

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: P732030

Luminaire Tested: **22CZ2-34HE-S-B2750-W2D-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732030
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: 22CZ2-34HE-S-B2750-W2D-5000K
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

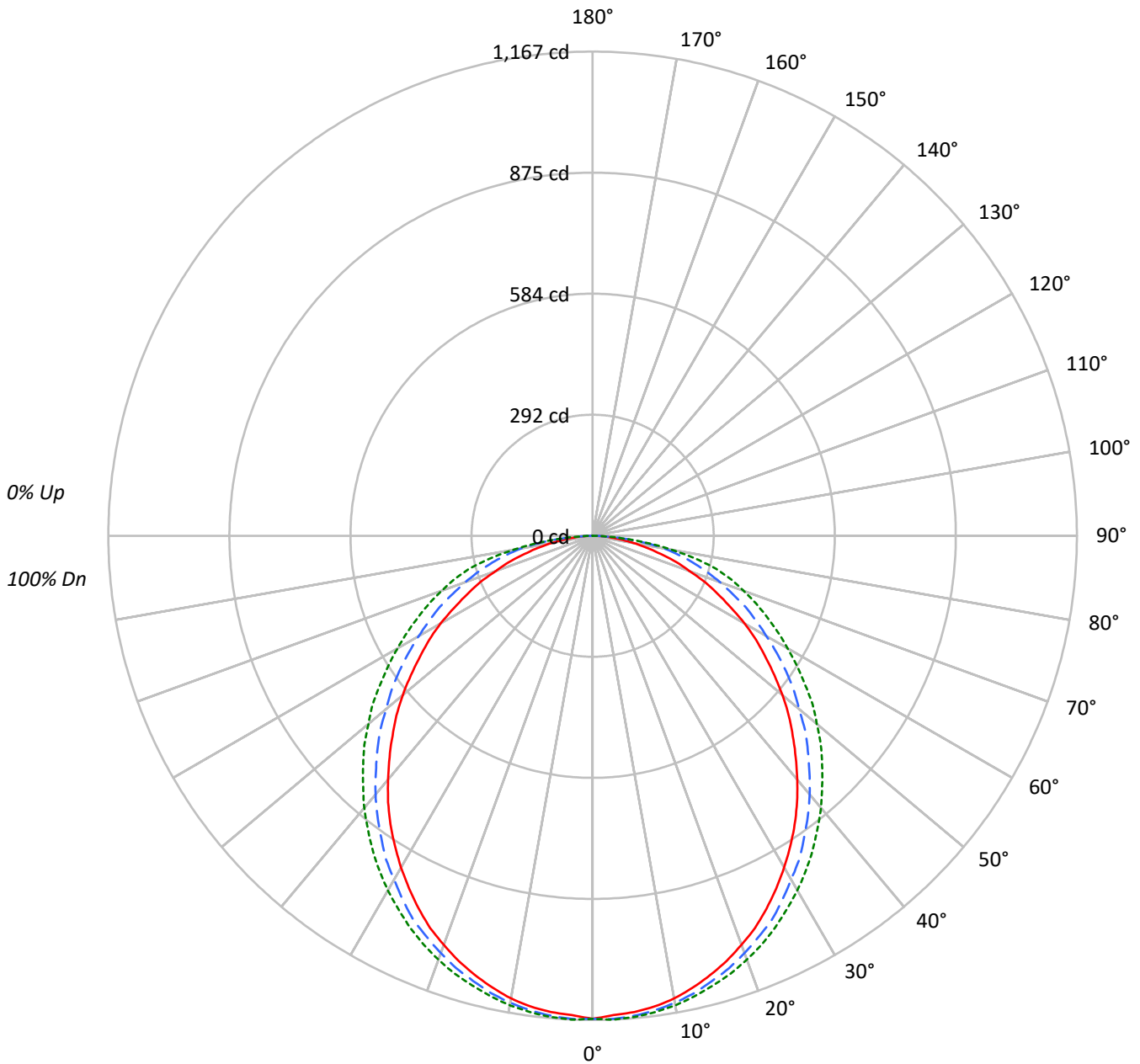
Lumens per Lamp: N/A
Luminaire Lumens: 3249.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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 | | | | 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 | | | | 100 |
| 1 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | | | | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 | | | | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 52 | 49 | | | | 49 |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 | | | | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 | | | | 37 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 33 | | | | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 31 | 30 | | | | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 28 | 27 | | | | 27 |
| 10 | 53 | 40 | 32 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 | | | | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3303 | 3303 | 3303 |
| 5° | 3282 | 3307 | 3316 |
| 10° | 3263 | 3293 | 3311 |
| 15° | 3220 | 3264 | 3295 |
| 20° | 3168 | 3232 | 3282 |
| 25° | 3104 | 3199 | 3261 |
| 30° | 3025 | 3134 | 3233 |
| 35° | 2941 | 3077 | 3203 |
| 40° | 2841 | 3015 | 3172 |
| 45° | 2737 | 2944 | 3139 |
| 50° | 2636 | 2865 | 3112 |
| 55° | 2513 | 2812 | 3090 |
| 60° | 2400 | 2744 | 3080 |
| 65° | 2240 | 2728 | 3114 |
| 70° | 2062 | 2704 | 3207 |
| 75° | 1860 | 2742 | 3375 |
| 80° | 1610 | 2824 | 3170 |
| 85° | 1332 | 2367 | 2367 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.1 | 3.4 |
| 10°-20° | 313.3 | 9.6 |
| 20°-30° | 468.8 | 14.4 |
| 30°-40° | 555.2 | 17.1 |
| 40°-50° | 565.8 | 17.4 |
| 50°-60° | 507.1 | 15.6 |
| 60°-70° | 397.0 | 12.2 |
| 70°-80° | 256.0 | 7.9 |
| 80°-90° | 75.6 | 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° | 892.2 | 27.5 |
| 0°-40° | 1447.4 | 44.5 |
| 0°-60° | 2520.3 | 77.6 |
| 0°-90° | 3249.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3249.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1164 | 1164 | 1164 | 1164 | 1164 | |
| 5° | 1152 | 1155 | 1161 | 1163 | 1164 | 109 |
| 15° | 1096 | 1102 | 1111 | 1120 | 1122 | 309 |
| 25° | 991 | 1000 | 1022 | 1035 | 1042 | 456 |
| 35° | 849 | 860 | 888 | 916 | 925 | 531 |
| 45° | 682 | 697 | 734 | 772 | 782 | 527 |
| 55° | 508 | 524 | 568 | 608 | 625 | 455 |
| 65° | 334 | 353 | 406 | 446 | 464 | 331 |
| 75° | 170 | 196 | 250 | 293 | 308 | 182 |
| 85° | 41 | 56 | 73 | 73 | 73 | 48 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1164.2 | 1164.2 | 1164.2 | 1164.2 | 1164.2 |
| 2.5° | 1156.6 | 1159.7 | 1165.7 | 1167.3 | 1167.3 |
| 5° | 1152.2 | 1155.1 | 1161.1 | 1162.8 | 1164.2 |
| 7.5° | 1144.5 | 1146.0 | 1153.6 | 1156.6 | 1158.2 |
| 10° | 1132.4 | 1135.4 | 1143.0 | 1147.6 | 1149.1 |
| 12.5° | 1115.6 | 1120.2 | 1129.3 | 1135.4 | 1137.0 |
| 15° | 1096.1 | 1102.1 | 1111.1 | 1120.2 | 1121.8 |
| 17.5° | 1074.7 | 1080.9 | 1093.0 | 1103.6 | 1106.7 |
| 20° | 1049.0 | 1056.6 | 1070.2 | 1082.4 | 1087.0 |
| 22.5° | 1023.2 | 1029.2 | 1046.0 | 1061.2 | 1065.8 |
| 25° | 991.4 | 1000.5 | 1021.7 | 1035.4 | 1041.5 |
| 27.5° | 958.0 | 968.6 | 990.0 | 1008.0 | 1014.1 |
| 30° | 923.3 | 933.9 | 956.5 | 979.4 | 986.8 |
| 32.5° | 886.7 | 899.0 | 926.2 | 949.0 | 956.5 |
| 35° | 848.9 | 859.5 | 888.4 | 915.6 | 924.7 |
| 37.5° | 809.5 | 818.6 | 852.0 | 880.7 | 889.8 |
| 40° | 767.1 | 779.1 | 814.0 | 847.5 | 856.4 |
| 42.5° | 724.5 | 738.2 | 773.1 | 809.5 | 818.6 |
| 45° | 682.1 | 697.3 | 733.7 | 771.6 | 782.2 |
| 47.5° | 641.2 | 653.3 | 694.4 | 730.7 | 745.9 |
| 50° | 597.2 | 609.4 | 648.9 | 689.8 | 705.0 |
| 52.5° | 551.7 | 568.5 | 610.9 | 650.3 | 668.4 |
| 55° | 507.9 | 524.5 | 568.5 | 608.0 | 624.6 |
| 57.5° | 466.9 | 480.5 | 525.9 | 566.9 | 583.7 |
| 60° | 422.9 | 435.1 | 483.6 | 527.6 | 542.7 |
| 62.5° | 376.0 | 394.0 | 444.1 | 485.0 | 503.3 |
| 65° | 333.6 | 353.1 | 406.3 | 445.7 | 463.8 |
| 67.5° | 294.1 | 312.2 | 363.9 | 406.3 | 426.0 |
| 70° | 248.6 | 272.9 | 325.9 | 368.3 | 386.6 |
| 72.5° | 212.3 | 233.5 | 288.1 | 330.5 | 350.2 |
| 75° | 169.7 | 195.5 | 250.1 | 292.7 | 307.8 |
| 77.5° | 135.0 | 160.8 | 212.3 | 245.5 | 253.2 |
| 80° | 98.5 | 124.2 | 172.8 | 189.4 | 194.0 |
| 82.5° | 66.7 | 91.0 | 124.2 | 128.8 | 130.4 |
| 85° | 40.9 | 56.1 | 72.7 | 72.7 | 72.7 |
| 87.5° | 19.7 | 22.7 | 25.8 | 24.3 | 24.3 |
| 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)