

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: P732275

Luminaire Tested: **24CZ2-45HE-RDP-B2750-W2D-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732275
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: 24CZ2-45HE-RDP-B2750-W2D-5000K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

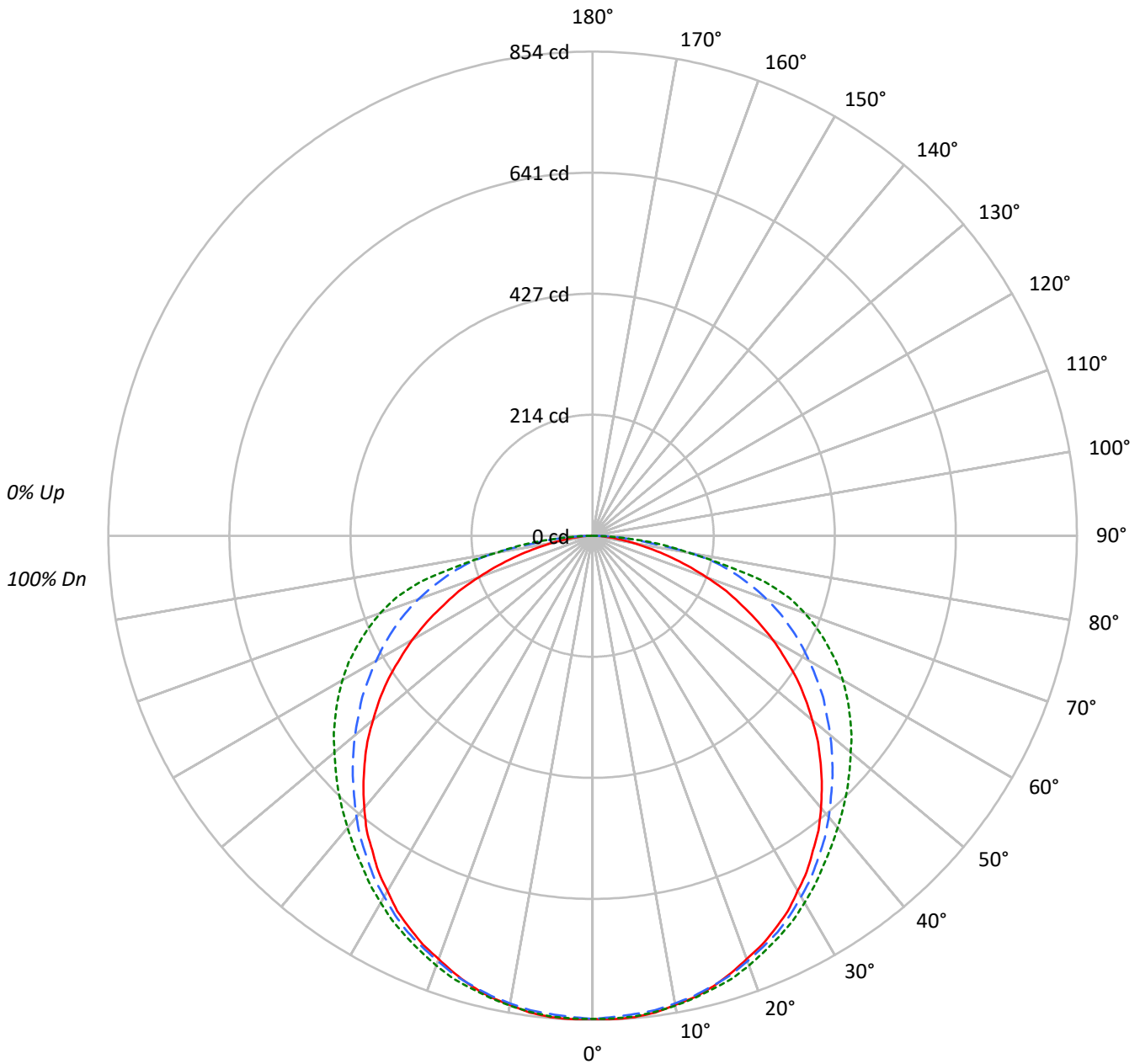
Lumens per Lamp: N/A
Luminaire Lumens: 2710.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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

TEST NUMBER: P732275

CATALOG NUMBER: 24CZ2-45HE-RDP-B2750-W2D-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P732275

CATALOG NUMBER: 24CZ2-45HE-RDP-B2750-W2D-5000K

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° | 1203 | 1203 | 1203 |
| 5° | 1207 | 1200 | 1205 |
| 10° | 1204 | 1200 | 1206 |
| 15° | 1202 | 1200 | 1208 |
| 20° | 1193 | 1199 | 1211 |
| 25° | 1189 | 1201 | 1214 |
| 30° | 1179 | 1198 | 1218 |
| 35° | 1167 | 1195 | 1223 |
| 40° | 1154 | 1193 | 1238 |
| 45° | 1135 | 1194 | 1266 |
| 50° | 1110 | 1201 | 1305 |
| 55° | 1082 | 1220 | 1363 |
| 60° | 1036 | 1245 | 1438 |
| 65° | 969 | 1288 | 1526 |
| 70° | 882 | 1348 | 1642 |
| 75° | 748 | 1422 | 1716 |
| 80° | 590 | 1430 | 1387 |
| 85° | 436 | 1090 | 1218 |



TEST NUMBER: P732275

CATALOG NUMBER: 24CZ2-45HE-RDP-B2750-W2D-5000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.8 | 3.0 |
| 10°-20° | 232.7 | 8.6 |
| 20°-30° | 355.8 | 13.1 |
| 30°-40° | 434.9 | 16.0 |
| 40°-50° | 463.6 | 17.1 |
| 50°-60° | 443.2 | 16.4 |
| 60°-70° | 375.5 | 13.9 |
| 70°-80° | 252.3 | 9.3 |
| 80°-90° | 71.2 | 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° | 669.3 | 24.7 |
| 0°-40° | 1104.2 | 40.7 |
| 0°-60° | 2011.0 | 74.2 |
| 0°-90° | 2710.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2710.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 852 | 852 | 852 | 852 | 852 | |
| 5° | 852 | 851 | 847 | 851 | 851 | 81 |
| 15° | 823 | 823 | 821 | 828 | 827 | 232 |
| 25° | 764 | 766 | 772 | 778 | 780 | 352 |
| 35° | 678 | 683 | 694 | 707 | 710 | 424 |
| 45° | 569 | 578 | 598 | 624 | 634 | 439 |
| 55° | 440 | 456 | 496 | 535 | 554 | 392 |
| 65° | 290 | 320 | 386 | 437 | 457 | 288 |
| 75° | 137 | 187 | 261 | 305 | 315 | 147 |
| 85° | 27 | 55 | 67 | 73 | 75 | 33 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732275

CATALOG NUMBER: 24CZ2-45HE-RDP-B2750-W2D-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 852.2 | 852.2 | 852.2 | 852.2 | 852.2 |
| 2.5° | 853.5 | 853.5 | 849.5 | 852.2 | 852.2 |
| 5° | 852.2 | 850.9 | 846.9 | 850.9 | 850.9 |
| 7.5° | 848.2 | 846.9 | 844.1 | 848.2 | 846.9 |
| 10° | 840.1 | 840.1 | 837.5 | 841.5 | 841.5 |
| 12.5° | 833.4 | 832.1 | 830.7 | 836.0 | 834.7 |
| 15° | 822.7 | 822.7 | 821.3 | 828.1 | 826.6 |
| 17.5° | 809.3 | 810.6 | 811.9 | 817.2 | 818.7 |
| 20° | 794.4 | 797.1 | 798.4 | 806.5 | 806.5 |
| 22.5° | 780.9 | 782.4 | 785.0 | 793.1 | 793.1 |
| 25° | 763.6 | 766.2 | 771.5 | 778.3 | 779.6 |
| 27.5° | 746.1 | 747.4 | 754.2 | 763.6 | 764.9 |
| 30° | 723.2 | 727.3 | 735.2 | 746.1 | 747.4 |
| 32.5° | 702.9 | 707.0 | 716.4 | 727.3 | 729.9 |
| 35° | 677.5 | 682.9 | 693.5 | 707.0 | 709.8 |
| 37.5° | 654.6 | 658.7 | 672.2 | 686.9 | 691.0 |
| 40° | 626.4 | 634.4 | 647.8 | 665.3 | 672.2 |
| 42.5° | 598.2 | 606.2 | 622.4 | 645.2 | 653.4 |
| 45° | 568.6 | 578.0 | 598.2 | 623.7 | 634.4 |
| 47.5° | 539.1 | 549.8 | 572.6 | 602.1 | 614.3 |
| 50° | 505.4 | 518.8 | 547.0 | 580.7 | 594.2 |
| 52.5° | 473.1 | 489.3 | 520.3 | 557.9 | 575.4 |
| 55° | 439.6 | 455.6 | 496.0 | 535.0 | 553.8 |
| 57.5° | 402.0 | 423.4 | 467.8 | 512.2 | 532.3 |
| 60° | 367.0 | 387.1 | 440.9 | 489.3 | 509.4 |
| 62.5° | 329.4 | 356.3 | 414.0 | 465.0 | 485.3 |
| 65° | 290.3 | 319.9 | 385.8 | 436.8 | 457.1 |
| 67.5° | 255.4 | 287.7 | 357.6 | 408.6 | 428.9 |
| 70° | 213.8 | 254.0 | 326.6 | 377.7 | 397.9 |
| 72.5° | 174.7 | 219.1 | 294.3 | 344.1 | 362.9 |
| 75° | 137.1 | 186.9 | 260.8 | 305.2 | 314.6 |
| 77.5° | 102.1 | 154.6 | 225.8 | 244.6 | 237.9 |
| 80° | 72.6 | 123.7 | 176.0 | 166.6 | 170.7 |
| 82.5° | 47.0 | 94.2 | 108.9 | 123.7 | 127.7 |
| 85° | 26.9 | 55.1 | 67.3 | 72.6 | 75.2 |
| 87.5° | 12.2 | 20.1 | 26.9 | 26.9 | 25.6 |
| 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)