

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: P842835

Luminaire Tested: **14CZ2-29-RDP-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-29-RDP-UNV-B50  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

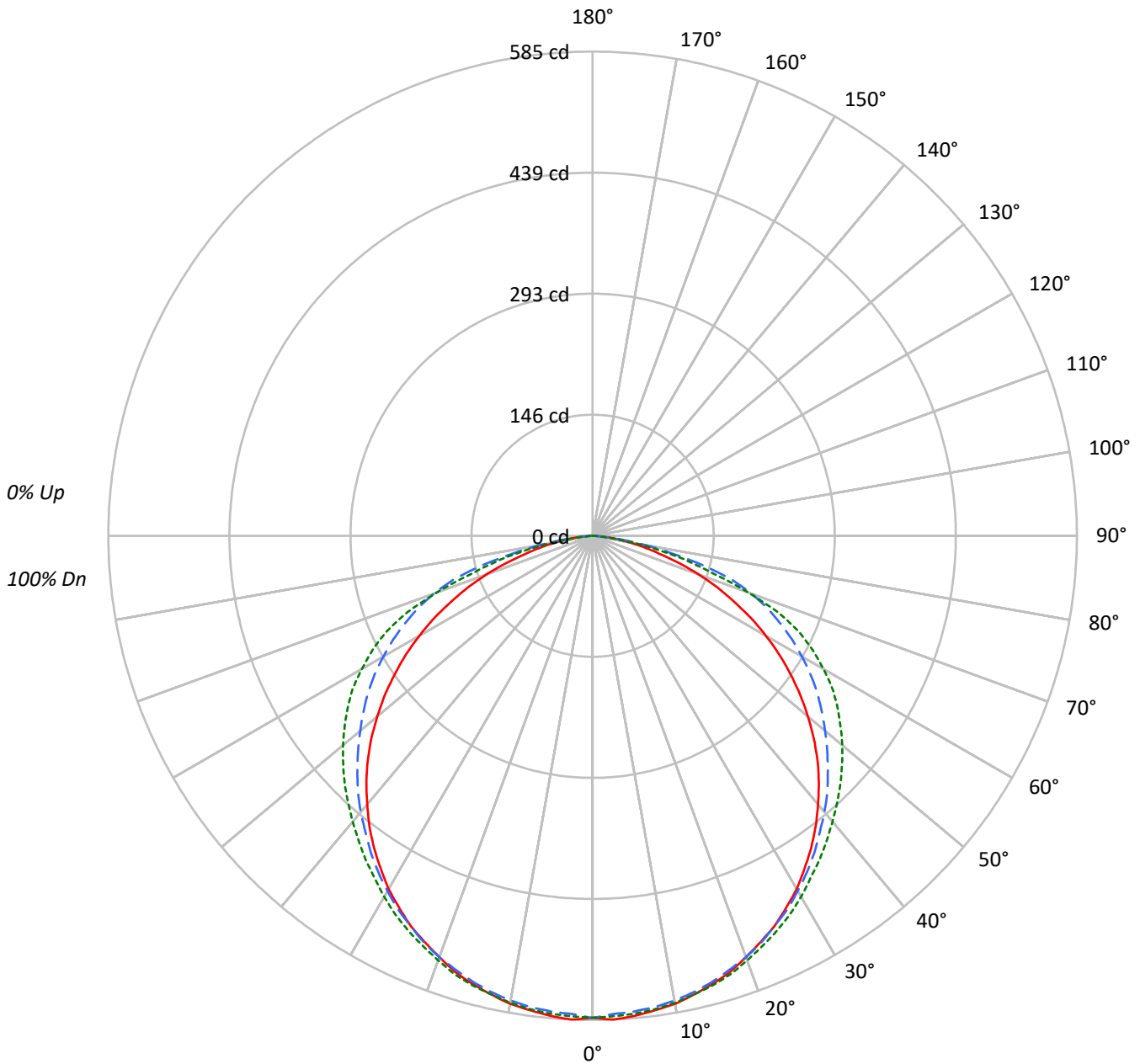
Lumens per Lamp: N/A  
Luminaire Lumens: 1739.0 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 88  | 86  | 84  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 99  | 90  | 83  | 77  | 96  | 88  | 82  | 76  | 85  | 79  | 75  | 81  | 77  | 73  | 78  | 75  | 71  | 69  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 63  | 74  | 68  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 58  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 53  | 66  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 37  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  | 47  | 40  | 35  | 45  | 39  | 34  | 32  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 43  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 52  | 39  | 31  | 25  | 51  | 38  | 31  | 25  | 37  | 30  | 25  | 36  | 30  | 25  | 35  | 29  | 25  | 23  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1644 | 1644 | 1644 |
| 5°  | 1650 | 1635 | 1643 |
| 10° | 1646 | 1635 | 1642 |
| 15° | 1638 | 1631 | 1643 |
| 20° | 1627 | 1627 | 1639 |
| 25° | 1620 | 1620 | 1640 |
| 30° | 1607 | 1615 | 1642 |
| 35° | 1586 | 1610 | 1647 |
| 40° | 1560 | 1606 | 1661 |
| 45° | 1534 | 1604 | 1691 |
| 50° | 1491 | 1610 | 1729 |
| 55° | 1436 | 1630 | 1777 |
| 60° | 1364 | 1648 | 1817 |
| 65° | 1260 | 1668 | 1841 |
| 70° | 1121 | 1681 | 1646 |
| 75° | 904  | 1510 | 1317 |
| 80° | 705  | 1060 | 860  |
| 85° | 486  | 308  | 220  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.1   | 3.2       |
| 10°-20°   | 158.2  | 9.1       |
| 20°-30°   | 240.8  | 13.8      |
| 30°-40°   | 293.3  | 16.9      |
| 40°-50°   | 311.2  | 17.9      |
| 50°-60°   | 293.7  | 16.9      |
| 60°-70°   | 237.1  | 13.6      |
| 70°-80°   | 128.7  | 7.4       |
| 80°-90°   | 20.8   | 1.2       |
| 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°    | 454.1  | 26.1      |
| 0°-40°    | 747.5  | 43.0      |
| 0°-60°    | 1352.4 | 77.8      |
| 0°-90°    | 1739.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1739.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 582 | 582   | 582 | 582   | 582 |      |
| 5°  | 582 | 581   | 577 | 581   | 580 | 55   |
| 15° | 561 | 559   | 558 | 562   | 562 | 158  |
| 25° | 520 | 519   | 520 | 525   | 527 | 239  |
| 35° | 460 | 463   | 467 | 477   | 478 | 288  |
| 45° | 384 | 390   | 402 | 417   | 424 | 296  |
| 55° | 292 | 304   | 331 | 353   | 361 | 261  |
| 65° | 189 | 212   | 250 | 270   | 276 | 187  |
| 75° | 83  | 121   | 138 | 125   | 121 | 91   |
| 85° | 15  | 16    | 10  | 8     | 7   | 19   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 582.4 | 582.4 | 582.4 | 582.4 | 582.4 |
| 2.5°  | 585.1 | 582.4 | 578.3 | 582.4 | 581.1 |
| 5°    | 582.4 | 581.1 | 576.9 | 581.1 | 579.8 |
| 7.5°  | 578.3 | 578.3 | 574.3 | 576.9 | 576.9 |
| 10°   | 574.3 | 573.0 | 570.3 | 574.3 | 573.0 |
| 12.5° | 567.5 | 566.1 | 564.8 | 568.8 | 567.5 |
| 15°   | 560.6 | 559.3 | 558.0 | 562.1 | 562.1 |
| 17.5° | 552.5 | 551.2 | 549.8 | 555.3 | 555.3 |
| 20°   | 541.7 | 541.7 | 541.7 | 547.2 | 545.8 |
| 22.5° | 530.9 | 530.9 | 532.2 | 537.7 | 536.3 |
| 25°   | 520.0 | 518.7 | 520.0 | 525.4 | 526.7 |
| 27.5° | 506.4 | 507.7 | 509.1 | 514.5 | 515.9 |
| 30°   | 492.9 | 494.2 | 495.6 | 502.4 | 503.7 |
| 32.5° | 476.6 | 479.3 | 481.9 | 490.1 | 490.1 |
| 35°   | 460.3 | 463.0 | 467.1 | 476.6 | 477.9 |
| 37.5° | 442.7 | 445.3 | 450.8 | 461.6 | 464.3 |
| 40°   | 423.5 | 427.7 | 435.8 | 446.6 | 450.8 |
| 42.5° | 404.5 | 410.0 | 419.5 | 431.7 | 437.2 |
| 45°   | 384.2 | 389.6 | 401.9 | 416.9 | 423.5 |
| 47.5° | 362.4 | 369.3 | 384.2 | 403.2 | 408.7 |
| 50°   | 339.5 | 349.0 | 366.6 | 386.9 | 393.7 |
| 52.5° | 316.3 | 327.2 | 349.0 | 370.6 | 377.4 |
| 55°   | 291.9 | 304.0 | 331.3 | 353.0 | 361.1 |
| 57.5° | 267.4 | 281.1 | 312.2 | 335.3 | 343.5 |
| 60°   | 241.6 | 257.9 | 291.9 | 315.0 | 321.8 |
| 62.5° | 215.8 | 234.8 | 271.6 | 294.5 | 300.0 |
| 65°   | 188.7 | 211.8 | 249.8 | 270.3 | 275.6 |
| 67.5° | 162.9 | 190.0 | 228.2 | 243.0 | 243.0 |
| 70°   | 135.8 | 165.6 | 203.7 | 207.7 | 199.5 |
| 72.5° | 108.7 | 142.6 | 176.6 | 161.6 | 154.8 |
| 75°   | 82.9  | 120.8 | 138.5 | 125.0 | 120.8 |
| 77.5° | 62.4  | 97.7  | 97.7  | 89.5  | 86.9  |
| 80°   | 43.4  | 74.7  | 65.2  | 57.1  | 52.9  |
| 82.5° | 28.5  | 42.1  | 33.9  | 27.1  | 23.1  |
| 85°   | 15.0  | 16.3  | 9.5   | 8.2   | 6.8   |
| 87.5° | 5.5   | 2.7   | 1.3   | 2.7   | 1.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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







(END OF REPORT)