

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: P732313

Luminaire Tested: **24CZ2-50HE-B2750-W2D-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732313
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: 24CZ2-50HE-B2750-W2D-3500K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

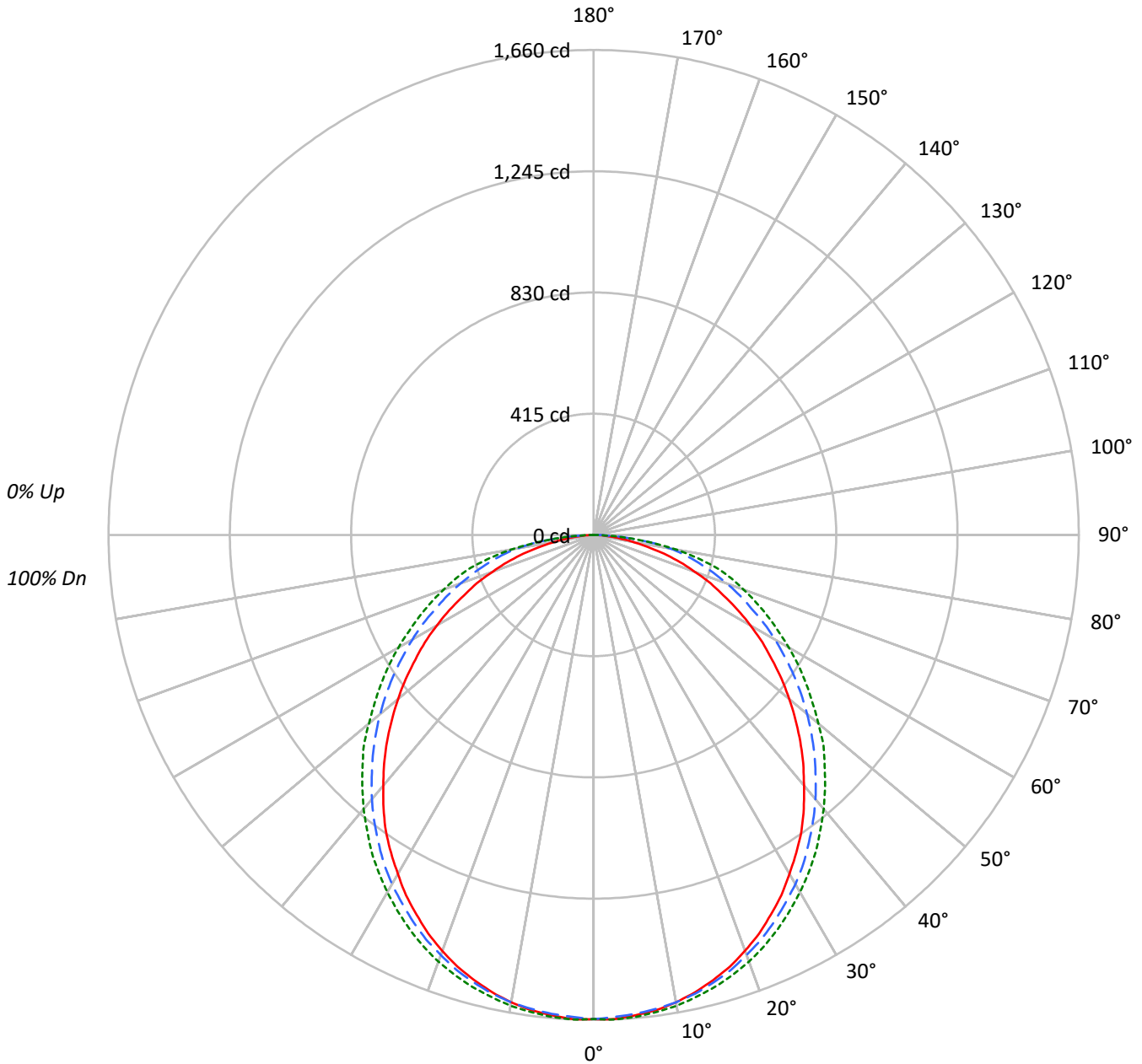
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4718.0 lumens
Efficiency: N/A
Efficacy: 127.5 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): 37
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





TEST NUMBER: P732313

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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 | 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° | 2339 | 2339 | 2339 |
| 5° | 2338 | 2331 | 2346 |
| 10° | 2328 | 2328 | 2345 |
| 15° | 2306 | 2317 | 2341 |
| 20° | 2276 | 2298 | 2334 |
| 25° | 2233 | 2275 | 2320 |
| 30° | 2183 | 2249 | 2300 |
| 35° | 2135 | 2213 | 2283 |
| 40° | 2063 | 2176 | 2256 |
| 45° | 1995 | 2133 | 2231 |
| 50° | 1918 | 2093 | 2205 |
| 55° | 1833 | 2054 | 2183 |
| 60° | 1747 | 2022 | 2178 |
| 65° | 1636 | 1987 | 2192 |
| 70° | 1515 | 1998 | 2251 |
| 75° | 1357 | 2035 | 2378 |
| 80° | 1096 | 2155 | 2326 |
| 85° | 824 | 1891 | 1844 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 156.9 | 3.3 |
| 10°-20° | 448.4 | 9.5 |
| 20°-30° | 674.0 | 14.3 |
| 30°-40° | 802.8 | 17.0 |
| 40°-50° | 821.6 | 17.4 |
| 50°-60° | 739.7 | 15.7 |
| 60°-70° | 580.9 | 12.3 |
| 70°-80° | 377.0 | 8.0 |
| 80°-90° | 116.6 | 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° | 1279.2 | 27.1 |
| 0°-40° | 2082.1 | 44.1 |
| 0°-60° | 3643.4 | 77.2 |
| 0°-90° | 4718.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4718.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1658 | 1658 | 1658 | 1658 | 1658 | |
| 5° | 1650 | 1653 | 1645 | 1654 | 1656 | 157 |
| 15° | 1578 | 1583 | 1586 | 1599 | 1602 | 445 |
| 25° | 1434 | 1446 | 1461 | 1485 | 1490 | 661 |
| 35° | 1239 | 1254 | 1284 | 1316 | 1325 | 773 |
| 45° | 1000 | 1024 | 1069 | 1109 | 1118 | 771 |
| 55° | 745 | 778 | 835 | 878 | 887 | 668 |
| 65° | 490 | 528 | 595 | 644 | 656 | 488 |
| 75° | 249 | 297 | 373 | 424 | 436 | 263 |
| 85° | 51 | 94 | 117 | 114 | 114 | 62 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732313

CATALOG NUMBER: 24CZ2-50HE-B2750-W2D-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1657.5 | 1657.5 | 1657.5 | 1657.5 | 1657.5 |
| 2.5° | 1659.0 | 1659.0 | 1651.4 | 1659.0 | 1660.4 |
| 5° | 1650.0 | 1653.0 | 1645.4 | 1654.5 | 1655.9 |
| 7.5° | 1640.9 | 1640.9 | 1636.4 | 1645.4 | 1647.1 |
| 10° | 1624.5 | 1625.9 | 1624.5 | 1635.0 | 1636.4 |
| 12.5° | 1603.6 | 1606.4 | 1608.1 | 1618.5 | 1620.0 |
| 15° | 1578.1 | 1582.6 | 1585.5 | 1599.0 | 1602.1 |
| 17.5° | 1549.6 | 1554.1 | 1561.5 | 1576.5 | 1579.5 |
| 20° | 1515.1 | 1521.0 | 1530.1 | 1549.6 | 1554.1 |
| 22.5° | 1477.7 | 1483.7 | 1498.6 | 1516.5 | 1524.1 |
| 25° | 1434.2 | 1446.1 | 1461.1 | 1485.1 | 1489.6 |
| 27.5° | 1390.7 | 1401.1 | 1420.6 | 1446.1 | 1452.2 |
| 30° | 1339.8 | 1356.2 | 1380.2 | 1405.7 | 1411.6 |
| 32.5° | 1290.3 | 1306.7 | 1335.2 | 1362.3 | 1369.7 |
| 35° | 1239.4 | 1254.4 | 1284.3 | 1315.7 | 1324.8 |
| 37.5° | 1180.9 | 1200.4 | 1233.4 | 1264.8 | 1273.9 |
| 40° | 1119.5 | 1143.5 | 1180.9 | 1213.9 | 1224.4 |
| 42.5° | 1061.0 | 1086.4 | 1124.0 | 1159.9 | 1171.8 |
| 45° | 999.6 | 1023.6 | 1068.6 | 1109.0 | 1118.0 |
| 47.5° | 936.6 | 963.6 | 1011.5 | 1051.9 | 1066.9 |
| 50° | 873.7 | 902.3 | 953.2 | 995.1 | 1004.1 |
| 52.5° | 810.7 | 840.7 | 894.7 | 939.6 | 944.1 |
| 55° | 744.8 | 777.9 | 834.7 | 878.2 | 887.3 |
| 57.5° | 684.9 | 713.4 | 774.8 | 819.7 | 830.2 |
| 60° | 619.0 | 650.4 | 716.3 | 758.4 | 771.7 |
| 62.5° | 555.9 | 589.0 | 658.0 | 699.9 | 711.8 |
| 65° | 490.0 | 527.6 | 594.9 | 644.4 | 656.3 |
| 67.5° | 433.2 | 469.1 | 541.0 | 589.0 | 600.9 |
| 70° | 367.1 | 407.7 | 484.1 | 533.6 | 545.5 |
| 72.5° | 310.2 | 352.1 | 428.6 | 476.5 | 494.6 |
| 75° | 248.8 | 296.7 | 373.2 | 424.1 | 436.1 |
| 77.5° | 188.9 | 244.3 | 322.1 | 361.1 | 361.1 |
| 80° | 134.9 | 193.4 | 265.2 | 283.3 | 286.2 |
| 82.5° | 88.5 | 145.4 | 196.3 | 194.8 | 194.8 |
| 85° | 50.9 | 94.4 | 116.8 | 113.9 | 113.9 |
| 87.5° | 19.5 | 39.0 | 41.9 | 41.9 | 40.4 |
| 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)