

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: P732012

Luminaire Tested: **22CZ2-34HE-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-B2750-W2D-3000K
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

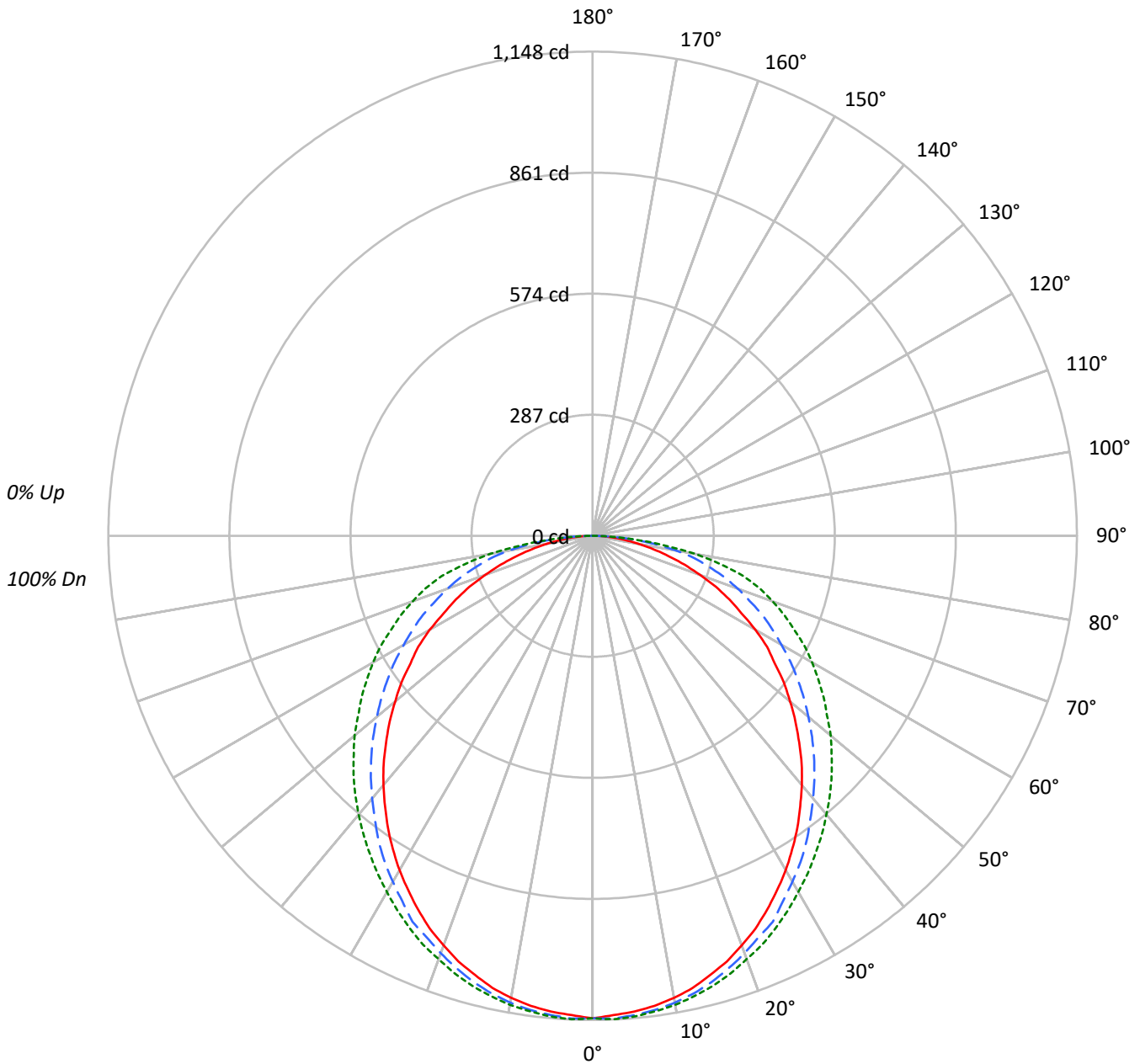
Lumens per Lamp: N/A
Luminaire Lumens: 3365.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732012

CATALOG NUMBER: 22CZ2-34HE-B2750-W2D-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P732012

CATALOG NUMBER: 22CZ2-34HE-B2750-W2D-3000K

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 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 71 | 77 | 73 | 70 | 68 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 78 | 69 | 63 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 59 | 56 | | | | | | | | | | | | | | | | | | | |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 52 | 65 | 57 | 52 | 63 | 56 | 51 | 60 | 55 | 50 | 48 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 61 | 52 | 45 | 72 | 60 | 52 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 41 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 36 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 8 | 59 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 25 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3246 | 3246 | 3246 |
| 5° | 3226 | 3249 | 3259 |
| 10° | 3206 | 3239 | 3254 |
| 15° | 3166 | 3215 | 3244 |
| 20° | 3120 | 3180 | 3225 |
| 25° | 3064 | 3162 | 3214 |
| 30° | 3000 | 3104 | 3196 |
| 35° | 2931 | 3063 | 3189 |
| 40° | 2858 | 3011 | 3195 |
| 45° | 2778 | 2977 | 3216 |
| 50° | 2697 | 2945 | 3253 |
| 55° | 2605 | 2933 | 3309 |
| 60° | 2528 | 2932 | 3411 |
| 65° | 2401 | 2980 | 3536 |
| 70° | 2240 | 3036 | 3764 |
| 75° | 2052 | 3141 | 4066 |
| 80° | 1786 | 3273 | 4003 |
| 85° | 1566 | 2911 | 3184 |



TEST NUMBER: P732012

CATALOG NUMBER: 22CZ2-34HE-B2750-W2D-3000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.2 | 3.2 |
| 10°-20° | 308.2 | 9.2 |
| 20°-30° | 462.7 | 13.7 |
| 30°-40° | 552.8 | 16.4 |
| 40°-50° | 574.9 | 17.1 |
| 50°-60° | 532.8 | 15.8 |
| 60°-70° | 437.0 | 13.0 |
| 70°-80° | 295.5 | 8.8 |
| 80°-90° | 92.9 | 2.8 |
| 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° | 879.1 | 26.1 |
| 0°-40° | 1431.9 | 42.6 |
| 0°-60° | 2539.6 | 75.5 |
| 0°-90° | 3365.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3365.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1144 | 1144 | 1144 | 1144 | 1144 | |
| 5° | 1133 | 1134 | 1141 | 1142 | 1144 | 107 |
| 15° | 1078 | 1083 | 1094 | 1101 | 1104 | 304 |
| 25° | 978 | 987 | 1010 | 1022 | 1027 | 451 |
| 35° | 846 | 858 | 884 | 911 | 921 | 529 |
| 45° | 692 | 705 | 742 | 785 | 801 | 534 |
| 55° | 527 | 543 | 593 | 646 | 669 | 473 |
| 65° | 358 | 378 | 444 | 502 | 527 | 354 |
| 75° | 187 | 218 | 286 | 344 | 371 | 198 |
| 85° | 48 | 66 | 89 | 99 | 98 | 55 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732012

CATALOG NUMBER: 22CZ2-34HE-B2750-W2D-3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------------|---------------|---------------|---------------|---------------|
| 0° | 1144.1 | 1144.1 | 1144.1 | <i>1144.1</i> | 1144.1 |
| 2.5° | <i>1137.5</i> | <i>1140.7</i> | <i>1145.7</i> | <i>1147.5</i> | <i>1147.5</i> |
| 5° | 1132.6 | 1134.2 | 1140.7 | <i>1142.5</i> | 1144.1 |
| 7.5° | 1124.2 | 1127.6 | 1134.2 | <i>1136.0</i> | 1137.5 |
| 10° | 1112.6 | 1116.0 | 1124.2 | <i>1127.6</i> | 1129.2 |
| 12.5° | 1097.8 | 1101.0 | 1111.0 | <i>1116.0</i> | 1117.6 |
| 15° | 1077.9 | 1082.9 | 1094.4 | <i>1101.0</i> | 1104.4 |
| 17.5° | 1058.1 | 1062.9 | 1074.7 | <i>1084.5</i> | 1087.9 |
| 20° | 1033.2 | 1044.8 | 1053.1 | <i>1066.3</i> | 1067.9 |
| 22.5° | 1008.4 | 1015.0 | 1029.8 | <i>1043.2</i> | 1049.8 |
| 25° | 978.5 | 986.9 | 1010.0 | <i>1021.6</i> | 1026.6 |
| 27.5° | 947.2 | 958.8 | 976.9 | <i>995.1</i> | 1001.7 |
| 30° | 915.7 | 923.8 | 947.2 | <i>968.5</i> | 975.3 |
| 32.5° | 880.9 | 892.5 | 917.3 | <i>938.8</i> | 948.8 |
| 35° | 846.0 | 857.6 | 884.1 | <i>910.7</i> | 920.7 |
| 37.5° | 808.1 | 821.3 | 847.8 | <i>879.2</i> | 892.5 |
| 40° | 771.6 | 781.6 | 812.9 | <i>851.0</i> | 862.6 |
| 42.5° | 733.5 | 745.1 | 778.2 | <i>819.7</i> | 832.9 |
| 45° | 692.2 | 705.4 | 741.9 | <i>784.8</i> | 801.3 |
| 47.5° | 652.3 | 665.6 | 705.4 | <i>748.5</i> | 768.2 |
| 50° | 611.0 | 627.5 | 667.2 | <i>716.9</i> | 736.9 |
| 52.5° | 571.3 | 586.2 | 630.9 | <i>682.2</i> | 700.4 |
| 55° | 526.6 | 543.1 | 592.8 | <i>645.7</i> | 668.8 |
| 57.5° | 490.1 | 501.6 | 556.3 | <i>611.0</i> | 634.1 |
| 60° | 445.4 | 460.3 | 516.6 | <i>574.5</i> | 601.0 |
| 62.5° | 397.5 | 422.2 | 480.1 | <i>539.7</i> | 566.3 |
| 65° | 357.6 | 377.5 | 443.8 | <i>501.6</i> | 526.6 |
| 67.5° | 316.3 | 337.8 | 402.3 | <i>463.7</i> | 491.9 |
| 70° | 270.0 | 298.1 | 365.9 | <i>427.2</i> | 453.7 |
| 72.5° | 228.5 | 258.4 | 327.8 | <i>387.5</i> | 415.6 |
| 75° | 187.2 | 218.5 | 286.5 | <i>344.4</i> | 370.9 |
| 77.5° | 147.5 | 182.2 | 248.4 | <i>293.1</i> | 309.7 |
| 80° | 109.3 | 142.5 | 200.3 | <i>231.9</i> | 245.0 |
| 82.5° | 76.2 | 104.4 | 147.5 | <i>164.0</i> | 167.2 |
| 85° | 48.1 | 66.2 | 89.4 | <i>99.4</i> | 97.8 |
| 87.5° | 21.5 | 26.5 | 33.1 | <i>36.5</i> | 34.7 |
| 90° | 0.0 | 0.0 | 0.0 | <i>0.0</i> | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)