

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: P732075

Luminaire Tested: **22CZ2-44HE-RDP-B2750-W2D-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274731)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-RDP-B2750-W2D-5000K
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

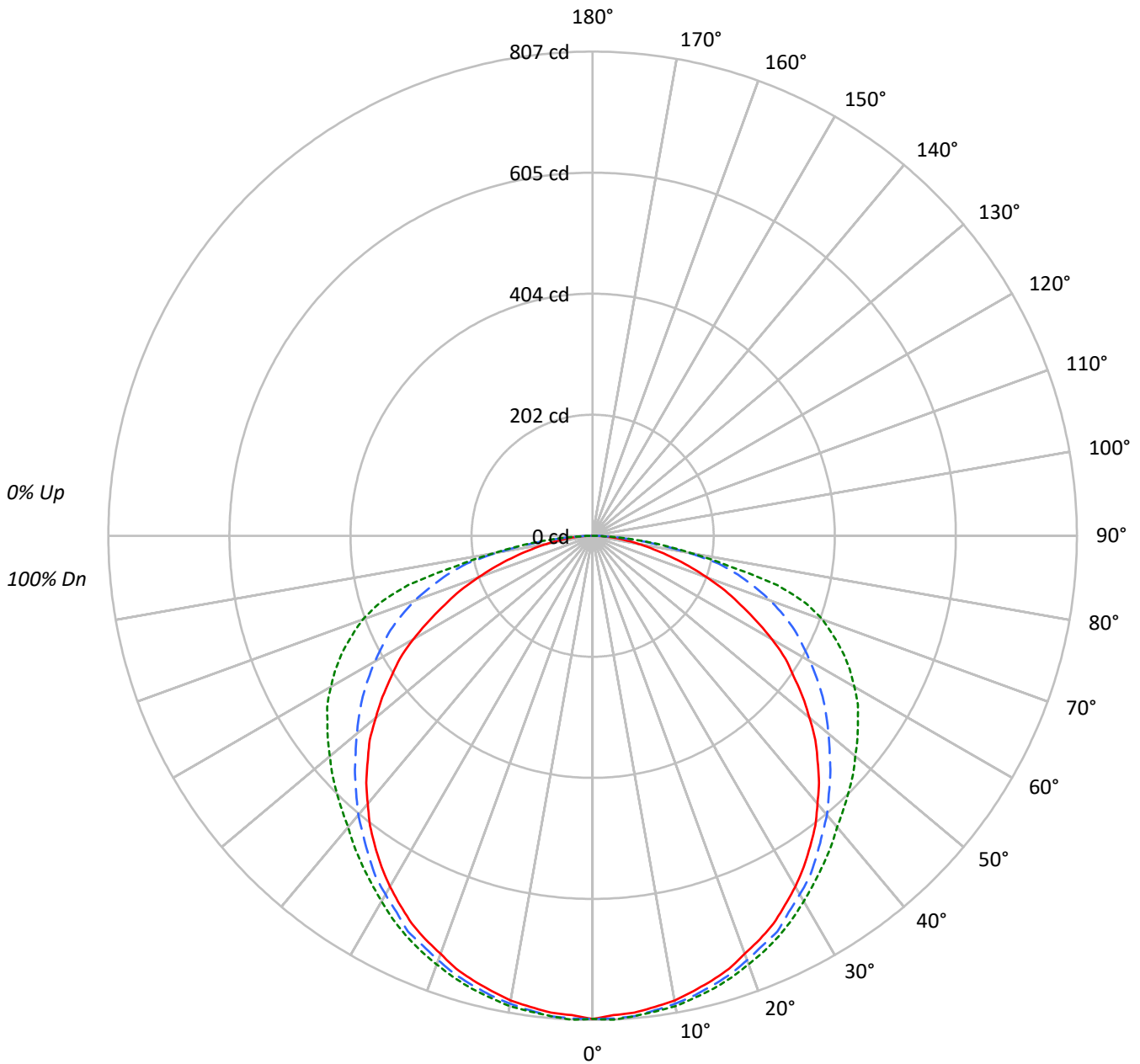
Lumens per Lamp: N/A
Luminaire Lumens: 2564.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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 | | | | | | | | | |
| 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 | 92 | 89 | 92 | 89 | 86 | 88 | 86 | 84 | 82 | | | | | | | | | | | | | | | | | | | |
| 2 | 97 | 88 | 81 | 75 | 95 | 86 | 80 | 74 | 83 | 77 | 72 | 80 | 75 | 71 | 76 | 72 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 3 | 88 | 77 | 68 | 61 | 86 | 75 | 67 | 61 | 72 | 65 | 60 | 70 | 64 | 59 | 67 | 62 | 58 | 55 | | | | | | | | | | | | | | | | | | | |
| 4 | 80 | 68 | 59 | 51 | 78 | 66 | 58 | 51 | 64 | 56 | 50 | 61 | 55 | 50 | 59 | 54 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 5 | 74 | 60 | 51 | 44 | 72 | 59 | 50 | 44 | 57 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 40 | | | | | | | | | | | | | | | | | | | |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 7 | 63 | 49 | 40 | 33 | 61 | 48 | 39 | 33 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 35 | 30 | 43 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | | | | | | | | | | | | | | | | |
| 9 | 55 | 41 | 32 | 27 | 53 | 40 | 32 | 27 | 39 | 32 | 26 | 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° | 2285 | 2285 | 2285 |
| 5° | 2272 | 2289 | 2289 |
| 10° | 2266 | 2282 | 2294 |
| 15° | 2255 | 2278 | 2294 |
| 20° | 2238 | 2273 | 2295 |
| 25° | 2233 | 2280 | 2303 |
| 30° | 2213 | 2262 | 2305 |
| 35° | 2189 | 2254 | 2320 |
| 40° | 2159 | 2250 | 2348 |
| 45° | 2127 | 2248 | 2422 |
| 50° | 2082 | 2264 | 2523 |
| 55° | 2025 | 2314 | 2669 |
| 60° | 1958 | 2376 | 2858 |
| 65° | 1824 | 2495 | 3090 |
| 70° | 1673 | 2614 | 3379 |
| 75° | 1469 | 2750 | 3494 |
| 80° | 1262 | 2621 | 2744 |
| 85° | 1100 | 1901 | 2087 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 76.2 | 3.0 |
| 10°-20° | 218.8 | 8.5 |
| 20°-30° | 333.7 | 13.0 |
| 30°-40° | 407.5 | 15.9 |
| 40°-50° | 435.7 | 17.0 |
| 50°-60° | 420.6 | 16.4 |
| 60°-70° | 362.0 | 14.1 |
| 70°-80° | 244.9 | 9.6 |
| 80°-90° | 64.6 | 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° | 628.7 | 24.5 |
| 0°-40° | 1036.2 | 40.4 |
| 0°-60° | 1892.5 | 73.8 |
| 0°-90° | 2564.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2564.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 805 | 805 | 805 | 805 | 805 | |
| 5° | 798 | 800 | 804 | 804 | 804 | 76 |
| 15° | 768 | 770 | 775 | 779 | 781 | 217 |
| 25° | 713 | 717 | 728 | 732 | 736 | 328 |
| 35° | 632 | 637 | 651 | 664 | 670 | 395 |
| 45° | 530 | 540 | 560 | 589 | 604 | 409 |
| 55° | 409 | 422 | 468 | 515 | 540 | 367 |
| 65° | 272 | 298 | 372 | 430 | 460 | 270 |
| 75° | 134 | 177 | 251 | 302 | 319 | 144 |
| 85° | 34 | 47 | 58 | 60 | 64 | 38 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 805.3 | 805.3 | 805.3 | 805.3 | 805.3 |
| 2.5° | 799.8 | 801.7 | 805.3 | 805.3 | 807.3 |
| 5° | 797.8 | 799.8 | 803.5 | 803.5 | 803.5 |
| 7.5° | 792.1 | 794.2 | 797.8 | 799.8 | 799.8 |
| 10° | 786.4 | 788.5 | 792.1 | 794.2 | 796.0 |
| 12.5° | 777.1 | 779.0 | 784.6 | 788.5 | 788.5 |
| 15° | 767.6 | 769.6 | 775.3 | 779.0 | 781.0 |
| 17.5° | 756.5 | 760.1 | 765.8 | 769.6 | 771.5 |
| 20° | 741.2 | 745.1 | 752.6 | 758.3 | 760.1 |
| 22.5° | 728.1 | 731.9 | 739.4 | 745.1 | 748.7 |
| 25° | 713.1 | 716.7 | 728.1 | 731.9 | 735.6 |
| 27.5° | 694.2 | 697.9 | 707.4 | 714.9 | 720.6 |
| 30° | 675.4 | 679.0 | 690.4 | 699.7 | 703.5 |
| 32.5° | 654.5 | 660.1 | 673.3 | 680.8 | 686.5 |
| 35° | 632.0 | 637.4 | 650.8 | 664.0 | 669.7 |
| 37.5° | 609.3 | 614.9 | 628.1 | 645.2 | 652.6 |
| 40° | 582.9 | 590.4 | 607.4 | 629.9 | 633.8 |
| 42.5° | 558.4 | 567.7 | 582.9 | 609.3 | 618.6 |
| 45° | 530.0 | 539.5 | 560.2 | 588.6 | 603.6 |
| 47.5° | 503.6 | 512.9 | 535.7 | 569.7 | 588.6 |
| 50° | 471.6 | 484.8 | 512.9 | 552.7 | 571.5 |
| 52.5° | 441.4 | 452.7 | 490.5 | 533.8 | 556.3 |
| 55° | 409.4 | 422.5 | 467.7 | 515.0 | 539.5 |
| 57.5° | 381.0 | 392.3 | 443.2 | 496.1 | 524.3 |
| 60° | 345.1 | 360.3 | 418.7 | 475.2 | 503.6 |
| 62.5° | 307.4 | 330.1 | 394.1 | 452.7 | 483.0 |
| 65° | 271.7 | 298.0 | 371.6 | 430.0 | 460.2 |
| 67.5° | 239.4 | 267.8 | 343.2 | 405.5 | 433.9 |
| 70° | 201.7 | 237.6 | 315.1 | 375.3 | 407.3 |
| 72.5° | 167.9 | 207.4 | 282.8 | 343.2 | 371.6 |
| 75° | 134.0 | 177.2 | 250.8 | 301.9 | 318.7 |
| 77.5° | 103.8 | 145.2 | 215.1 | 230.1 | 231.9 |
| 80° | 77.2 | 114.9 | 160.4 | 162.2 | 167.9 |
| 82.5° | 52.7 | 81.1 | 103.8 | 113.1 | 114.9 |
| 85° | 33.8 | 47.3 | 58.4 | 60.4 | 64.1 |
| 87.5° | 15.0 | 17.0 | 20.7 | 18.9 | 18.9 |
| 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)