

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: P732180

Luminaire Tested: **24CZ2-35HE-S-B2750-W2D-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-S-B2750-W2D-5000K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

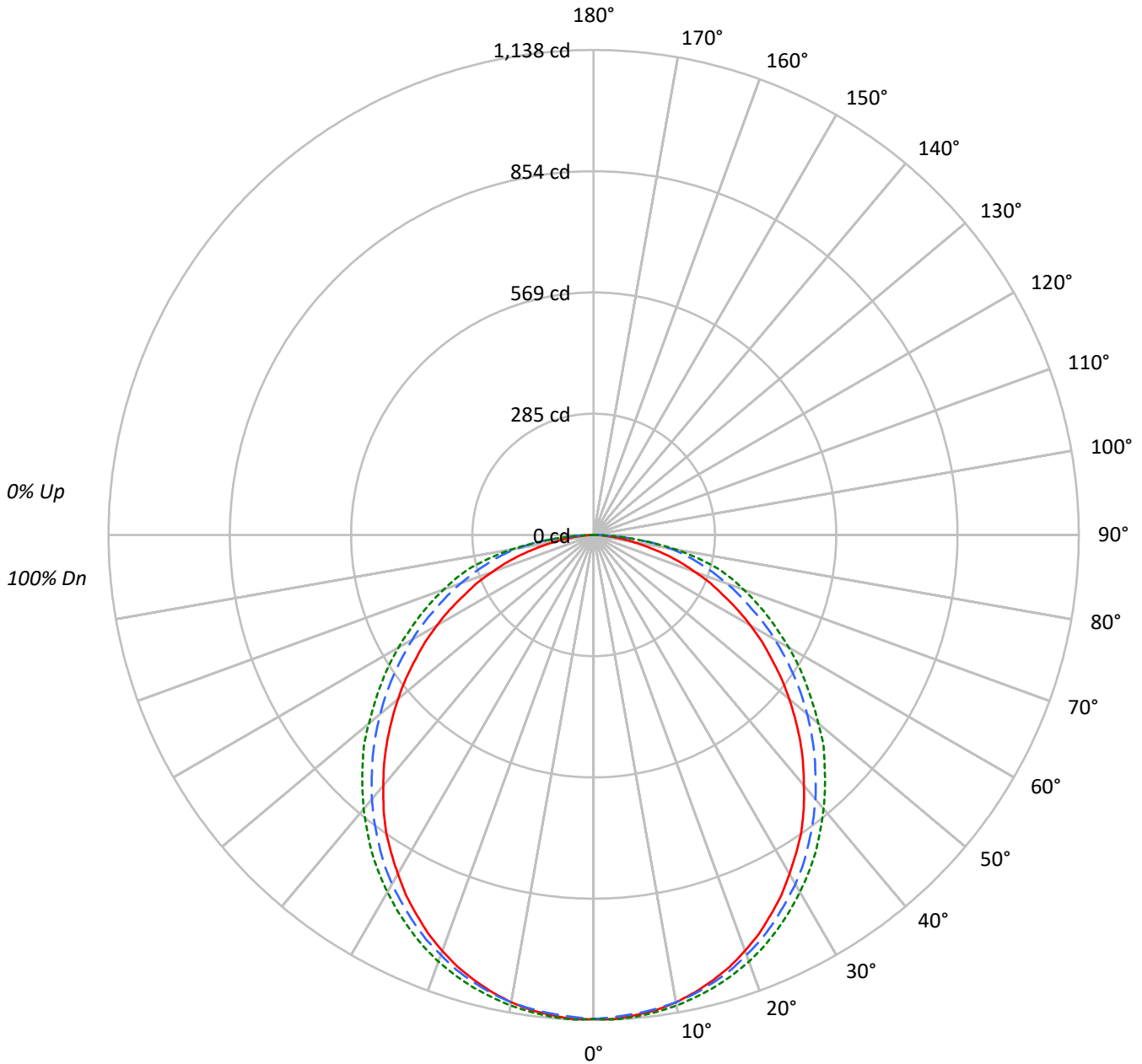
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3234.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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

TEST NUMBER: P732180
CATALOG NUMBER: 24CZ2-35HE-S-B2750-W2D-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P732180

CATALOG NUMBER: 24CZ2-35HE-S-B2750-W2D-5000K

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 | 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 | 93 | 97 | 93 | 90 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 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 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | | | | | | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 | | | | | | | | | | | | |
| 6 | 70 | 56 | 47 | 40 | 68 | 55 | 47 | 40 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 | | | | | | | | | | | | |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 33 | | | | | | | | | | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | | | | | | | | | | | | |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 26 | | | | | | | | | | | | |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1604 | 1604 | 1604 |
| 5° | 1602 | 1598 | 1608 |
| 10° | 1596 | 1596 | 1608 |
| 15° | 1581 | 1588 | 1605 |
| 20° | 1560 | 1575 | 1600 |
| 25° | 1531 | 1560 | 1590 |
| 30° | 1497 | 1542 | 1577 |
| 35° | 1464 | 1517 | 1565 |
| 40° | 1414 | 1491 | 1546 |
| 45° | 1368 | 1462 | 1530 |
| 50° | 1315 | 1435 | 1511 |
| 55° | 1256 | 1408 | 1497 |
| 60° | 1198 | 1386 | 1493 |
| 65° | 1122 | 1362 | 1502 |
| 70° | 1038 | 1369 | 1543 |
| 75° | 930 | 1395 | 1630 |
| 80° | 752 | 1478 | 1595 |
| 85° | 565 | 1297 | 1265 |



TEST NUMBER: P732180

CATALOG NUMBER: 24CZ2-35HE-S-B2750-W2D-5000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.6 | 3.3 |
| 10°-20° | 307.3 | 9.5 |
| 20°-30° | 462.0 | 14.3 |
| 30°-40° | 550.3 | 17.0 |
| 40°-50° | 563.2 | 17.4 |
| 50°-60° | 507.1 | 15.7 |
| 60°-70° | 398.2 | 12.3 |
| 70°-80° | 258.4 | 8.0 |
| 80°-90° | 79.9 | 2.5 |
| 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° | 876.9 | 27.1 |
| 0°-40° | 1427.2 | 44.1 |
| 0°-60° | 2497.5 | 77.2 |
| 0°-90° | 3234.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3234.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1136 | 1136 | 1136 | 1136 | 1136 | |
| 5° | 1131 | 1133 | 1128 | 1134 | 1135 | 107 |
| 15° | 1082 | 1085 | 1087 | 1096 | 1098 | 305 |
| 25° | 983 | 991 | 1002 | 1018 | 1021 | 453 |
| 35° | 850 | 860 | 880 | 902 | 908 | 530 |
| 45° | 685 | 702 | 732 | 760 | 766 | 528 |
| 55° | 510 | 533 | 572 | 602 | 608 | 458 |
| 65° | 336 | 362 | 408 | 442 | 450 | 334 |
| 75° | 171 | 203 | 256 | 291 | 299 | 180 |
| 85° | 35 | 65 | 80 | 78 | 78 | 42 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732180

CATALOG NUMBER: 24CZ2-35HE-S-B2750-W2D-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------------|---------------|---------------|---------------|---------------|
| 0° | 1136.2 | 1136.2 | 1136.2 | 1136.2 | <i>1136.2</i> |
| 2.5° | <i>1137.2</i> | <i>1137.2</i> | <i>1132.0</i> | <i>1137.2</i> | <i>1138.2</i> |
| 5° | 1131.0 | 1133.1 | 1127.9 | 1134.1 | <i>1135.1</i> |
| 7.5° | 1124.8 | 1124.8 | 1121.7 | 1127.9 | <i>1129.0</i> |
| 10° | 1113.5 | 1114.5 | 1113.5 | 1120.7 | <i>1121.7</i> |
| 12.5° | 1099.2 | 1101.2 | 1102.3 | 1109.4 | <i>1110.4</i> |
| 15° | 1081.7 | 1084.8 | 1086.8 | 1096.1 | <i>1098.2</i> |
| 17.5° | 1062.2 | 1065.3 | 1070.3 | 1080.6 | <i>1082.7</i> |
| 20° | 1038.5 | 1042.6 | 1048.8 | 1062.2 | <i>1065.3</i> |
| 22.5° | 1012.9 | 1017.0 | 1027.3 | 1039.5 | <i>1044.7</i> |
| 25° | 983.1 | 991.2 | 1001.5 | 1018.0 | <i>1021.1</i> |
| 27.5° | 953.3 | 960.4 | 973.8 | 991.2 | <i>995.5</i> |
| 30° | 918.3 | 929.6 | 946.1 | 963.5 | <i>967.6</i> |
| 32.5° | 884.4 | 895.7 | 915.3 | 933.8 | <i>938.9</i> |
| 35° | 849.5 | 859.8 | 880.4 | 901.9 | <i>908.1</i> |
| 37.5° | 809.4 | 822.8 | 845.5 | 867.0 | <i>873.2</i> |
| 40° | 767.4 | 783.8 | 809.4 | 832.1 | <i>839.3</i> |
| 42.5° | 727.3 | 744.7 | 770.4 | 795.1 | <i>803.2</i> |
| 45° | 685.2 | 701.6 | 732.5 | 760.2 | <i>766.4</i> |
| 47.5° | 642.0 | 660.5 | 693.3 | 721.1 | <i>731.3</i> |
| 50° | 598.9 | 618.5 | 653.4 | 682.1 | <i>688.3</i> |
| 52.5° | 555.7 | 576.3 | 613.3 | 644.1 | <i>647.2</i> |
| 55° | 510.5 | 533.2 | 572.2 | 602.0 | <i>608.2</i> |
| 57.5° | 469.4 | 489.0 | 531.1 | 561.9 | <i>569.1</i> |
| 60° | 424.3 | 445.8 | 491.0 | 519.8 | <i>529.0</i> |
| 62.5° | 381.1 | 403.7 | 451.0 | 479.7 | <i>487.9</i> |
| 65° | 335.9 | 361.6 | 407.8 | 441.7 | <i>449.9</i> |
| 67.5° | 296.9 | 321.5 | 370.8 | 403.7 | <i>411.9</i> |
| 70° | 251.6 | 279.5 | 331.8 | 365.7 | <i>373.9</i> |
| 72.5° | 212.6 | 241.3 | 293.8 | 326.6 | <i>339.0</i> |
| 75° | 170.6 | 203.3 | 255.8 | 290.7 | <i>298.9</i> |
| 77.5° | 129.5 | 167.5 | 220.8 | 247.5 | <i>247.5</i> |
| 80° | 92.5 | 132.6 | 181.8 | 194.2 | <i>196.2</i> |
| 82.5° | 60.6 | 99.6 | 134.5 | 133.5 | <i>133.5</i> |
| 85° | 34.9 | 64.7 | 80.1 | 78.1 | <i>78.1</i> |
| 87.5° | 13.4 | 26.7 | 28.7 | 28.7 | <i>27.7</i> |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | <i>0.0</i> |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)