

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: P732247

Luminaire Tested: **24CZ2-45-RDP-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732247
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: 24CZ2-45-RDP-B2750-W2D-3000K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

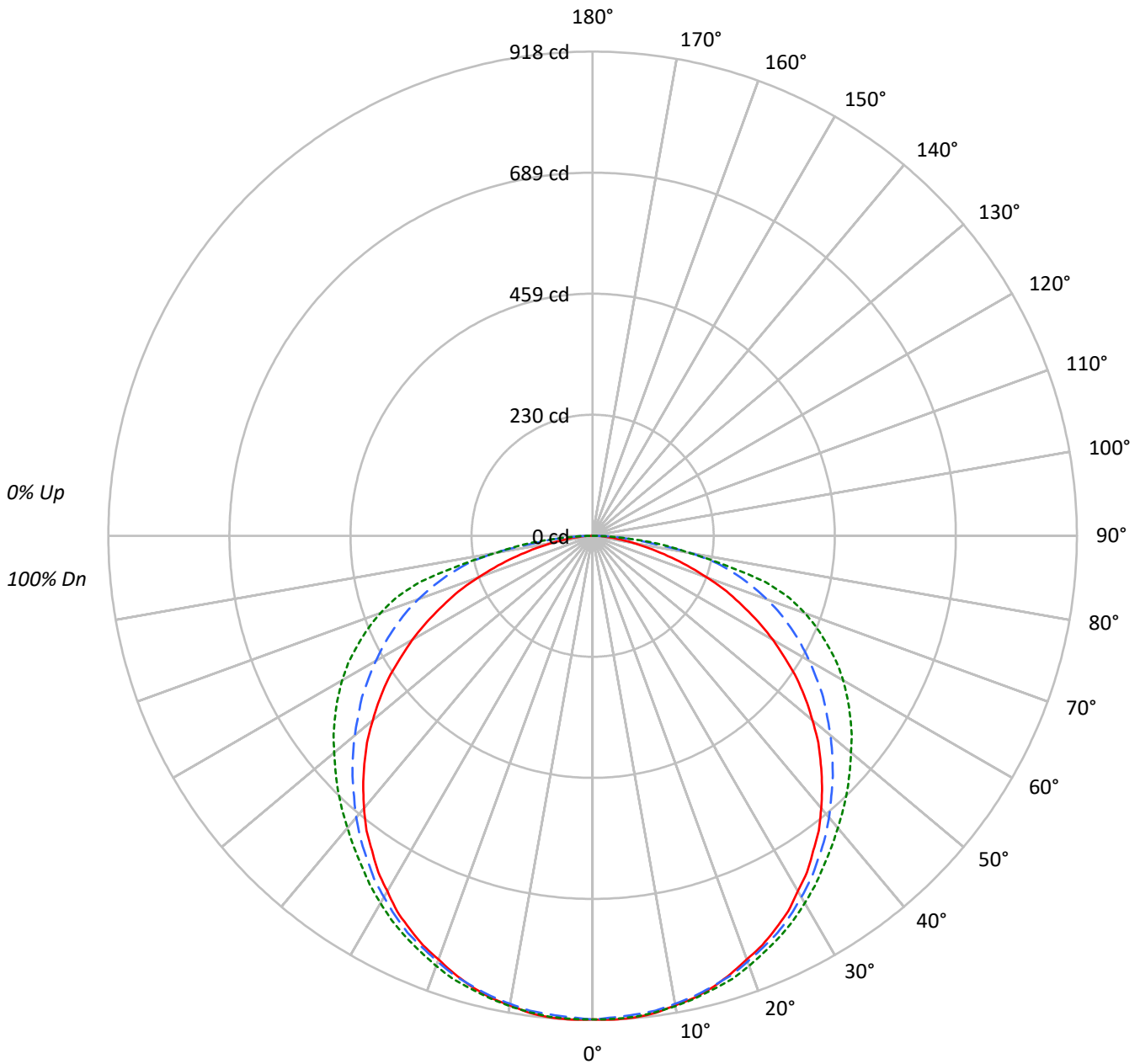
Lumens per Lamp: N/A
Luminaire Lumens: 2916.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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 | 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 | 67 | 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° | 1294 | 1294 | 1294 |
| 5° | 1299 | 1291 | 1297 |
| 10° | 1295 | 1291 | 1298 |
| 15° | 1294 | 1291 | 1300 |
| 20° | 1284 | 1290 | 1303 |
| 25° | 1279 | 1293 | 1306 |
| 30° | 1268 | 1289 | 1311 |
| 35° | 1256 | 1286 | 1316 |
| 40° | 1242 | 1284 | 1332 |
| 45° | 1221 | 1285 | 1362 |
| 50° | 1194 | 1292 | 1404 |
| 55° | 1164 | 1313 | 1466 |
| 60° | 1114 | 1339 | 1547 |
| 65° | 1043 | 1386 | 1642 |
| 70° | 949 | 1450 | 1767 |
| 75° | 804 | 1530 | 1846 |
| 80° | 635 | 1539 | 1492 |
| 85° | 470 | 1172 | 1310 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.0 | 3.0 |
| 10°-20° | 250.3 | 8.6 |
| 20°-30° | 382.8 | 13.1 |
| 30°-40° | 468.0 | 16.0 |
| 40°-50° | 498.8 | 17.1 |
| 50°-60° | 476.9 | 16.4 |
| 60°-70° | 404.0 | 13.9 |
| 70°-80° | 271.5 | 9.3 |
| 80°-90° | 76.6 | 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° | 720.2 | 24.7 |
| 0°-40° | 1188.2 | 40.7 |
| 0°-60° | 2163.9 | 74.2 |
| 0°-90° | 2916.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2916.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 917 | 917 | 917 | 917 | 917 | |
| 5° | 917 | 916 | 911 | 916 | 916 | 87 |
| 15° | 885 | 885 | 884 | 891 | 890 | 250 |
| 25° | 822 | 824 | 830 | 838 | 839 | 379 |
| 35° | 729 | 735 | 746 | 761 | 764 | 457 |
| 45° | 612 | 622 | 644 | 671 | 683 | 472 |
| 55° | 473 | 490 | 534 | 576 | 596 | 421 |
| 65° | 312 | 344 | 415 | 470 | 492 | 310 |
| 75° | 148 | 201 | 281 | 328 | 338 | 158 |
| 85° | 29 | 59 | 72 | 78 | 81 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 917.0 | 917.0 | 917.0 | 917.0 | 917.0 |
| 2.5° | 918.4 | 918.4 | 914.0 | 917.0 | 917.0 |
| 5° | 917.0 | 915.6 | 911.3 | 915.6 | 915.6 |
| 7.5° | 912.6 | 911.3 | 908.3 | 912.6 | 911.3 |
| 10° | 903.9 | 903.9 | 901.1 | 905.5 | 905.5 |
| 12.5° | 896.8 | 895.4 | 893.8 | 899.6 | 898.2 |
| 15° | 885.3 | 885.3 | 883.7 | 891.0 | 889.5 |
| 17.5° | 870.8 | 872.2 | 873.6 | 879.3 | 880.9 |
| 20° | 854.7 | 857.7 | 859.1 | 867.8 | 867.8 |
| 22.5° | 840.3 | 841.8 | 844.6 | 853.4 | 853.4 |
| 25° | 821.6 | 824.4 | 830.2 | 837.5 | 838.9 |
| 27.5° | 802.8 | 804.2 | 811.5 | 821.6 | 823.0 |
| 30° | 778.2 | 782.5 | 791.1 | 802.8 | 804.2 |
| 32.5° | 756.4 | 760.7 | 770.9 | 782.5 | 785.3 |
| 35° | 729.0 | 734.8 | 746.3 | 760.7 | 763.7 |
| 37.5° | 704.4 | 708.8 | 723.2 | 739.1 | 743.5 |
| 40° | 674.1 | 682.6 | 697.1 | 715.9 | 723.2 |
| 42.5° | 643.7 | 652.3 | 669.7 | 694.3 | 703.0 |
| 45° | 611.8 | 621.9 | 643.7 | 671.1 | 682.6 |
| 47.5° | 580.1 | 591.6 | 616.2 | 647.9 | 661.0 |
| 50° | 543.8 | 558.3 | 588.6 | 624.9 | 639.4 |
| 52.5° | 509.1 | 526.5 | 559.8 | 600.3 | 619.1 |
| 55° | 473.0 | 490.2 | 533.7 | 575.7 | 595.9 |
| 57.5° | 432.5 | 455.5 | 503.3 | 551.1 | 572.7 |
| 60° | 394.8 | 416.5 | 474.4 | 526.5 | 548.1 |
| 62.5° | 354.4 | 383.3 | 445.4 | 500.4 | 522.2 |
| 65° | 312.4 | 344.3 | 415.1 | 470.0 | 491.8 |
| 67.5° | 274.9 | 309.6 | 384.7 | 439.7 | 461.5 |
| 70° | 230.0 | 273.3 | 351.4 | 406.4 | 428.2 |
| 72.5° | 188.0 | 235.8 | 316.7 | 370.3 | 390.5 |
| 75° | 147.5 | 201.1 | 280.6 | 328.4 | 338.5 |
| 77.5° | 109.9 | 166.4 | 242.9 | 263.2 | 256.0 |
| 80° | 78.1 | 133.1 | 189.4 | 179.3 | 183.6 |
| 82.5° | 50.6 | 101.3 | 117.2 | 133.1 | 137.4 |
| 85° | 29.0 | 59.3 | 72.4 | 78.1 | 80.9 |
| 87.5° | 13.1 | 21.6 | 29.0 | 29.0 | 27.6 |
| 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)