

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: P732055

Luminaire Tested: **22CZ2-39HE-S-B2750-W2D-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732055
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: 22CZ2-39HE-S-B2750-W2D-5000K
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

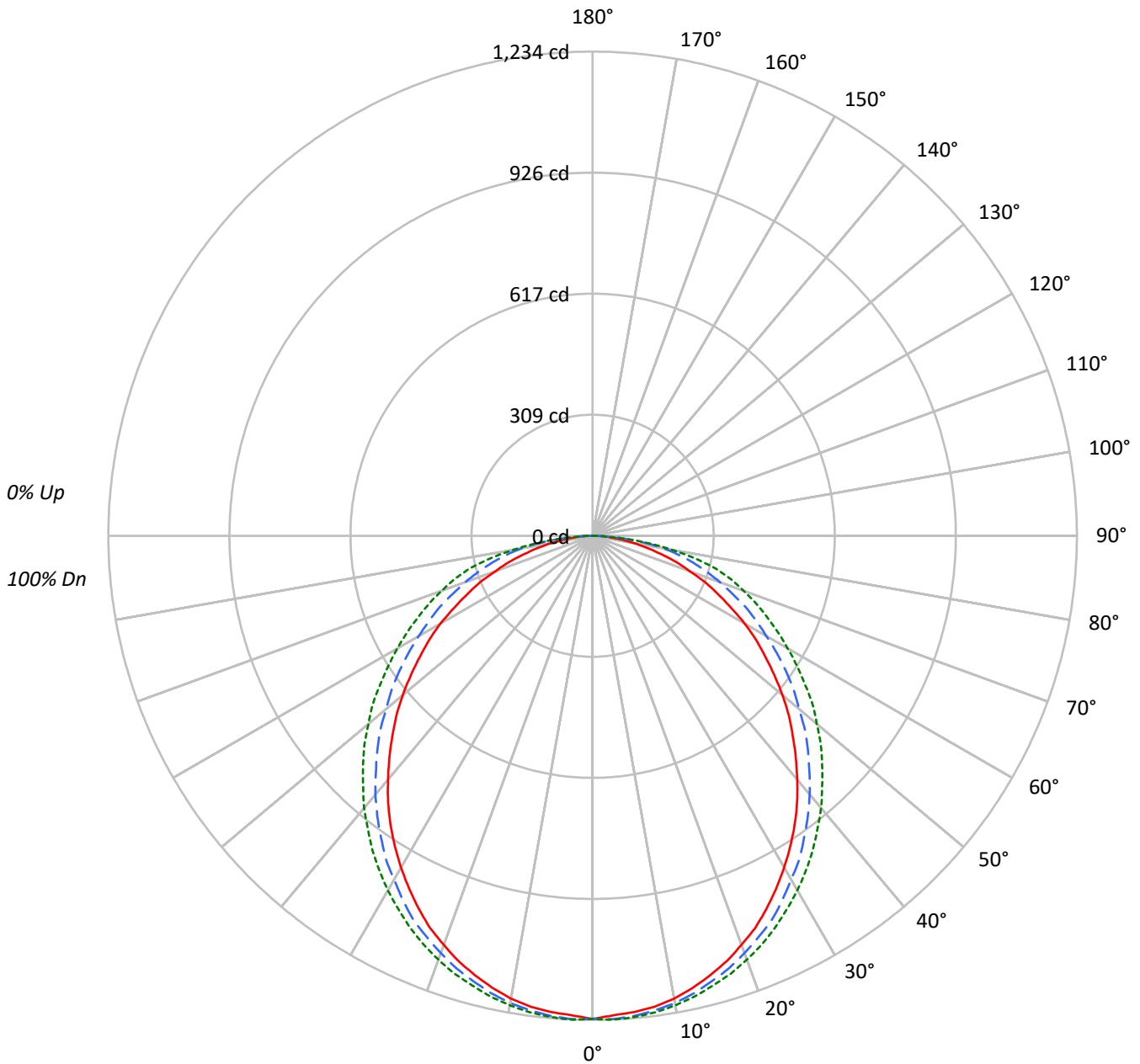
Lumens per Lamp: N/A
Luminaire Lumens: 3436.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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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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° | 3494 | 3494 | 3494 |
| 5° | 3471 | 3498 | 3507 |
| 10° | 3451 | 3483 | 3501 |
| 15° | 3405 | 3452 | 3485 |
| 20° | 3350 | 3417 | 3471 |
| 25° | 3283 | 3383 | 3448 |
| 30° | 3199 | 3315 | 3419 |
| 35° | 3110 | 3254 | 3388 |
| 40° | 3005 | 3189 | 3355 |
| 45° | 2895 | 3114 | 3320 |
| 50° | 2788 | 3029 | 3291 |
| 55° | 2657 | 2974 | 3268 |
| 60° | 2538 | 2902 | 3257 |
| 65° | 2369 | 2885 | 3293 |
| 70° | 2181 | 2860 | 3392 |
| 75° | 1968 | 2900 | 3569 |
| 80° | 1701 | 2987 | 3353 |
| 85° | 1410 | 2504 | 2504 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.4 | 3.4 |
| 10°-20° | 331.4 | 9.6 |
| 20°-30° | 495.8 | 14.4 |
| 30°-40° | 587.2 | 17.1 |
| 40°-50° | 598.4 | 17.4 |
| 50°-60° | 536.3 | 15.6 |
| 60°-70° | 419.9 | 12.2 |
| 70°-80° | 270.8 | 7.9 |
| 80°-90° | 80.0 | 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° | 943.6 | 27.5 |
| 0°-40° | 1530.7 | 44.5 |
| 0°-60° | 2665.4 | 77.6 |
| 0°-90° | 3436.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3436.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1231 | 1231 | 1231 | 1231 | 1231 | |
| 5° | 1218 | 1222 | 1228 | 1230 | 1231 | 116 |
| 15° | 1159 | 1166 | 1175 | 1185 | 1186 | 327 |
| 25° | 1048 | 1058 | 1080 | 1095 | 1101 | 483 |
| 35° | 898 | 909 | 940 | 968 | 978 | 561 |
| 45° | 721 | 737 | 776 | 816 | 827 | 557 |
| 55° | 537 | 555 | 601 | 643 | 660 | 482 |
| 65° | 353 | 373 | 430 | 471 | 490 | 350 |
| 75° | 180 | 207 | 264 | 310 | 326 | 193 |
| 85° | 43 | 59 | 77 | 77 | 77 | 51 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1231.2 | 1231.2 | 1231.2 | 1231.2 | 1231.2 |
| 2.5° | 1223.1 | 1226.4 | 1232.8 | 1234.5 | 1234.5 |
| 5° | 1218.5 | 1221.6 | 1228.0 | 1229.7 | 1231.2 |
| 7.5° | 1210.4 | 1211.9 | 1220.0 | 1223.1 | 1224.9 |
| 10° | 1197.6 | 1200.7 | 1208.8 | 1213.7 | 1215.2 |
| 12.5° | 1179.9 | 1184.7 | 1194.3 | 1200.7 | 1202.5 |
| 15° | 1159.2 | 1165.6 | 1175.0 | 1184.7 | 1186.4 |
| 17.5° | 1136.6 | 1143.1 | 1155.9 | 1167.1 | 1170.4 |
| 20° | 1109.3 | 1117.4 | 1131.7 | 1144.7 | 1149.5 |
| 22.5° | 1082.1 | 1088.5 | 1106.2 | 1122.3 | 1127.1 |
| 25° | 1048.5 | 1058.1 | 1080.5 | 1095.0 | 1101.4 |
| 27.5° | 1013.1 | 1024.3 | 1046.9 | 1066.1 | 1072.4 |
| 30° | 976.4 | 987.6 | 1011.6 | 1035.7 | 1043.6 |
| 32.5° | 937.8 | 950.7 | 979.5 | 1003.7 | 1011.6 |
| 35° | 897.8 | 909.0 | 939.5 | 968.3 | 978.0 |
| 37.5° | 856.1 | 865.7 | 901.1 | 931.4 | 941.1 |
| 40° | 811.2 | 824.0 | 860.9 | 896.2 | 905.7 |
| 42.5° | 766.2 | 780.7 | 817.6 | 856.1 | 865.7 |
| 45° | 721.4 | 737.4 | 775.9 | 816.1 | 827.3 |
| 47.5° | 678.1 | 690.9 | 734.3 | 772.8 | 788.8 |
| 50° | 631.6 | 644.5 | 686.2 | 729.5 | 745.5 |
| 52.5° | 583.5 | 601.2 | 646.0 | 687.8 | 706.9 |
| 55° | 537.1 | 554.7 | 601.2 | 643.0 | 660.5 |
| 57.5° | 493.8 | 508.1 | 556.2 | 599.5 | 617.3 |
| 60° | 447.2 | 460.2 | 511.4 | 558.0 | 574.0 |
| 62.5° | 397.6 | 416.7 | 469.7 | 512.9 | 532.3 |
| 65° | 352.8 | 373.4 | 429.7 | 471.4 | 490.5 |
| 67.5° | 311.0 | 330.2 | 384.8 | 429.7 | 450.5 |
| 70° | 262.9 | 288.6 | 344.7 | 389.5 | 408.8 |
| 72.5° | 224.5 | 246.9 | 304.7 | 349.5 | 370.4 |
| 75° | 179.5 | 206.7 | 264.5 | 309.5 | 325.5 |
| 77.5° | 142.8 | 170.0 | 224.5 | 259.7 | 267.8 |
| 80° | 104.1 | 131.4 | 182.8 | 200.3 | 205.2 |
| 82.5° | 70.5 | 96.2 | 131.4 | 136.2 | 137.9 |
| 85° | 43.3 | 59.3 | 76.9 | 76.9 | 76.9 |
| 87.5° | 20.9 | 24.0 | 27.2 | 25.7 | 25.7 |
| 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)