

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: P1584520

Luminaire Tested: 14CZSP-A-32HE-L850-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-A-32HE-L850-S  
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 80CRI, Smooth Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

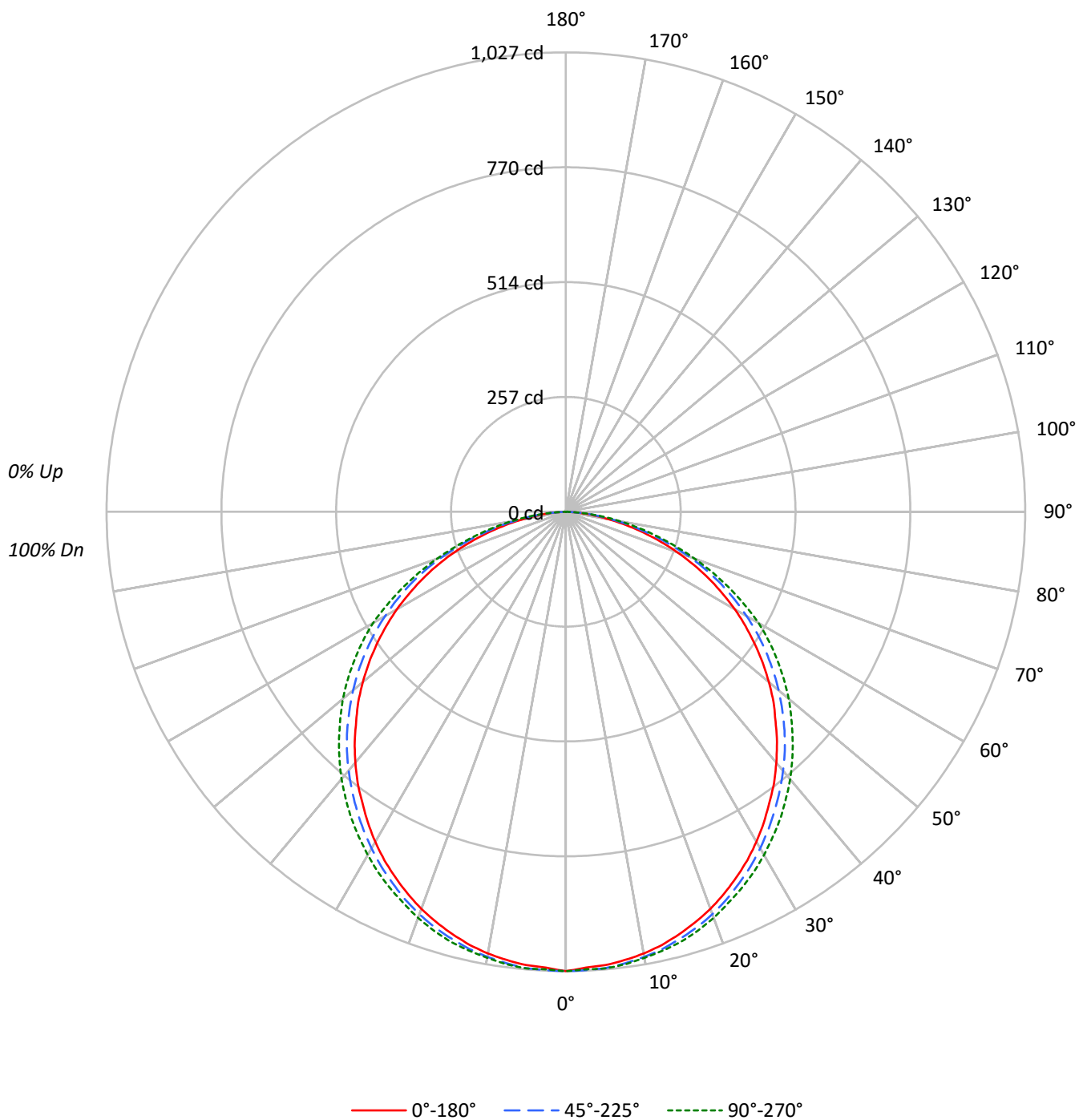
Lumens per Lamp: N/A  
Luminaire Lumens: 2969.0 lumens  
Efficiency: N/A  
Efficacy: 143.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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  |
| 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  | 52  |  | 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  | 28  |  | 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°  | 3461 | 3461 | 3461 |
| 5°  | 3441 | 3463 | 3466 |
| 10° | 3431 | 3457 | 3465 |
| 15° | 3412 | 3447 | 3471 |
| 20° | 3388 | 3433 | 3465 |
| 25° | 3354 | 3407 | 3454 |
| 30° | 3316 | 3380 | 3447 |
| 35° | 3263 | 3351 | 3441 |
| 40° | 3220 | 3324 | 3431 |
| 45° | 3159 | 3295 | 3417 |
| 50° | 3106 | 3255 | 3411 |
| 55° | 3032 | 3209 | 3389 |
| 60° | 2939 | 3145 | 3355 |
| 65° | 2808 | 3059 | 3216 |
| 70° | 2618 | 2889 | 3018 |
| 75° | 2338 | 2606 | 2754 |
| 80° | 1917 | 2197 | 2408 |
| 85° | 1284 | 1604 | 1790 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3417 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 97.3   | 3.3       |
| 10°-20°   | 278.8  | 9.4       |
| 20°-30°   | 422.2  | 14.2      |
| 30°-40°   | 509.9  | 17.2      |
| 40°-50°   | 532.9  | 17.9      |
| 50°-60°   | 488.3  | 16.4      |
| 60°-70°   | 376.9  | 12.7      |
| 70°-80°   | 212.0  | 7.1       |
| 80°-90°   | 50.7   | 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       |
| <hr/>     |        |           |
| 0°-30°    | 798.3  | 26.9      |
| 0°-40°    | 1308.2 | 44.1      |
| 0°-60°    | 2329.4 | 78.5      |
| 0°-90°    | 2969.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2969.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1027 | 1027  | 1027 | 1027  | 1027 |      |
| 5°  | 1017 | 1025  | 1024 | 1025  | 1025 | 97   |
| 15° | 978  | 986   | 988  | 992   | 995  | 276  |
| 25° | 902  | 910   | 916  | 921   | 929  | 416  |
| 35° | 793  | 803   | 815  | 826   | 836  | 497  |
| 45° | 663  | 676   | 691  | 705   | 717  | 512  |
| 55° | 516  | 530   | 546  | 563   | 577  | 461  |
| 65° | 352  | 368   | 384  | 399   | 403  | 348  |
| 75° | 180  | 196   | 200  | 208   | 212  | 190  |
| 85° | 33   | 38    | 42   | 45    | 46   | 43   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1027.0 | 1027.0 | 1027.0 | 1027.0 | 1027.0 |
| 2.5°  | 1020.0 | 1027.9 | 1026.1 | 1028.7 | 1023.9 |
| 5°    | 1017.4 | 1024.8 | 1023.9 | 1024.8 | 1024.8 |
| 7.5°  | 1010.8 | 1018.7 | 1018.2 | 1019.6 | 1020.4 |
| 10°   | 1002.9 | 1010.4 | 1010.4 | 1011.7 | 1012.6 |
| 12.5° | 992.0  | 999.9  | 1000.8 | 1002.9 | 1004.7 |
| 15°   | 978.0  | 985.9  | 988.1  | 992.0  | 995.1  |
| 17.5° | 962.3  | 970.6  | 974.1  | 978.0  | 982.0  |
| 20°   | 944.8  | 952.3  | 957.5  | 960.6  | 966.2  |
| 22.5° | 924.3  | 932.6  | 938.3  | 941.3  | 947.4  |
| 25°   | 902.0  | 909.9  | 916.4  | 921.2  | 929.1  |
| 27.5° | 878.4  | 886.3  | 894.1  | 899.8  | 909.0  |
| 30°   | 852.2  | 860.5  | 868.8  | 877.5  | 885.8  |
| 32.5° | 823.8  | 833.4  | 842.6  | 852.2  | 861.4  |
| 35°   | 793.2  | 803.2  | 814.6  | 825.5  | 836.4  |
| 37.5° | 764.8  | 773.9  | 785.7  | 797.5  | 808.5  |
| 40°   | 732.0  | 742.0  | 755.6  | 768.7  | 780.1  |
| 42.5° | 698.8  | 709.7  | 724.6  | 737.2  | 749.5  |
| 45°   | 662.9  | 676.1  | 691.4  | 705.3  | 717.1  |
| 47.5° | 629.7  | 641.1  | 656.4  | 671.7  | 683.9  |
| 50°   | 592.6  | 605.3  | 621.0  | 637.2  | 650.7  |
| 52.5° | 555.0  | 568.1  | 584.3  | 600.5  | 614.4  |
| 55°   | 516.1  | 529.7  | 546.3  | 563.3  | 576.9  |
| 57.5° | 476.3  | 490.8  | 507.8  | 524.9  | 538.4  |
| 60°   | 436.1  | 450.6  | 466.7  | 485.5  | 497.8  |
| 62.5° | 394.2  | 410.4  | 425.7  | 443.1  | 450.6  |
| 65°   | 352.2  | 367.5  | 383.7  | 399.0  | 403.4  |
| 67.5° | 309.4  | 325.1  | 339.6  | 349.6  | 355.3  |
| 70°   | 265.7  | 282.7  | 293.2  | 302.8  | 306.3  |
| 72.5° | 222.4  | 239.5  | 245.6  | 254.8  | 258.3  |
| 75°   | 179.6  | 196.2  | 200.2  | 208.5  | 211.5  |
| 77.5° | 138.1  | 153.4  | 154.7  | 164.3  | 166.9  |
| 80°   | 98.8   | 111.0  | 113.2  | 122.4  | 124.1  |
| 82.5° | 63.4   | 72.1   | 75.2   | 83.0   | 85.7   |
| 85°   | 33.2   | 38.0   | 41.5   | 45.4   | 46.3   |
| 87.5° | 10.9   | 13.5   | 11.4   | 11.8   | 10.9   |
| 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 | 16.03            | 17.68 | 16.39 | 17.99 | 18.30 | 16.57          | 18.22 | 16.93 | 18.53 | 18.84 |
|                 | 3H   | 17.80            | 19.29 | 18.18 | 19.62 | 19.98 | 18.42          | 19.92 | 18.80 | 20.24 | 20.60 |
|                 | 4H   | 18.43            | 19.83 | 18.83 | 20.18 | 20.56 | 19.09          | 20.50 | 19.49 | 20.85 | 21.22 |
|                 | 6H   | 18.84            | 20.14 | 19.25 | 20.50 | 20.90 | 19.57          | 20.87 | 19.98 | 21.24 | 21.63 |
|                 | 8H   | 18.94            | 20.19 | 19.36 | 20.57 | 20.97 | 19.71          | 20.96 | 20.14 | 21.35 | 21.75 |
|                 | 12H  | 18.99            | 20.18 | 19.42 | 20.57 | 20.99 | 19.80          | 20.99 | 20.23 | 21.37 | 21.80 |
| 4H              | 2H   | 16.75            | 18.16 | 17.15 | 18.50 | 18.88 | 17.17          | 18.58 | 17.57 | 18.93 | 19.30 |
|                 | 3H   | 18.74            | 19.92 | 19.15 | 20.32 | 20.72 | 19.24          | 20.42 | 19.65 | 20.82 | 21.22 |
|                 | 4H   | 19.50            | 20.57 | 19.93 | 20.98 | 21.42 | 20.04          | 21.11 | 20.47 | 21.52 | 21.96 |
|                 | 6H   | 20.03            | 20.96 | 20.48 | 21.40 | 21.86 | 20.64          | 21.58 | 21.10 | 22.02 | 22.47 |
|                 | 8H   | 20.17            | 21.04 | 20.63 | 21.48 | 21.95 | 20.83          | 21.71 | 21.29 | 22.15 | 22.61 |
|                 | 12H  | 20.25            | 21.03 | 20.73 | 21.51 | 21.98 | 20.95          | 21.74 | 21.43 | 22.21 | 22.68 |
| 8H              | 4H   | 19.84            | 20.71 | 20.30 | 21.15 | 21.62 | 20.32          | 21.19 | 20.78 | 21.63 | 22.10 |
|                 | 6H   | 20.48            | 21.21 | 20.97 | 21.69 | 22.17 | 21.03          | 21.75 | 21.52 | 22.24 | 22.72 |
|                 | 8H   | 20.68            | 21.33 | 21.19 | 21.84 | 22.32 | 21.29          | 21.94 | 21.79 | 22.44 | 22.93 |
|                 | 12H  | 20.81            | 21.38 | 21.31 | 21.87 | 22.43 | 21.47          | 22.04 | 21.97 | 22.53 | 23.09 |
| 12H             | 4H   | 19.88            | 20.66 | 20.36 | 21.14 | 21.60 | 20.34          | 21.13 | 20.82 | 21.60 | 22.07 |
|                 | 6H   | 20.53            | 21.19 | 21.04 | 21.69 | 22.18 | 21.07          | 21.72 | 21.57 | 22.22 | 22.71 |
|                 | 8H   | 20.79            | 21.36 | 21.29 | 21.85 | 22.41 | 21.37          | 21.95 | 21.88 | 22.44 | 23.00 |