

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: P731821

Luminaire Tested: **14CZ2-25-RDP-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731821
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: 14CZ2-25-RDP-B2750-W2D-2700K
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

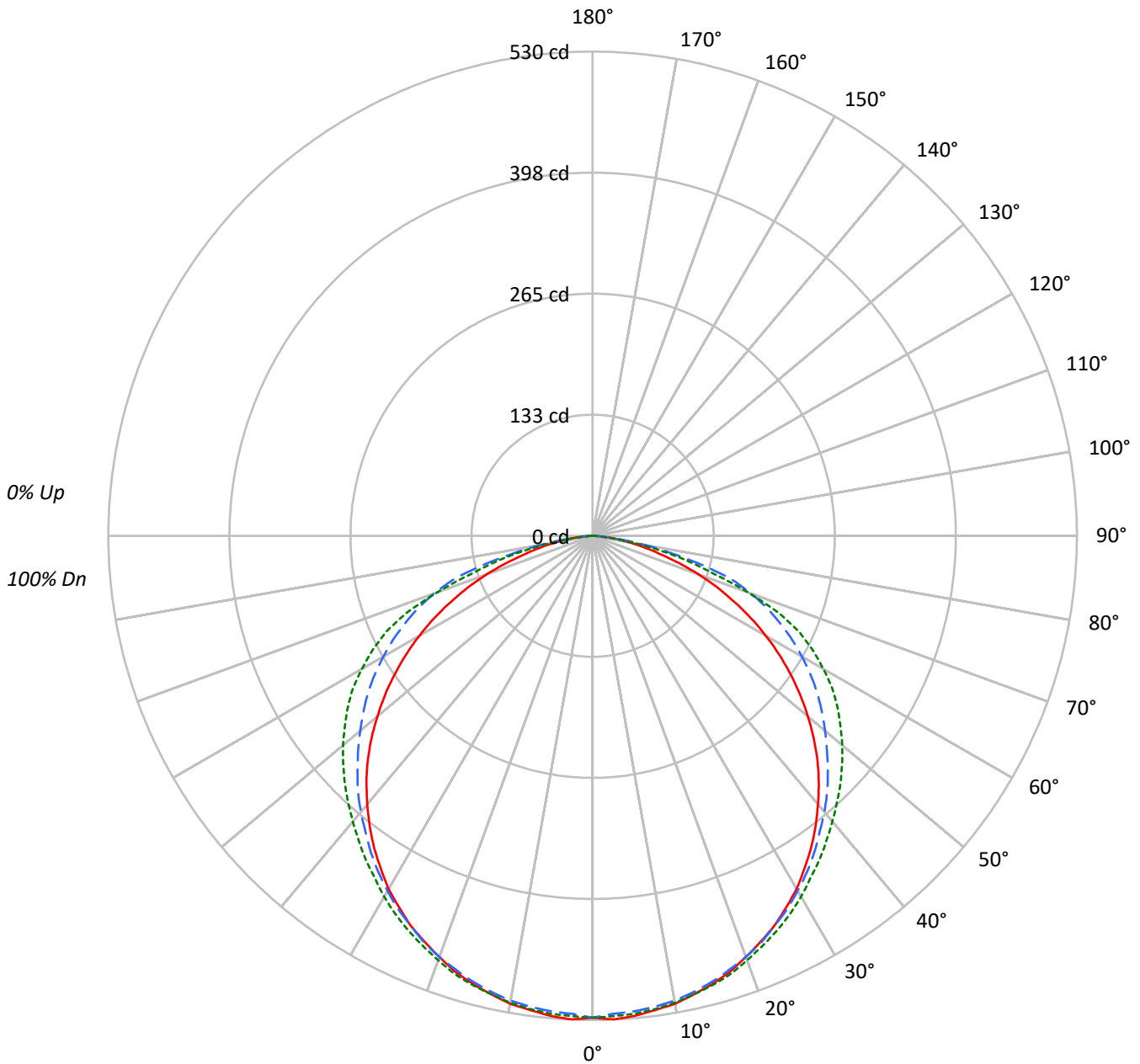
Lumens per Lamp: N/A
Luminaire Lumens: 1575.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (A_{in}): 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 | | | | | |
| 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 | | | | | | | | |
| 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° | 1489 | 1489 | 1489 |
| 5° | 1495 | 1480 | 1488 |
| 10° | 1491 | 1480 | 1487 |
| 15° | 1484 | 1477 | 1488 |
| 20° | 1474 | 1474 | 1485 |
| 25° | 1467 | 1467 | 1486 |
| 30° | 1455 | 1463 | 1487 |
| 35° | 1437 | 1458 | 1492 |
| 40° | 1413 | 1454 | 1504 |
| 45° | 1389 | 1453 | 1531 |
| 50° | 1350 | 1458 | 1566 |
| 55° | 1301 | 1477 | 1610 |
| 60° | 1235 | 1493 | 1646 |
| 65° | 1141 | 1511 | 1667 |
| 70° | 1015 | 1523 | 1491 |
| 75° | 819 | 1368 | 1193 |
| 80° | 639 | 961 | 779 |
| 85° | 440 | 279 | 201 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.9 | 3.2 |
| 10°-20° | 143.2 | 9.1 |
| 20°-30° | 218.1 | 13.8 |
| 30°-40° | 265.7 | 16.9 |
| 40°-50° | 281.9 | 17.9 |
| 50°-60° | 266.0 | 16.9 |
| 60°-70° | 214.8 | 13.6 |
| 70°-80° | 116.5 | 7.4 |
| 80°-90° | 18.9 | 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° | 411.3 | 26.1 |
| 0°-40° | 677.0 | 43.0 |
| 0°-60° | 1224.9 | 77.8 |
| 0°-90° | 1575.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1575.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 528 | 528 | 528 | 528 | 528 | |
| 5° | 528 | 526 | 522 | 526 | 525 | 50 |
| 15° | 508 | 507 | 505 | 509 | 509 | 143 |
| 25° | 471 | 470 | 471 | 476 | 477 | 217 |
| 35° | 417 | 419 | 423 | 432 | 433 | 261 |
| 45° | 348 | 353 | 364 | 378 | 384 | 268 |
| 55° | 264 | 275 | 300 | 320 | 327 | 236 |
| 65° | 171 | 192 | 226 | 245 | 250 | 169 |
| 75° | 75 | 109 | 125 | 113 | 109 | 82 |
| 85° | 14 | 15 | 9 | 7 | 6 | 17 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 14CZ2-25-RDP-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 527.5 | 527.5 | 527.5 | 527.5 | 527.5 |
| 2.5° | 529.9 | 527.5 | 523.7 | 527.5 | 526.3 |
| 5° | 527.5 | 526.3 | 522.5 | 526.3 | 525.1 |
| 7.5° | 523.7 | 523.7 | 520.1 | 522.5 | 522.5 |
| 10° | 520.1 | 518.9 | 516.5 | 520.1 | 518.9 |
| 12.5° | 513.9 | 512.7 | 511.5 | 515.2 | 513.9 |
| 15° | 507.8 | 506.6 | 505.4 | 509.1 | 509.1 |
| 17.5° | 500.4 | 499.2 | 498.0 | 502.9 | 502.9 |
| 20° | 490.6 | 490.6 | 490.6 | 495.6 | 494.4 |
| 22.5° | 480.8 | 480.8 | 482.0 | 487.0 | 485.8 |
| 25° | 471.0 | 469.8 | 471.0 | 475.8 | 477.0 |
| 27.5° | 458.6 | 459.8 | 461.0 | 466.0 | 467.2 |
| 30° | 446.4 | 447.6 | 448.8 | 455.0 | 456.2 |
| 32.5° | 431.7 | 434.1 | 436.5 | 443.9 | 443.9 |
| 35° | 416.9 | 419.3 | 423.1 | 431.7 | 432.9 |
| 37.5° | 400.9 | 403.3 | 408.3 | 418.1 | 420.5 |
| 40° | 383.6 | 387.3 | 394.7 | 404.5 | 408.3 |
| 42.5° | 366.4 | 371.4 | 380.0 | 391.0 | 395.9 |
| 45° | 348.0 | 352.8 | 364.0 | 377.5 | 383.6 |
| 47.5° | 328.3 | 334.4 | 348.0 | 365.2 | 370.2 |
| 50° | 307.5 | 316.1 | 332.0 | 350.4 | 356.6 |
| 52.5° | 286.5 | 296.3 | 316.1 | 335.6 | 341.8 |
| 55° | 264.4 | 275.4 | 300.1 | 319.7 | 327.1 |
| 57.5° | 242.2 | 254.6 | 282.7 | 303.7 | 311.1 |
| 60° | 218.8 | 233.6 | 264.4 | 285.3 | 291.5 |
| 62.5° | 195.5 | 212.7 | 246.0 | 266.8 | 271.7 |
| 65° | 170.9 | 191.9 | 226.2 | 244.8 | 249.6 |
| 67.5° | 147.6 | 172.1 | 206.6 | 220.0 | 220.0 |
| 70° | 123.0 | 150.0 | 184.5 | 188.1 | 180.7 |
| 72.5° | 98.4 | 129.2 | 159.9 | 146.3 | 140.2 |
| 75° | 75.1 | 109.4 | 125.4 | 113.2 | 109.4 |
| 77.5° | 56.5 | 88.5 | 88.5 | 81.1 | 78.7 |
| 80° | 39.3 | 67.7 | 59.1 | 51.7 | 47.9 |
| 82.5° | 25.8 | 38.1 | 30.7 | 24.6 | 20.9 |
| 85° | 13.6 | 14.8 | 8.6 | 7.4 | 6.2 |
| 87.5° | 5.0 | 2.4 | 1.2 | 2.4 | 1.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)