

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: P731812

Luminaire Tested: **14CZ2-25-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-B2750-W2D-3000K
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

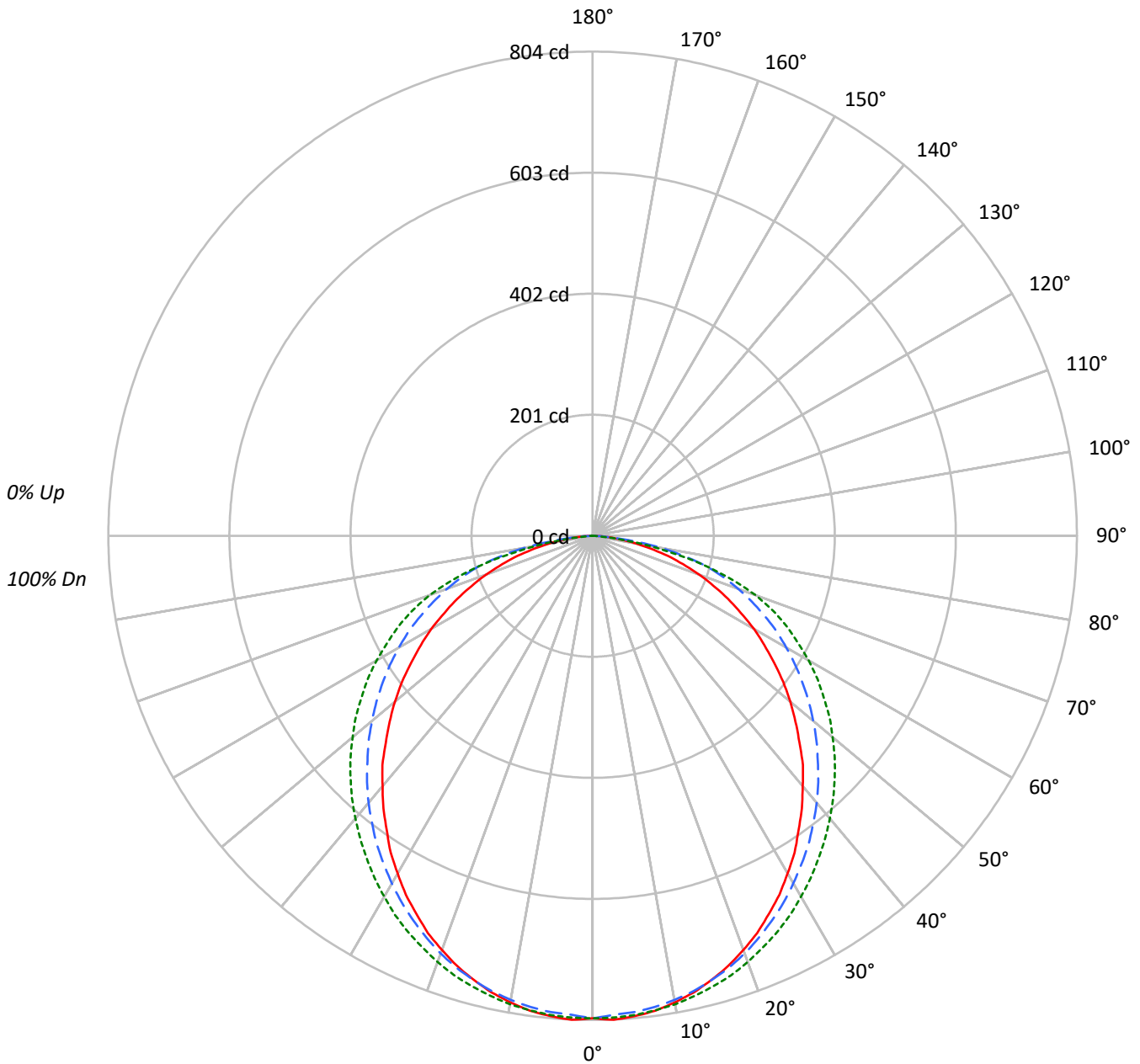
Lumens per Lamp: N/A
Luminaire Lumens: 2326.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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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CATALOG NUMBER: 14CZ2-25-B2750-W2D-3000K

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 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 90 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 54 | 79 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 37 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 24 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2262 | 2262 | 2262 |
| 5° | 2269 | 2250 | 2263 |
| 10° | 2255 | 2243 | 2264 |
| 15° | 2231 | 2232 | 2263 |
| 20° | 2198 | 2217 | 2262 |
| 25° | 2156 | 2195 | 2260 |
| 30° | 2110 | 2172 | 2255 |
| 35° | 2054 | 2154 | 2254 |
| 40° | 1999 | 2133 | 2257 |
| 45° | 1938 | 2110 | 2269 |
| 50° | 1881 | 2100 | 2284 |
| 55° | 1810 | 2093 | 2305 |
| 60° | 1745 | 2097 | 2337 |
| 65° | 1656 | 2103 | 2373 |
| 70° | 1554 | 2119 | 2371 |
| 75° | 1408 | 2138 | 2144 |
| 80° | 1156 | 1845 | 1525 |
| 85° | 855 | 874 | 353 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.8 | 3.3 |
| 10°-20° | 216.6 | 9.3 |
| 20°-30° | 326.3 | 14.0 |
| 30°-40° | 391.6 | 16.8 |
| 40°-50° | 408.1 | 17.5 |
| 50°-60° | 377.8 | 16.2 |
| 60°-70° | 305.3 | 13.1 |
| 70°-80° | 186.1 | 8.0 |
| 80°-90° | 38.4 | 1.7 |
| 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° | 618.7 | 26.6 |
| 0°-40° | 1010.3 | 43.4 |
| 0°-60° | 1796.2 | 77.2 |
| 0°-90° | 2326.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2326.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 801 | 801 | 801 | 801 | 801 | |
| 5° | 801 | 799 | 794 | 800 | 799 | 76 |
| 15° | 764 | 764 | 764 | 774 | 774 | 215 |
| 25° | 692 | 696 | 705 | 722 | 726 | 319 |
| 35° | 596 | 605 | 625 | 648 | 654 | 373 |
| 45° | 486 | 500 | 528 | 558 | 568 | 375 |
| 55° | 368 | 387 | 425 | 458 | 468 | 329 |
| 65° | 248 | 272 | 315 | 346 | 355 | 245 |
| 75° | 129 | 158 | 196 | 199 | 197 | 136 |
| 85° | 26 | 39 | 27 | 15 | 11 | 33 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P731812

CATALOG NUMBER: 14CZ2-25-B2750-W2D-3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 801.3 | 801.3 | 801.3 | 801.3 | 801.3 |
| 2.5° | 804.5 | 801.9 | 796.2 | 801.9 | 800.8 |
| 5° | 800.8 | 798.8 | 794.0 | 799.8 | 798.8 |
| 7.5° | 795.6 | 793.5 | 789.3 | 796.2 | 795.0 |
| 10° | 786.8 | 785.8 | 782.6 | 790.5 | 789.9 |
| 12.5° | 776.5 | 775.9 | 774.3 | 783.2 | 782.6 |
| 15° | 763.5 | 763.9 | 763.9 | 774.3 | 774.3 |
| 17.5° | 748.9 | 749.9 | 752.1 | 763.5 | 765.1 |
| 20° | 731.8 | 733.9 | 738.1 | 751.1 | 753.1 |
| 22.5° | 714.2 | 715.8 | 721.9 | 737.5 | 739.6 |
| 25° | 692.4 | 696.5 | 704.8 | 722.5 | 725.6 |
| 27.5° | 671.7 | 675.2 | 686.7 | 704.8 | 710.1 |
| 30° | 647.3 | 653.0 | 666.5 | 686.2 | 692.0 |
| 32.5° | 624.0 | 630.1 | 645.7 | 668.5 | 673.7 |
| 35° | 596.0 | 605.3 | 625.0 | 647.8 | 654.0 |
| 37.5° | 570.6 | 579.3 | 601.7 | 626.6 | 633.8 |
| 40° | 542.5 | 553.4 | 578.9 | 605.3 | 612.6 |
| 42.5° | 516.6 | 526.9 | 554.4 | 581.4 | 591.3 |
| 45° | 485.5 | 500.0 | 528.5 | 558.0 | 568.4 |
| 47.5° | 456.9 | 471.5 | 504.2 | 535.7 | 545.2 |
| 50° | 428.4 | 443.9 | 478.2 | 510.9 | 520.2 |
| 52.5° | 398.8 | 415.5 | 452.2 | 484.9 | 495.9 |
| 55° | 367.7 | 387.0 | 425.4 | 458.5 | 468.3 |
| 57.5° | 338.1 | 357.8 | 398.8 | 432.5 | 442.4 |
| 60° | 309.1 | 329.4 | 371.4 | 403.5 | 413.9 |
| 62.5° | 277.0 | 300.9 | 344.4 | 376.0 | 383.8 |
| 65° | 247.9 | 272.3 | 314.8 | 346.4 | 355.3 |
| 67.5° | 217.3 | 243.7 | 286.3 | 315.3 | 323.7 |
| 70° | 188.3 | 215.8 | 256.7 | 283.7 | 287.3 |
| 72.5° | 157.2 | 185.2 | 226.6 | 243.7 | 243.7 |
| 75° | 129.1 | 157.6 | 196.0 | 199.2 | 196.6 |
| 77.5° | 98.5 | 130.2 | 155.1 | 148.8 | 142.6 |
| 80° | 71.1 | 102.2 | 113.5 | 102.2 | 93.8 |
| 82.5° | 47.7 | 74.1 | 68.4 | 54.4 | 48.3 |
| 85° | 26.4 | 39.4 | 27.0 | 15.0 | 10.9 |
| 87.5° | 9.9 | 8.9 | 2.6 | 2.6 | 2.6 |
| 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)