

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: P732174

Luminaire Tested: **24CZ2-35HE-RDP-B2750-W2D-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732174
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: 24CZ2-35HE-RDP-B2750-W2D-4000K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

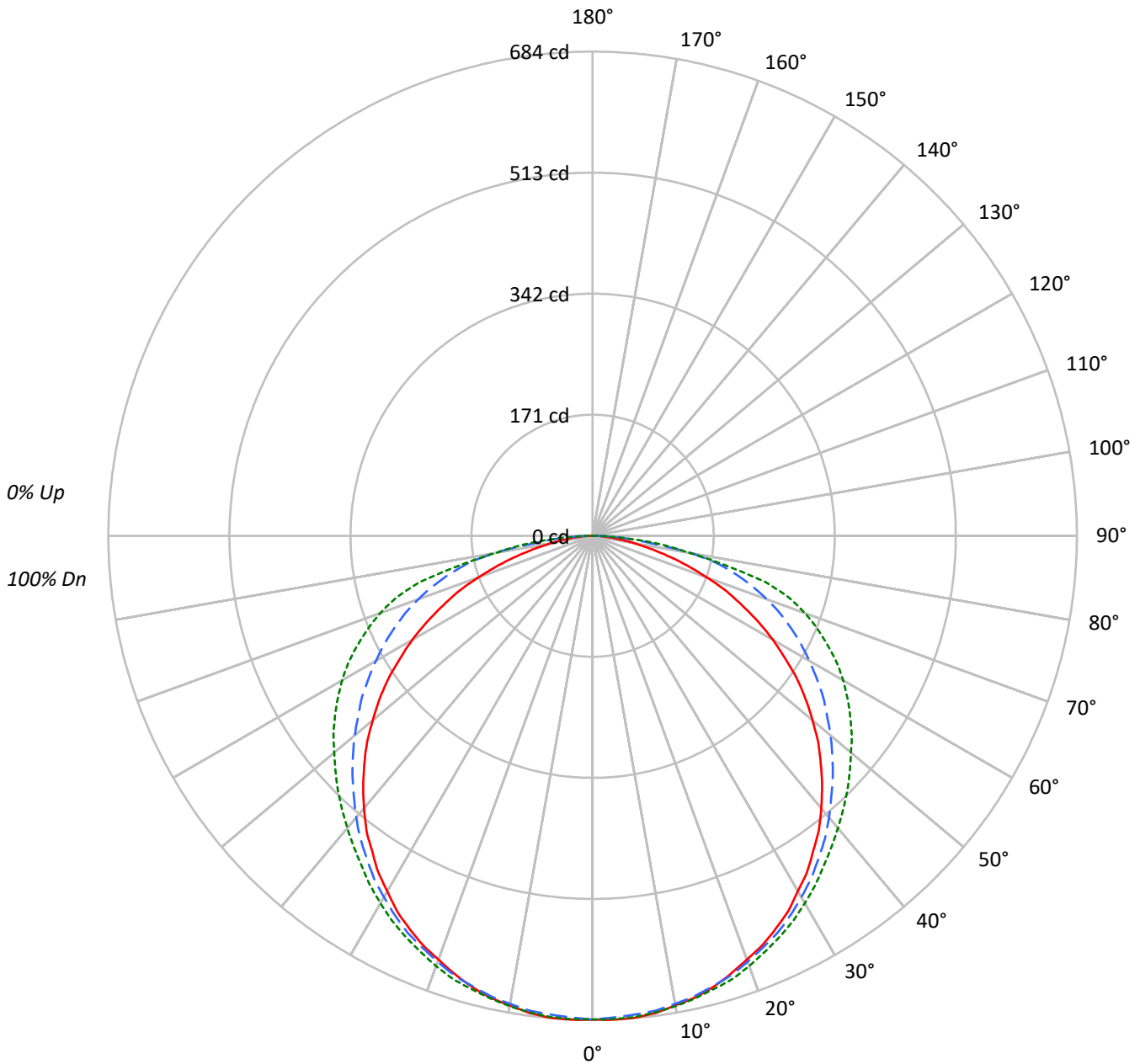
Lumens per Lamp: N/A
Luminaire Lumens: 2173.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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 | 68 | 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° | 965 | 965 | 965 |
| 5° | 968 | 962 | 967 |
| 10° | 965 | 962 | 967 |
| 15° | 964 | 962 | 968 |
| 20° | 957 | 962 | 971 |
| 25° | 953 | 963 | 973 |
| 30° | 945 | 961 | 977 |
| 35° | 936 | 958 | 981 |
| 40° | 925 | 957 | 993 |
| 45° | 910 | 957 | 1015 |
| 50° | 890 | 963 | 1046 |
| 55° | 867 | 979 | 1093 |
| 60° | 830 | 998 | 1153 |
| 65° | 777 | 1033 | 1224 |
| 70° | 707 | 1081 | 1317 |
| 75° | 599 | 1140 | 1376 |
| 80° | 473 | 1147 | 1113 |
| 85° | 350 | 873 | 976 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.8 | 3.0 |
| 10°-20° | 186.6 | 8.6 |
| 20°-30° | 285.3 | 13.1 |
| 30°-40° | 348.8 | 16.0 |
| 40°-50° | 371.7 | 17.1 |
| 50°-60° | 355.4 | 16.4 |
| 60°-70° | 301.1 | 13.9 |
| 70°-80° | 202.3 | 9.3 |
| 80°-90° | 57.1 | 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° | 536.7 | 24.7 |
| 0°-40° | 885.4 | 40.7 |
| 0°-60° | 1612.5 | 74.2 |
| 0°-90° | 2173.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2173.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 683 | 683 | 683 | 683 | 683 | |
| 5° | 683 | 682 | 679 | 682 | 682 | 65 |
| 15° | 660 | 660 | 658 | 664 | 663 | 186 |
| 25° | 612 | 614 | 619 | 624 | 625 | 282 |
| 35° | 543 | 548 | 556 | 567 | 569 | 340 |
| 45° | 456 | 464 | 480 | 500 | 509 | 352 |
| 55° | 352 | 365 | 398 | 429 | 444 | 314 |
| 65° | 233 | 256 | 309 | 350 | 366 | 231 |
| 75° | 110 | 150 | 209 | 245 | 252 | 118 |
| 85° | 22 | 44 | 54 | 58 | 60 | 27 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732174

CATALOG NUMBER: 24CZ2-35HE-RDP-B2750-W2D-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 683.4 | 683.4 | 683.4 | 683.4 | 683.4 |
| 2.5° | 684.4 | 684.4 | 681.1 | 683.4 | 683.4 |
| 5° | 683.4 | 682.3 | 679.1 | 682.3 | 682.3 |
| 7.5° | 680.1 | 679.1 | 676.9 | 680.1 | 679.1 |
| 10° | 673.6 | 673.6 | 671.5 | 674.8 | 674.8 |
| 12.5° | 668.3 | 667.2 | 666.1 | 670.4 | 669.3 |
| 15° | 659.7 | 659.7 | 658.5 | 664.0 | 662.8 |
| 17.5° | 648.9 | 650.0 | 651.0 | 655.3 | 656.5 |
| 20° | 637.0 | 639.2 | 640.2 | 646.7 | 646.7 |
| 22.5° | 626.2 | 627.3 | 629.4 | 635.9 | 635.9 |
| 25° | 612.3 | 614.3 | 618.6 | 624.1 | 625.1 |
| 27.5° | 598.2 | 599.3 | 604.7 | 612.3 | 613.3 |
| 30° | 579.9 | 583.2 | 589.5 | 598.2 | 599.3 |
| 32.5° | 563.7 | 566.9 | 574.4 | 583.2 | 585.2 |
| 35° | 543.3 | 547.5 | 556.1 | 566.9 | 569.1 |
| 37.5° | 524.9 | 528.2 | 539.0 | 550.8 | 554.0 |
| 40° | 502.3 | 508.7 | 519.5 | 533.5 | 539.0 |
| 42.5° | 479.7 | 486.1 | 499.1 | 517.4 | 523.9 |
| 45° | 455.9 | 463.5 | 479.7 | 500.1 | 508.7 |
| 47.5° | 432.3 | 440.8 | 459.2 | 482.8 | 492.6 |
| 50° | 405.2 | 416.0 | 438.6 | 465.7 | 476.4 |
| 52.5° | 379.4 | 392.4 | 417.2 | 447.3 | 461.4 |
| 55° | 352.5 | 365.3 | 397.7 | 429.0 | 444.1 |
| 57.5° | 322.3 | 339.5 | 375.1 | 410.7 | 426.8 |
| 60° | 294.2 | 310.4 | 353.5 | 392.4 | 408.5 |
| 62.5° | 264.1 | 285.7 | 331.9 | 372.9 | 389.1 |
| 65° | 232.8 | 256.5 | 309.3 | 350.3 | 366.5 |
| 67.5° | 204.8 | 230.7 | 286.7 | 327.6 | 343.9 |
| 70° | 171.4 | 203.7 | 261.9 | 302.8 | 319.1 |
| 72.5° | 140.1 | 175.7 | 236.0 | 275.9 | 291.0 |
| 75° | 109.9 | 149.8 | 209.1 | 244.7 | 252.3 |
| 77.5° | 81.9 | 124.0 | 181.0 | 196.1 | 190.8 |
| 80° | 58.2 | 99.2 | 141.1 | 133.6 | 136.9 |
| 82.5° | 37.7 | 75.5 | 87.3 | 99.2 | 102.4 |
| 85° | 21.6 | 44.2 | 53.9 | 58.2 | 60.3 |
| 87.5° | 9.7 | 16.1 | 21.6 | 21.6 | 20.5 |
| 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)