

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: P732063

Luminaire Tested: **22CZ2-44HE-B2750-W2D-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732063
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: 22CZ2-44HE-B2750-W2D-3500K
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

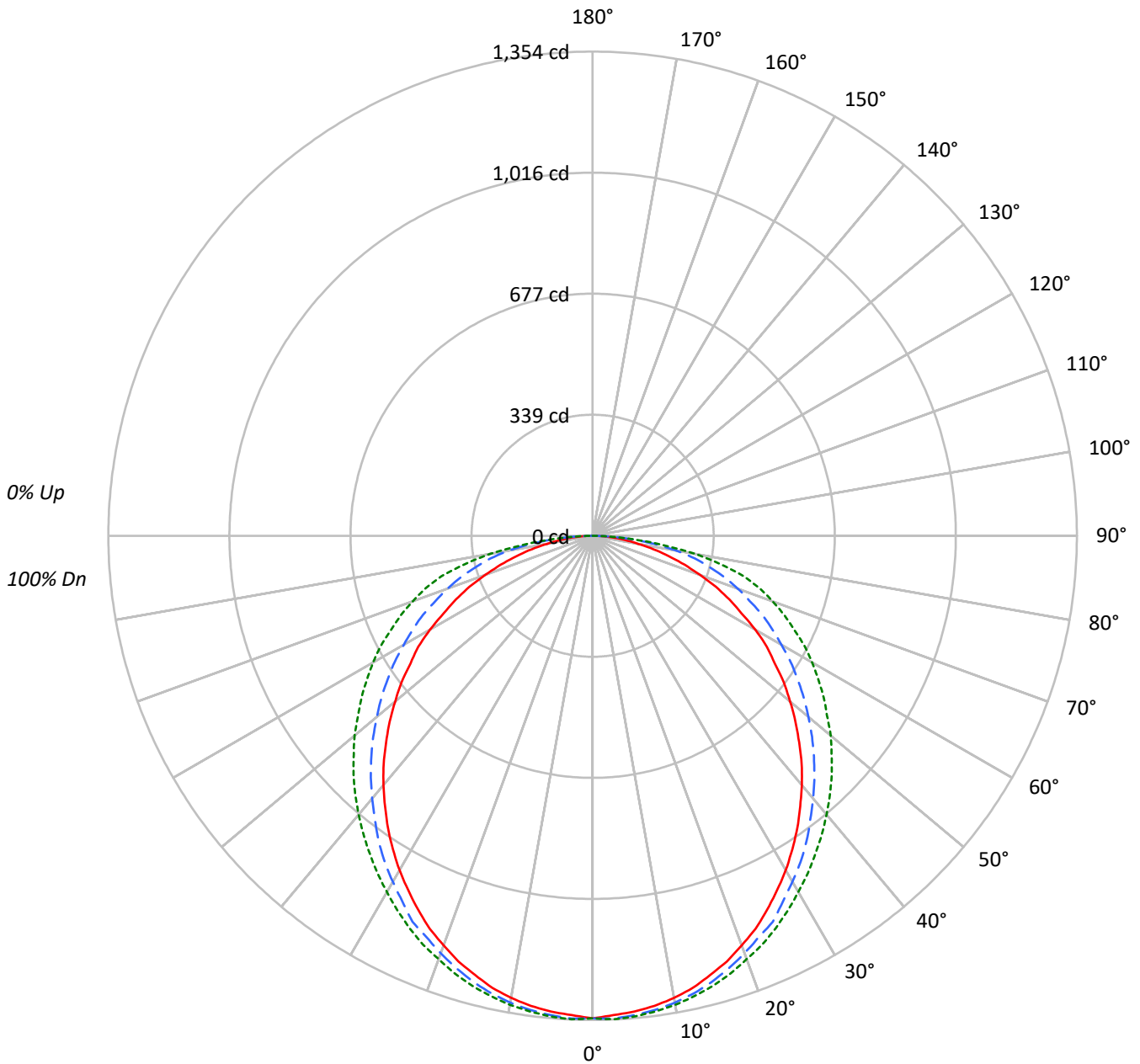
Lumens per Lamp: N/A
Luminaire Lumens: 3969.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 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° | 3829 | 3829 | 3829 |
| 5° | 3805 | 3832 | 3844 |
| 10° | 3781 | 3821 | 3837 |
| 15° | 3735 | 3792 | 3827 |
| 20° | 3680 | 3751 | 3804 |
| 25° | 3614 | 3730 | 3791 |
| 30° | 3539 | 3661 | 3769 |
| 35° | 3457 | 3612 | 3762 |
| 40° | 3371 | 3552 | 3769 |
| 45° | 3276 | 3511 | 3793 |
| 50° | 3181 | 3474 | 3837 |
| 55° | 3073 | 3459 | 3903 |
| 60° | 2981 | 3458 | 4023 |
| 65° | 2831 | 3514 | 4170 |
| 70° | 2642 | 3581 | 4440 |
| 75° | 2421 | 3706 | 4796 |
| 80° | 2108 | 3861 | 4722 |
| 85° | 1846 | 3432 | 3754 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.6 | 3.2 |
| 10°-20° | 363.5 | 9.2 |
| 20°-30° | 545.7 | 13.7 |
| 30°-40° | 652.1 | 16.4 |
| 40°-50° | 678.1 | 17.1 |
| 50°-60° | 628.5 | 15.8 |
| 60°-70° | 515.5 | 13.0 |
| 70°-80° | 348.5 | 8.8 |
| 80°-90° | 109.5 | 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° | 1036.9 | 26.1 |
| 0°-40° | 1688.9 | 42.6 |
| 0°-60° | 2995.5 | 75.5 |
| 0°-90° | 3969.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3969.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1350 | 1350 | 1350 | 1350 | 1350 | |
| 5° | 1336 | 1338 | 1346 | 1348 | 1350 | 127 |
| 15° | 1271 | 1277 | 1291 | 1299 | 1303 | 359 |
| 25° | 1154 | 1164 | 1191 | 1205 | 1211 | 532 |
| 35° | 998 | 1012 | 1043 | 1074 | 1086 | 624 |
| 45° | 816 | 832 | 875 | 926 | 945 | 630 |
| 55° | 621 | 641 | 699 | 762 | 789 | 558 |
| 65° | 422 | 445 | 523 | 592 | 621 | 417 |
| 75° | 221 | 258 | 338 | 406 | 438 | 234 |
| 85° | 57 | 78 | 105 | 117 | 115 | 64 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1349.5 | 1349.5 | 1349.5 | 1349.5 | 1349.5 |
| 2.5° | 1341.7 | 1345.5 | 1351.4 | 1353.5 | 1353.5 |
| 5° | 1335.8 | 1337.7 | 1345.5 | 1347.6 | 1349.5 |
| 7.5° | 1326.0 | 1330.0 | 1337.7 | 1339.8 | 1341.7 |
| 10° | 1312.3 | 1316.3 | 1326.0 | 1330.0 | 1331.8 |
| 12.5° | 1294.9 | 1298.7 | 1310.4 | 1316.3 | 1318.2 |
| 15° | 1271.4 | 1277.2 | 1290.9 | 1298.7 | 1302.7 |
| 17.5° | 1248.1 | 1253.7 | 1267.6 | 1279.1 | 1283.1 |
| 20° | 1218.6 | 1232.3 | 1242.2 | 1257.7 | 1259.6 |
| 22.5° | 1189.5 | 1197.2 | 1214.6 | 1230.4 | 1238.2 |
| 25° | 1154.2 | 1164.0 | 1191.3 | 1205.0 | 1210.9 |
| 27.5° | 1117.2 | 1130.9 | 1152.3 | 1173.7 | 1181.5 |
| 30° | 1080.0 | 1089.7 | 1117.2 | 1142.4 | 1150.4 |
| 32.5° | 1039.1 | 1052.7 | 1081.9 | 1107.3 | 1119.1 |
| 35° | 997.9 | 1011.5 | 1042.8 | 1074.1 | 1085.9 |
| 37.5° | 953.2 | 968.7 | 1000.0 | 1037.0 | 1052.7 |
| 40° | 910.1 | 921.9 | 958.8 | 1003.8 | 1017.4 |
| 42.5° | 865.1 | 878.8 | 917.9 | 966.8 | 982.4 |
| 45° | 816.4 | 832.0 | 875.0 | 925.6 | 945.2 |
| 47.5° | 769.4 | 785.1 | 832.0 | 882.8 | 906.1 |
| 50° | 720.6 | 740.2 | 787.0 | 845.6 | 869.1 |
| 52.5° | 673.8 | 691.5 | 744.2 | 804.7 | 826.1 |
| 55° | 621.1 | 640.6 | 699.2 | 761.6 | 788.9 |
| 57.5° | 578.0 | 591.7 | 656.2 | 720.6 | 747.9 |
| 60° | 525.3 | 543.0 | 609.3 | 677.6 | 708.9 |
| 62.5° | 468.8 | 498.0 | 566.3 | 636.6 | 667.9 |
| 65° | 421.7 | 445.3 | 523.4 | 591.7 | 621.1 |
| 67.5° | 373.0 | 398.4 | 474.5 | 547.0 | 580.1 |
| 70° | 318.4 | 351.6 | 431.6 | 503.9 | 535.2 |
| 72.5° | 269.5 | 304.8 | 386.7 | 457.1 | 490.2 |
| 75° | 220.8 | 257.7 | 338.0 | 406.2 | 437.5 |
| 77.5° | 173.9 | 214.9 | 293.0 | 345.7 | 365.3 |
| 80° | 129.0 | 168.0 | 236.3 | 273.5 | 289.0 |
| 82.5° | 89.9 | 123.1 | 173.9 | 193.5 | 197.2 |
| 85° | 56.7 | 78.1 | 105.4 | 117.2 | 115.3 |
| 87.5° | 25.4 | 31.3 | 39.1 | 43.1 | 41.0 |
| 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)