

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: P732373

Luminaire Tested: **24CZ2-60HE-RDP-B2750-W2D-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732373
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: 24CZ2-60HE-RDP-B2750-W2D-3500K
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

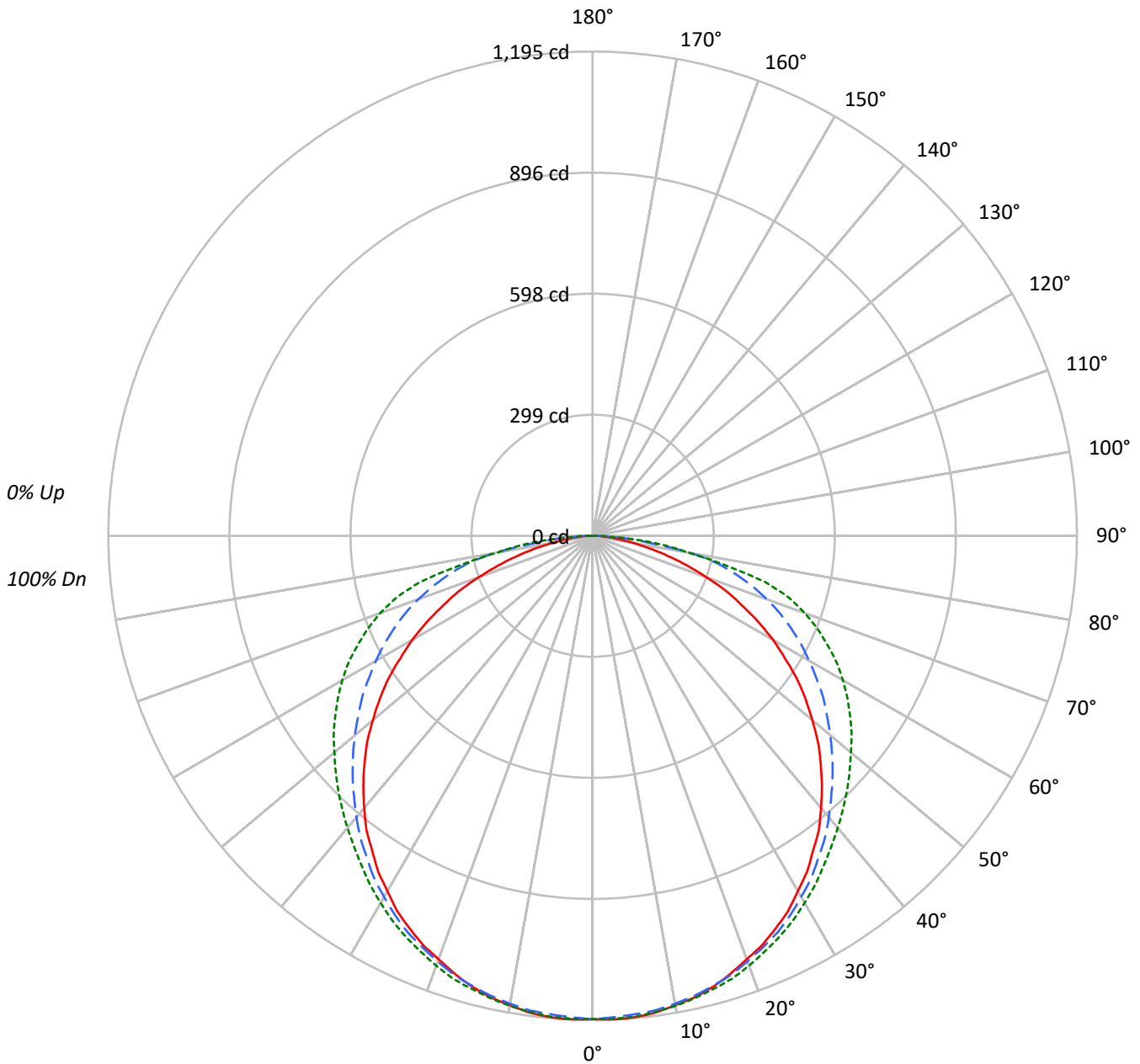
Lumens per Lamp: N/A
Luminaire Lumens: 3794.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 45
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 | | | | 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 | | | | 100 |
| 1 | 108 | 103 | 98 | 94 | 105 | 100 | 96 | 92 | 96 | 93 | 89 | 92 | 89 | 87 | 88 | 86 | 84 | 82 | | | | 82 |
| 2 | 97 | 89 | 81 | 75 | 95 | 87 | 80 | 74 | 83 | 77 | 72 | 80 | 75 | 71 | 77 | 73 | 69 | 67 | | | | 67 |
| 3 | 88 | 77 | 68 | 62 | 86 | 76 | 67 | 61 | 72 | 66 | 60 | 70 | 64 | 59 | 67 | 62 | 58 | 56 | | | | 56 |
| 4 | 81 | 68 | 59 | 52 | 78 | 67 | 58 | 51 | 64 | 57 | 51 | 62 | 55 | 50 | 59 | 54 | 49 | 47 | | | | 47 |
| 5 | 74 | 60 | 51 | 44 | 72 | 59 | 51 | 44 | 57 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 40 | | | | 40 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 45 | 38 | 51 | 44 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 35 | | | | 35 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 31 | | | | 31 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 26 | 37 | 31 | 26 | 24 | | | | 24 |
| 10 | 51 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 34 | 28 | 24 | 22 | | | | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1684 | 1684 | 1684 |
| 5° | 1690 | 1680 | 1688 |
| 10° | 1685 | 1680 | 1688 |
| 15° | 1683 | 1680 | 1691 |
| 20° | 1670 | 1679 | 1696 |
| 25° | 1665 | 1682 | 1700 |
| 30° | 1650 | 1677 | 1705 |
| 35° | 1634 | 1673 | 1712 |
| 40° | 1616 | 1671 | 1734 |
| 45° | 1589 | 1672 | 1773 |
| 50° | 1553 | 1681 | 1827 |
| 55° | 1514 | 1709 | 1908 |
| 60° | 1450 | 1742 | 2013 |
| 65° | 1357 | 1804 | 2137 |
| 70° | 1235 | 1887 | 2299 |
| 75° | 1047 | 1991 | 2402 |
| 80° | 827 | 2003 | 1942 |
| 85° | 610 | 1525 | 1705 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 113.2 | 3.0 |
| 10°-20° | 325.7 | 8.6 |
| 20°-30° | 498.1 | 13.1 |
| 30°-40° | 608.9 | 16.0 |
| 40°-50° | 649.0 | 17.1 |
| 50°-60° | 620.5 | 16.4 |
| 60°-70° | 525.6 | 13.9 |
| 70°-80° | 353.3 | 9.3 |
| 80°-90° | 99.7 | 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° | 937.0 | 24.7 |
| 0°-40° | 1545.9 | 40.7 |
| 0°-60° | 2815.4 | 74.2 |
| 0°-90° | 3794.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3794.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1193 | 1193 | 1193 | 1193 | 1193 | |
| 5° | 1193 | 1191 | 1186 | 1191 | 1191 | 113 |
| 15° | 1152 | 1152 | 1150 | 1159 | 1157 | 325 |
| 25° | 1069 | 1073 | 1080 | 1090 | 1092 | 493 |
| 35° | 948 | 956 | 971 | 990 | 994 | 594 |
| 45° | 796 | 809 | 838 | 873 | 888 | 614 |
| 55° | 615 | 638 | 694 | 749 | 775 | 548 |
| 65° | 406 | 448 | 540 | 612 | 640 | 404 |
| 75° | 192 | 262 | 365 | 427 | 440 | 206 |
| 85° | 38 | 77 | 94 | 102 | 105 | 47 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 24CZ2-60HE-RDP-B2750-W2D-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1193.1 | 1193.1 | 1193.1 | 1193.1 | 1193.1 |
| 2.5° | 1194.9 | 1194.9 | 1189.3 | 1193.1 | 1193.1 |
| 5° | 1193.1 | 1191.3 | 1185.6 | 1191.3 | 1191.3 |
| 7.5° | 1187.4 | 1185.6 | 1181.8 | 1187.4 | 1185.6 |
| 10° | 1176.1 | 1176.1 | 1172.5 | 1178.1 | 1178.1 |
| 12.5° | 1166.8 | 1165.0 | 1162.9 | 1170.4 | 1168.6 |
| 15° | 1151.8 | 1151.8 | 1149.8 | 1159.3 | 1157.3 |
| 17.5° | 1133.0 | 1134.8 | 1136.6 | 1144.1 | 1146.1 |
| 20° | 1112.1 | 1116.0 | 1117.8 | 1129.1 | 1129.1 |
| 22.5° | 1093.3 | 1095.3 | 1098.9 | 1110.3 | 1110.3 |
| 25° | 1069.0 | 1072.6 | 1080.1 | 1089.6 | 1091.5 |
| 27.5° | 1044.5 | 1046.3 | 1055.8 | 1069.0 | 1070.8 |
| 30° | 1012.5 | 1018.2 | 1029.3 | 1044.5 | 1046.3 |
| 32.5° | 984.1 | 989.8 | 1003.0 | 1018.2 | 1021.8 |
| 35° | 948.5 | 956.0 | 971.0 | 989.8 | 993.7 |
| 37.5° | 916.5 | 922.2 | 941.0 | 961.7 | 967.3 |
| 40° | 877.0 | 888.1 | 907.0 | 931.5 | 941.0 |
| 42.5° | 837.5 | 848.7 | 871.4 | 903.3 | 914.7 |
| 45° | 796.0 | 809.2 | 837.5 | 873.2 | 888.1 |
| 47.5° | 754.7 | 769.7 | 801.7 | 843.0 | 860.0 |
| 50° | 707.5 | 726.4 | 765.8 | 813.0 | 831.9 |
| 52.5° | 662.4 | 685.1 | 728.4 | 781.0 | 805.5 |
| 55° | 615.4 | 637.9 | 694.4 | 749.0 | 775.4 |
| 57.5° | 562.7 | 592.7 | 654.9 | 717.0 | 745.2 |
| 60° | 513.7 | 541.9 | 617.2 | 685.1 | 713.2 |
| 62.5° | 461.1 | 498.8 | 579.5 | 651.0 | 679.4 |
| 65° | 406.4 | 447.9 | 540.1 | 611.5 | 639.9 |
| 67.5° | 357.6 | 402.8 | 500.6 | 572.1 | 600.4 |
| 70° | 299.3 | 355.6 | 457.2 | 528.7 | 557.1 |
| 72.5° | 244.6 | 306.8 | 412.1 | 481.7 | 508.1 |
| 75° | 192.0 | 261.6 | 365.1 | 427.3 | 440.4 |
| 77.5° | 143.0 | 216.5 | 316.1 | 342.4 | 333.1 |
| 80° | 101.7 | 173.1 | 246.4 | 233.3 | 238.9 |
| 82.5° | 65.8 | 131.8 | 152.5 | 173.1 | 178.8 |
| 85° | 37.7 | 77.2 | 94.2 | 101.7 | 105.3 |
| 87.5° | 17.0 | 28.1 | 37.7 | 37.7 | 35.9 |
| 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)