

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: P732086

Luminaire Tested: **24CZ2-30-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-B2750-W2D-2700K
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

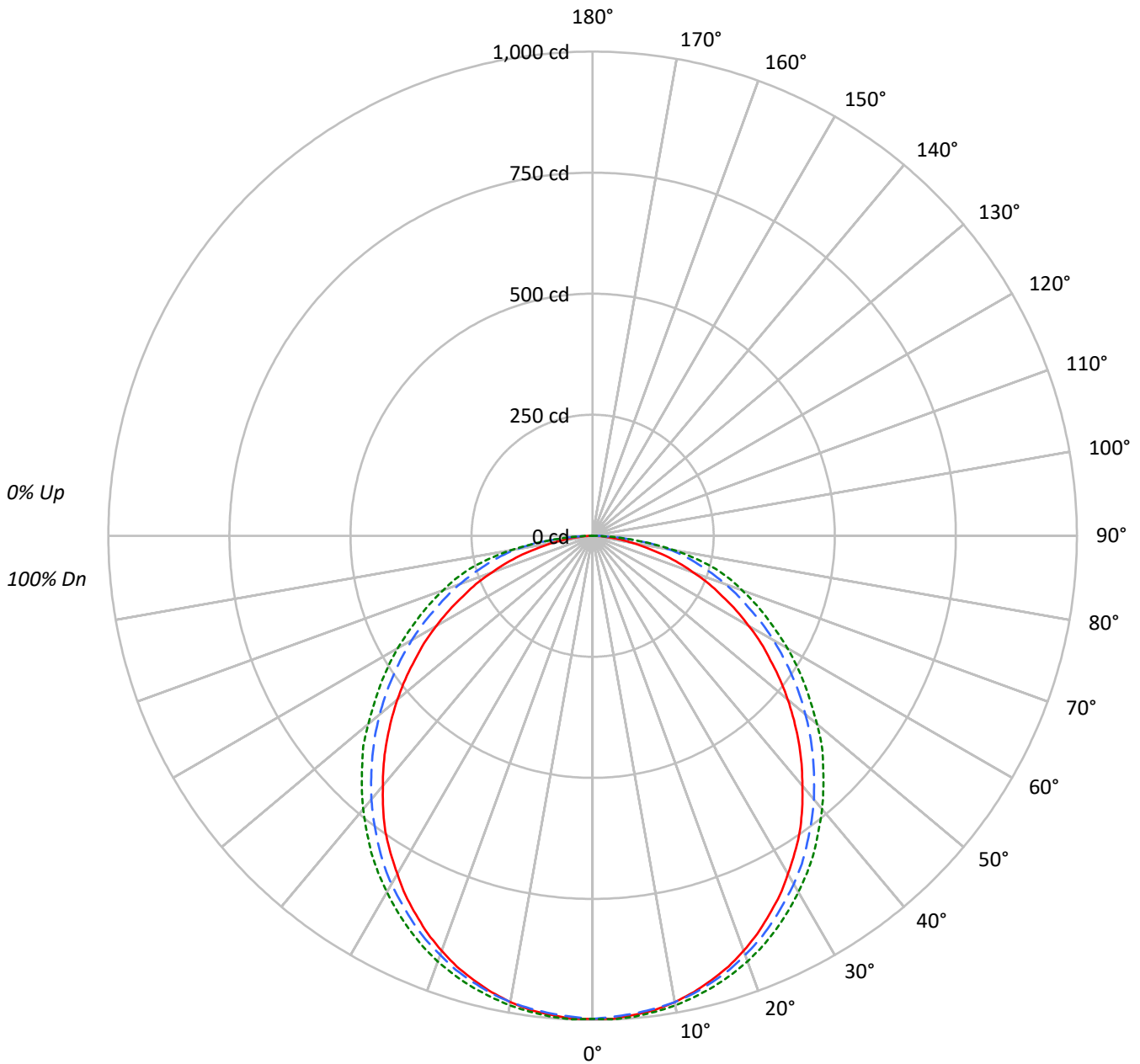
Lumens per Lamp: N/A
Luminaire Lumens: 2840.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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 | 99 | 95 | 106 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | | | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | |
| 3 | 89 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 | | | | | | | | |
| 6 | 70 | 56 | 47 | 40 | 68 | 55 | 47 | 40 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 | | | | | | | | |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 33 | | | | | | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | | | | | | | | |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 26 | | | | | | | | |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1408 | 1408 | 1408 |
| 5° | 1407 | 1403 | 1412 |
| 10° | 1401 | 1401 | 1412 |
| 15° | 1388 | 1394 | 1409 |
| 20° | 1370 | 1383 | 1405 |
| 25° | 1344 | 1370 | 1396 |
| 30° | 1314 | 1354 | 1385 |
| 35° | 1285 | 1332 | 1374 |
| 40° | 1242 | 1310 | 1358 |
| 45° | 1201 | 1284 | 1343 |
| 50° | 1155 | 1260 | 1327 |
| 55° | 1103 | 1236 | 1314 |
| 60° | 1052 | 1217 | 1311 |
| 65° | 985 | 1196 | 1319 |
| 70° | 912 | 1202 | 1355 |
| 75° | 817 | 1225 | 1431 |
| 80° | 660 | 1298 | 1400 |
| 85° | 497 | 1138 | 1111 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.5 | 3.3 |
| 10°-20° | 269.9 | 9.5 |
| 20°-30° | 405.7 | 14.3 |
| 30°-40° | 483.3 | 17.0 |
| 40°-50° | 494.6 | 17.4 |
| 50°-60° | 445.3 | 15.7 |
| 60°-70° | 349.7 | 12.3 |
| 70°-80° | 227.0 | 8.0 |
| 80°-90° | 70.2 | 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° | 770.0 | 27.1 |
| 0°-40° | 1253.3 | 44.1 |
| 0°-60° | 2193.2 | 77.2 |
| 0°-90° | 2840.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2840.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 998 | 998 | 998 | 998 | 998 | |
| 5° | 993 | 995 | 990 | 996 | 997 | 94 |
| 15° | 950 | 953 | 954 | 962 | 964 | 268 |
| 25° | 863 | 870 | 880 | 894 | 897 | 398 |
| 35° | 746 | 755 | 773 | 792 | 797 | 465 |
| 45° | 602 | 616 | 643 | 668 | 673 | 464 |
| 55° | 448 | 468 | 502 | 529 | 534 | 402 |
| 65° | 295 | 318 | 358 | 388 | 395 | 294 |
| 75° | 150 | 179 | 225 | 255 | 262 | 158 |
| 85° | 31 | 57 | 70 | 69 | 69 | 37 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 997.8 | 997.8 | 997.8 | 997.8 | 997.8 |
| 2.5° | 998.6 | 998.6 | 994.1 | 998.6 | 999.5 |
| 5° | 993.2 | 995.0 | 990.5 | 995.9 | 996.8 |
| 7.5° | 987.8 | 987.8 | 985.0 | 990.5 | 991.5 |
| 10° | 977.9 | 978.7 | 977.9 | 984.2 | 985.0 |
| 12.5° | 965.3 | 967.0 | 968.0 | 974.3 | 975.1 |
| 15° | 949.9 | 952.7 | 954.4 | 962.5 | 964.4 |
| 17.5° | 932.8 | 935.5 | 939.9 | 949.0 | 950.8 |
| 20° | 912.0 | 915.6 | 921.0 | 932.8 | 935.5 |
| 22.5° | 889.5 | 893.1 | 902.1 | 912.9 | 917.4 |
| 25° | 863.3 | 870.5 | 879.5 | 894.0 | 896.7 |
| 27.5° | 837.1 | 843.4 | 855.2 | 870.5 | 874.2 |
| 30° | 806.5 | 816.4 | 830.8 | 846.1 | 849.7 |
| 32.5° | 776.7 | 786.6 | 803.7 | 820.1 | 824.5 |
| 35° | 746.0 | 755.1 | 773.1 | 792.0 | 797.4 |
| 37.5° | 710.8 | 722.6 | 742.4 | 761.4 | 766.8 |
| 40° | 673.9 | 688.3 | 710.8 | 730.7 | 737.0 |
| 42.5° | 638.7 | 654.0 | 676.6 | 698.2 | 705.4 |
| 45° | 601.7 | 616.2 | 643.2 | 667.6 | 673.0 |
| 47.5° | 563.8 | 580.1 | 608.9 | 633.2 | 642.2 |
| 50° | 525.9 | 543.1 | 573.8 | 599.0 | 604.4 |
| 52.5° | 488.0 | 506.1 | 538.5 | 565.6 | 568.3 |
| 55° | 448.3 | 468.2 | 502.5 | 528.7 | 534.1 |
| 57.5° | 412.3 | 429.4 | 466.4 | 493.4 | 499.7 |
| 60° | 372.6 | 391.5 | 431.2 | 456.5 | 464.5 |
| 62.5° | 334.7 | 354.5 | 396.1 | 421.3 | 428.4 |
| 65° | 295.0 | 317.6 | 358.1 | 387.9 | 395.1 |
| 67.5° | 260.7 | 282.4 | 325.6 | 354.5 | 361.7 |
| 70° | 221.0 | 245.4 | 291.4 | 321.2 | 328.3 |
| 72.5° | 186.7 | 211.9 | 258.0 | 286.8 | 297.7 |
| 75° | 149.8 | 178.6 | 224.7 | 255.3 | 262.5 |
| 77.5° | 113.7 | 147.1 | 193.9 | 217.4 | 217.4 |
| 80° | 81.2 | 116.4 | 159.7 | 170.5 | 172.3 |
| 82.5° | 53.3 | 87.5 | 118.1 | 117.3 | 117.3 |
| 85° | 30.7 | 56.8 | 70.3 | 68.6 | 68.6 |
| 87.5° | 11.7 | 23.5 | 25.2 | 25.2 | 24.3 |
| 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)