

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: P843000

Luminaire Tested: **24CZ2-30HE-RDP-UNV-B50**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P843000
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: 24CZ2-30HE-RDP-UNV-B50
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

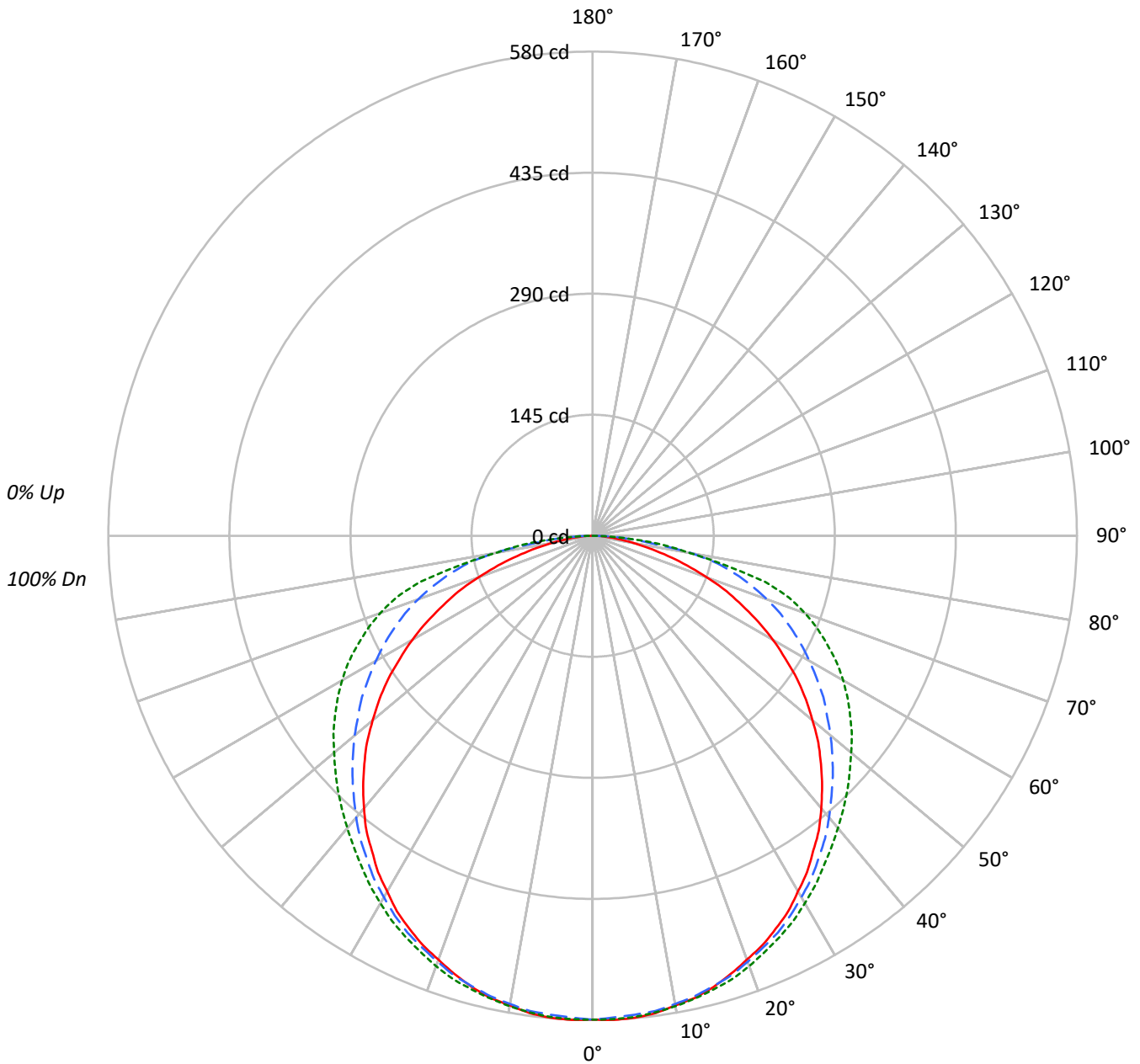
Lumens per Lamp: N/A
Luminaire Lumens: 1843.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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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CATALOG NUMBER: 24CZ2-30HE-RDP-UNV-B50

Luminous Intensity Polar Plot





TEST NUMBER: P843000

CATALOG NUMBER: 24CZ2-30HE-RDP-UNV-B50

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-----|-----|------|
| 0° | 818 | 818 | 818 |
| 5° | 821 | 816 | 820 |
| 10° | 819 | 816 | 820 |
| 15° | 818 | 816 | 821 |
| 20° | 811 | 816 | 824 |
| 25° | 809 | 817 | 826 |
| 30° | 801 | 815 | 828 |
| 35° | 794 | 813 | 832 |
| 40° | 785 | 812 | 842 |
| 45° | 772 | 812 | 861 |
| 50° | 755 | 817 | 887 |
| 55° | 735 | 830 | 927 |
| 60° | 705 | 846 | 978 |
| 65° | 659 | 876 | 1038 |
| 70° | 600 | 916 | 1117 |
| 75° | 509 | 967 | 1167 |
| 80° | 402 | 973 | 944 |
| 85° | 296 | 740 | 827 |



TEST NUMBER: P843000

CATALOG NUMBER: 24CZ2-30HE-RDP-UNV-B50

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.0 | 3.0 |
| 10°-20° | 158.2 | 8.6 |
| 20°-30° | 242.0 | 13.1 |
| 30°-40° | 295.8 | 16.0 |
| 40°-50° | 315.3 | 17.1 |
| 50°-60° | 301.4 | 16.4 |
| 60°-70° | 255.3 | 13.9 |
| 70°-80° | 171.6 | 9.3 |
| 80°-90° | 48.4 | 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° | 455.2 | 24.7 |
| 0°-40° | 751.0 | 40.7 |
| 0°-60° | 1367.6 | 74.2 |
| 0°-90° | 1843.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1843.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 580 | 580 | 580 | 580 | 580 | |
| 5° | 580 | 579 | 576 | 579 | 579 | 55 |
| 15° | 560 | 560 | 558 | 563 | 562 | 158 |
| 25° | 519 | 521 | 525 | 529 | 530 | 239 |
| 35° | 461 | 464 | 472 | 481 | 483 | 289 |
| 45° | 387 | 393 | 407 | 424 | 431 | 298 |
| 55° | 299 | 310 | 337 | 364 | 377 | 266 |
| 65° | 197 | 218 | 262 | 297 | 311 | 196 |
| 75° | 93 | 127 | 177 | 208 | 214 | 100 |
| 85° | 18 | 38 | 46 | 49 | 51 | 23 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P843000

CATALOG NUMBER: 24CZ2-30HE-RDP-UNV-B50

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 579.6 | 579.6 | 579.6 | 579.6 | 579.6 |
| 2.5° | 580.5 | 580.5 | 577.7 | 579.6 | 579.6 |
| 5° | 579.6 | 578.7 | 575.9 | 578.7 | 578.7 |
| 7.5° | 576.8 | 575.9 | 574.1 | 576.8 | 575.9 |
| 10° | 571.3 | 571.3 | 569.5 | 572.3 | 572.3 |
| 12.5° | 566.8 | 565.9 | 564.9 | 568.6 | 567.7 |
| 15° | 559.5 | 559.5 | 558.5 | 563.2 | 562.2 |
| 17.5° | 550.4 | 551.2 | 552.1 | 555.8 | 556.8 |
| 20° | 540.2 | 542.1 | 543.0 | 548.5 | 548.5 |
| 22.5° | 531.1 | 532.1 | 533.8 | 539.3 | 539.3 |
| 25° | 519.3 | 521.0 | 524.7 | 529.3 | 530.2 |
| 27.5° | 507.4 | 508.3 | 512.9 | 519.3 | 520.2 |
| 30° | 491.8 | 494.6 | 500.0 | 507.4 | 508.3 |
| 32.5° | 478.1 | 480.8 | 487.2 | 494.6 | 496.4 |
| 35° | 460.8 | 464.4 | 471.7 | 480.8 | 482.7 |
| 37.5° | 445.2 | 448.0 | 457.1 | 467.1 | 469.9 |
| 40° | 426.0 | 431.4 | 440.6 | 452.5 | 457.1 |
| 42.5° | 406.8 | 412.3 | 423.3 | 438.8 | 444.3 |
| 45° | 386.7 | 393.1 | 406.8 | 424.2 | 431.4 |
| 47.5° | 366.6 | 373.9 | 389.4 | 409.5 | 417.8 |
| 50° | 343.7 | 352.8 | 372.0 | 394.9 | 404.1 |
| 52.5° | 321.8 | 332.8 | 353.8 | 379.4 | 391.3 |
| 55° | 298.9 | 309.8 | 337.3 | 363.9 | 376.6 |
| 57.5° | 273.4 | 287.9 | 318.1 | 348.3 | 362.0 |
| 60° | 249.6 | 263.2 | 299.8 | 332.8 | 346.4 |
| 62.5° | 224.0 | 242.3 | 281.5 | 316.2 | 330.0 |
| 65° | 197.4 | 217.6 | 262.3 | 297.1 | 310.8 |
| 67.5° | 173.7 | 195.7 | 243.2 | 277.9 | 291.7 |
| 70° | 145.4 | 172.7 | 222.1 | 256.8 | 270.6 |
| 72.5° | 118.8 | 149.0 | 200.2 | 234.0 | 246.8 |
| 75° | 93.3 | 127.1 | 177.4 | 207.6 | 214.0 |
| 77.5° | 69.4 | 105.2 | 153.5 | 166.3 | 161.8 |
| 80° | 49.4 | 84.1 | 119.7 | 113.3 | 116.1 |
| 82.5° | 32.0 | 64.0 | 74.1 | 84.1 | 86.9 |
| 85° | 18.3 | 37.5 | 45.7 | 49.4 | 51.1 |
| 87.5° | 8.3 | 13.7 | 18.3 | 18.3 | 17.4 |
| 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)