

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: P732185

Luminaire Tested: **24CZ2-35HE-SQR-B2750-W2D-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-SQR-B2750-W2D-5000K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

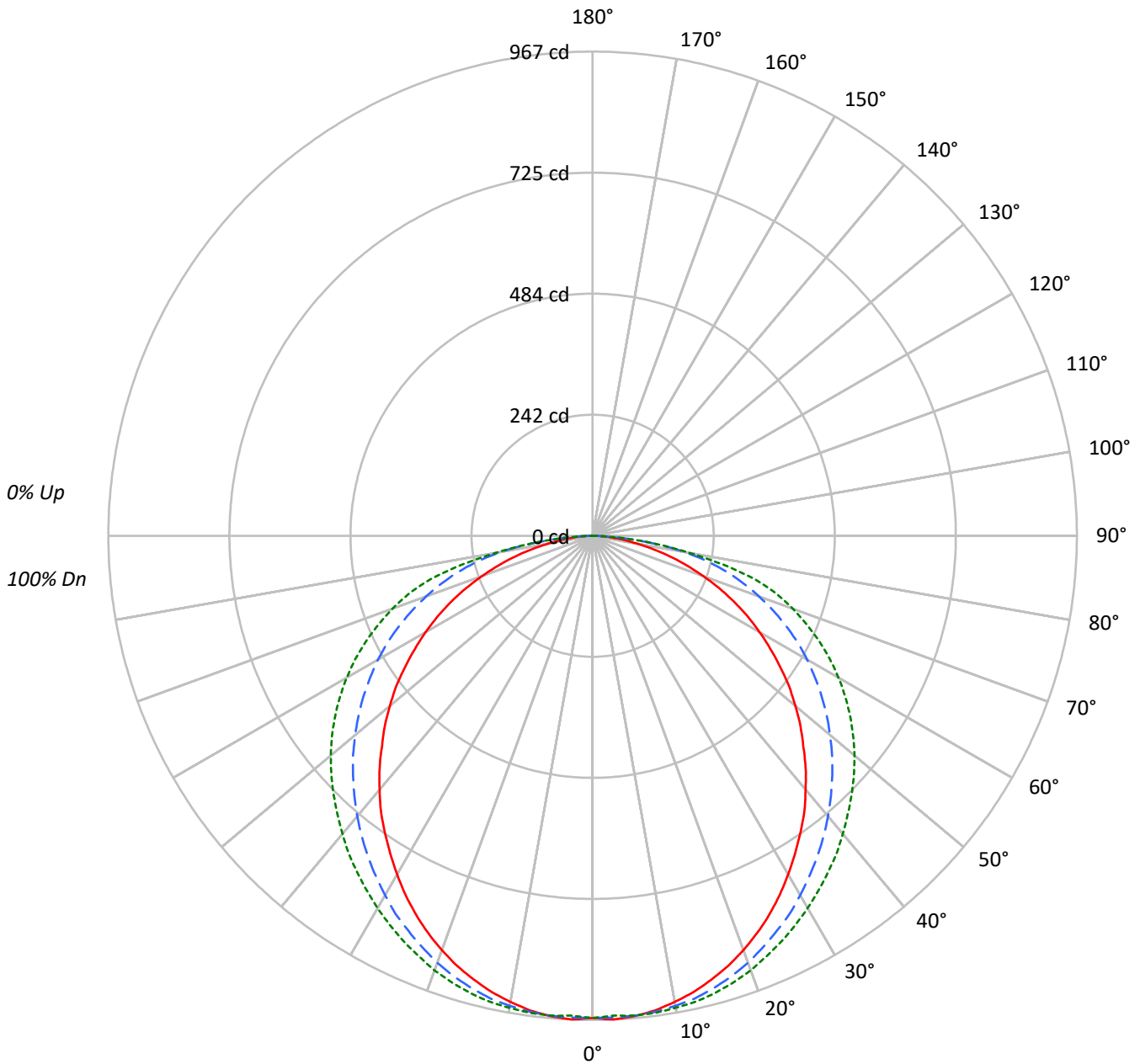
Lumens per Lamp: N/A
Luminaire Lumens: 3013.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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: 24CZ2-35HE-SQR-B2750-W2D-5000K

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 | 89 | 86 | 84 | 82 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 89 | 81 | 75 | 95 | 87 | 80 | 74 | 83 | 78 | 73 | 80 | 75 | 71 | 77 | 73 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 77 | 69 | 62 | 86 | 76 | 68 | 61 | 73 | 66 | 60 | 70 | 64 | 59 | 67 | 62 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 4 | 81 | 68 | 59 | 52 | 78 | 67 | 58 | 52 | 64 | 57 | 51 | 62 | 55 | 50 | 60 | 54 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 5 | 74 | 61 | 51 | 44 | 72 | 60 | 51 | 44 | 57 | 50 | 44 | 55 | 49 | 43 | 54 | 48 | 43 | 41 | | | | | | | | | | | | | | | | | | | |
| 6 | 68 | 55 | 45 | 39 | 66 | 54 | 45 | 38 | 52 | 44 | 38 | 50 | 43 | 38 | 48 | 42 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 7 | 63 | 49 | 40 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | 45 | 39 | 33 | 44 | 38 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 42 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 38 | 30 | 25 | 50 | 37 | 30 | 24 | 36 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 22 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1359 | 1359 | 1359 |
| 5° | 1364 | 1363 | 1363 |
| 10° | 1355 | 1366 | 1372 |
| 15° | 1340 | 1366 | 1381 |
| 20° | 1323 | 1363 | 1387 |
| 25° | 1300 | 1356 | 1391 |
| 30° | 1273 | 1351 | 1399 |
| 35° | 1246 | 1347 | 1412 |
| 40° | 1219 | 1347 | 1432 |
| 45° | 1187 | 1350 | 1460 |
| 50° | 1160 | 1359 | 1499 |
| 55° | 1126 | 1374 | 1545 |
| 60° | 1087 | 1396 | 1601 |
| 65° | 1040 | 1422 | 1668 |
| 70° | 965 | 1458 | 1753 |
| 75° | 874 | 1508 | 1834 |
| 80° | 736 | 1513 | 1577 |
| 85° | 564 | 1143 | 1143 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.4 | 3.0 |
| 10°-20° | 263.0 | 8.7 |
| 20°-30° | 399.5 | 13.3 |
| 30°-40° | 486.0 | 16.1 |
| 40°-50° | 517.4 | 17.2 |
| 50°-60° | 492.8 | 16.4 |
| 60°-70° | 412.1 | 13.7 |
| 70°-80° | 274.8 | 9.1 |
| 80°-90° | 76.0 | 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° | 754.0 | 25.0 |
| 0°-40° | 1239.9 | 41.2 |
| 0°-60° | 2250.1 | 74.7 |
| 0°-90° | 3013.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3013.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 963 | 963 | 963 | 963 | 963 | |
| 5° | 963 | 957 | 962 | 962 | 962 | 91 |
| 15° | 917 | 919 | 935 | 942 | 945 | 259 |
| 25° | 835 | 846 | 871 | 886 | 894 | 384 |
| 35° | 723 | 744 | 782 | 808 | 820 | 453 |
| 45° | 595 | 627 | 676 | 714 | 731 | 460 |
| 55° | 458 | 497 | 558 | 607 | 628 | 409 |
| 65° | 311 | 357 | 426 | 479 | 500 | 308 |
| 75° | 160 | 211 | 277 | 323 | 336 | 170 |
| 85° | 35 | 65 | 71 | 70 | 71 | 42 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732185

CATALOG NUMBER: 24CZ2-35HE-SQR-B2750-W2D-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 963.0 | 963.0 | 963.0 | 963.0 | 963.0 |
| 2.5° | 967.1 | 960.1 | 963.0 | 963.0 | 959.2 |
| 5° | 963.0 | 957.1 | 962.1 | 962.1 | 962.1 |
| 7.5° | 956.2 | 951.2 | 959.2 | 961.1 | 961.1 |
| 10° | 945.2 | 943.3 | 953.2 | 956.2 | 957.1 |
| 12.5° | 933.3 | 932.3 | 946.2 | 950.1 | 953.2 |
| 15° | 917.3 | 919.3 | 935.2 | 942.2 | 945.2 |
| 17.5° | 900.5 | 904.3 | 922.3 | 932.3 | 935.2 |
| 20° | 880.6 | 886.5 | 907.4 | 917.3 | 923.4 |
| 22.5° | 858.7 | 867.6 | 889.5 | 901.4 | 908.4 |
| 25° | 834.8 | 845.6 | 870.6 | 885.5 | 893.5 |
| 27.5° | 808.9 | 822.9 | 851.7 | 868.5 | 876.5 |
| 30° | 781.0 | 796.9 | 828.8 | 848.7 | 858.7 |
| 32.5° | 752.2 | 771.0 | 805.9 | 827.8 | 839.7 |
| 35° | 723.3 | 744.3 | 782.0 | 807.9 | 819.8 |
| 37.5° | 694.5 | 715.3 | 757.2 | 785.0 | 800.0 |
| 40° | 661.6 | 686.5 | 731.3 | 762.1 | 777.1 |
| 42.5° | 629.8 | 656.6 | 704.4 | 738.2 | 754.2 |
| 45° | 594.9 | 626.9 | 676.5 | 714.4 | 731.3 |
| 47.5° | 563.1 | 594.9 | 648.7 | 688.5 | 707.4 |
| 50° | 528.3 | 562.1 | 618.8 | 662.7 | 682.6 |
| 52.5° | 494.5 | 529.4 | 589.0 | 635.8 | 655.7 |
| 55° | 457.7 | 497.4 | 558.2 | 606.9 | 627.8 |
| 57.5° | 420.9 | 463.7 | 526.3 | 577.1 | 598.0 |
| 60° | 385.1 | 428.8 | 494.5 | 545.3 | 567.1 |
| 62.5° | 349.2 | 393.0 | 461.6 | 513.3 | 534.3 |
| 65° | 311.4 | 357.1 | 425.8 | 478.6 | 499.5 |
| 67.5° | 273.6 | 321.3 | 390.0 | 442.7 | 462.6 |
| 70° | 233.8 | 284.6 | 353.3 | 405.0 | 424.9 |
| 72.5° | 197.1 | 247.7 | 315.4 | 366.2 | 385.1 |
| 75° | 160.2 | 210.9 | 276.6 | 323.4 | 336.3 |
| 77.5° | 124.4 | 175.1 | 233.8 | 264.7 | 267.7 |
| 80° | 90.5 | 138.4 | 186.1 | 195.0 | 194.0 |
| 82.5° | 60.6 | 103.4 | 128.4 | 129.3 | 132.3 |
| 85° | 34.8 | 64.7 | 70.6 | 69.7 | 70.6 |
| 87.5° | 14.0 | 22.9 | 19.9 | 14.9 | 14.9 |
| 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)