 157.6  | 167.4  | 173.6  | 173.6  |
| 80°   | 101.9  | 113.1  | 123.7  | 130.4  | 130.0  |
| 82.5° | 65.0   | 73.4   | 84.6   | 89.5   | 92.6   |
| 85°   | 33.8   | 39.2   | 49.4   | 51.6   | 53.0   |
| 87.5° | 10.7   | 13.8   | 17.8   | 14.7   | 14.2   |
| 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 | 16.13            | 17.78 | 16.50 | 18.10 | 18.41 | 16.68          | 18.33 | 17.04 | 18.64 | 18.95 |
|                 | 3H   | 17.91            | 19.40 | 18.28 | 19.73 | 20.09 | 18.54          | 20.03 | 18.91 | 20.36 | 20.72 |
|                 | 4H   | 18.53            | 19.94 | 18.93 | 20.29 | 20.66 | 19.21          | 20.62 | 19.61 | 20.96 | 21.34 |
|                 | 6H   | 18.94            | 20.24 | 19.35 | 20.61 | 21.00 | 19.69          | 21.00 | 20.10 | 21.36 | 21.75 |
|                 | 8H   | 19.04            | 20.28 | 19.46 | 20.67 | 21.07 | 19.85          | 21.10 | 20.27 | 21.49 | 21.88 |
|                 | 12H  | 19.09            | 20.28 | 19.51 | 20.66 | 21.09 | 19.95          | 21.14 | 20.38 | 21.52 | 21.95 |
| 4H              | 2H   | 16.87            | 18.28 | 17.27 | 18.63 | 19.00 | 17.29          | 18.70 | 17.69 | 19.05 | 19.43 |
|                 | 3H   | 18.87            | 20.05 | 19.27 | 20.44 | 20.84 | 19.37          | 20.56 | 19.78 | 20.95 | 21.35 |
|                 | 4H   | 19.62            | 20.68 | 20.05 | 21.10 | 21.53 | 20.17          | 21.24 | 20.61 | 21.66 | 22.09 |
|                 | 6H   | 20.13            | 21.07 | 20.59 | 21.51 | 21.96 | 20.79          | 21.72 | 21.24 | 22.16 | 22.62 |
|                 | 8H   | 20.27            | 21.14 | 20.73 | 21.59 | 22.05 | 20.99          | 21.87 | 21.45 | 22.31 | 22.77 |
|                 | 12H  | 20.35            | 21.13 | 20.83 | 21.61 | 22.08 | 21.13          | 21.92 | 21.61 | 22.39 | 22.86 |
| 8H              | 4H   | 19.97            | 20.85 | 20.43 | 21.29 | 21.75 | 20.46          | 21.34 | 20.92 | 21.78 | 22.25 |
|                 | 6H   | 20.60            | 21.33 | 21.10 | 21.82 | 22.29 | 21.20          | 21.92 | 21.69 | 22.41 | 22.89 |
|                 | 8H   | 20.80            | 21.45 | 21.31 | 21.95 | 22.44 | 21.47          | 22.12 | 21.98 | 22.63 | 23.11 |
|                 | 12H  | 20.92            | 21.50 | 21.43 | 21.99 | 22.55 | 21.68          | 22.25 | 22.18 | 22.74 | 23.30 |
| 12H             | 4H   | 20.01            | 20.80 | 20.49 | 21.27 | 21.74 | 20.49          | 21.28 | 20.97 | 21.75 | 22.22 |
|                 | 6H   | 20.67            | 21.32 | 21.18 | 21.83 | 22.31 | 21.24          | 21.89 | 21.75 | 22.40 | 22.88 |
|                 | 8H   | 20.92            | 21.49 | 21.42 | 21.98 | 22.54 | 21.57          | 22.14 | 22.07 | 22.63 | 23.19 |