

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: P731896

Luminaire Tested: **14CZ2-39-RDP-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-RDP-B2750-W2D-2700K
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

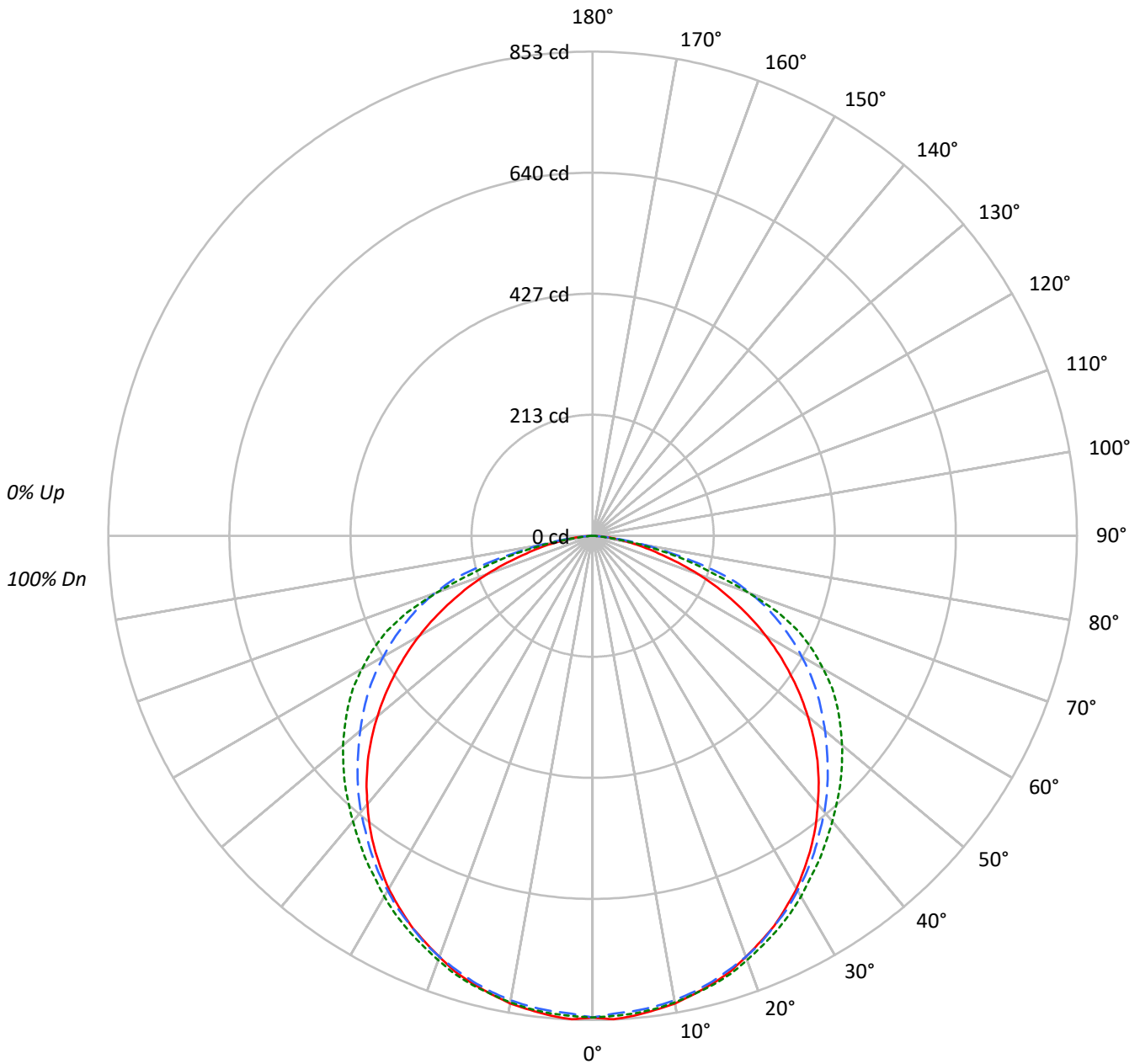
Lumens per Lamp: N/A
Luminaire Lumens: 2534.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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

TEST NUMBER: P731896

CATALOG NUMBER: 14CZ2-39-RDP-B2750-W2D-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P731896

CATALOG NUMBER: 14CZ2-39-RDP-B2750-W2D-2700K

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 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 | | | | | | | | | | | | | | | | | | | |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 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 | 50 | 42 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 41 | 35 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2396 | 2396 | 2396 |
| 5° | 2405 | 2382 | 2394 |
| 10° | 2398 | 2382 | 2393 |
| 15° | 2387 | 2376 | 2394 |
| 20° | 2371 | 2371 | 2389 |
| 25° | 2360 | 2360 | 2390 |
| 30° | 2341 | 2354 | 2392 |
| 35° | 2311 | 2346 | 2400 |
| 40° | 2274 | 2340 | 2421 |
| 45° | 2235 | 2338 | 2463 |
| 50° | 2172 | 2346 | 2519 |
| 55° | 2093 | 2376 | 2590 |
| 60° | 1988 | 2401 | 2648 |
| 65° | 1837 | 2431 | 2682 |
| 70° | 1633 | 2449 | 2399 |
| 75° | 1317 | 2201 | 1919 |
| 80° | 1029 | 1546 | 1253 |
| 85° | 706 | 447 | 321 |



TEST NUMBER: P731896

CATALOG NUMBER: 14CZ2-39-RDP-B2750-W2D-2700K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.3 | 3.2 |
| 10°-20° | 230.5 | 9.1 |
| 20°-30° | 350.9 | 13.8 |
| 30°-40° | 427.5 | 16.9 |
| 40°-50° | 453.5 | 17.9 |
| 50°-60° | 428.0 | 16.9 |
| 60°-70° | 345.6 | 13.6 |
| 70°-80° | 187.5 | 7.4 |
| 80°-90° | 30.3 | 1.2 |
| 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° | 661.7 | 26.1 |
| 0°-40° | 1089.2 | 43.0 |
| 0°-60° | 1970.6 | 77.8 |
| 0°-90° | 2534.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2534.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 849 | 849 | 849 | 849 | 849 | |
| 5° | 849 | 847 | 841 | 847 | 845 | 81 |
| 15° | 817 | 815 | 813 | 819 | 819 | 231 |
| 25° | 758 | 756 | 758 | 766 | 768 | 349 |
| 35° | 671 | 675 | 681 | 694 | 696 | 419 |
| 45° | 560 | 568 | 586 | 607 | 617 | 431 |
| 55° | 425 | 443 | 483 | 514 | 526 | 380 |
| 65° | 275 | 309 | 364 | 394 | 402 | 272 |
| 75° | 121 | 176 | 202 | 182 | 176 | 132 |
| 85° | 22 | 24 | 14 | 12 | 10 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P731896

CATALOG NUMBER: 14CZ2-39-RDP-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 848.7 | 848.7 | 848.7 | 848.7 | 848.7 |
| 2.5° | 852.6 | 848.7 | 842.6 | 848.7 | 846.8 |
| 5° | 848.7 | 846.8 | 840.7 | 846.8 | 844.8 |
| 7.5° | 842.6 | 842.6 | 836.8 | 840.7 | 840.7 |
| 10° | 836.8 | 834.9 | 831.0 | 836.8 | 834.9 |
| 12.5° | 826.9 | 824.9 | 823.0 | 828.8 | 826.9 |
| 15° | 816.9 | 815.0 | 813.1 | 819.1 | 819.1 |
| 17.5° | 805.1 | 803.1 | 801.2 | 809.2 | 809.2 |
| 20° | 789.3 | 789.3 | 789.3 | 797.3 | 795.4 |
| 22.5° | 773.5 | 773.5 | 775.5 | 783.5 | 781.5 |
| 25° | 757.8 | 755.8 | 757.8 | 765.5 | 767.5 |
| 27.5° | 737.9 | 739.8 | 741.8 | 749.8 | 751.7 |
| 30° | 718.3 | 720.2 | 722.1 | 732.1 | 734.0 |
| 32.5° | 694.5 | 698.4 | 702.2 | 714.1 | 714.1 |
| 35° | 670.7 | 674.6 | 680.7 | 694.5 | 696.4 |
| 37.5° | 645.0 | 648.9 | 656.9 | 672.7 | 676.5 |
| 40° | 617.1 | 623.2 | 635.1 | 650.8 | 656.9 |
| 42.5° | 589.5 | 597.5 | 611.3 | 629.0 | 637.0 |
| 45° | 559.9 | 567.7 | 585.6 | 607.4 | 617.1 |
| 47.5° | 528.1 | 538.1 | 559.9 | 587.5 | 595.6 |
| 50° | 494.7 | 508.5 | 534.2 | 563.8 | 573.7 |
| 52.5° | 461.0 | 476.7 | 508.5 | 540.0 | 550.0 |
| 55° | 425.3 | 443.0 | 482.8 | 514.3 | 526.2 |
| 57.5° | 389.7 | 409.6 | 454.9 | 488.6 | 500.5 |
| 60° | 352.1 | 375.9 | 425.3 | 459.0 | 469.0 |
| 62.5° | 314.5 | 342.2 | 395.7 | 429.2 | 437.2 |
| 65° | 275.0 | 308.7 | 364.0 | 393.8 | 401.6 |
| 67.5° | 237.4 | 276.9 | 332.5 | 354.0 | 354.0 |
| 70° | 197.9 | 241.3 | 296.8 | 302.6 | 290.7 |
| 72.5° | 158.3 | 207.8 | 257.3 | 235.5 | 225.5 |
| 75° | 120.8 | 176.0 | 201.8 | 182.1 | 176.0 |
| 77.5° | 90.9 | 142.3 | 142.3 | 130.5 | 126.6 |
| 80° | 63.3 | 108.9 | 95.1 | 83.2 | 77.1 |
| 82.5° | 41.5 | 61.3 | 49.5 | 39.5 | 33.7 |
| 85° | 21.8 | 23.8 | 13.8 | 11.9 | 9.9 |
| 87.5° | 8.0 | 3.9 | 1.9 | 3.9 | 1.9 |
| 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)