

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: P1584256

Luminaire Tested: 14CZSP-37HE-L840-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584256  
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-37HE-L840-S  
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

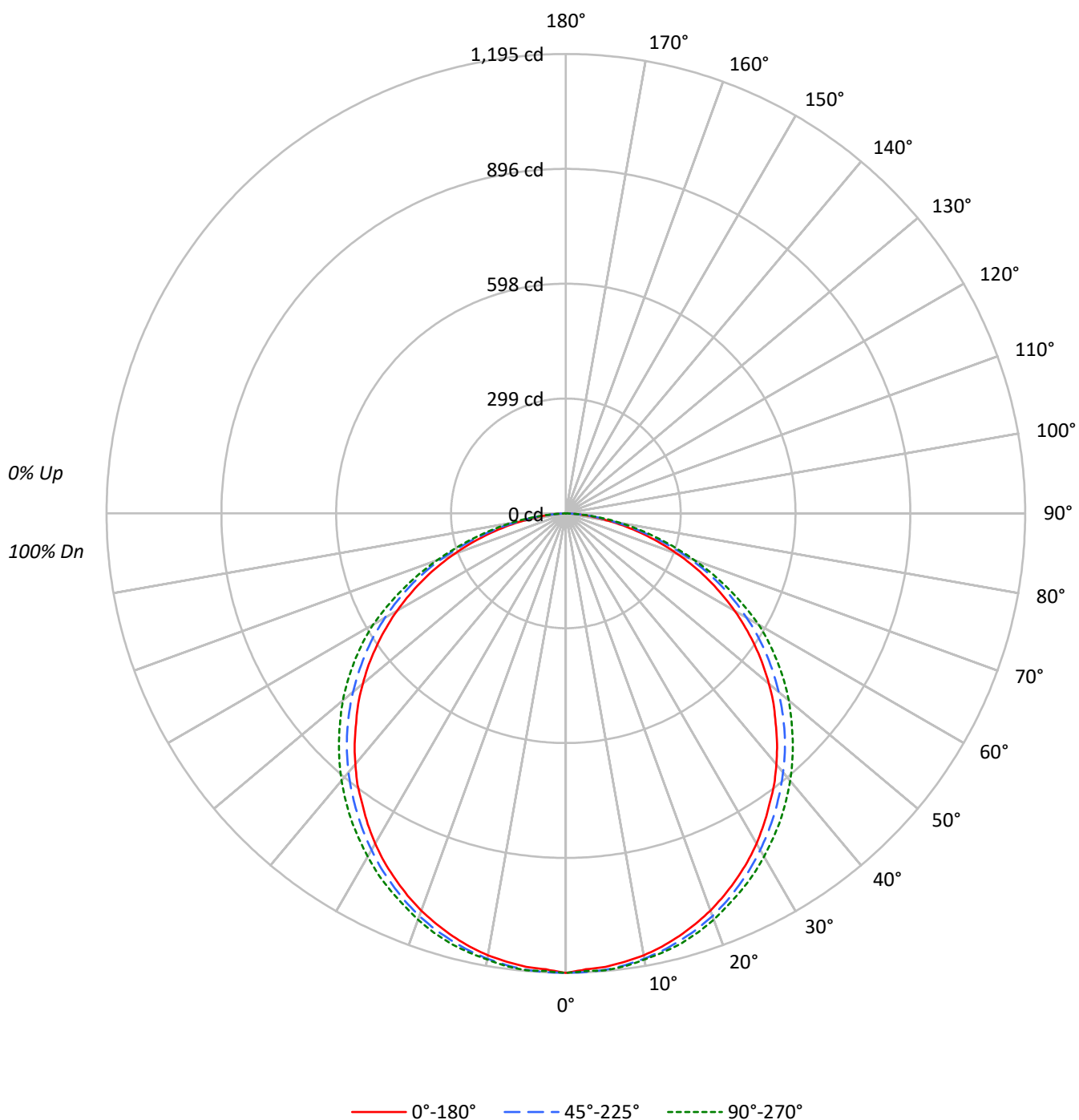
Lumens per Lamp: N/A  
Luminaire Lumens: 3456.0 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 24.7  
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  | 80  | 75  |  | 82  | 77  | 73  |  | 79  | 75  | 72  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  | 65  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 58  | 52  |  | 62  | 56  | 52  | 50  |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  |  | 57  | 51  | 45  |  | 55  | 50  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 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  | 59  | 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°  | 4028 | 4028 | 4028 |
| 5°  | 4005 | 4032 | 4035 |
| 10° | 3995 | 4024 | 4033 |
| 15° | 3972 | 4012 | 4041 |
| 20° | 3944 | 3997 | 4033 |
| 25° | 3903 | 3966 | 4021 |
| 30° | 3860 | 3935 | 4012 |
| 35° | 3798 | 3900 | 4005 |
| 40° | 3748 | 3869 | 3994 |
| 45° | 3677 | 3835 | 3978 |
| 50° | 3616 | 3790 | 3970 |
| 55° | 3530 | 3736 | 3945 |
| 60° | 3421 | 3661 | 3905 |
| 65° | 3269 | 3561 | 3743 |
| 70° | 3047 | 3362 | 3513 |
| 75° | 2722 | 3033 | 3205 |
| 80° | 2232 | 2558 | 2804 |
| 85° | 1496 | 1867 | 2084 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3978 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.2  | 3.3       |
| 10°-20°   | 324.6  | 9.4       |
| 20°-30°   | 491.5  | 14.2      |
| 30°-40°   | 593.5  | 17.2      |
| 40°-50°   | 620.3  | 17.9      |
| 50°-60°   | 568.4  | 16.4      |
| 60°-70°   | 438.7  | 12.7      |
| 70°-80°   | 246.8  | 7.1       |
| 80°-90°   | 59.0   | 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°    | 929.3  | 26.9      |
| 0°-40°    | 1522.8 | 44.1      |
| 0°-60°    | 2711.4 | 78.5      |
| 0°-90°    | 3456.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3456.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1195 | 1195  | 1195 | 1195  | 1195 |      |
| 5°  | 1184 | 1193  | 1192 | 1193  | 1193 | 112  |
| 15° | 1138 | 1148  | 1150 | 1155  | 1158 | 321  |
| 25° | 1050 | 1059  | 1067 | 1072  | 1082 | 484  |
| 35° | 923  | 935   | 948  | 961   | 974  | 579  |
| 45° | 772  | 787   | 805  | 821   | 835  | 596  |
| 55° | 601  | 616   | 636  | 656   | 672  | 537  |
| 65° | 410  | 428   | 447  | 464   | 470  | 405  |
| 75° | 209  | 228   | 233  | 243   | 246  | 222  |
| 85° | 39   | 44    | 48   | 53    | 54   | 50   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1195.4 | 1195.4 | 1195.4 | 1195.4 | 1195.4 |
| 2.5°  | 1187.3 | 1196.5 | 1194.4 | 1197.5 | 1191.9 |
| 5°    | 1184.2 | 1192.9 | 1191.9 | 1192.9 | 1192.9 |
| 7.5°  | 1176.6 | 1185.8 | 1185.3 | 1186.8 | 1187.8 |
| 10°   | 1167.5 | 1176.1 | 1176.1 | 1177.6 | 1178.6 |
| 12.5° | 1154.7 | 1163.9 | 1164.9 | 1167.5 | 1169.5 |
| 15°   | 1138.5 | 1147.6 | 1150.2 | 1154.7 | 1158.3 |
| 17.5° | 1120.1 | 1129.8 | 1133.9 | 1138.5 | 1143.0 |
| 20°   | 1099.8 | 1108.4 | 1114.6 | 1118.1 | 1124.7 |
| 22.5° | 1075.9 | 1085.6 | 1092.2 | 1095.7 | 1102.9 |
| 25°   | 1049.9 | 1059.1 | 1066.7 | 1072.3 | 1081.5 |
| 27.5° | 1022.5 | 1031.6 | 1040.8 | 1047.4 | 1058.1 |
| 30°   | 992.0  | 1001.6 | 1011.3 | 1021.5 | 1031.1 |
| 32.5° | 958.9  | 970.1  | 980.8  | 992.0  | 1002.6 |
| 35°   | 923.3  | 935.0  | 948.2  | 960.9  | 973.6  |
| 37.5° | 890.2  | 900.9  | 914.6  | 928.4  | 941.1  |
| 40°   | 852.1  | 863.8  | 879.5  | 894.8  | 908.0  |
| 42.5° | 813.4  | 826.1  | 843.4  | 858.2  | 872.4  |
| 45°   | 771.7  | 787.0  | 804.8  | 821.0  | 834.8  |
| 47.5° | 733.0  | 746.3  | 764.1  | 781.9  | 796.1  |
| 50°   | 689.8  | 704.5  | 722.9  | 741.7  | 757.4  |
| 52.5° | 646.0  | 661.3  | 680.1  | 698.9  | 715.2  |
| 55°   | 600.8  | 616.5  | 635.9  | 655.7  | 671.5  |
| 57.5° | 554.5  | 571.3  | 591.1  | 610.9  | 626.7  |
| 60°   | 507.7  | 524.5  | 543.3  | 565.2  | 579.4  |
| 62.5° | 458.8  | 477.7  | 495.5  | 515.8  | 524.5  |
| 65°   | 410.0  | 427.8  | 446.6  | 464.4  | 469.5  |
| 67.5° | 360.2  | 378.5  | 395.3  | 407.0  | 413.6  |
| 70°   | 309.3  | 329.1  | 341.3  | 352.5  | 356.6  |
| 72.5° | 258.9  | 278.8  | 285.9  | 296.6  | 300.6  |
| 75°   | 209.1  | 228.4  | 233.0  | 242.6  | 246.2  |
| 77.5° | 160.7  | 178.6  | 180.1  | 191.3  | 194.3  |
| 80°   | 115.0  | 129.2  | 131.8  | 142.4  | 144.5  |
| 82.5° | 73.8   | 83.9   | 87.5   | 96.7   | 99.7   |
| 85°   | 38.7   | 44.3   | 48.3   | 52.9   | 53.9   |
| 87.5° | 12.7   | 15.8   | 13.2   | 13.7   | 12.7   |
| 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 | 16.55            | 18.20 | 16.92 | 18.52 | 18.83 | 17.09          | 18.74 | 17.46 | 19.06 | 19.37 |
|                 | 3H   | 18.33            | 19.82 | 18.71 | 20.15 | 20.51 | 18.95          | 20.44 | 19.33 | 20.77 | 21.13 |
|                 | 4H   | 18.96            | 20.36 | 19.35 | 20.71 | 21.09 | 19.62          | 21.03 | 20.02 | 21.37 | 21.75 |
|                 | 6H   | 19.36            | 20.67 | 19.77 | 21.03 | 21.42 | 20.10          | 21.40 | 20.51 | 21.76 | 22.15 |
|                 | 8H   | 19.47            | 20.71 | 19.89 | 21.10 | 21.50 | 20.24          | 21.49 | 20.67 | 21.88 | 22.27 |
|                 | 12H  | 19.52            | 20.71 | 19.95 | 21.09 | 21.52 | 20.32          | 21.52 | 20.75 | 21.90 | 22.33 |
| 4H              | 2H   | 17.28            | 18.68 | 17.68 | 19.03 | 19.41 | 17.70          | 19.11 | 18.10 | 19.45 | 19.83 |
|                 | 3H   | 19.27            | 20.45 | 19.68 | 20.85 | 21.25 | 19.77          | 20.95 | 20.18 | 21.35 | 21.75 |
|                 | 4H   | 20.03            | 21.10 | 20.46 | 21.51 | 21.95 | 20.57          | 21.64 | 21.00 | 22.05 | 22.48 |
|                 | 6H   | 20.56            | 21.49 | 21.01 | 21.93 | 22.39 | 21.17          | 22.10 | 21.62 | 22.54 | 23.00 |
|                 | 8H   | 20.70            | 21.57 | 21.16 | 22.01 | 22.48 | 21.36          | 22.23 | 21.82 | 22.68 | 23.14 |
|                 | 12H  | 20.78            | 21.56 | 21.26 | 22.04 | 22.50 | 21.48          | 22.27 | 21.96 | 22.74 | 23.21 |
| 8H              | 4H   | 20.37            | 21.24 | 20.83 | 21.68 | 22.15 | 20.84          | 21.72 | 21.30 | 22.16 | 22.62 |
|                 | 6H   | 21.01            | 21.73 | 21.50 | 22.22 | 22.70 | 21.56          | 22.28 | 22.05 | 22.77 | 23.24 |
|                 | 8H   | 21.21            | 21.86 | 21.72 | 22.36 | 22.85 | 21.81          | 22.46 | 22.32 | 22.97 | 23.46 |
|                 | 12H  | 21.34            | 21.91 | 21.84 | 22.40 | 22.96 | 22.00          | 22.57 | 22.50 | 23.06 | 23.62 |
| 12H             | 4H   | 20.40            | 21.19 | 20.88 | 21.66 | 22.13 | 20.87          | 21.65 | 21.35 | 22.13 | 22.60 |
|                 | 6H   | 21.06            | 21.71 | 21.57 | 22.22 | 22.71 | 21.59          | 22.25 | 22.10 | 22.75 | 23.24 |
|                 | 8H   | 21.31            | 21.89 | 21.82 | 22.38 | 22.94 | 21.90          | 22.48 | 22.41 | 22.97 | 23.53 |