

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P732025

Luminaire Tested: **22CZ2-34HE-RDP-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274731)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-34HE-RDP-B2750-W2D-5000K  
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

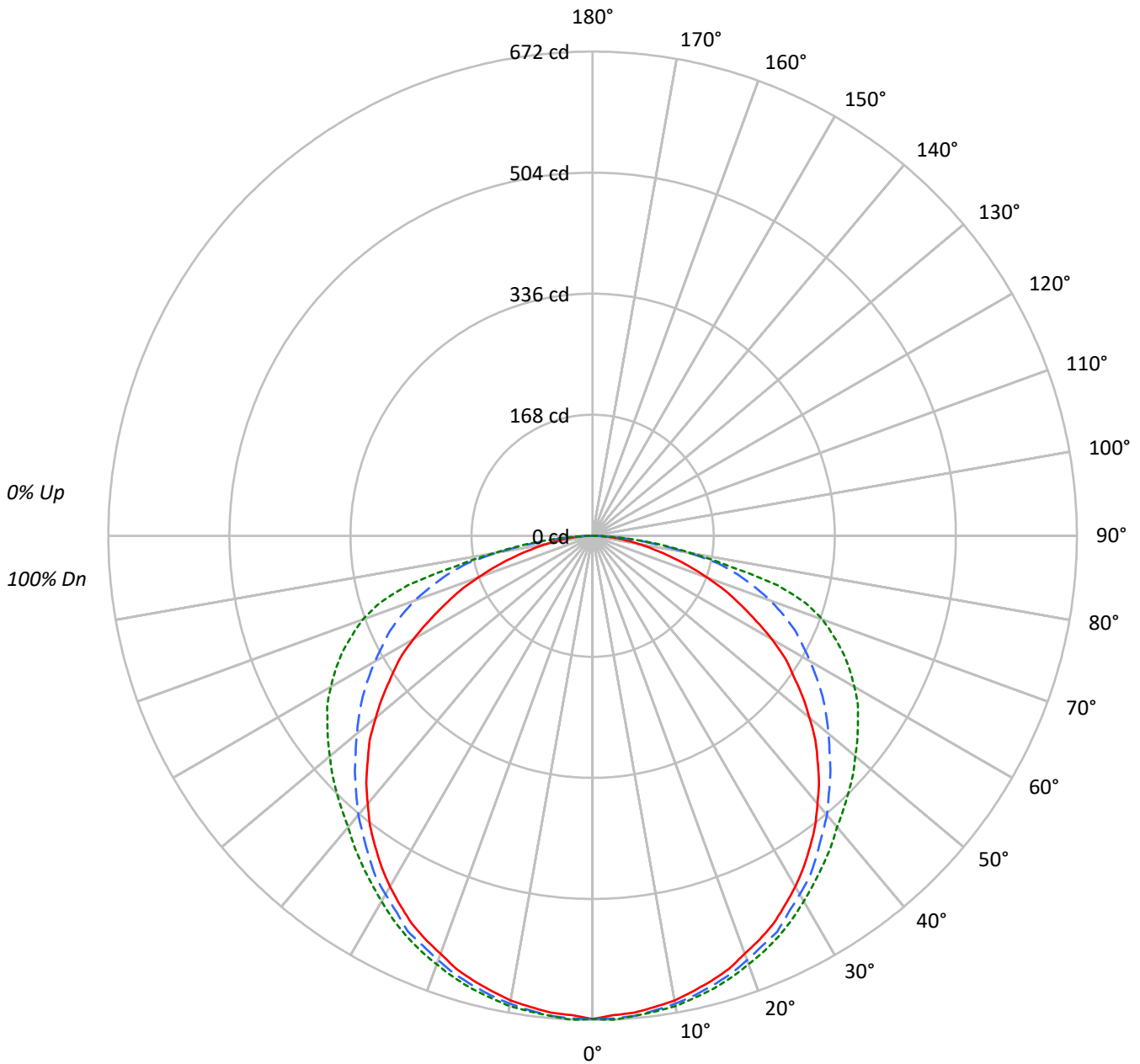
Lumens per Lamp: N/A  
Luminaire Lumens: 2135.0 lumens  
Efficiency: N/A  
Efficacy: 71.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 30  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 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  |     |    |    | 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  | 50  | 30 | 10 | 0  |     |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    | 100 |
| 1   | 108 | 103 | 98  | 94  | 105 | 100 | 96  | 92  | 96  | 92  | 89  | 92  | 89  | 86  | 88  | 86  | 84  | 82  |    |    |    | 82  |
| 2   | 97  | 88  | 81  | 75  | 95  | 86  | 80  | 74  | 83  | 77  | 72  | 80  | 75  | 71  | 76  | 72  | 69  | 67  |    |    |    | 67  |
| 3   | 88  | 77  | 68  | 61  | 86  | 75  | 67  | 61  | 72  | 65  | 60  | 70  | 64  | 59  | 67  | 62  | 58  | 55  |    |    |    | 55  |
| 4   | 80  | 68  | 59  | 51  | 78  | 66  | 58  | 51  | 64  | 56  | 50  | 61  | 55  | 50  | 59  | 54  | 49  | 47  |    |    |    | 47  |
| 5   | 74  | 60  | 51  | 44  | 72  | 59  | 50  | 44  | 57  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 42  | 40  |    |    |    | 40  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 35  |    |    |    | 35  |
| 7   | 63  | 49  | 40  | 33  | 61  | 48  | 39  | 33  | 47  | 39  | 33  | 45  | 38  | 33  | 44  | 37  | 33  | 31  |    |    |    | 31  |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 35  | 30  | 43  | 35  | 29  | 41  | 34  | 29  | 40  | 34  | 29  | 27  |    |    |    | 27  |
| 9   | 55  | 41  | 32  | 27  | 53  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  | 37  | 31  | 26  | 24  |    |    |    | 24  |
| 10  | 51  | 38  | 30  | 24  | 50  | 37  | 29  | 24  | 36  | 29  | 24  | 35  | 29  | 24  | 34  | 28  | 24  | 22  |    |    |    | 22  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1903 | 1903 | 1903 |
| 5°  | 1892 | 1906 | 1906 |
| 10° | 1887 | 1901 | 1910 |
| 15° | 1878 | 1897 | 1910 |
| 20° | 1864 | 1892 | 1911 |
| 25° | 1859 | 1898 | 1918 |
| 30° | 1843 | 1883 | 1919 |
| 35° | 1823 | 1877 | 1932 |
| 40° | 1798 | 1874 | 1955 |
| 45° | 1771 | 1872 | 2017 |
| 50° | 1734 | 1885 | 2101 |
| 55° | 1686 | 1927 | 2222 |
| 60° | 1630 | 1978 | 2380 |
| 65° | 1519 | 2078 | 2573 |
| 70° | 1394 | 2177 | 2814 |
| 75° | 1224 | 2289 | 2910 |
| 80° | 1051 | 2181 | 2284 |
| 85° | 918  | 1582 | 1735 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.4   | 3.0       |
| 10°-20°   | 182.1  | 8.5       |
| 20°-30°   | 277.9  | 13.0      |
| 30°-40°   | 339.3  | 15.9      |
| 40°-50°   | 362.8  | 17.0      |
| 50°-60°   | 350.2  | 16.4      |
| 60°-70°   | 301.4  | 14.1      |
| 70°-80°   | 203.9  | 9.6       |
| 80°-90°   | 53.8   | 2.5       |
| 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°    | 523.5  | 24.5      |
| 0°-40°    | 862.8  | 40.4      |
| 0°-60°    | 1575.8 | 73.8      |
| 0°-90°    | 2135.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2135.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 671 | 671   | 671 | 671   | 671 |      |
| 5°  | 664 | 666   | 669 | 669   | 669 | 63   |
| 15° | 639 | 641   | 646 | 649   | 650 | 180  |
| 25° | 594 | 597   | 606 | 610   | 612 | 273  |
| 35° | 526 | 531   | 542 | 553   | 558 | 329  |
| 45° | 441 | 449   | 466 | 490   | 503 | 341  |
| 55° | 341 | 352   | 390 | 429   | 449 | 305  |
| 65° | 226 | 248   | 310 | 358   | 383 | 225  |
| 75° | 112 | 148   | 209 | 251   | 265 | 120  |
| 85° | 28  | 39    | 49  | 50    | 53  | 32   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 670.6 | 670.6 | 670.6 | 670.6 | 670.6 |
| 2.5°  | 666.0 | 667.5 | 670.6 | 670.6 | 672.3 |
| 5°    | 664.3 | 666.0 | 669.0 | 669.0 | 669.0 |
| 7.5°  | 659.6 | 661.3 | 664.3 | 666.0 | 666.0 |
| 10°   | 654.9 | 656.6 | 659.6 | 661.3 | 662.8 |
| 12.5° | 647.1 | 648.6 | 653.3 | 656.6 | 656.6 |
| 15°   | 639.2 | 640.9 | 645.6 | 648.6 | 650.3 |
| 17.5° | 629.9 | 632.9 | 637.6 | 640.9 | 642.4 |
| 20°   | 617.2 | 620.4 | 626.7 | 631.4 | 632.9 |
| 22.5° | 606.2 | 609.5 | 615.7 | 620.4 | 623.5 |
| 25°   | 593.8 | 596.8 | 606.2 | 609.5 | 612.5 |
| 27.5° | 578.1 | 581.1 | 589.0 | 595.3 | 600.0 |
| 30°   | 562.4 | 565.4 | 574.8 | 582.6 | 585.8 |
| 32.5° | 545.0 | 549.7 | 560.7 | 566.9 | 571.6 |
| 35°   | 526.2 | 530.8 | 541.9 | 552.9 | 557.6 |
| 37.5° | 507.3 | 512.0 | 523.0 | 537.2 | 543.4 |
| 40°   | 485.4 | 491.6 | 505.8 | 524.5 | 527.7 |
| 42.5° | 464.9 | 472.7 | 485.4 | 507.3 | 515.1 |
| 45°   | 441.3 | 449.2 | 466.5 | 490.1 | 502.6 |
| 47.5° | 419.4 | 427.1 | 446.0 | 474.4 | 490.1 |
| 50°   | 392.7 | 403.7 | 427.1 | 460.2 | 475.9 |
| 52.5° | 367.5 | 377.0 | 408.4 | 444.5 | 463.2 |
| 55°   | 340.9 | 351.8 | 389.5 | 428.8 | 449.2 |
| 57.5° | 317.2 | 326.7 | 369.0 | 413.1 | 436.6 |
| 60°   | 287.3 | 300.0 | 348.6 | 395.7 | 419.4 |
| 62.5° | 255.9 | 274.8 | 328.2 | 377.0 | 402.1 |
| 65°   | 226.2 | 248.2 | 309.5 | 358.1 | 383.2 |
| 67.5° | 199.4 | 223.0 | 285.8 | 337.6 | 361.3 |
| 70°   | 168.0 | 197.9 | 262.4 | 312.5 | 339.2 |
| 72.5° | 139.8 | 172.7 | 235.5 | 285.8 | 309.5 |
| 75°   | 111.6 | 147.5 | 208.8 | 251.4 | 265.4 |
| 77.5° | 86.4  | 120.9 | 179.1 | 191.6 | 193.1 |
| 80°   | 64.3  | 95.7  | 133.5 | 135.1 | 139.8 |
| 82.5° | 43.9  | 67.5  | 86.4  | 94.2  | 95.7  |
| 85°   | 28.2  | 39.3  | 48.6  | 50.3  | 53.3  |
| 87.5° | 12.5  | 14.2  | 17.2  | 15.7  | 15.7  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)