

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: P731985

Luminaire Tested: **22CZ2-24HE-SQR-B2750-W2D-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387672)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-SQR-B2750-W2D-5000K
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

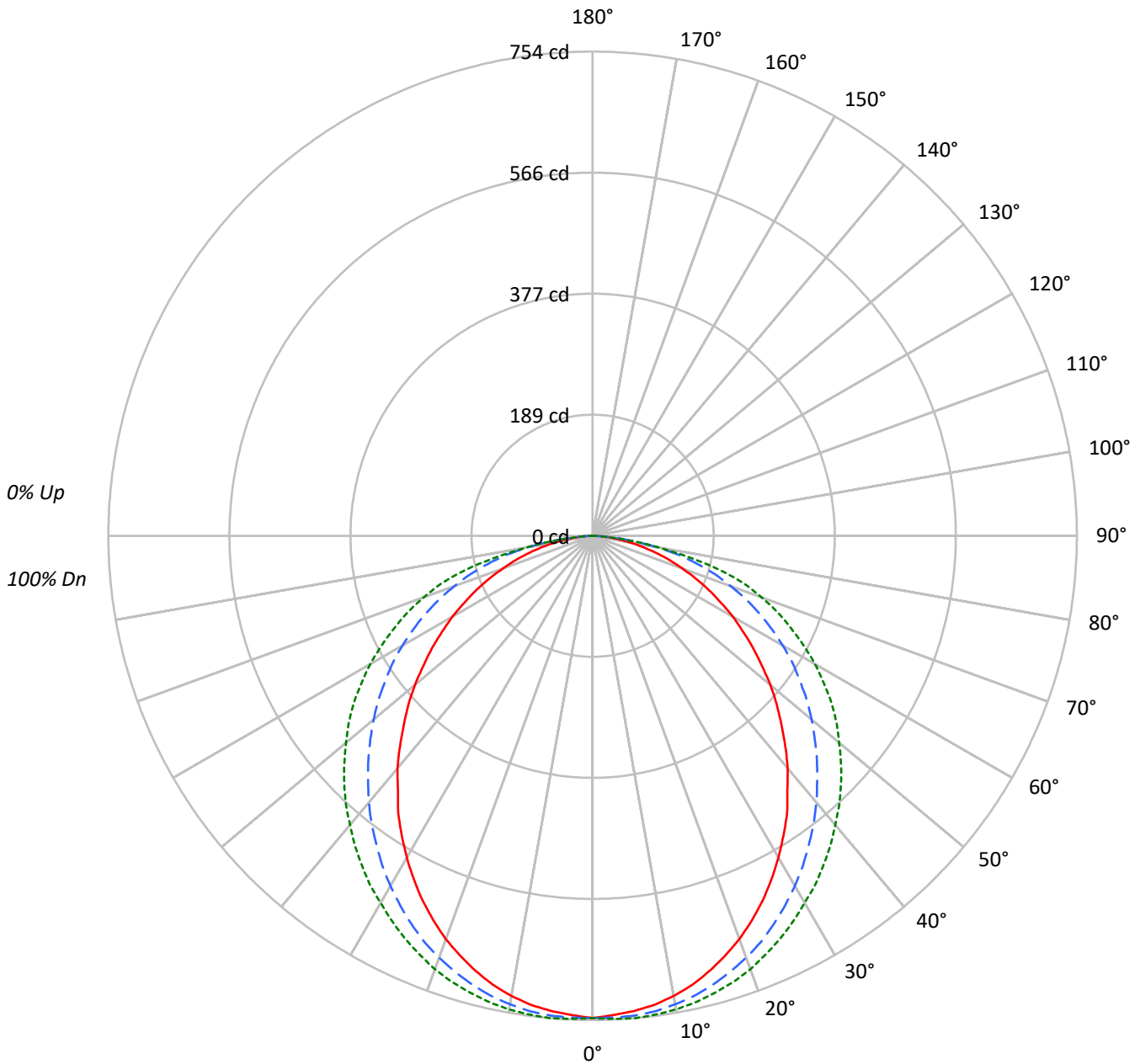
Lumens per Lamp: N/A
Luminaire Lumens: 2150.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 85 | 83 | | | | | | | | |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 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 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 43 | | | | | | | | |
| 6 | 70 | 56 | 47 | 41 | 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° | 2131 | 2131 | 2131 |
| 5° | 2116 | 2136 | 2148 |
| 10° | 2096 | 2134 | 2158 |
| 15° | 2062 | 2125 | 2164 |
| 20° | 2018 | 2111 | 2169 |
| 25° | 1961 | 2089 | 2166 |
| 30° | 1896 | 2063 | 2163 |
| 35° | 1828 | 2033 | 2170 |
| 40° | 1750 | 2007 | 2177 |
| 45° | 1667 | 1982 | 2195 |
| 50° | 1594 | 1964 | 2212 |
| 55° | 1510 | 1949 | 2246 |
| 60° | 1431 | 1940 | 2270 |
| 65° | 1336 | 1926 | 2288 |
| 70° | 1228 | 1897 | 2320 |
| 75° | 1108 | 1846 | 2238 |
| 80° | 951 | 1634 | 1685 |
| 85° | 765 | 967 | 765 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.2 | 3.3 |
| 10°-20° | 203.6 | 9.5 |
| 20°-30° | 305.7 | 14.2 |
| 30°-40° | 364.6 | 17.0 |
| 40°-50° | 377.0 | 17.5 |
| 50°-60° | 346.6 | 16.1 |
| 60°-70° | 275.9 | 12.8 |
| 70°-80° | 168.6 | 7.8 |
| 80°-90° | 36.7 | 1.7 |
| 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° | 580.5 | 27.0 |
| 0°-40° | 945.1 | 44.0 |
| 0°-60° | 1668.8 | 77.6 |
| 0°-90° | 2150.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2150.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 751 | 751 | 751 | 751 | 751 | |
| 5° | 743 | 745 | 750 | 753 | 754 | 70 |
| 15° | 702 | 710 | 724 | 734 | 737 | 198 |
| 25° | 626 | 642 | 667 | 686 | 692 | 288 |
| 35° | 528 | 550 | 587 | 617 | 626 | 329 |
| 45° | 415 | 445 | 494 | 534 | 547 | 321 |
| 55° | 305 | 339 | 394 | 439 | 454 | 273 |
| 65° | 199 | 233 | 287 | 326 | 341 | 197 |
| 75° | 101 | 131 | 168 | 198 | 204 | 108 |
| 85° | 24 | 29 | 30 | 26 | 24 | 27 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 22CZ2-24HE-SQR-B2750-W2D-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 751.0 | 751.0 | 751.0 | 751.0 | 751.0 |
| 2.5° | 746.9 | 748.0 | 751.0 | 753.0 | 753.0 |
| 5° | 742.8 | 744.9 | 750.0 | 753.0 | 754.1 |
| 7.5° | 736.7 | 739.8 | 746.9 | 751.0 | 752.1 |
| 10° | 727.6 | 731.7 | 740.8 | 746.9 | 748.9 |
| 12.5° | 716.3 | 722.4 | 733.7 | 741.9 | 743.9 |
| 15° | 702.0 | 710.2 | 723.5 | 733.7 | 736.7 |
| 17.5° | 685.7 | 695.9 | 712.2 | 724.5 | 728.5 |
| 20° | 668.4 | 678.6 | 699.0 | 713.3 | 718.3 |
| 22.5° | 648.0 | 661.2 | 684.7 | 701.1 | 705.1 |
| 25° | 626.5 | 641.9 | 667.3 | 685.7 | 691.8 |
| 27.5° | 603.1 | 621.5 | 648.9 | 671.4 | 676.6 |
| 30° | 578.6 | 597.9 | 629.6 | 654.1 | 660.2 |
| 32.5° | 553.0 | 575.5 | 609.2 | 636.7 | 644.9 |
| 35° | 527.6 | 550.0 | 586.8 | 617.4 | 626.5 |
| 37.5° | 497.9 | 524.5 | 565.3 | 597.0 | 608.1 |
| 40° | 472.5 | 497.9 | 541.9 | 576.6 | 587.7 |
| 42.5° | 443.9 | 471.4 | 517.4 | 555.1 | 568.4 |
| 45° | 415.4 | 444.9 | 493.9 | 533.7 | 546.9 |
| 47.5° | 388.8 | 418.3 | 469.4 | 511.3 | 524.5 |
| 50° | 361.2 | 391.8 | 444.9 | 487.7 | 501.1 |
| 52.5° | 331.7 | 365.3 | 420.4 | 463.2 | 478.6 |
| 55° | 305.2 | 338.8 | 393.9 | 438.8 | 454.1 |
| 57.5° | 277.5 | 312.2 | 369.4 | 412.2 | 426.5 |
| 60° | 252.1 | 285.7 | 341.9 | 383.7 | 400.0 |
| 62.5° | 224.5 | 259.2 | 314.3 | 355.1 | 370.5 |
| 65° | 199.0 | 232.6 | 286.8 | 326.5 | 340.8 |
| 67.5° | 173.5 | 207.2 | 258.2 | 295.9 | 312.2 |
| 70° | 148.0 | 181.6 | 228.6 | 265.3 | 279.6 |
| 72.5° | 125.6 | 155.1 | 200.0 | 233.7 | 246.9 |
| 75° | 101.1 | 130.6 | 168.4 | 197.9 | 204.1 |
| 77.5° | 78.6 | 105.2 | 136.7 | 150.1 | 152.1 |
| 80° | 58.2 | 78.6 | 100.0 | 103.1 | 103.1 |
| 82.5° | 38.8 | 54.1 | 62.3 | 63.3 | 62.3 |
| 85° | 23.5 | 28.6 | 29.7 | 25.6 | 23.5 |
| 87.5° | 8.2 | 8.2 | 5.2 | 3.1 | 1.1 |
| 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)