

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: P732336

Luminaire Tested: **24CZ2-55HE-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732336
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: 24CZ2-55HE-B2750-W2D-2700K
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

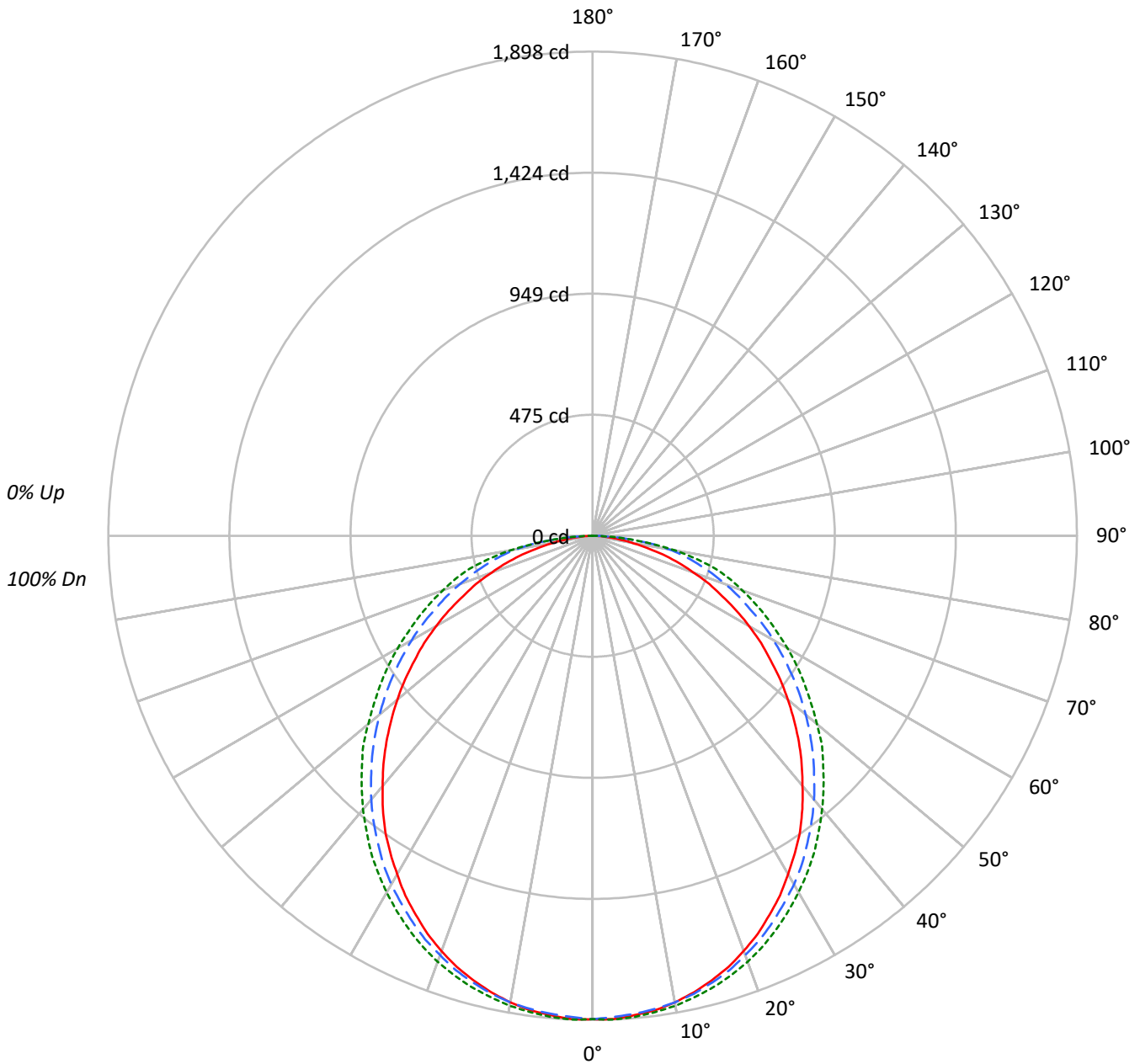
Lumens per Lamp: N/A
Luminaire Lumens: 5394.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 42
Input Voltage (V): NR
Input Current (Ain): 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

TEST NUMBER: P732336

CATALOG NUMBER: 24CZ2-55HE-B2750-W2D-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P732336

CATALOG NUMBER: 24CZ2-55HE-B2750-W2D-2700K

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° | 2674 | 2674 | 2674 |
| 5° | 2673 | 2665 | 2682 |
| 10° | 2662 | 2662 | 2681 |
| 15° | 2636 | 2649 | 2676 |
| 20° | 2602 | 2627 | 2669 |
| 25° | 2553 | 2601 | 2652 |
| 30° | 2496 | 2572 | 2630 |
| 35° | 2441 | 2530 | 2610 |
| 40° | 2358 | 2487 | 2579 |
| 45° | 2281 | 2438 | 2551 |
| 50° | 2193 | 2393 | 2521 |
| 55° | 2095 | 2348 | 2496 |
| 60° | 1997 | 2311 | 2490 |
| 65° | 1871 | 2272 | 2506 |
| 70° | 1732 | 2284 | 2573 |
| 75° | 1551 | 2327 | 2718 |
| 80° | 1253 | 2464 | 2659 |
| 85° | 942 | 2163 | 2110 |



TEST NUMBER: P732336

CATALOG NUMBER: 24CZ2-55HE-B2750-W2D-2700K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 179.4 | 3.3 |
| 10°-20° | 512.6 | 9.5 |
| 20°-30° | 770.5 | 14.3 |
| 30°-40° | 917.8 | 17.0 |
| 40°-50° | 939.4 | 17.4 |
| 50°-60° | 845.7 | 15.7 |
| 60°-70° | 664.2 | 12.3 |
| 70°-80° | 431.0 | 8.0 |
| 80°-90° | 133.3 | 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° | 1462.5 | 27.1 |
| 0°-40° | 2380.4 | 44.1 |
| 0°-60° | 4165.5 | 77.2 |
| 0°-90° | 5394.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5394.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1895 | 1895 | 1895 | 1895 | 1895 | |
| 5° | 1886 | 1890 | 1881 | 1892 | 1893 | 179 |
| 15° | 1804 | 1809 | 1813 | 1828 | 1832 | 509 |
| 25° | 1640 | 1653 | 1670 | 1698 | 1703 | 755 |
| 35° | 1417 | 1434 | 1468 | 1504 | 1515 | 884 |
| 45° | 1143 | 1170 | 1222 | 1268 | 1278 | 881 |
| 55° | 852 | 889 | 954 | 1004 | 1014 | 763 |
| 65° | 560 | 603 | 680 | 737 | 750 | 558 |
| 75° | 284 | 339 | 427 | 485 | 498 | 301 |
| 85° | 58 | 108 | 134 | 130 | 130 | 70 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732336

CATALOG NUMBER: 24CZ2-55HE-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------------|---------------|---------------|---------------|---------------|
| 0° | 1895.0 | 1895.0 | 1895.0 | 1895.0 | <i>1895.0</i> |
| 2.5° | <i>1896.7</i> | <i>1896.7</i> | <i>1888.0</i> | <i>1896.7</i> | <i>1898.3</i> |
| 5° | 1886.4 | 1889.9 | 1881.2 | 1891.5 | <i>1893.2</i> |
| 7.5° | 1876.0 | 1876.0 | 1870.9 | 1881.2 | <i>1883.1</i> |
| 10° | 1857.3 | 1858.9 | 1857.3 | 1869.2 | <i>1870.9</i> |
| 12.5° | 1833.3 | 1836.6 | 1838.5 | 1850.4 | <i>1852.1</i> |
| 15° | 1804.2 | 1809.4 | 1812.7 | 1828.2 | <i>1831.7</i> |
| 17.5° | 1771.6 | 1776.8 | 1785.2 | 1802.3 | <i>1805.9</i> |
| 20° | 1732.2 | 1739.0 | 1749.3 | 1771.6 | <i>1776.8</i> |
| 22.5° | 1689.4 | 1696.2 | 1713.4 | 1733.8 | <i>1742.5</i> |
| 25° | 1639.7 | 1653.3 | 1670.4 | 1697.9 | <i>1703.1</i> |
| 27.5° | 1589.9 | 1601.9 | 1624.2 | 1653.3 | <i>1660.3</i> |
| 30° | 1531.7 | 1550.5 | 1578.0 | 1607.1 | <i>1613.9</i> |
| 32.5° | 1475.2 | 1493.9 | 1526.6 | 1557.5 | <i>1566.0</i> |
| 35° | 1416.9 | 1434.1 | 1468.3 | 1504.3 | <i>1514.6</i> |
| 37.5° | 1350.1 | 1372.4 | 1410.1 | 1446.0 | <i>1456.4</i> |
| 40° | 1279.9 | 1307.3 | 1350.1 | 1387.8 | <i>1399.8</i> |
| 42.5° | 1213.0 | 1242.1 | 1285.0 | 1326.1 | <i>1339.7</i> |
| 45° | 1142.8 | 1170.3 | 1221.7 | 1267.9 | <i>1278.2</i> |
| 47.5° | 1070.8 | 1101.7 | 1156.4 | 1202.7 | <i>1219.8</i> |
| 50° | 998.9 | 1031.5 | 1089.7 | 1137.6 | <i>1148.0</i> |
| 52.5° | 926.9 | 961.1 | 1022.9 | 1074.3 | <i>1079.4</i> |
| 55° | 851.5 | 889.3 | 954.3 | 1004.1 | <i>1014.4</i> |
| 57.5° | 783.0 | 815.6 | 885.8 | 937.2 | <i>949.2</i> |
| 60° | 707.6 | 743.6 | 818.9 | 867.0 | <i>882.3</i> |
| 62.5° | 635.6 | 673.4 | 752.2 | 800.1 | <i>813.8</i> |
| 65° | 560.3 | 603.2 | 680.2 | 736.8 | <i>750.4</i> |
| 67.5° | 495.2 | 536.3 | 618.5 | 673.4 | <i>687.0</i> |
| 70° | 419.7 | 466.1 | 553.4 | 610.0 | <i>623.6</i> |
| 72.5° | 354.6 | 402.5 | 490.1 | 544.8 | <i>565.4</i> |
| 75° | 284.5 | 339.2 | 426.7 | 484.9 | <i>498.5</i> |
| 77.5° | 215.9 | 279.3 | 368.3 | 412.9 | <i>412.9</i> |
| 80° | 154.2 | 221.1 | 303.2 | 323.9 | <i>327.2</i> |
| 82.5° | 101.2 | 166.2 | 224.4 | 222.7 | <i>222.7</i> |
| 85° | 58.2 | 108.0 | 133.6 | 130.3 | <i>130.3</i> |
| 87.5° | 22.3 | 44.6 | 47.9 | 47.9 | <i>46.2</i> |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | <i>0.0</i> |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)