

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: P731977

Luminaire Tested: **22CZ2-24HE-S-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-S-B2750-W2D-3000K
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

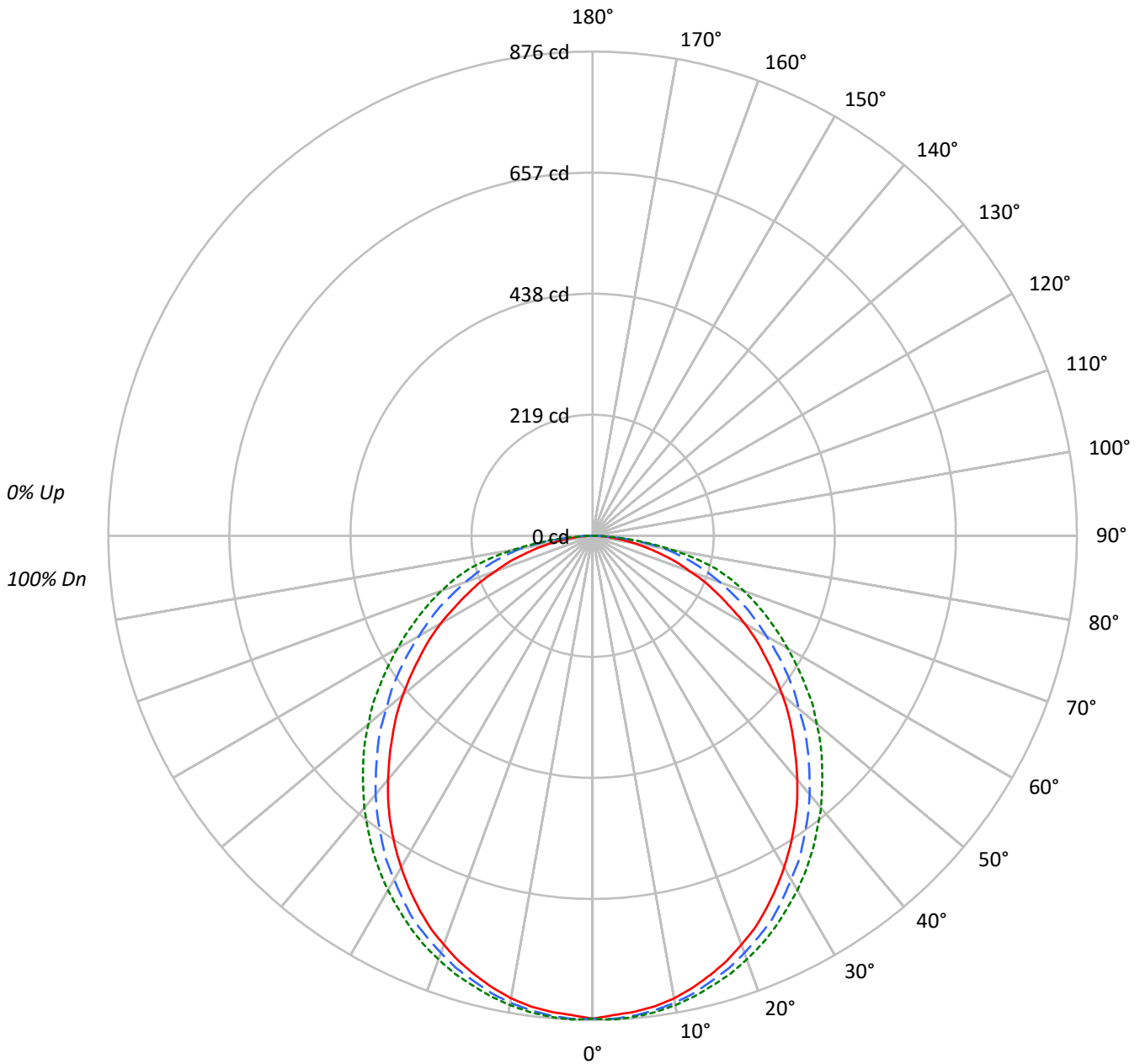
Lumens per Lamp: N/A
Luminaire Lumens: 2438.0 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): 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 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 52 | 49 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 | | | | | | | | | | | | | | | | | | | |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 | | | | | | | | | | | | | | | | | | | |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 33 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 31 | 30 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 28 | 27 | | | | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2479 | 2479 | 2479 |
| 5° | 2463 | 2482 | 2488 |
| 10° | 2449 | 2471 | 2484 |
| 15° | 2416 | 2449 | 2473 |
| 20° | 2377 | 2425 | 2463 |
| 25° | 2329 | 2400 | 2447 |
| 30° | 2270 | 2352 | 2426 |
| 35° | 2207 | 2309 | 2404 |
| 40° | 2132 | 2262 | 2380 |
| 45° | 2054 | 2209 | 2356 |
| 50° | 1978 | 2149 | 2335 |
| 55° | 1885 | 2110 | 2319 |
| 60° | 1801 | 2059 | 2311 |
| 65° | 1681 | 2047 | 2337 |
| 70° | 1548 | 2029 | 2407 |
| 75° | 1396 | 2058 | 2533 |
| 80° | 1208 | 2119 | 2379 |
| 85° | 1000 | 1778 | 1778 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.6 | 3.4 |
| 10°-20° | 235.1 | 9.6 |
| 20°-30° | 351.8 | 14.4 |
| 30°-40° | 416.6 | 17.1 |
| 40°-50° | 424.6 | 17.4 |
| 50°-60° | 380.5 | 15.6 |
| 60°-70° | 297.9 | 12.2 |
| 70°-80° | 192.1 | 7.9 |
| 80°-90° | 56.7 | 2.3 |
| 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° | 669.5 | 27.5 |
| 0°-40° | 1086.1 | 44.5 |
| 0°-60° | 1891.2 | 77.6 |
| 0°-90° | 2438.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2438.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 874 | 874 | 874 | 874 | 874 | |
| 5° | 865 | 867 | 871 | 872 | 874 | 82 |
| 15° | 822 | 827 | 834 | 841 | 842 | 232 |
| 25° | 744 | 751 | 767 | 777 | 782 | 342 |
| 35° | 637 | 645 | 667 | 687 | 694 | 398 |
| 45° | 512 | 523 | 550 | 579 | 587 | 395 |
| 55° | 381 | 394 | 427 | 456 | 469 | 342 |
| 65° | 250 | 265 | 305 | 334 | 348 | 249 |
| 75° | 127 | 147 | 188 | 220 | 231 | 137 |
| 85° | 31 | 42 | 55 | 55 | 55 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P731977

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 873.6 | 873.6 | 873.6 | 873.6 | 873.6 |
| 2.5° | 867.9 | 870.2 | 874.7 | 876.0 | 876.0 |
| 5° | 864.6 | 866.8 | 871.3 | 872.5 | 873.6 |
| 7.5° | 858.8 | 859.9 | 865.7 | 867.9 | 869.1 |
| 10° | 849.8 | 852.0 | 857.7 | 861.1 | 862.2 |
| 12.5° | 837.2 | 840.6 | 847.4 | 852.0 | 853.2 |
| 15° | 822.5 | 827.0 | 833.7 | 840.6 | 841.8 |
| 17.5° | 806.5 | 811.1 | 820.2 | 828.1 | 830.4 |
| 20° | 787.1 | 792.9 | 803.0 | 812.2 | 815.6 |
| 22.5° | 767.8 | 772.3 | 784.9 | 796.3 | 799.7 |
| 25° | 743.9 | 750.8 | 766.7 | 777.0 | 781.5 |
| 27.5° | 718.9 | 726.8 | 742.8 | 756.4 | 760.9 |
| 30° | 692.8 | 700.8 | 717.8 | 734.9 | 740.5 |
| 32.5° | 665.4 | 674.6 | 695.0 | 712.1 | 717.8 |
| 35° | 637.0 | 645.0 | 666.6 | 687.1 | 693.9 |
| 37.5° | 607.4 | 614.3 | 639.3 | 660.9 | 667.7 |
| 40° | 575.6 | 584.7 | 610.8 | 635.9 | 642.6 |
| 42.5° | 543.7 | 553.9 | 580.1 | 607.4 | 614.3 |
| 45° | 511.9 | 523.2 | 550.5 | 579.0 | 587.0 |
| 47.5° | 481.2 | 490.2 | 521.0 | 548.3 | 559.7 |
| 50° | 448.1 | 457.3 | 486.9 | 517.6 | 529.0 |
| 52.5° | 414.0 | 426.6 | 458.4 | 488.0 | 501.6 |
| 55° | 381.1 | 393.6 | 426.6 | 456.2 | 468.7 |
| 57.5° | 350.4 | 360.5 | 394.7 | 425.4 | 438.0 |
| 60° | 317.3 | 326.5 | 362.9 | 395.9 | 407.3 |
| 62.5° | 282.1 | 295.7 | 333.2 | 364.0 | 377.7 |
| 65° | 250.3 | 265.0 | 304.9 | 334.5 | 348.1 |
| 67.5° | 220.7 | 234.3 | 273.1 | 304.9 | 319.7 |
| 70° | 186.6 | 204.8 | 244.6 | 276.4 | 290.1 |
| 72.5° | 159.3 | 175.2 | 216.2 | 248.0 | 262.8 |
| 75° | 127.3 | 146.7 | 187.7 | 219.6 | 231.0 |
| 77.5° | 101.3 | 120.6 | 159.3 | 184.2 | 190.0 |
| 80° | 73.9 | 93.2 | 129.7 | 142.2 | 145.6 |
| 82.5° | 50.0 | 68.3 | 93.2 | 96.6 | 97.9 |
| 85° | 30.7 | 42.1 | 54.6 | 54.6 | 54.6 |
| 87.5° | 14.8 | 17.0 | 19.3 | 18.2 | 18.2 |
| 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)