

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: P731864

Luminaire Tested: **14CZ2-35-B2750-W2D-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P731864
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: 14CZ2-35-B2750-W2D-4000K
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

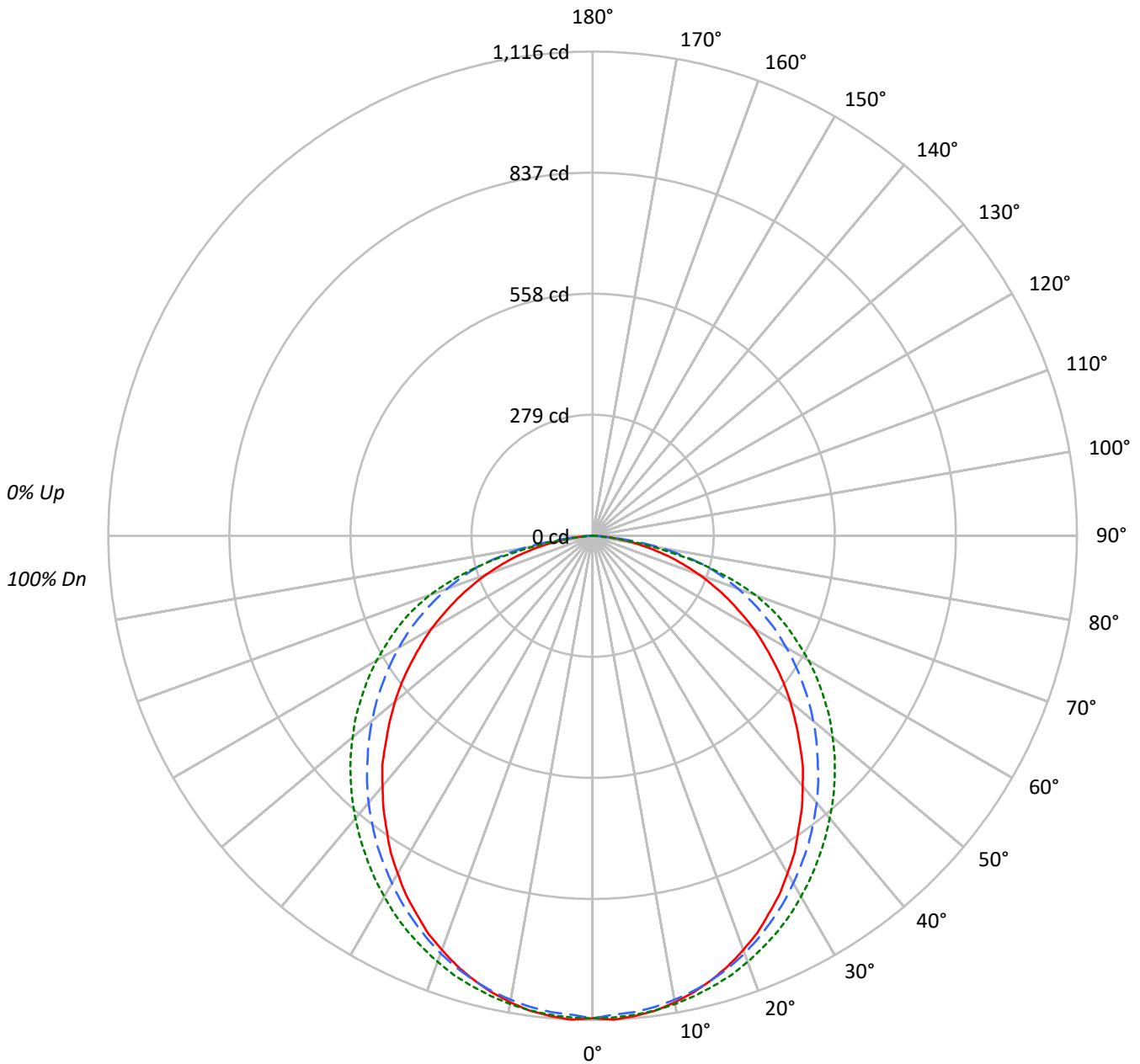
Lumens per Lamp: N/A
Luminaire Lumens: 3228.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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: 14CZ2-35-B2750-W2D-4000K

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° | 3139 | 3139 | 3139 |
| 5° | 3149 | 3122 | 3141 |
| 10° | 3130 | 3113 | 3142 |
| 15° | 3096 | 3098 | 3140 |
| 20° | 3051 | 3077 | 3139 |
| 25° | 2993 | 3046 | 3136 |
| 30° | 2928 | 3015 | 3130 |
| 35° | 2850 | 2989 | 3127 |
| 40° | 2774 | 2960 | 3132 |
| 45° | 2689 | 2928 | 3149 |
| 50° | 2611 | 2914 | 3170 |
| 55° | 2511 | 2905 | 3199 |
| 60° | 2422 | 2910 | 3243 |
| 65° | 2298 | 2918 | 3293 |
| 70° | 2157 | 2941 | 3290 |
| 75° | 1953 | 2968 | 2976 |
| 80° | 1604 | 2560 | 2116 |
| 85° | 1189 | 1214 | 489 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 105.2 | 3.3 |
| 10°-20° | 300.6 | 9.3 |
| 20°-30° | 452.8 | 14.0 |
| 30°-40° | 543.4 | 16.8 |
| 40°-50° | 566.4 | 17.5 |
| 50°-60° | 524.3 | 16.2 |
| 60°-70° | 423.6 | 13.1 |
| 70°-80° | 258.3 | 8.0 |
| 80°-90° | 53.3 | 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° | 858.7 | 26.6 |
| 0°-40° | 1402.1 | 43.4 |
| 0°-60° | 2492.8 | 77.2 |
| 0°-90° | 3228.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3228.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1112 | 1112 | 1112 | 1112 | 1112 | |
| 5° | 1111 | 1108 | 1102 | 1110 | 1108 | 105 |
| 15° | 1060 | 1060 | 1060 | 1075 | 1075 | 299 |
| 25° | 961 | 967 | 978 | 1003 | 1007 | 443 |
| 35° | 827 | 840 | 867 | 899 | 908 | 518 |
| 45° | 674 | 694 | 733 | 774 | 789 | 521 |
| 55° | 510 | 537 | 590 | 636 | 650 | 457 |
| 65° | 344 | 378 | 437 | 481 | 493 | 340 |
| 75° | 179 | 219 | 272 | 276 | 273 | 188 |
| 85° | 37 | 55 | 38 | 21 | 15 | 45 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P731864

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1112.1 | 1112.1 | 1112.1 | 1112.1 | 1112.1 |
| 2.5° | 1116.4 | 1112.9 | 1104.9 | 1112.9 | 1111.3 |
| 5° | 1111.3 | 1108.5 | 1102.0 | 1109.9 | 1108.5 |
| 7.5° | 1104.1 | 1101.2 | 1095.4 | 1104.9 | 1103.4 |
| 10° | 1091.9 | 1090.5 | 1086.1 | 1097.0 | 1096.2 |
| 12.5° | 1077.6 | 1076.8 | 1074.6 | 1086.9 | 1086.1 |
| 15° | 1059.6 | 1060.2 | 1060.2 | 1074.6 | 1074.6 |
| 17.5° | 1039.3 | 1040.7 | 1043.7 | 1059.6 | 1061.7 |
| 20° | 1015.6 | 1018.5 | 1024.3 | 1042.3 | 1045.1 |
| 22.5° | 991.2 | 993.4 | 1001.9 | 1023.5 | 1026.5 |
| 25° | 960.9 | 966.6 | 978.1 | 1002.7 | 1007.0 |
| 27.5° | 932.1 | 937.1 | 953.0 | 978.1 | 985.4 |
| 30° | 898.3 | 906.2 | 925.0 | 952.4 | 960.3 |
| 32.5° | 866.0 | 874.5 | 896.1 | 927.8 | 934.9 |
| 35° | 827.1 | 840.0 | 867.3 | 899.1 | 907.6 |
| 37.5° | 791.8 | 803.9 | 835.0 | 869.5 | 879.6 |
| 40° | 752.8 | 768.1 | 803.3 | 840.0 | 850.1 |
| 42.5° | 716.9 | 731.2 | 769.5 | 806.9 | 820.6 |
| 45° | 673.7 | 694.0 | 733.4 | 774.4 | 788.9 |
| 47.5° | 634.1 | 654.3 | 699.7 | 743.5 | 756.6 |
| 50° | 594.5 | 616.1 | 663.6 | 709.0 | 721.9 |
| 52.5° | 553.5 | 576.6 | 627.6 | 673.0 | 688.2 |
| 55° | 510.3 | 537.0 | 590.3 | 636.3 | 650.0 |
| 57.5° | 469.2 | 496.6 | 553.5 | 600.2 | 613.9 |
| 60° | 429.0 | 457.2 | 515.4 | 560.0 | 574.5 |
| 62.5° | 384.4 | 417.5 | 478.0 | 521.8 | 532.7 |
| 65° | 344.0 | 377.9 | 436.9 | 480.7 | 493.0 |
| 67.5° | 301.6 | 338.3 | 397.3 | 437.5 | 449.2 |
| 70° | 261.4 | 299.4 | 356.3 | 393.7 | 398.7 |
| 72.5° | 218.2 | 257.0 | 314.5 | 338.3 | 338.3 |
| 75° | 179.1 | 218.8 | 272.1 | 276.4 | 272.9 |
| 77.5° | 136.7 | 180.7 | 215.2 | 206.5 | 198.0 |
| 80° | 98.7 | 141.9 | 157.5 | 141.9 | 130.2 |
| 82.5° | 66.2 | 102.8 | 94.9 | 75.5 | 67.0 |
| 85° | 36.7 | 54.7 | 37.5 | 20.8 | 15.1 |
| 87.5° | 13.7 | 12.3 | 3.6 | 3.6 | 3.6 |
| 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)