

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: P830357

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36HE-NL-UNV-L740-CD
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

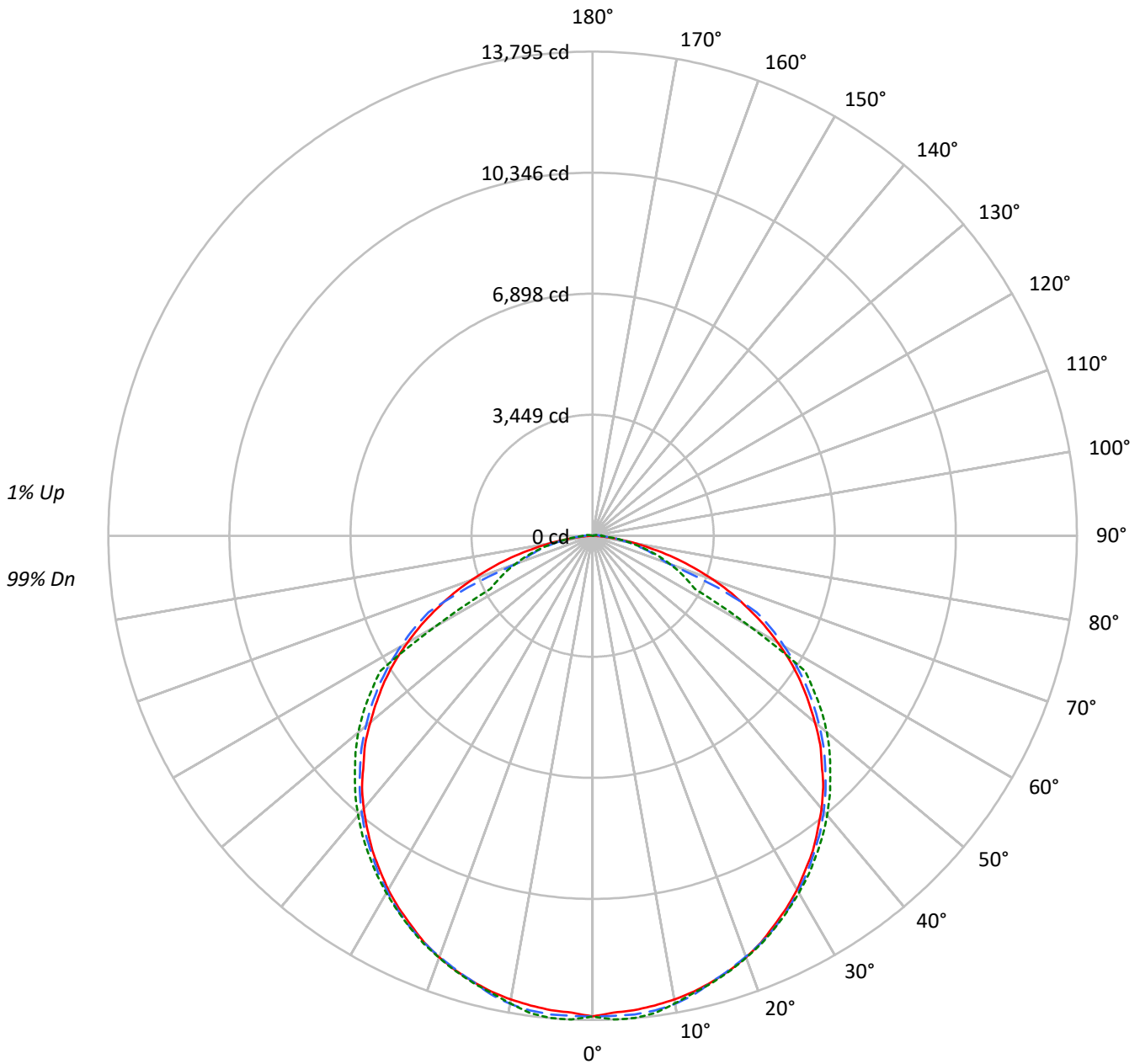
Lumens per Lamp: N/A
Luminaire Lumens: 38448.0 lumens
Efficiency: N/A
Efficacy: 181.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 212
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: P830357

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

Luminous Intensity Polar Plot





TEST NUMBER: P830357

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

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 | | | | 99 | | | | | | | | | | | | | | | | |
| 1 | 109 | 105 | 100 | 97 | 106 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | | | | 84 | | | | | | | | | | | | | | | | |
| 2 | 99 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | | | | 71 | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 66 | 88 | 79 | 72 | 66 | 76 | 70 | 64 | 73 | 68 | 63 | 70 | 66 | 62 | | | | 60 | | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | | | | 51 | | | | | | | | | | | | | | | | |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | | | | 44 | | | | | | | | | | | | | | | | |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | | | | 39 | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | | | | 34 | | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | | | | 30 | | | | | | | | | | | | | | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | | | | 27 | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | | | | 25 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 21657 | 21657 | 21657 |
| 5° | 21537 | 21732 | 21896 |
| 10° | 21543 | 21748 | 21721 |
| 15° | 21540 | 21536 | 21583 |
| 20° | 21510 | 21478 | 21530 |
| 25° | 21363 | 21472 | 21489 |
| 30° | 21264 | 21374 | 21458 |
| 35° | 21126 | 21242 | 21442 |
| 40° | 20944 | 21143 | 21455 |
| 45° | 20642 | 20954 | 21411 |
| 50° | 20331 | 20745 | 21431 |
| 55° | 19942 | 20459 | 21195 |
| 60° | 19274 | 19958 | 16500 |
| 65° | 18236 | 19296 | 11105 |
| 70° | 16866 | 10243 | 10777 |
| 75° | 14712 | 9734 | 10292 |
| 80° | 11313 | 8930 | 9432 |
| 85° | 5710 | 9026 | 9241 |



TEST NUMBER: P830357

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

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1301.0 | 3.4 |
| 10°-20° | 3725.1 | 9.7 |
| 20°-30° | 5668.1 | 14.7 |
| 30°-40° | 6891.6 | 17.9 |
| 40°-50° | 7246.2 | 18.8 |
| 50°-60° | 6616.6 | 17.2 |
| 60°-70° | 4241.6 | 11.0 |
| 70°-80° | 2003.7 | 5.2 |
| 80°-90° | 555.6 | 1.4 |
| 90°-100° | 147.1 | 0.4 |
| 100°-110° | 40.3 | 0.1 |
| 110°-120° | 11.2 | 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° | 10694.2 | 27.8 |
| 0°-40° | 17585.8 | 45.7 |
| 0°-60° | 31448.6 | 81.8 |
| 0°-90° | 38249.4 | 99.5 |
| 90°-120° | 198.6 | 0.5 |
| 90°-150° | 198.6 | 0.5 |
| 90°-180° | 199.0 | 0.5 |
| 0°-180° | 38448.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 13694 | 13694 | 13694 | 13694 | 13694 | |
| 5° | 13567 | 13620 | 13689 | 13764 | 13793 | ### |
| 15° | 13156 | 13254 | 13154 | 13173 | 13182 | 3714 |
| 25° | 12243 | 12262 | 12305 | 12324 | 12315 | 5649 |
| 35° | 10943 | 10878 | 11003 | 11138 | 11106 | 6839 |
| 45° | 9229 | 9213 | 9369 | 9590 | 9573 | 7134 |
| 55° | 7233 | 7177 | 7420 | 7668 | 7687 | 6450 |
| 65° | 4873 | 4873 | 5156 | 2958 | 2968 | 4831 |
| 75° | 2408 | 2453 | 1593 | 1677 | 1684 | 2538 |
| 85° | 315 | 399 | 497 | 538 | 509 | 465 |
| 90° | 0 | 135 | 221 | 262 | 257 | 14 |
| 95° | 7 | 70 | 159 | 214 | 214 | 4 |
| 105° | 12 | 26 | 38 | 38 | 36 | 12 |
| 115° | 12 | 17 | 24 | 17 | 2 | 9 |
| 125° | 0 | 0 | 0 | 0 | 0 | 0 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P830357

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 13694.2 | 13694.2 | 13694.2 | 13694.2 | 13694.2 |
| 2.5° | 13598.0 | 13643.8 | 13694.2 | 13759.1 | 13794.9 |
| 5° | 13566.7 | 13619.6 | 13689.4 | 13763.9 | 13792.6 |
| 7.5° | 13499.6 | 13573.9 | 13641.3 | 13694.2 | 13711.0 |
| 10° | 13415.4 | 13504.4 | 13542.8 | 13538.0 | 13526.0 |
| 12.5° | 13302.4 | 13396.3 | 13384.3 | 13328.9 | 13338.5 |
| 15° | 13155.9 | 13254.3 | 13153.6 | 13172.7 | 13182.3 |
| 17.5° | 12982.9 | 13079.0 | 12961.3 | 12999.7 | 13002.2 |
| 20° | 12781.1 | 12853.1 | 12761.8 | 12793.1 | 12793.1 |
| 22.5° | 12538.4 | 12588.8 | 12550.4 | 12572.0 | 12576.9 |
| 25° | 12242.8 | 12261.9 | 12305.2 | 12324.5 | 12314.8 |
| 27.5° | 11959.4 | 11935.3 | 12019.5 | 12065.0 | 12040.8 |
| 30° | 11644.5 | 11606.1 | 11704.5 | 11779.1 | 11750.3 |
| 32.5° | 11284.0 | 11260.1 | 11373.0 | 11461.8 | 11445.0 |
| 35° | 10942.8 | 10878.0 | 11002.9 | 11137.5 | 11106.2 |
| 37.5° | 10539.1 | 10500.7 | 10642.4 | 10784.3 | 10767.6 |
| 40° | 10145.0 | 10080.2 | 10241.2 | 10409.4 | 10392.6 |
| 42.5° | 9722.2 | 9645.1 | 9820.7 | 10022.7 | 10003.3 |
| 45° | 9229.4 | 9212.6 | 9368.9 | 9589.9 | 9573.1 |
| 47.5° | 8792.4 | 8708.2 | 8926.7 | 9140.7 | 9160.0 |
| 50° | 8263.5 | 8232.4 | 8431.9 | 8691.4 | 8710.5 |
| 52.5° | 7747.0 | 7725.4 | 7934.3 | 8196.3 | 8229.9 |
| 55° | 7232.6 | 7177.4 | 7420.1 | 7667.7 | 7687.0 |
| 57.5° | 6682.6 | 6624.9 | 6872.4 | 7141.6 | 7182.3 |
| 60° | 6093.7 | 6038.5 | 6309.9 | 6560.0 | 6521.8 |
| 62.5° | 5505.0 | 5466.6 | 5750.2 | 4073.0 | 3282.5 |
| 65° | 4873.1 | 4873.1 | 5156.5 | 2957.9 | 2967.6 |
| 67.5° | 4282.1 | 4243.7 | 3844.8 | 2657.5 | 2657.5 |
| 70° | 3647.6 | 3662.1 | 2215.3 | 2328.5 | 2330.8 |
| 72.5° | 3010.8 | 3063.8 | 1912.8 | 2003.9 | 2008.8 |
| 75° | 2407.7 | 2453.4 | 1593.1 | 1677.3 | 1684.4 |
| 77.5° | 1768.6 | 1360.0 | 1280.7 | 1345.8 | 1348.1 |
| 80° | 1242.2 | 857.8 | 980.5 | 1042.8 | 1035.7 |
| 82.5° | 725.6 | 600.6 | 718.4 | 764.2 | 761.7 |
| 85° | 314.7 | 398.9 | 497.4 | 538.3 | 509.3 |
| 87.5° | 100.7 | 247.5 | 309.9 | 334.0 | 331.5 |
| 90° | 0.0 | 134.6 | 221.1 | 261.8 | 257.2 |
| 92.5° | 0.0 | 105.6 | 192.3 | 240.4 | 242.7 |
| 95° | 7.1 | 69.7 | 158.7 | 214.0 | 214.0 |
| 97.5° | 4.8 | 50.4 | 113.0 | 168.2 | 173.0 |
| 100° | 4.8 | 40.7 | 74.5 | 120.1 | 122.6 |
| 102.5° | 12.0 | 33.6 | 45.5 | 76.8 | 79.4 |
| 105° | 12.0 | 26.5 | 38.4 | 38.4 | 36.1 |



TEST NUMBER: P830357

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

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|-----|
| 112.5° | 14.5 | 19.3 | 26.5 | 19.3 | 2.3 |
| 115° | 12.0 | 16.8 | 23.9 | 16.8 | 2.3 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° | 12.0 | 23.9 | 33.6 | 21.6 | 7.1 |
| 110° | 14.5 | 21.6 | 28.7 | 19.3 | 2.3 |



(END OF REPORT)