

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: P1584225

Luminaire Tested: 14CZSP-32HE-L935

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584225  
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-32HE-L935  
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 90CRI, Ribbed Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

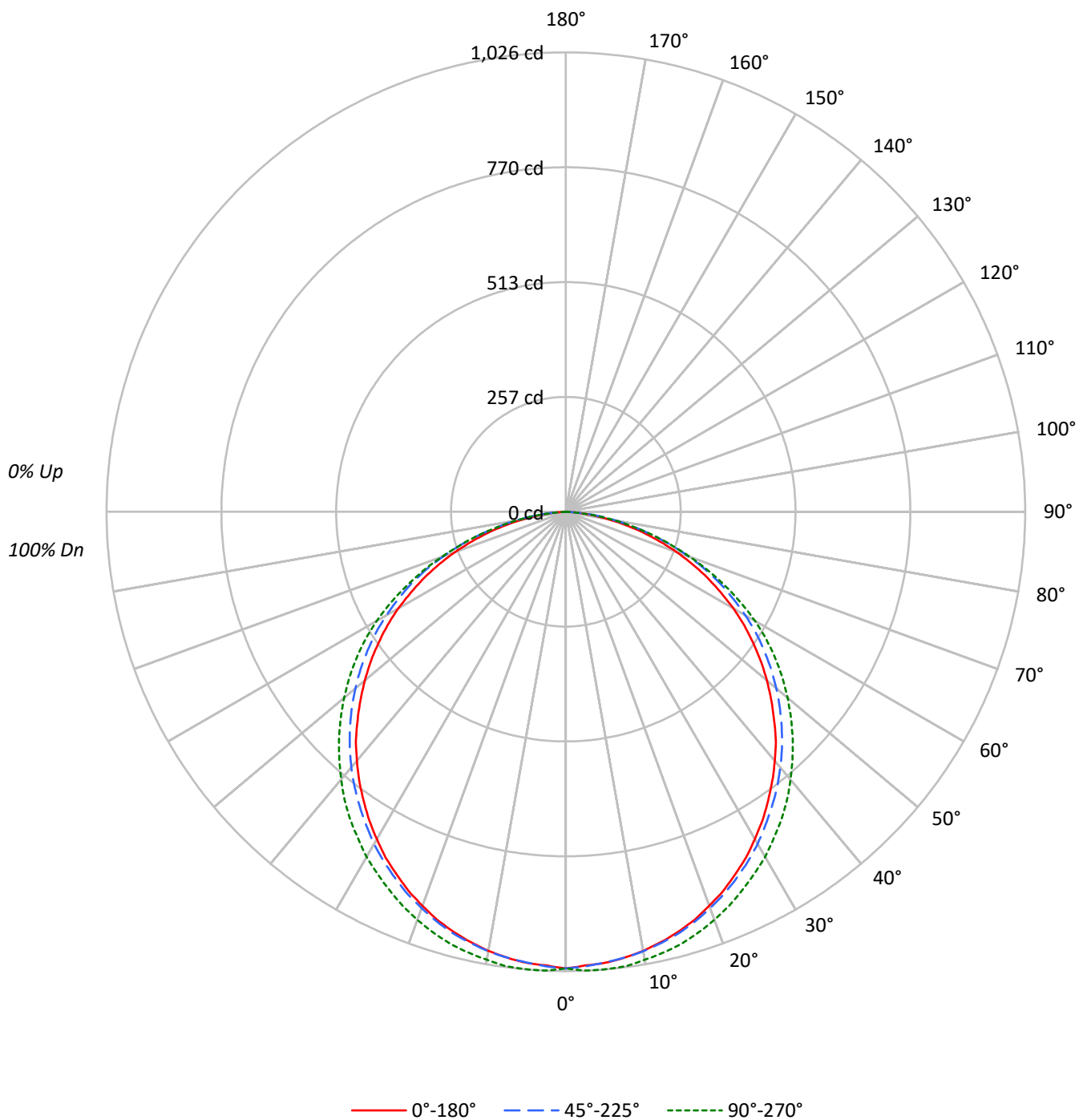
Lumens per Lamp: N/A  
Luminaire Lumens: 2938.0 lumens  
Efficiency: N/A  
Efficacy: 141.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1584225

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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  |  | 94  | 91  | 88  |  | 90  | 88  | 86  | 84  |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  | 75  | 72  | 70  |
| 3   | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  | 65  | 61  | 58  |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  |  | 64  | 58  | 53  |  | 62  | 56  | 52  | 50  |
| 5   | 76  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  |  | 57  | 51  | 46  |  | 55  | 50  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  |  | 52  | 45  | 40  |  | 50  | 44  | 40  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  |  | 47  | 40  | 35  |  | 46  | 40  | 35  | 33  |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 32  |  | 42  | 36  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  |  | 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°  | 3437 | 3437 | 3437 |
| 5°  | 3421 | 3418 | 3469 |
| 10° | 3408 | 3411 | 3477 |
| 15° | 3387 | 3401 | 3484 |
| 20° | 3358 | 3379 | 3478 |
| 25° | 3324 | 3357 | 3467 |
| 30° | 3285 | 3333 | 3464 |
| 35° | 3239 | 3303 | 3453 |
| 40° | 3194 | 3278 | 3434 |
| 45° | 3135 | 3249 | 3414 |
| 50° | 3071 | 3217 | 3389 |
| 55° | 3001 | 3176 | 3357 |
| 60° | 2913 | 3120 | 3288 |
| 65° | 2779 | 3040 | 3140 |
| 70° | 2593 | 2867 | 2914 |
| 75° | 2313 | 2588 | 2613 |
| 80° | 1882 | 2181 | 2162 |
| 85° | 1226 | 1523 | 1187 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3414 cd/sqm

TEST NUMBER: P1584225

CATALOG NUMBER: 14CZSP-32HE-L935

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.6   | 3.3       |
| 10°-20°   | 276.8  | 9.4       |
| 20°-30°   | 419.3  | 14.3      |
| 30°-40°   | 506.4  | 17.2      |
| 40°-50°   | 529.0  | 18.0      |
| 50°-60°   | 484.5  | 16.5      |
| 60°-70°   | 372.2  | 12.7      |
| 70°-80°   | 207.3  | 7.1       |
| 80°-90°   | 45.9   | 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°    | 792.7  | 27.0      |
| 0°-40°    | 1299.1 | 44.2      |
| 0°-60°    | 2312.6 | 78.7      |
| 0°-90°    | 2938.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2938.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1020 | 1020  | 1020 | 1020  | 1020 |      |
| 5°  | 1011 | 1022  | 1010 | 1016  | 1026 | 96   |
| 15° | 971  | 981   | 975  | 984   | 999  | 274  |
| 25° | 894  | 905   | 903  | 916   | 933  | 412  |
| 35° | 788  | 799   | 803  | 822   | 839  | 493  |
| 45° | 658  | 672   | 682  | 702   | 716  | 508  |
| 55° | 511  | 527   | 541  | 560   | 571  | 457  |
| 65° | 349  | 367   | 381  | 389   | 394  | 345  |
| 75° | 178  | 196   | 199  | 199   | 201  | 188  |
| 85° | 32   | 38    | 39   | 33    | 31   | 41   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1584225

CATALOG NUMBER: 14CZSP-32HE-L935

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1020.0 | 1020.0 | 1020.0 | 1020.0 | 1020.0 |
| 2.5°  | 1014.2 | 1023.8 | 1016.1 | 1019.0 | 1025.7 |
| 5°    | 1011.3 | 1021.9 | 1010.4 | 1016.1 | 1025.7 |
| 7.5°  | 1004.6 | 1014.2 | 1004.6 | 1011.3 | 1023.8 |
| 10°   | 995.9  | 1006.5 | 996.9  | 1003.6 | 1016.1 |
| 12.5° | 984.4  | 993.1  | 986.3  | 995.9  | 1008.4 |
| 15°   | 971.0  | 980.6  | 974.8  | 984.4  | 998.8  |
| 17.5° | 955.6  | 964.3  | 959.5  | 971.9  | 985.4  |
| 20°   | 936.4  | 946.0  | 942.2  | 954.6  | 970.0  |
| 22.5° | 917.2  | 926.8  | 923.9  | 936.4  | 952.7  |
| 25°   | 894.1  | 904.7  | 902.8  | 916.2  | 932.6  |
| 27.5° | 871.1  | 881.7  | 880.7  | 896.1  | 911.4  |
| 30°   | 844.2  | 854.8  | 856.7  | 873.0  | 890.3  |
| 32.5° | 817.3  | 828.8  | 829.8  | 848.0  | 864.4  |
| 35°   | 787.5  | 799.1  | 802.9  | 822.1  | 839.4  |
| 37.5° | 757.8  | 769.3  | 775.1  | 793.3  | 811.5  |
| 40°   | 726.1  | 738.6  | 745.3  | 764.5  | 780.8  |
| 42.5° | 694.4  | 706.9  | 714.5  | 733.8  | 749.1  |
| 45°   | 657.9  | 672.3  | 681.9  | 702.1  | 716.5  |
| 47.5° | 622.3  | 637.7  | 648.3  | 667.5  | 681.9  |
| 50°   | 585.9  | 602.2  | 613.7  | 632.9  | 646.4  |
| 52.5° | 549.4  | 566.6  | 578.2  | 596.4  | 609.9  |
| 55°   | 510.9  | 527.3  | 540.7  | 559.9  | 571.4  |
| 57.5° | 472.5  | 488.8  | 503.3  | 520.5  | 531.1  |
| 60°   | 432.2  | 449.5  | 462.9  | 480.2  | 487.9  |
| 62.5° | 389.9  | 408.2  | 421.6  | 435.1  | 441.8  |
| 65°   | 348.6  | 366.9  | 381.3  | 389.0  | 393.8  |
| 67.5° | 306.4  | 324.6  | 338.1  | 341.9  | 344.8  |
| 70°   | 263.2  | 281.4  | 291.0  | 292.9  | 295.8  |
| 72.5° | 219.9  | 238.2  | 245.9  | 245.9  | 246.8  |
| 75°   | 177.7  | 195.9  | 198.8  | 198.8  | 200.7  |
| 77.5° | 136.4  | 152.7  | 154.6  | 154.6  | 154.6  |
| 80°   | 97.0   | 109.5  | 112.4  | 112.4  | 111.4  |
| 82.5° | 61.5   | 70.1   | 74.9   | 71.1   | 69.1   |
| 85°   | 31.7   | 37.5   | 39.4   | 32.7   | 30.7   |
| 87.5° | 9.6    | 11.5   | 9.6    | 5.8    | 4.8    |
| 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 | 16.40 | 17.99 | 18.31 | 16.54          | 18.19 | 16.90 | 18.50 | 18.81 |
|                 | 3H   | 17.80            | 19.29 | 18.18 | 19.62 | 19.98 | 18.34          | 19.83 | 18.71 | 20.15 | 20.51 |
|                 | 4H   | 18.43            | 19.83 | 18.83 | 20.18 | 20.55 | 18.97          | 20.37 | 19.37 | 20.72 | 21.09 |
|                 | 6H   | 18.83            | 20.13 | 19.24 | 20.50 | 20.89 | 19.39          | 20.69 | 19.80 | 21.05 | 21.45 |
|                 | 8H   | 18.93            | 20.17 | 19.35 | 20.56 | 20.96 | 19.49          | 20.74 | 19.92 | 21.13 | 21.52 |
|                 | 12H  | 18.98            | 20.17 | 19.40 | 20.55 | 20.98 | 19.53          | 20.72 | 19.96 | 21.11 | 21.53 |
| 4H              | 2H   | 16.75            | 18.16 | 17.15 | 18.51 | 18.88 | 17.15          | 18.55 | 17.55 | 18.90 | 19.28 |
|                 | 3H   | 18.75            | 19.92 | 19.16 | 20.32 | 20.72 | 19.16          | 20.34 | 19.57 | 20.74 | 21.14 |
|                 | 4H   | 19.51            | 20.57 | 19.94 | 20.98 | 21.42 | 19.91          | 20.98 | 20.35 | 21.39 | 21.83 |
|                 | 6H   | 20.03            | 20.96 | 20.48 | 21.40 | 21.85 | 20.45          | 21.38 | 20.91 | 21.82 | 22.28 |
|                 | 8H   | 20.16            | 21.03 | 20.62 | 21.47 | 21.94 | 20.59          | 21.46 | 21.05 | 21.91 | 22.37 |
|                 | 12H  | 20.23            | 21.01 | 20.71 | 21.49 | 21.96 | 20.66          | 21.44 | 21.14 | 21.92 | 22.39 |
| 8H              | 4H   | 19.84            | 20.71 | 20.30 | 21.15 | 21.61 | 20.20          | 21.07 | 20.66 | 21.51 | 21.98 |
|                 | 6H   | 20.47            | 21.19 | 20.96 | 21.68 | 22.16 | 20.84          | 21.56 | 21.33 | 22.05 | 22.53 |
|                 | 8H   | 20.66            | 21.31 | 21.17 | 21.82 | 22.30 | 21.04          | 21.68 | 21.54 | 22.19 | 22.67 |
|                 | 12H  | 20.79            | 21.36 | 21.29 | 21.85 | 22.41 | 21.14          | 21.71 | 21.65 | 22.20 | 22.76 |
| 12H             | 4H   | 19.87            | 20.65 | 20.35 | 21.13 | 21.59 | 20.22          | 21.01 | 20.70 | 21.48 | 21.95 |
|                 | 6H   | 20.52            | 21.17 | 21.03 | 21.68 | 22.16 | 20.88          | 21.53 | 21.39 | 22.04 | 22.52 |
|                 | 8H   | 20.76            | 21.34 | 21.27 | 21.83 | 22.39 | 21.12          | 21.70 | 21.63 | 22.19 | 22.75 |