

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: P830345

Luminaire Tested: **OHBL-36HE-N-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36HE-N-UNV-L740-CD
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

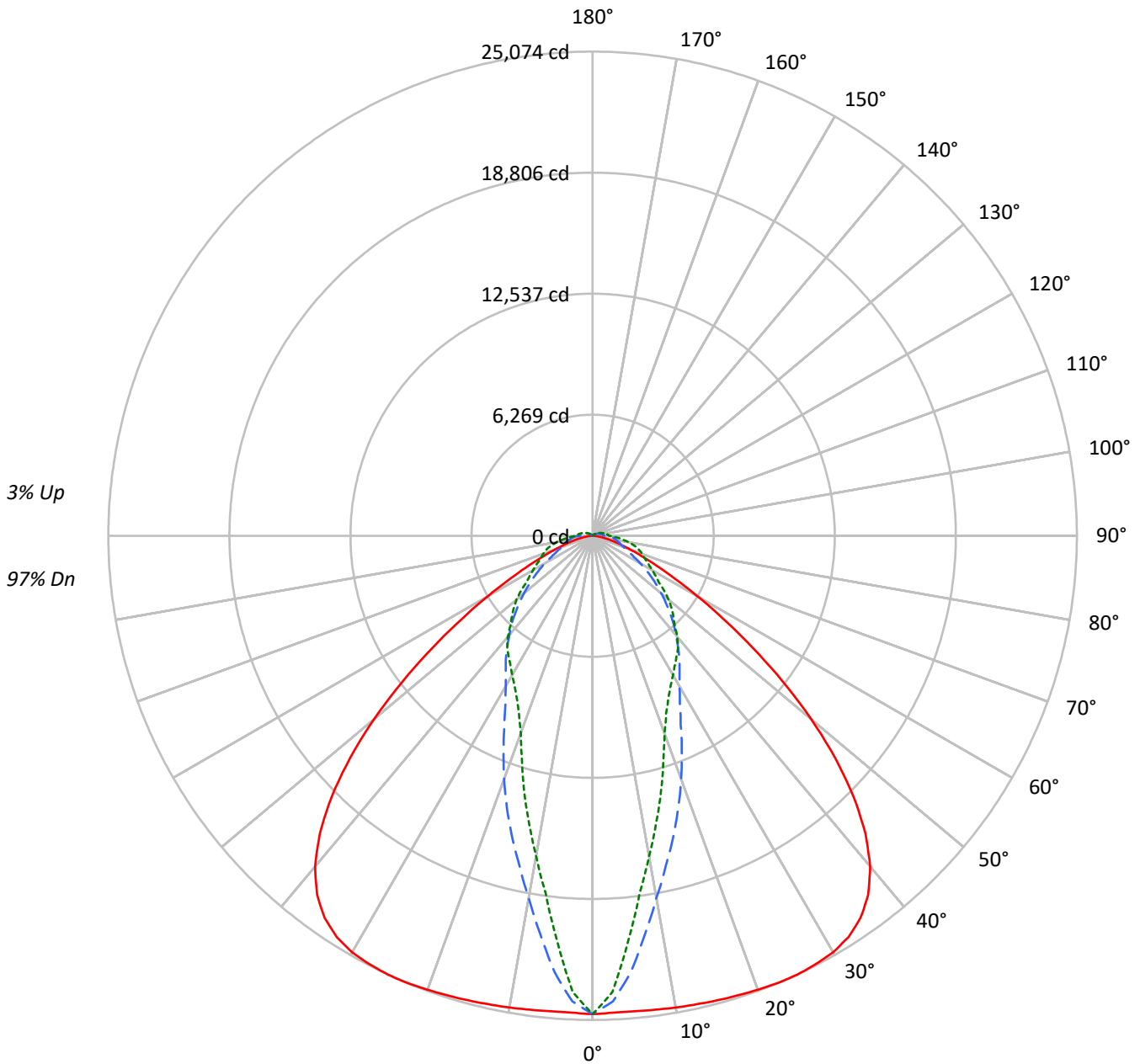
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36558.0 lumens
Efficiency: N/A
Efficacy: 172.4 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 212
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: P830345
CATALOG NUMBER: OHBL-36HE-N-UNV-L740-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830345

CATALOG NUMBER: OHBL-36HE-N-UNV-L740-CD

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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 99 | 97 |
| 1 | 109 | 104 | 100 | 97 | 106 | 102 | 98 | 95 | 97 | 94 | 91 | 92 | 90 | 88 | 88 | 86 | 85 | 85 | 85 | 85 | 82 |
| 2 | 100 | 93 | 86 | 81 | 97 | 90 | 85 | 80 | 86 | 82 | 78 | 83 | 79 | 75 | 79 | 76 | 73 | 73 | 73 | 73 | 71 |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 69 | 78 | 72 | 67 | 74 | 70 | 65 | 72 | 67 | 64 | 64 | 64 | 64 | 62 |
| 4 | 85 | 74 | 66 | 60 | 83 | 73 | 66 | 60 | 70 | 64 | 59 | 67 | 62 | 57 | 65 | 60 | 56 | 56 | 56 | 56 | 54 |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 51 | 59 | 54 | 50 | 50 | 50 | 50 | 48 |
| 6 | 74 | 62 | 53 | 47 | 72 | 60 | 53 | 47 | 58 | 52 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 45 | 45 | 45 | 43 |
| 7 | 69 | 56 | 48 | 43 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 50 | 45 | 41 | 41 | 41 | 41 | 39 |
| 8 | 65 | 52 | 44 | 39 | 63 | 51 | 44 | 39 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 41 | 37 | 37 | 37 | 37 | 35 |
| 9 | 61 | 48 | 41 | 35 | 59 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 38 | 34 | 34 | 34 | 34 | 32 |
| 10 | 57 | 45 | 37 | 33 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 35 | 32 | 32 | 32 | 32 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 39173 | 39173 | 39173 |
| 5° | 39093 | 35690 | 33189 |
| 10° | 39535 | 30077 | 26630 |
| 15° | 40307 | 25735 | 21871 |
| 20° | 41439 | 21770 | 17702 |
| 25° | 42872 | 18028 | 15521 |
| 30° | 44354 | 15539 | 14430 |
| 35° | 45277 | 14170 | 13759 |
| 40° | 44502 | 12808 | 13065 |
| 45° | 40940 | 11582 | 12108 |
| 50° | 34541 | 10241 | 11377 |
| 55° | 26246 | 8979 | 10138 |
| 60° | 18393 | 7709 | 9722 |
| 65° | 12372 | 6650 | 9539 |
| 70° | 8449 | 6253 | 10037 |
| 75° | 5863 | 6468 | 10769 |
| 80° | 4036 | 7197 | 11163 |
| 85° | 2361 | 9085 | 11865 |



TEST NUMBER: P830345

CATALOG NUMBER: OHBL-36HE-N-UNV-L740-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2085.1 | 5.7 |
| 10°-20° | 4905.1 | 13.4 |
| 20°-30° | 6148.5 | 16.8 |
| 30°-40° | 6524.2 | 17.8 |
| 40°-50° | 5899.0 | 16.1 |
| 50°-60° | 4277.1 | 11.7 |
| 60°-70° | 2684.1 | 7.3 |
| 70°-80° | 1776.2 | 4.9 |
| 80°-90° | 1023.3 | 2.8 |
| 90°-100° | 495.8 | 1.4 |
| 100°-110° | 342.2 | 0.9 |
| 110°-120° | 211.2 | 0.6 |
| 120°-130° | 102.2 | 0.3 |
| 130°-140° | 47.0 | 0.1 |
| 140°-150° | 25.7 | 0.1 |
| 150°-160° | 11.2 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 13138.7 | 35.9 |
| 0°-40° | 19663.0 | 53.8 |
| 0°-60° | 29839.1 | 81.6 |
| 0°-90° | 35322.7 | 96.6 |
| 90°-120° | 1049.1 | 2.9 |
| 90°-150° | 1224.1 | 3.3 |
| 90°-180° | 1235.0 | 3.4 |
| 0°-180° | 36558.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|-------|
| 0° | 24770 | 24770 | 24770 | 24770 | 24770 | |
| 5° | 24720 | 24086 | 22672 | 21620 | 21076 | ### |
| 15° | 24909 | 20303 | 16125 | 14340 | 13690 | 7064 |
| 25° | 25074 | 15698 | 10797 | 9583 | 9279 | 11584 |
| 35° | 24176 | 10436 | 7836 | 7591 | 7589 | 15029 |
| 45° | 19112 | 6610 | 5679 | 5816 | 5915 | 14559 |
| 55° | 10118 | 4097 | 3706 | 4020 | 4163 | 9142 |
| 65° | 3619 | 2376 | 2145 | 2749 | 3055 | 3766 |
| 75° | 1117 | 1280 | 1440 | 2237 | 2372 | 1246 |
| 85° | 196 | 530 | 1054 | 1466 | 1346 | 235 |
| 90° | 0 | 222 | 611 | 860 | 868 | 13 |
| 95° | 9 | 156 | 538 | 731 | 764 | 8 |
| 105° | 19 | 104 | 391 | 519 | 533 | 19 |
| 115° | 26 | 73 | 264 | 330 | 337 | 25 |
| 125° | 28 | 38 | 134 | 170 | 167 | 25 |
| 135° | 24 | 28 | 59 | 92 | 92 | 19 |
| 145° | 28 | 31 | 35 | 54 | 52 | 17 |
| 155° | 28 | 35 | 38 | 40 | 35 | 9 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P830345

CATALOG NUMBER: OHBL-36HE-N-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 24770.0 | 24770.0 | 24770.0 | 24770.0 | 24770.0 |
| 2.5° | 24718.1 | 24576.7 | 24135.8 | 23867.1 | 23640.8 |
| 5° | 24720.5 | 24086.3 | 22671.8 | 21620.4 | 21075.8 |
| 7.5° | 24755.8 | 23346.1 | 20797.6 | 19262.9 | 18664.1 |
| 10° | 24810.1 | 22429.0 | 19048.4 | 17412.3 | 16853.6 |
| 12.5° | 24850.1 | 21396.4 | 17509.0 | 15828.1 | 15215.1 |
| 15° | 24909.1 | 20302.6 | 16125.1 | 14340.5 | 13689.9 |
| 17.5° | 24963.3 | 19272.4 | 14757.8 | 12893.0 | 12169.3 |
| 20° | 25017.5 | 18162.0 | 13390.5 | 11469.1 | 10872.7 |
| 22.5° | 25069.4 | 16990.3 | 12056.1 | 10363.5 | 9955.6 |
| 25° | 25074.1 | 15698.4 | 10797.2 | 9583.1 | 9279.0 |
| 27.5° | 25012.8 | 14359.4 | 9776.5 | 8930.1 | 8741.5 |
| 30° | 24906.7 | 13060.4 | 8984.3 | 8458.6 | 8324.2 |
| 32.5° | 24642.7 | 11735.5 | 8371.4 | 8003.6 | 7925.8 |
| 35° | 24175.9 | 10436.5 | 7836.2 | 7591.1 | 7588.7 |
| 37.5° | 23440.4 | 9283.7 | 7256.3 | 7213.9 | 7265.7 |
| 40° | 22353.6 | 8274.7 | 6707.0 | 6820.2 | 6820.2 |
| 42.5° | 20903.7 | 7397.8 | 6209.6 | 6325.1 | 6294.5 |
| 45° | 19112.1 | 6610.4 | 5679.2 | 5815.9 | 5914.9 |
| 47.5° | 17035.1 | 5917.3 | 5136.9 | 5401.0 | 5537.7 |
| 50° | 14776.7 | 5257.2 | 4641.9 | 4979.0 | 5134.6 |
| 52.5° | 12409.8 | 4646.6 | 4158.6 | 4545.2 | 4670.2 |
| 55° | 10118.3 | 4097.3 | 3706.0 | 4019.5 | 4163.3 |
| 57.5° | 8043.7 | 3573.9 | 3262.7 | 3559.8 | 3856.8 |
| 60° | 6259.1 | 3123.7 | 2845.5 | 3269.8 | 3566.9 |
| 62.5° | 4781.0 | 2722.9 | 2454.1 | 2998.7 | 3295.8 |
| 65° | 3618.7 | 2376.3 | 2145.3 | 2748.8 | 3055.3 |
| 67.5° | 2727.6 | 2076.9 | 1904.8 | 2567.3 | 2866.7 |
| 70° | 2048.6 | 1787.0 | 1711.5 | 2454.1 | 2722.9 |
| 72.5° | 1513.5 | 1520.6 | 1558.3 | 2355.1 | 2560.2 |
| 75° | 1117.4 | 1280.1 | 1440.4 | 2237.2 | 2371.6 |
| 77.5° | 799.2 | 1060.9 | 1334.3 | 2095.8 | 2142.9 |
| 80° | 554.0 | 865.2 | 1223.5 | 1909.6 | 1869.5 |
| 82.5° | 346.5 | 693.1 | 1124.5 | 1704.5 | 1593.7 |
| 85° | 195.7 | 530.4 | 1053.8 | 1466.3 | 1346.1 |
| 87.5° | 87.2 | 396.1 | 921.8 | 1143.4 | 1067.9 |
| 90° | 0.0 | 221.6 | 610.6 | 860.5 | 867.6 |
| 92.5° | 4.7 | 183.9 | 563.4 | 787.4 | 811.0 |
| 95° | 9.4 | 155.6 | 537.5 | 730.8 | 763.8 |
| 97.5° | 11.8 | 136.7 | 504.5 | 679.0 | 707.2 |
| 100° | 14.1 | 122.6 | 464.4 | 624.7 | 648.3 |
| 102.5° | 16.5 | 113.2 | 426.7 | 568.2 | 587.0 |
| 105° | 18.9 | 103.7 | 391.3 | 518.6 | 532.8 |



TEST NUMBER: P830345

CATALOG NUMBER: OHBL-36HE-N-UNV-L740-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 23.6 | 80.2 | 294.7 | 372.5 | 384.3 |
| 115° | 25.9 | 73.1 | 264.0 | 330.0 | 337.1 |
| 117.5° | 28.3 | 63.7 | 231.0 | 290.0 | 292.3 |
| 120° | 28.3 | 56.6 | 198.0 | 247.5 | 247.5 |
| 122.5° | 28.3 | 47.1 | 165.0 | 205.1 | 202.7 |
| 125° | 28.3 | 37.7 | 134.4 | 169.7 | 167.4 |
| 127.5° | 25.9 | 30.6 | 108.4 | 141.4 | 139.1 |
| 130° | 25.9 | 30.6 | 87.2 | 120.2 | 120.2 |
| 132.5° | 23.6 | 28.3 | 70.7 | 103.7 | 103.7 |
| 135° | 23.6 | 28.3 | 58.9 | 91.9 | 91.9 |
| 137.5° | 23.6 | 30.6 | 49.5 | 80.2 | 80.2 |
| 140° | 23.6 | 28.3 | 42.4 | 70.7 | 70.7 |
| 142.5° | 25.9 | 28.3 | 37.7 | 61.3 | 61.3 |
| 145° | 28.3 | 30.6 | 35.4 | 54.2 | 51.9 |
| 147.5° | 28.3 | 33.0 | 35.4 | 47.1 | 44.8 |
| 150° | 28.3 | 35.4 | 35.4 | 42.4 | 40.1 |
| 152.5° | 28.3 | 35.4 | 35.4 | 40.1 | 37.7 |
| 155° | 28.3 | 35.4 | 37.7 | 40.1 | 35.4 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|------|------|-------|-------|-------|
| 107.5° | 18.9 | 96.7 | 358.3 | 464.4 | 480.9 |
| 110° | 21.2 | 87.2 | 327.7 | 414.9 | 431.4 |



(END OF REPORT)