

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: P732149

Luminaire Tested: **24CZ2-35-RDP-B2750-W2D-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-RDP-B2750-W2D-4000K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

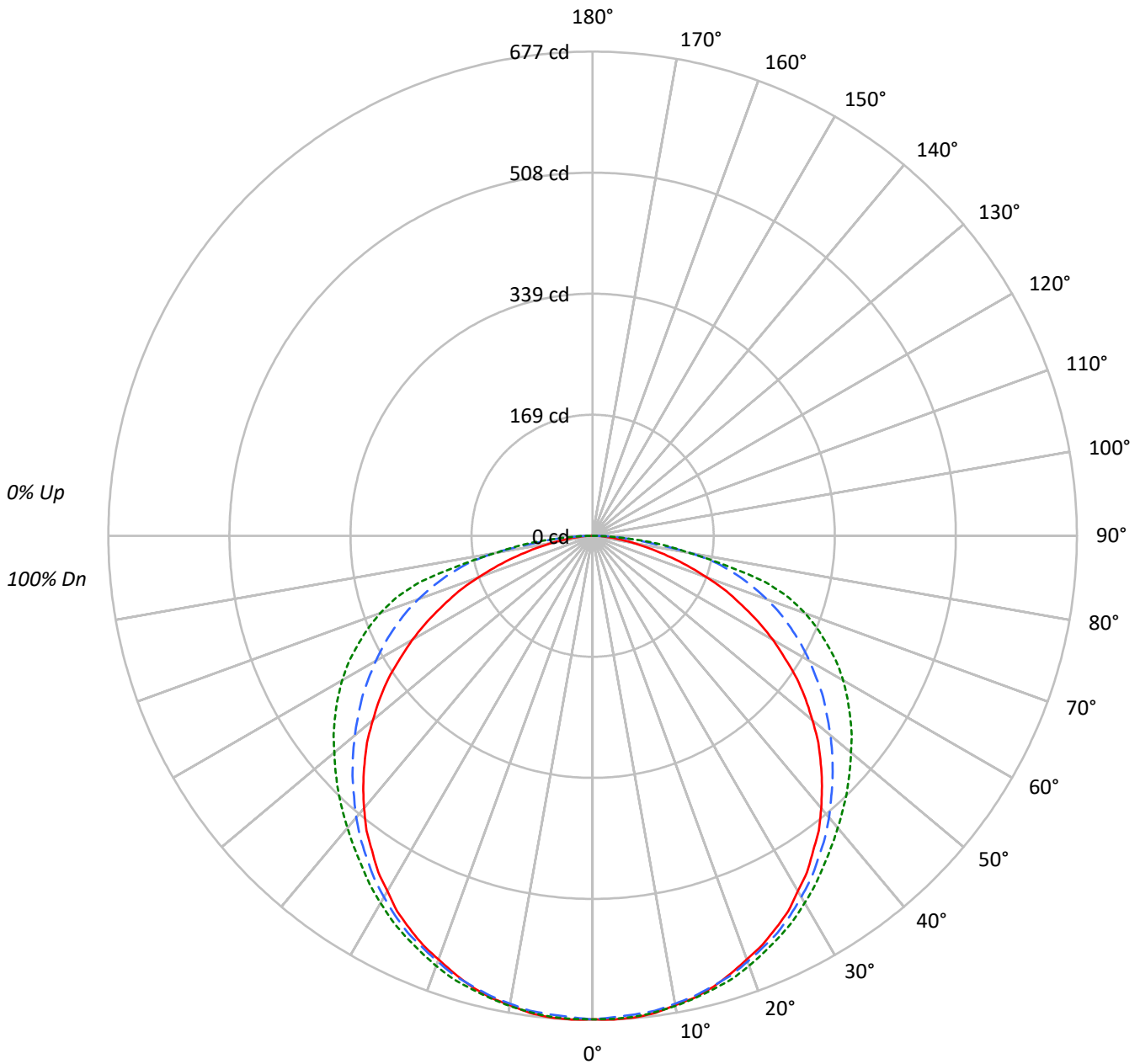
Lumens per Lamp: N/A
Luminaire Lumens: 2150.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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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CATALOG NUMBER: 24CZ2-35-RDP-B2750-W2D-4000K

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 | 108 | 103 | 98 | 94 | 105 | 100 | 96 | 92 | 96 | 93 | 89 | 92 | 89 | 87 | 88 | 86 | 84 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 97 | 89 | 81 | 75 | 95 | 87 | 80 | 74 | 83 | 77 | 72 | 80 | 75 | 71 | 77 | 73 | 69 | 67 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 88 | 77 | 68 | 62 | 86 | 76 | 68 | 61 | 72 | 66 | 60 | 70 | 64 | 59 | 67 | 62 | 58 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 81 | 68 | 59 | 52 | 78 | 67 | 58 | 51 | 64 | 57 | 51 | 62 | 55 | 50 | 59 | 54 | 49 | 47 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 74 | 60 | 51 | 44 | 72 | 59 | 51 | 44 | 57 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 45 | 38 | 51 | 44 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 26 | 37 | 31 | 26 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 51 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 34 | 28 | 24 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-----|------|------|
| 0° | 954 | 954 | 954 |
| 5° | 958 | 952 | 956 |
| 10° | 955 | 952 | 957 |
| 15° | 954 | 952 | 958 |
| 20° | 947 | 951 | 961 |
| 25° | 943 | 953 | 963 |
| 30° | 935 | 951 | 966 |
| 35° | 926 | 948 | 970 |
| 40° | 916 | 947 | 983 |
| 45° | 900 | 947 | 1005 |
| 50° | 880 | 953 | 1035 |
| 55° | 858 | 968 | 1081 |
| 60° | 822 | 987 | 1141 |
| 65° | 769 | 1022 | 1211 |
| 70° | 700 | 1069 | 1303 |
| 75° | 593 | 1128 | 1361 |
| 80° | 468 | 1135 | 1100 |
| 85° | 345 | 865 | 967 |



TEST NUMBER: P732149

CATALOG NUMBER: 24CZ2-35-RDP-B2750-W2D-4000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.1 | 3.0 |
| 10°-20° | 184.6 | 8.6 |
| 20°-30° | 282.3 | 13.1 |
| 30°-40° | 345.1 | 16.0 |
| 40°-50° | 367.8 | 17.1 |
| 50°-60° | 351.6 | 16.4 |
| 60°-70° | 297.9 | 13.9 |
| 70°-80° | 200.2 | 9.3 |
| 80°-90° | 56.5 | 2.6 |
| 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° | 531.0 | 24.7 |
| 0°-40° | 876.1 | 40.7 |
| 0°-60° | 1595.5 | 74.2 |
| 0°-90° | 2150.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2150.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 676 | 676 | 676 | 676 | 676 | |
| 5° | 676 | 675 | 672 | 675 | 675 | 64 |
| 15° | 653 | 653 | 652 | 657 | 656 | 184 |
| 25° | 606 | 608 | 612 | 618 | 618 | 279 |
| 35° | 538 | 542 | 550 | 561 | 563 | 337 |
| 45° | 451 | 458 | 475 | 495 | 503 | 348 |
| 55° | 349 | 362 | 394 | 424 | 439 | 311 |
| 65° | 230 | 254 | 306 | 346 | 363 | 229 |
| 75° | 109 | 148 | 207 | 242 | 250 | 116 |
| 85° | 21 | 44 | 53 | 58 | 60 | 26 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732149

CATALOG NUMBER: 24CZ2-35-RDP-B2750-W2D-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 676.1 | 676.1 | 676.1 | 676.1 | 676.1 |
| 2.5° | 677.1 | 677.1 | 673.9 | 676.1 | 676.1 |
| 5° | 676.1 | 675.1 | 671.9 | 675.1 | 675.1 |
| 7.5° | 672.9 | 671.9 | 669.7 | 672.9 | 671.9 |
| 10° | 666.5 | 666.5 | 664.4 | 667.6 | 667.6 |
| 12.5° | 661.2 | 660.2 | 659.0 | 663.3 | 662.2 |
| 15° | 652.7 | 652.7 | 651.6 | 657.0 | 655.8 |
| 17.5° | 642.0 | 643.1 | 644.1 | 648.3 | 649.5 |
| 20° | 630.2 | 632.4 | 633.4 | 639.9 | 639.9 |
| 22.5° | 619.5 | 620.7 | 622.8 | 629.2 | 629.2 |
| 25° | 605.8 | 607.8 | 612.1 | 617.5 | 618.5 |
| 27.5° | 591.9 | 592.9 | 598.3 | 605.8 | 606.8 |
| 30° | 573.8 | 577.0 | 583.3 | 591.9 | 592.9 |
| 32.5° | 557.7 | 560.9 | 568.4 | 577.0 | 579.0 |
| 35° | 537.5 | 541.7 | 550.2 | 560.9 | 563.1 |
| 37.5° | 519.4 | 522.6 | 533.3 | 545.0 | 548.2 |
| 40° | 497.0 | 503.3 | 514.0 | 527.9 | 533.3 |
| 42.5° | 474.6 | 480.9 | 493.8 | 511.9 | 518.3 |
| 45° | 451.1 | 458.5 | 474.6 | 494.8 | 503.3 |
| 47.5° | 427.7 | 436.2 | 454.3 | 477.7 | 487.4 |
| 50° | 400.9 | 411.6 | 434.0 | 460.7 | 471.4 |
| 52.5° | 375.4 | 388.2 | 412.8 | 442.6 | 456.5 |
| 55° | 348.7 | 361.5 | 393.5 | 424.5 | 439.4 |
| 57.5° | 318.9 | 335.9 | 371.1 | 406.3 | 422.3 |
| 60° | 291.1 | 307.1 | 349.8 | 388.2 | 404.2 |
| 62.5° | 261.3 | 282.6 | 328.4 | 368.9 | 385.0 |
| 65° | 230.3 | 253.8 | 306.0 | 346.5 | 362.6 |
| 67.5° | 202.7 | 228.2 | 283.7 | 324.2 | 340.2 |
| 70° | 169.6 | 201.5 | 259.1 | 299.6 | 315.7 |
| 72.5° | 138.6 | 173.9 | 233.5 | 273.0 | 287.9 |
| 75° | 108.8 | 148.3 | 206.9 | 242.1 | 249.6 |
| 77.5° | 81.0 | 122.7 | 179.1 | 194.0 | 188.8 |
| 80° | 57.6 | 98.1 | 139.6 | 132.2 | 135.4 |
| 82.5° | 37.3 | 74.7 | 86.4 | 98.1 | 101.3 |
| 85° | 21.3 | 43.7 | 53.4 | 57.6 | 59.7 |
| 87.5° | 9.6 | 15.9 | 21.3 | 21.3 | 20.3 |
| 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)