

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: P732019

Luminaire Tested: **22CZ2-34HE-HRP-B2750-W2D-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294823)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-HRP-B2750-W2D-4000K
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

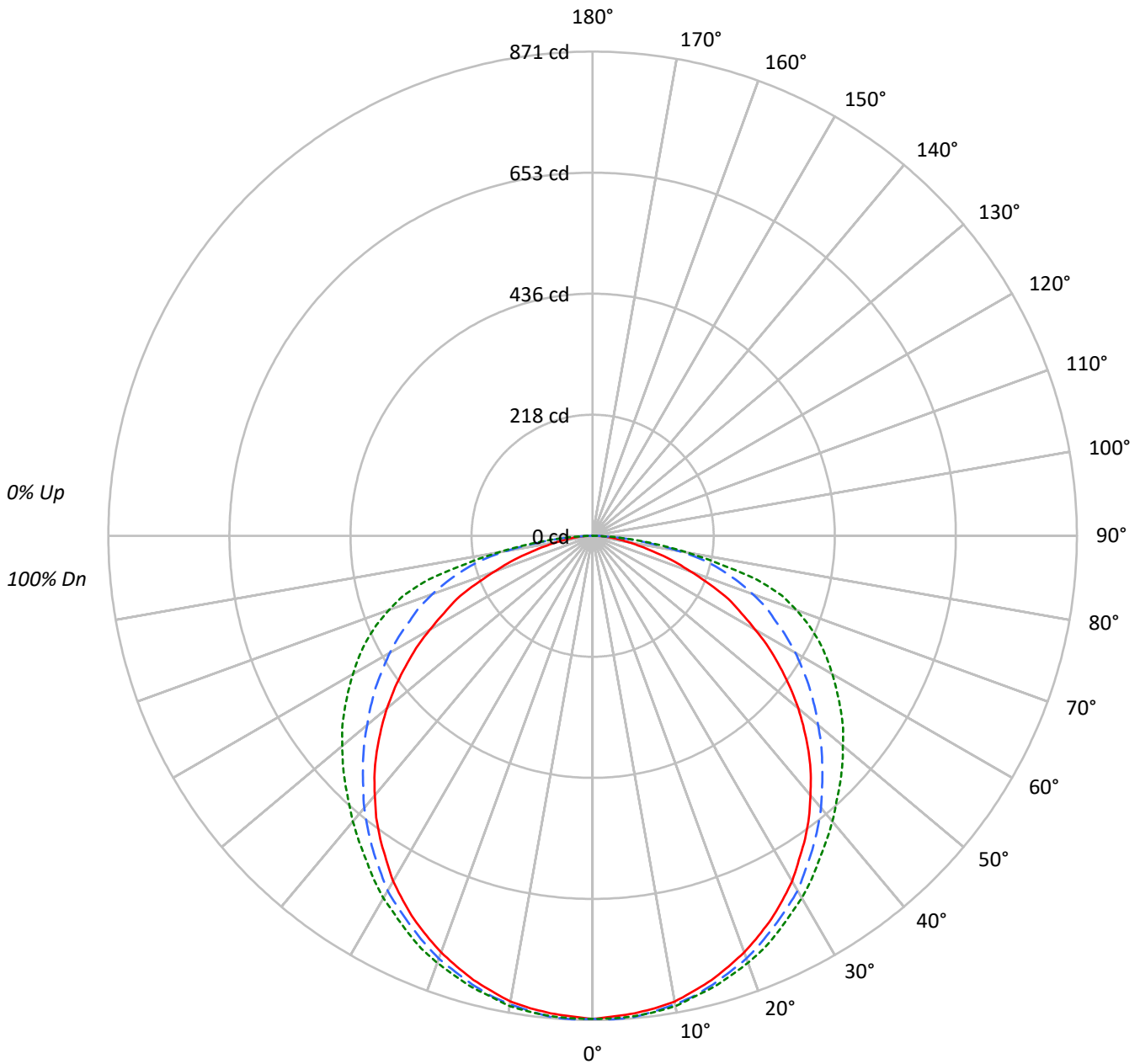
Lumens per Lamp: N/A
Luminaire Lumens: 2639.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 30
Input Voltage (V): NR
Input Current (Ain): 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: P732019

CATALOG NUMBER: 22CZ2-34HE-HRP-B2750-W2D-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P732019

CATALOG NUMBER: 22CZ2-34HE-HRP-B2750-W2D-4000K

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 | 87 | 84 | 82 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 80 | 75 | 84 | 78 | 73 | 80 | 75 | 71 | 77 | 73 | 70 | 68 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 56 | | | | | | | | | | | | | | | | | | | |
| 4 | 81 | 69 | 59 | 52 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | 62 | 56 | 51 | 60 | 55 | 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 | 39 | 50 | 43 | 38 | 49 | 43 | 38 | 36 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 8 | 59 | 45 | 37 | 31 | 58 | 45 | 36 | 31 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 9 | 55 | 42 | 33 | 28 | 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 | 25 | 35 | 29 | 24 | 23 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2466 | 2466 | 2466 |
| 5° | 2456 | 2475 | 2471 |
| 10° | 2451 | 2466 | 2475 |
| 15° | 2431 | 2455 | 2469 |
| 20° | 2408 | 2443 | 2469 |
| 25° | 2382 | 2424 | 2465 |
| 30° | 2351 | 2416 | 2466 |
| 35° | 2307 | 2387 | 2462 |
| 40° | 2257 | 2368 | 2485 |
| 45° | 2205 | 2344 | 2525 |
| 50° | 2131 | 2337 | 2594 |
| 55° | 2035 | 2356 | 2693 |
| 60° | 1918 | 2390 | 2824 |
| 65° | 1811 | 2437 | 3018 |
| 70° | 1546 | 2541 | 3231 |
| 75° | 1296 | 2647 | 3358 |
| 80° | 1061 | 2557 | 2801 |
| 85° | 925 | 1898 | 2058 |



TEST NUMBER: P732019

CATALOG NUMBER: 22CZ2-34HE-HRP-B2750-W2D-4000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.4 | 3.1 |
| 10°-20° | 235.6 | 8.9 |
| 20°-30° | 357.0 | 13.5 |
| 30°-40° | 431.1 | 16.3 |
| 40°-50° | 453.0 | 17.2 |
| 50°-60° | 426.3 | 16.2 |
| 60°-70° | 355.4 | 13.5 |
| 70°-80° | 235.5 | 8.9 |
| 80°-90° | 62.8 | 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° | 675.0 | 25.6 |
| 0°-40° | 1106.1 | 41.9 |
| 0°-60° | 1985.4 | 75.2 |
| 0°-90° | 2639.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2639.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 869 | 869 | 869 | 869 | 869 | |
| 5° | 862 | 864 | 869 | 869 | 867 | 82 |
| 15° | 827 | 831 | 836 | 839 | 841 | 233 |
| 25° | 761 | 766 | 774 | 784 | 787 | 350 |
| 35° | 666 | 672 | 689 | 704 | 711 | 416 |
| 45° | 549 | 558 | 584 | 614 | 629 | 423 |
| 55° | 411 | 430 | 476 | 524 | 544 | 368 |
| 65° | 270 | 293 | 363 | 423 | 450 | 262 |
| 75° | 118 | 165 | 241 | 291 | 306 | 128 |
| 85° | 28 | 43 | 58 | 63 | 63 | 33 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732019

CATALOG NUMBER: 22CZ2-34HE-HRP-B2750-W2D-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 869.0 | 869.0 | 869.0 | 869.0 | 869.0 |
| 2.5° | 865.7 | 867.4 | 870.7 | 870.7 | 869.0 |
| 5° | 862.4 | 863.9 | 869.0 | 869.0 | 867.4 |
| 7.5° | 857.3 | 859.1 | 862.4 | 865.7 | 863.9 |
| 10° | 850.7 | 852.3 | 855.8 | 859.1 | 859.1 |
| 12.5° | 839.0 | 840.6 | 847.4 | 848.9 | 848.9 |
| 15° | 827.4 | 830.7 | 835.7 | 839.0 | 840.6 |
| 17.5° | 812.4 | 815.7 | 822.3 | 829.1 | 829.1 |
| 20° | 797.4 | 800.7 | 809.1 | 815.7 | 817.5 |
| 22.5° | 779.2 | 784.0 | 792.4 | 800.7 | 804.1 |
| 25° | 760.7 | 765.8 | 774.1 | 784.0 | 787.3 |
| 27.5° | 739.1 | 744.2 | 755.9 | 767.5 | 769.1 |
| 30° | 717.6 | 722.4 | 737.4 | 747.5 | 752.5 |
| 32.5° | 690.9 | 697.5 | 712.5 | 727.5 | 732.5 |
| 35° | 665.9 | 672.5 | 689.2 | 704.2 | 710.8 |
| 37.5° | 639.2 | 645.8 | 664.3 | 682.6 | 690.9 |
| 40° | 609.3 | 617.7 | 639.2 | 659.3 | 670.9 |
| 42.5° | 580.9 | 589.3 | 610.9 | 637.7 | 649.2 |
| 45° | 549.4 | 557.6 | 584.2 | 614.4 | 629.3 |
| 47.5° | 516.0 | 526.1 | 557.6 | 594.3 | 609.3 |
| 50° | 482.8 | 494.4 | 529.4 | 571.0 | 587.7 |
| 52.5° | 447.8 | 462.8 | 502.8 | 547.7 | 567.7 |
| 55° | 411.3 | 429.5 | 476.2 | 524.4 | 544.4 |
| 57.5° | 376.3 | 392.8 | 447.8 | 499.5 | 521.1 |
| 60° | 338.0 | 359.6 | 421.2 | 474.4 | 497.7 |
| 62.5° | 301.3 | 324.6 | 392.8 | 449.5 | 474.4 |
| 65° | 269.8 | 292.9 | 362.9 | 422.9 | 449.5 |
| 67.5° | 228.0 | 259.7 | 338.0 | 394.5 | 421.2 |
| 70° | 186.4 | 229.7 | 306.3 | 364.6 | 389.5 |
| 72.5° | 154.9 | 196.5 | 274.6 | 332.9 | 356.3 |
| 75° | 118.2 | 164.8 | 241.4 | 291.3 | 306.3 |
| 77.5° | 88.2 | 136.4 | 206.4 | 231.5 | 233.0 |
| 80° | 64.9 | 105.0 | 156.5 | 164.8 | 171.4 |
| 82.5° | 44.9 | 73.3 | 101.5 | 111.6 | 114.9 |
| 85° | 28.4 | 43.3 | 58.3 | 63.2 | 63.2 |
| 87.5° | 15.0 | 16.7 | 20.0 | 20.0 | 20.0 |
| 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)