

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: P1584527

Luminaire Tested: 14CZSP-A-32HE-L940

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-A-32HE-L940  
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 90CRI, Ribbed Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

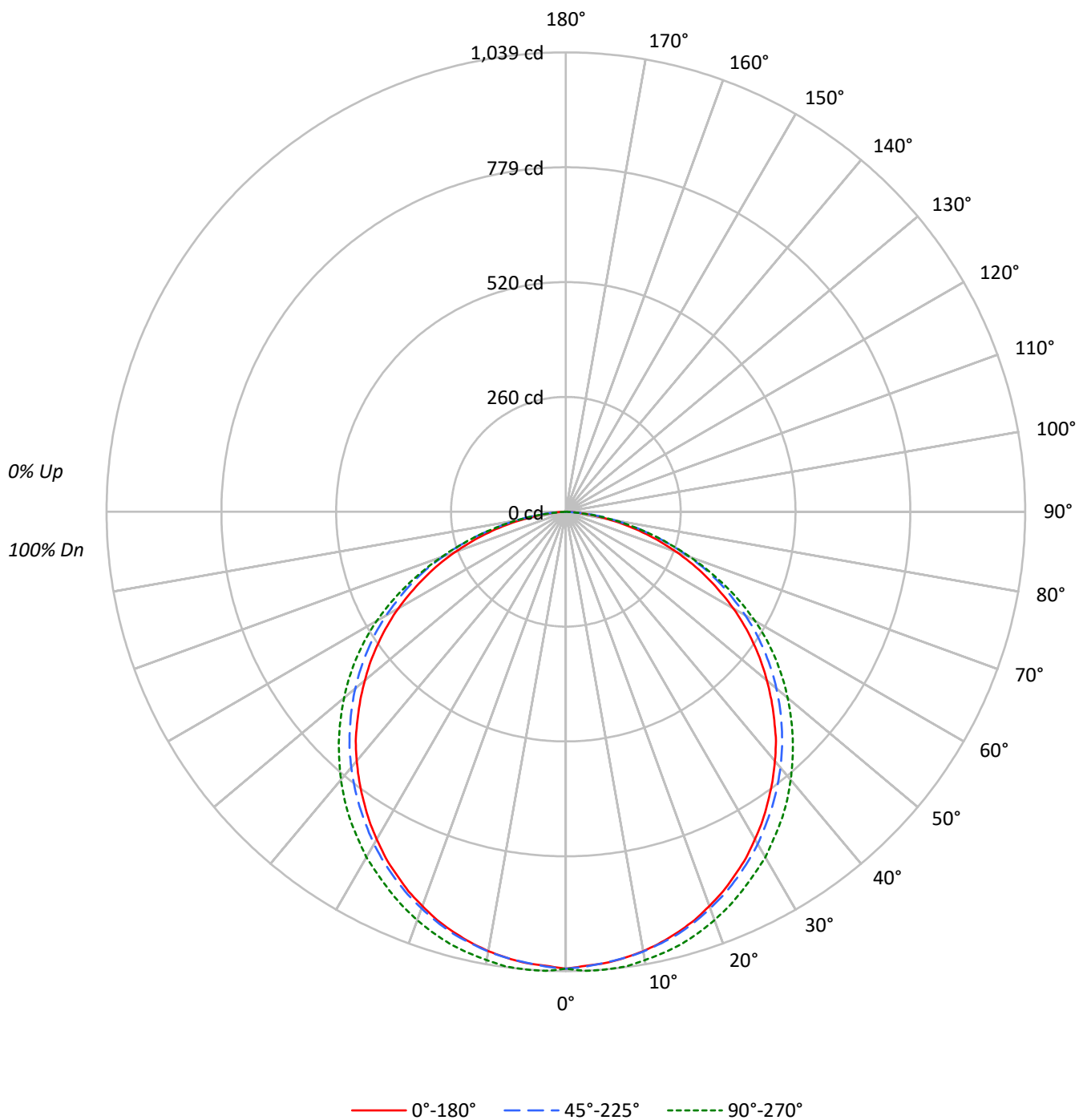
Lumens per Lamp: N/A  
Luminaire Lumens: 2977.0 lumens  
Efficiency: N/A  
Efficacy: 143.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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  |  | 94  | 91  | 88  |  | 90  |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  |
| 3   | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  |  | 64  | 58  | 53  |  | 62  |
| 5   | 76  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  |  | 57  | 51  | 46  |  | 55  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  |  | 52  | 45  | 40  |  | 50  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  |  | 47  | 40  | 35  |  | 46  |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 32  |  | 42  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  |  | 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°  | 3482 | 3482 | 3482 |
| 5°  | 3466 | 3463 | 3515 |
| 10° | 3453 | 3456 | 3523 |
| 15° | 3432 | 3446 | 3531 |
| 20° | 3402 | 3423 | 3525 |
| 25° | 3368 | 3401 | 3513 |
| 30° | 3328 | 3378 | 3510 |
| 35° | 3283 | 3347 | 3499 |
| 40° | 3236 | 3322 | 3480 |
| 45° | 3177 | 3292 | 3460 |
| 50° | 3112 | 3260 | 3433 |
| 55° | 3041 | 3219 | 3401 |
| 60° | 2951 | 3161 | 3332 |
| 65° | 2817 | 3080 | 3181 |
| 70° | 2627 | 2905 | 2953 |
| 75° | 2343 | 2622 | 2648 |
| 80° | 1907 | 2210 | 2191 |
| 85° | 1241 | 1543 | 1202 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3460 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 97.9   | 3.3       |
| 10°-20°   | 280.5  | 9.4       |
| 20°-30°   | 424.8  | 14.3      |
| 30°-40°   | 513.2  | 17.2      |
| 40°-50°   | 536.1  | 18.0      |
| 50°-60°   | 490.9  | 16.5      |
| 60°-70°   | 377.2  | 12.7      |
| 70°-80°   | 210.0  | 7.1       |
| 80°-90°   | 46.5   | 1.6       |
| 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°    | 803.2  | 27.0      |
| 0°-40°    | 1316.4 | 44.2      |
| 0°-60°    | 2343.3 | 78.7      |
| 0°-90°    | 2977.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2977.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1034 | 1034  | 1034 | 1034  | 1034 |      |
| 5°  | 1025 | 1035  | 1024 | 1030  | 1039 | 97   |
| 15° | 984  | 994   | 988  | 998   | 1012 | 278  |
| 25° | 906  | 917   | 915  | 928   | 945  | 418  |
| 35° | 798  | 810   | 814  | 833   | 850  | 499  |
| 45° | 667  | 681   | 691  | 711   | 726  | 515  |
| 55° | 518  | 534   | 548  | 567   | 579  | 463  |
| 65° | 353  | 372   | 386  | 394   | 399  | 349  |
| 75° | 180  | 198   | 201  | 201   | 203  | 191  |
| 85° | 32   | 38    | 40   | 33    | 31   | 42   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1033.5 | 1033.5 | 1033.5 | 1033.5 | 1033.5 |
| 2.5°  | 1027.7 | 1037.4 | 1029.6 | 1032.5 | 1039.3 |
| 5°    | 1024.7 | 1035.4 | 1023.8 | 1029.6 | 1039.3 |
| 7.5°  | 1017.9 | 1027.7 | 1017.9 | 1024.7 | 1037.4 |
| 10°   | 1009.2 | 1019.9 | 1010.1 | 1017.0 | 1029.6 |
| 12.5° | 997.5  | 1006.2 | 999.4  | 1009.2 | 1021.8 |
| 15°   | 983.9  | 993.6  | 987.8  | 997.5  | 1012.1 |
| 17.5° | 968.3  | 977.1  | 972.2  | 984.8  | 998.5  |
| 20°   | 948.8  | 958.6  | 954.7  | 967.3  | 982.9  |
| 22.5° | 929.4  | 939.1  | 936.2  | 948.8  | 965.4  |
| 25°   | 906.0  | 916.7  | 914.8  | 928.4  | 944.9  |
| 27.5° | 882.7  | 893.4  | 892.4  | 908.0  | 923.5  |
| 30°   | 855.4  | 866.1  | 868.1  | 884.6  | 902.1  |
| 32.5° | 828.2  | 839.8  | 840.8  | 859.3  | 875.8  |
| 35°   | 798.0  | 809.7  | 813.6  | 833.0  | 850.5  |
| 37.5° | 767.8  | 779.5  | 785.3  | 803.8  | 822.3  |
| 40°   | 735.7  | 748.4  | 755.2  | 774.6  | 791.2  |
| 42.5° | 703.6  | 716.2  | 724.0  | 743.5  | 759.1  |
| 45°   | 666.6  | 681.2  | 690.9  | 711.4  | 726.0  |
| 47.5° | 630.6  | 646.2  | 656.9  | 676.3  | 690.9  |
| 50°   | 593.6  | 610.2  | 621.8  | 641.3  | 654.9  |
| 52.5° | 556.6  | 574.2  | 585.8  | 604.3  | 618.0  |
| 55°   | 517.7  | 534.3  | 547.9  | 567.4  | 579.0  |
| 57.5° | 478.8  | 495.3  | 509.9  | 527.5  | 538.2  |
| 60°   | 437.9  | 455.4  | 469.1  | 486.6  | 494.4  |
| 62.5° | 395.1  | 413.6  | 427.2  | 440.8  | 447.7  |
| 65°   | 353.3  | 371.7  | 386.3  | 394.1  | 399.0  |
| 67.5° | 310.4  | 328.9  | 342.6  | 346.4  | 349.4  |
| 70°   | 266.6  | 285.1  | 294.9  | 296.8  | 299.7  |
| 72.5° | 222.9  | 241.3  | 249.1  | 249.1  | 250.1  |
| 75°   | 180.0  | 198.5  | 201.4  | 201.4  | 203.4  |
| 77.5° | 138.2  | 154.7  | 156.7  | 156.7  | 156.7  |
| 80°   | 98.3   | 110.9  | 113.9  | 113.9  | 112.9  |
| 82.5° | 62.3   | 71.0   | 75.9   | 72.0   | 70.1   |
| 85°   | 32.1   | 38.0   | 39.9   | 33.1   | 31.1   |
| 87.5° | 9.7    | 11.7   | 9.7    | 5.8    | 4.9    |
| 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 | 16.08            | 17.73 | 16.44 | 18.04 | 18.35 | 16.59          | 18.23 | 16.95 | 18.55 | 18.86 |
|                 | 3H   | 17.85            | 19.34 | 18.23 | 19.67 | 20.03 | 18.38          | 19.87 | 18.76 | 20.20 | 20.56 |
|                 | 4H   | 18.47            | 19.88 | 18.87 | 20.22 | 20.60 | 19.01          | 20.42 | 19.41 | 20.77 | 21.14 |
|                 | 6H   | 18.88            | 20.18 | 19.29 | 20.54 | 20.93 | 19.44          | 20.74 | 19.85 | 21.10 | 21.49 |
|                 | 8H   | 18.97            | 20.22 | 19.40 | 20.61 | 21.01 | 19.54          | 20.78 | 19.96 | 21.17 | 21.57 |
|                 | 12H  | 19.02            | 20.21 | 19.45 | 20.59 | 21.02 | 19.58          | 20.77 | 20.01 | 21.15 | 21.58 |
| 4H              | 2H   | 16.80            | 18.20 | 17.20 | 18.55 | 18.93 | 17.20          | 18.60 | 17.59 | 18.95 | 19.32 |
|                 | 3H   | 18.79            | 19.97 | 19.20 | 20.37 | 20.77 | 19.21          | 20.39 | 19.62 | 20.78 | 21.18 |
|                 | 4H   | 19.55            | 20.62 | 19.98 | 21.03 | 21.46 | 19.96          | 21.02 | 20.39 | 21.44 | 21.87 |
|                 | 6H   | 20.07            | 21.00 | 20.53 | 21.44 | 21.90 | 20.50          | 21.43 | 20.95 | 21.87 | 22.32 |
|                 | 8H   | 20.21            | 21.08 | 20.66 | 21.52 | 21.98 | 20.64          | 21.51 | 21.10 | 21.95 | 22.42 |
|                 | 12H  | 20.28            | 21.06 | 20.76 | 21.54 | 22.00 | 20.71          | 21.49 | 21.19 | 21.96 | 22.43 |
| 8H              | 4H   | 19.88            | 20.75 | 20.34 | 21.19 | 21.66 | 20.25          | 21.12 | 20.71 | 21.56 | 22.02 |
|                 | 6H   | 20.52            | 21.24 | 21.01 | 21.73 | 22.20 | 20.89          | 21.61 | 21.38 | 22.10 | 22.57 |
|                 | 8H   | 20.71            | 21.36 | 21.22 | 21.86 | 22.35 | 21.08          | 21.73 | 21.59 | 22.24 | 22.72 |
|                 | 12H  | 20.83            | 21.40 | 21.34 | 21.89 | 22.45 | 21.19          | 21.76 | 21.69 | 22.25 | 22.81 |
| 12H             | 4H   | 19.91            | 20.70 | 20.39 | 21.17 | 21.64 | 20.27          | 21.05 | 20.75 | 21.53 | 22.00 |
|                 | 6H   | 20.57            | 21.22 | 21.07 | 21.72 | 22.21 | 20.93          | 21.58 | 21.44 | 22.08 | 22.57 |
|                 | 8H   | 20.81            | 21.38 | 21.32 | 21.87 | 22.43 | 21.17          | 21.74 | 21.68 | 22.23 | 22.79 |