

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: P731937

Luminaire Tested: **22CZ2-20HE-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20HE-B2750-W2D-3000K
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

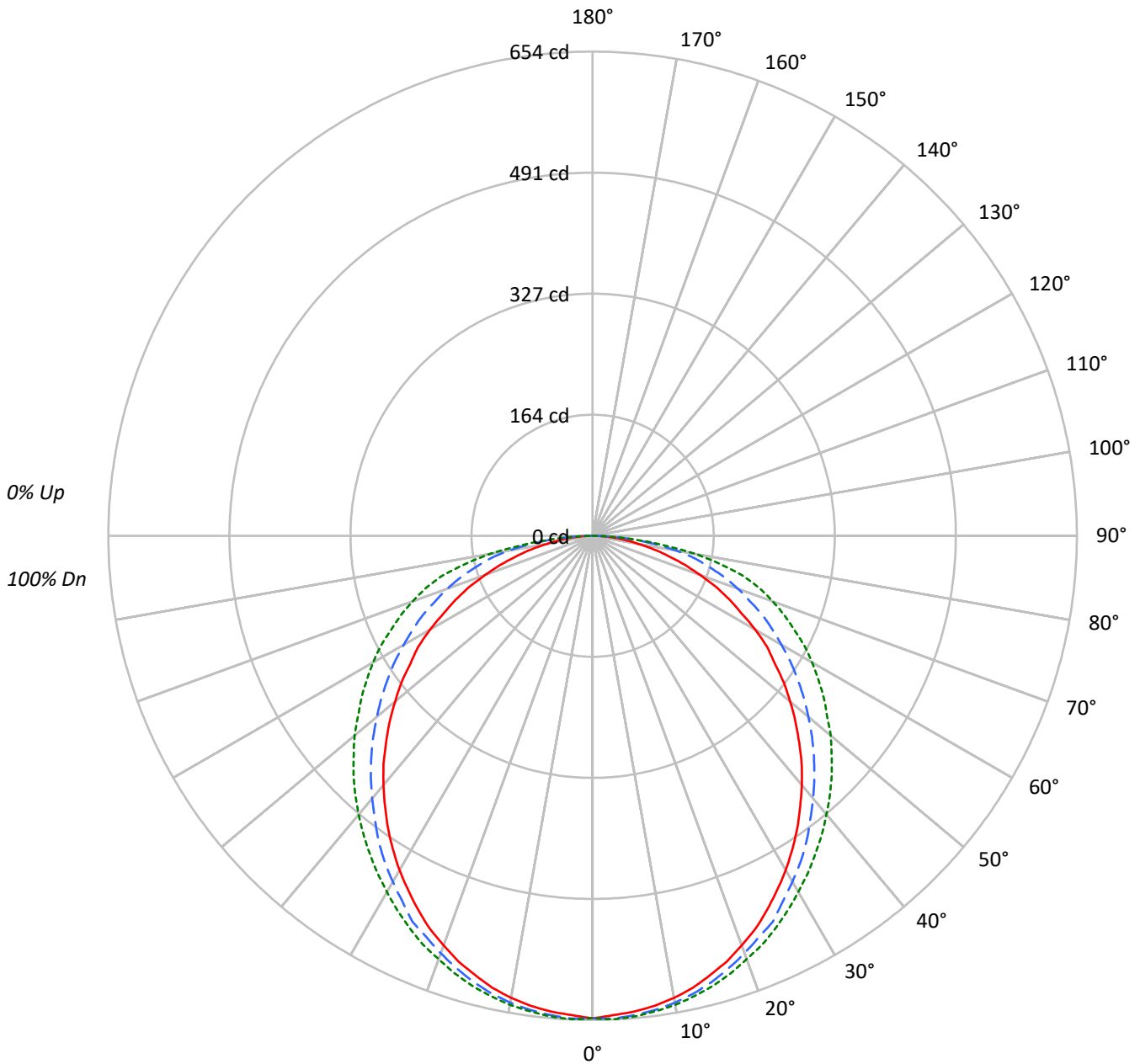
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1917.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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





TEST NUMBER: P731937

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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 | 101 | 96 | 93 | 96 | 93 | 90 | 92 | 90 | 87 | 89 | 86 | 84 | 82 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 71 | 77 | 73 | 70 | 68 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 78 | 69 | 63 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 59 | 56 | | | | | | | | | | | | | | | | | | | |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 52 | 65 | 57 | 52 | 63 | 56 | 51 | 60 | 55 | 50 | 48 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 61 | 52 | 45 | 72 | 60 | 52 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 41 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 36 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 8 | 59 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 25 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1850 | 1850 | 1850 |
| 5° | 1838 | 1851 | 1857 |
| 10° | 1826 | 1845 | 1854 |
| 15° | 1804 | 1832 | 1848 |
| 20° | 1777 | 1812 | 1837 |
| 25° | 1745 | 1802 | 1831 |
| 30° | 1709 | 1768 | 1820 |
| 35° | 1670 | 1745 | 1817 |
| 40° | 1628 | 1715 | 1820 |
| 45° | 1582 | 1696 | 1832 |
| 50° | 1537 | 1678 | 1853 |
| 55° | 1484 | 1671 | 1885 |
| 60° | 1440 | 1670 | 1943 |
| 65° | 1368 | 1697 | 2014 |
| 70° | 1276 | 1730 | 2145 |
| 75° | 1169 | 1789 | 2317 |
| 80° | 1018 | 1864 | 2281 |
| 85° | 892 | 1657 | 1813 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.6 | 3.2 |
| 10°-20° | 175.6 | 9.2 |
| 20°-30° | 263.6 | 13.7 |
| 30°-40° | 315.0 | 16.4 |
| 40°-50° | 327.5 | 17.1 |
| 50°-60° | 303.5 | 15.8 |
| 60°-70° | 249.0 | 13.0 |
| 70°-80° | 168.3 | 8.8 |
| 80°-90° | 52.9 | 2.8 |
| 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° | 500.8 | 26.1 |
| 0°-40° | 815.7 | 42.6 |
| 0°-60° | 1446.8 | 75.5 |
| 0°-90° | 1917.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1917.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 652 | 652 | 652 | 652 | 652 | |
| 5° | 645 | 646 | 650 | 651 | 652 | 61 |
| 15° | 614 | 617 | 624 | 627 | 629 | 173 |
| 25° | 558 | 562 | 575 | 582 | 585 | 257 |
| 35° | 482 | 489 | 504 | 519 | 524 | 301 |
| 45° | 394 | 402 | 423 | 447 | 456 | 304 |
| 55° | 300 | 309 | 338 | 368 | 381 | 270 |
| 65° | 204 | 215 | 253 | 286 | 300 | 201 |
| 75° | 107 | 124 | 163 | 196 | 211 | 113 |
| 85° | 27 | 38 | 51 | 57 | 56 | 31 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 651.8 | 651.8 | 651.8 | 651.8 | 651.8 |
| 2.5° | 648.0 | 649.9 | 652.7 | 653.7 | 653.7 |
| 5° | 645.2 | 646.1 | 649.9 | 650.9 | 651.8 |
| 7.5° | 640.4 | 642.4 | 646.1 | 647.1 | 648.0 |
| 10° | 633.8 | 635.8 | 640.4 | 642.4 | 643.3 |
| 12.5° | 625.4 | 627.2 | 632.9 | 635.8 | 636.7 |
| 15° | 614.1 | 616.9 | 623.5 | 627.2 | 629.2 |
| 17.5° | 602.8 | 605.5 | 612.2 | 617.8 | 619.7 |
| 20° | 588.6 | 595.2 | 600.0 | 607.5 | 608.4 |
| 22.5° | 574.5 | 578.3 | 586.7 | 594.3 | 598.0 |
| 25° | 557.5 | 562.2 | 575.4 | 582.0 | 584.8 |
| 27.5° | 539.6 | 546.2 | 556.5 | 566.9 | 570.6 |
| 30° | 521.6 | 526.3 | 539.6 | 551.8 | 555.6 |
| 32.5° | 501.9 | 508.5 | 522.6 | 534.8 | 540.5 |
| 35° | 482.0 | 488.6 | 503.7 | 518.8 | 524.5 |
| 37.5° | 460.4 | 467.9 | 483.0 | 500.8 | 508.5 |
| 40° | 439.6 | 445.3 | 463.1 | 484.8 | 491.4 |
| 42.5° | 417.9 | 424.5 | 443.3 | 467.0 | 474.5 |
| 45° | 394.3 | 401.8 | 422.6 | 447.1 | 456.5 |
| 47.5° | 371.6 | 379.2 | 401.8 | 426.4 | 437.6 |
| 50° | 348.1 | 357.5 | 380.1 | 408.4 | 419.8 |
| 52.5° | 325.4 | 334.0 | 359.4 | 388.6 | 399.0 |
| 55° | 300.0 | 309.4 | 337.7 | 367.8 | 381.0 |
| 57.5° | 279.2 | 285.8 | 316.9 | 348.1 | 361.3 |
| 60° | 253.7 | 262.2 | 294.3 | 327.3 | 342.4 |
| 62.5° | 226.4 | 240.5 | 273.5 | 307.5 | 322.6 |
| 65° | 203.7 | 215.1 | 252.8 | 285.8 | 300.0 |
| 67.5° | 180.2 | 192.4 | 229.2 | 264.2 | 280.2 |
| 70° | 153.8 | 169.8 | 208.5 | 243.4 | 258.5 |
| 72.5° | 130.2 | 147.2 | 186.8 | 220.8 | 236.8 |
| 75° | 106.6 | 124.5 | 163.2 | 196.2 | 211.3 |
| 77.5° | 84.0 | 103.8 | 141.5 | 167.0 | 176.4 |
| 80° | 62.3 | 81.2 | 114.1 | 132.1 | 139.6 |
| 82.5° | 43.4 | 59.5 | 84.0 | 93.4 | 95.3 |
| 85° | 27.4 | 37.7 | 50.9 | 56.6 | 55.7 |
| 87.5° | 12.3 | 15.1 | 18.9 | 20.8 | 19.8 |
| 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)