

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: P732345

Luminaire Tested: **24CZ2-55HE-HRP-B2750-W2D-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-HRP-B2750-W2D-5000K
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

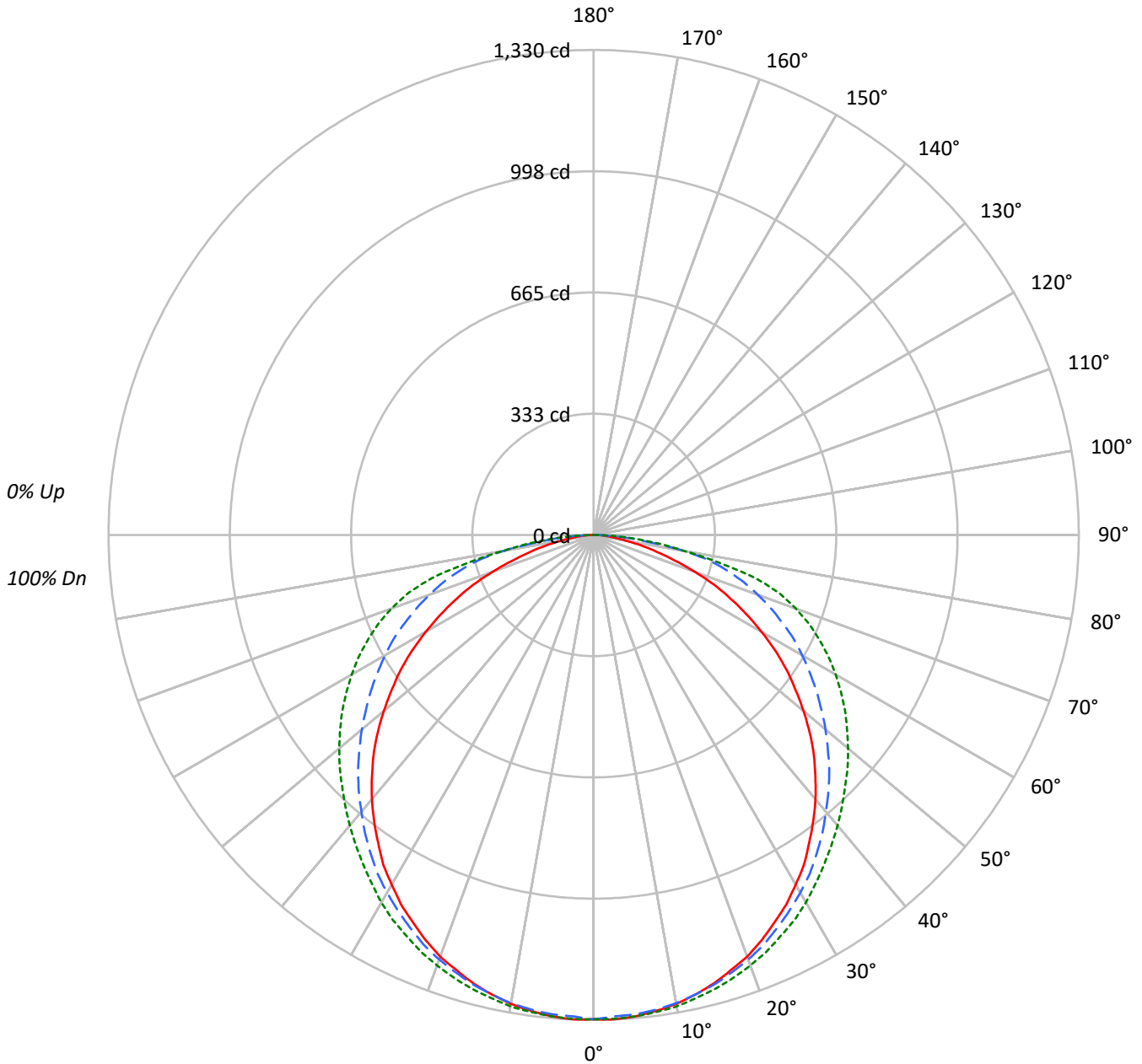
Lumens per Lamp: N/A
Luminaire Lumens: 4094.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 42
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 | 98 | 94 | 105 | 101 | 96 | 93 | 96 | 93 | 90 | 92 | 90 | 87 | 89 | 86 | 84 | 82 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 80 | 75 | 83 | 78 | 73 | 80 | 75 | 71 | 77 | 73 | 70 | 67 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 64 | 59 | 68 | 63 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 4 | 81 | 68 | 59 | 52 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | 62 | 56 | 50 | 60 | 54 | 50 | 48 | | | | | | | | | | | | | | | | | | | |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 41 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 38 | 36 | | | | | | | | | | | | | | | | | | | |
| 7 | 63 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 24 | 35 | 29 | 24 | 23 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1875 | 1875 | 1875 |
| 5° | 1877 | 1870 | 1877 |
| 10° | 1872 | 1869 | 1882 |
| 15° | 1861 | 1866 | 1883 |
| 20° | 1848 | 1861 | 1887 |
| 25° | 1826 | 1852 | 1890 |
| 30° | 1805 | 1846 | 1896 |
| 35° | 1775 | 1837 | 1899 |
| 40° | 1743 | 1825 | 1917 |
| 45° | 1704 | 1823 | 1946 |
| 50° | 1648 | 1822 | 1998 |
| 55° | 1590 | 1834 | 2071 |
| 60° | 1500 | 1862 | 2162 |
| 65° | 1385 | 1906 | 2284 |
| 70° | 1209 | 1973 | 2433 |
| 75° | 982 | 2075 | 2514 |
| 80° | 723 | 2034 | 2034 |
| 85° | 555 | 1500 | 1692 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 125.8 | 3.1 |
| 10°-20° | 361.3 | 8.8 |
| 20°-30° | 550.1 | 13.4 |
| 30°-40° | 667.9 | 16.3 |
| 40°-50° | 705.7 | 17.2 |
| 50°-60° | 665.9 | 16.3 |
| 60°-70° | 553.7 | 13.5 |
| 70°-80° | 364.3 | 8.9 |
| 80°-90° | 99.3 | 2.4 |
| 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° | 1037.3 | 25.3 |
| 0°-40° | 1705.2 | 41.7 |
| 0°-60° | 3076.8 | 75.2 |
| 0°-90° | 4094.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4094.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1328 | 1328 | 1328 | 1328 | 1328 | |
| 5° | 1325 | 1325 | 1320 | 1325 | 1325 | 126 |
| 15° | 1274 | 1275 | 1277 | 1289 | 1289 | 359 |
| 25° | 1172 | 1179 | 1190 | 1210 | 1214 | 541 |
| 35° | 1030 | 1042 | 1066 | 1094 | 1102 | 645 |
| 45° | 854 | 871 | 914 | 958 | 975 | 657 |
| 55° | 646 | 674 | 746 | 816 | 842 | 576 |
| 65° | 415 | 463 | 571 | 655 | 684 | 410 |
| 75° | 180 | 262 | 380 | 451 | 461 | 194 |
| 85° | 34 | 76 | 93 | 103 | 104 | 42 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732345

CATALOG NUMBER: 24CZ2-55HE-HRP-B2750-W2D-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1328.4 | 1328.4 | 1328.4 | 1328.4 | 1328.4 |
| 2.5° | 1330.0 | 1328.4 | 1321.4 | 1328.4 | 1328.4 |
| 5° | 1325.0 | 1325.0 | 1319.7 | 1325.0 | 1325.0 |
| 7.5° | 1316.3 | 1316.3 | 1312.9 | 1319.7 | 1319.7 |
| 10° | 1306.1 | 1306.1 | 1304.2 | 1312.9 | 1312.9 |
| 12.5° | 1290.6 | 1292.3 | 1290.6 | 1300.8 | 1300.8 |
| 15° | 1273.5 | 1275.2 | 1276.8 | 1288.9 | 1288.9 |
| 17.5° | 1251.2 | 1254.6 | 1258.0 | 1271.8 | 1273.5 |
| 20° | 1230.6 | 1232.3 | 1239.1 | 1254.6 | 1256.3 |
| 22.5° | 1203.1 | 1208.4 | 1216.9 | 1232.3 | 1237.4 |
| 25° | 1172.4 | 1179.1 | 1189.5 | 1210.1 | 1213.5 |
| 27.5° | 1143.1 | 1148.4 | 1162.0 | 1184.2 | 1191.2 |
| 30° | 1107.3 | 1115.8 | 1132.9 | 1155.2 | 1163.7 |
| 32.5° | 1072.9 | 1081.4 | 1102.0 | 1126.1 | 1132.9 |
| 35° | 1030.1 | 1042.0 | 1066.2 | 1093.5 | 1102.0 |
| 37.5° | 989.0 | 1000.9 | 1030.1 | 1060.9 | 1071.2 |
| 40° | 946.0 | 959.8 | 990.7 | 1026.7 | 1040.3 |
| 42.5° | 899.8 | 918.6 | 953.0 | 992.4 | 1007.9 |
| 45° | 853.6 | 870.7 | 913.5 | 958.1 | 975.2 |
| 47.5° | 803.8 | 824.3 | 870.7 | 923.7 | 944.3 |
| 50° | 750.8 | 776.4 | 829.6 | 887.9 | 910.2 |
| 52.5° | 697.6 | 726.6 | 786.6 | 851.9 | 875.8 |
| 55° | 646.1 | 673.6 | 745.5 | 815.8 | 841.5 |
| 57.5° | 589.7 | 623.8 | 702.6 | 778.1 | 803.8 |
| 60° | 531.4 | 569.1 | 659.8 | 738.7 | 766.0 |
| 62.5° | 473.1 | 515.9 | 618.7 | 697.6 | 726.6 |
| 65° | 414.8 | 462.7 | 570.8 | 654.7 | 683.8 |
| 67.5° | 358.2 | 411.4 | 526.1 | 610.2 | 639.3 |
| 70° | 293.1 | 359.9 | 478.2 | 560.4 | 589.7 |
| 72.5° | 233.2 | 310.3 | 432.0 | 509.1 | 534.8 |
| 75° | 180.0 | 262.2 | 380.5 | 450.8 | 461.0 |
| 77.5° | 132.1 | 214.3 | 327.3 | 351.4 | 353.1 |
| 80° | 89.0 | 171.5 | 250.3 | 246.7 | 250.3 |
| 82.5° | 58.3 | 128.4 | 157.7 | 176.6 | 178.3 |
| 85° | 34.3 | 75.5 | 92.6 | 102.8 | 104.5 |
| 87.5° | 17.2 | 25.6 | 32.6 | 34.3 | 37.7 |
| 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)