

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: P830718

Luminaire Tested: **OHBL-60SE-NL-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830718
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-60SE-NL-UNV-L750-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

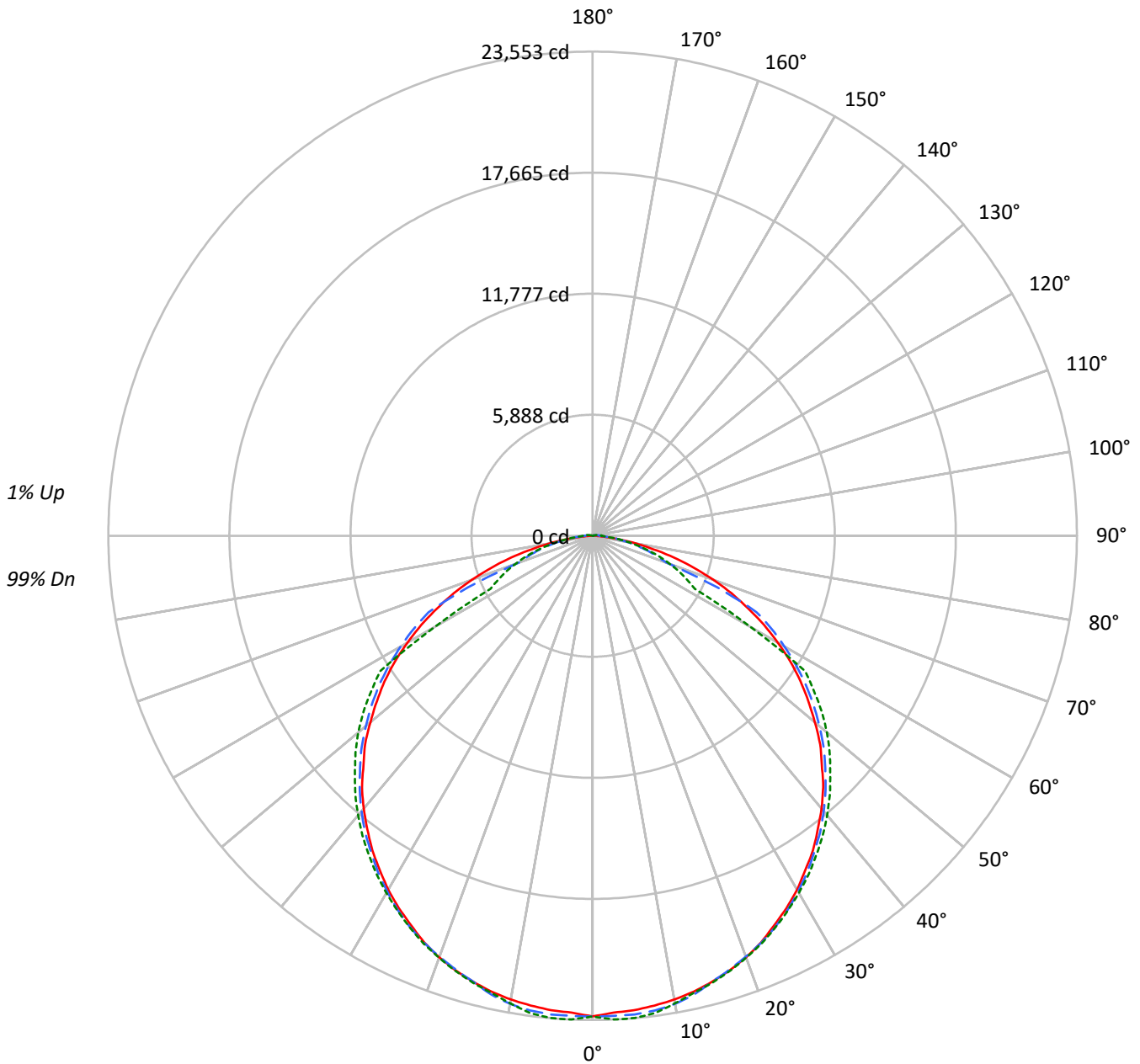
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65645.0 lumens
Efficiency: N/A
Efficacy: 181.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 362
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: P830718
CATALOG NUMBER: OHBL-60SE-NL-UNV-L750-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830718

CATALOG NUMBER: OHBL-60SE-NL-UNV-L750-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|
| RF | 20 | | | | 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 | 99 | | | | 99 |
| 1 | 109 | 105 | 100 | 97 | 106 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 | | | | 84 |
| 2 | 99 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | 71 | | | | 71 |
| 3 | 91 | 81 | 73 | 66 | 88 | 79 | 72 | 66 | 76 | 70 | 64 | 73 | 68 | 63 | 70 | 66 | 62 | 60 | | | | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 | | | | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 | | | | 44 |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | 39 | | | | 39 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 34 | | | | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 30 | | | | 30 |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 25 | | | | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 39935 | 39935 | 39935 |
| 5° | 39714 | 40073 | 40375 |
| 10° | 39725 | 40102 | 40053 |
| 15° | 39718 | 39711 | 39798 |
| 20° | 39664 | 39604 | 39701 |
| 25° | 39393 | 39594 | 39625 |
| 30° | 39210 | 39413 | 39567 |
| 35° | 38956 | 39170 | 39538 |
| 40° | 38620 | 38986 | 39562 |
| 45° | 38063 | 38638 | 39480 |
| 50° | 37489 | 38254 | 39517 |
| 55° | 36772 | 37725 | 39082 |
| 60° | 35541 | 36802 | 30426 |
| 65° | 33625 | 35581 | 20477 |
| 70° | 31101 | 18889 | 19873 |
| 75° | 27128 | 17950 | 18979 |
| 80° | 20862 | 16465 | 17393 |
| 85° | 10529 | 16642 | 17042 |



TEST NUMBER: P830718

CATALOG NUMBER: OHBL-60SE-NL-UNV-L750-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2221.3 | 3.4 |
| 10°-20° | 6360.2 | 9.7 |
| 20°-30° | 9677.5 | 14.7 |
| 30°-40° | 11766.5 | 17.9 |
| 40°-50° | 12371.9 | 18.8 |
| 50°-60° | 11297.0 | 17.2 |
| 60°-70° | 7242.0 | 11.0 |
| 70°-80° | 3421.0 | 5.2 |
| 80°-90° | 948.6 | 1.4 |
| 90°-100° | 251.2 | 0.4 |
| 100°-110° | 68.8 | 0.1 |
| 110°-120° | 19.1 | 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° | 18258.9 | 27.8 |
| 0°-40° | 30025.4 | 45.7 |
| 0°-60° | 53694.4 | 81.8 |
| 0°-90° | 65305.9 | 99.5 |
| 90°-120° | 339.1 | 0.5 |
| 90°-150° | 339.1 | 0.5 |
| 90°-180° | 339.0 | 0.5 |
| 0°-180° | 65645.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|-------|
| 0° | 23381 | 23381 | 23381 | 23381 | 23381 | |
| 5° | 23163 | 23254 | 23373 | 23500 | 23549 | ### |
| 15° | 22462 | 22630 | 22458 | 22491 | 22507 | 6341 |
| 25° | 20903 | 20936 | 21010 | 21042 | 21026 | 9645 |
| 35° | 18684 | 18573 | 18786 | 19016 | 18962 | 11676 |
| 45° | 15758 | 15729 | 15996 | 16374 | 16345 | 12180 |
| 55° | 12349 | 12254 | 12669 | 13092 | 13125 | 11013 |
| 65° | 8320 | 8320 | 8804 | 5050 | 5067 | 8249 |
| 75° | 4111 | 4189 | 2720 | 2864 | 2876 | 4333 |
| 85° | 537 | 681 | 849 | 919 | 870 | 794 |
| 90° | 0 | 230 | 378 | 447 | 439 | 24 |
| 95° | 12 | 119 | 271 | 365 | 365 | 7 |
| 105° | 20 | 45 | 66 | 66 | 62 | 21 |
| 115° | 20 | 29 | 41 | 29 | 4 | 15 |
| 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: P830718

CATALOG NUMBER: OHBL-60SE-NL-UNV-L750-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 23381.1 | 23381.1 | 23381.1 | 23381.1 | 23381.1 |
| 2.5° | 23216.9 | 23295.1 | 23381.1 | 23491.8 | 23553.1 |
| 5° | 23163.4 | 23253.8 | 23372.8 | 23500.1 | 23549.2 |
| 7.5° | 23048.8 | 23175.6 | 23290.7 | 23381.1 | 23409.7 |
| 10° | 22905.0 | 23057.0 | 23122.6 | 23114.4 | 23093.9 |
| 12.5° | 22712.1 | 22872.4 | 22852.0 | 22757.3 | 22773.8 |
| 15° | 22462.0 | 22630.1 | 22458.0 | 22490.6 | 22507.1 |
| 17.5° | 22166.6 | 22330.8 | 22129.7 | 22195.3 | 22199.6 |
| 20° | 21822.1 | 21945.1 | 21789.1 | 21842.6 | 21842.6 |
| 22.5° | 21407.8 | 21493.8 | 21428.2 | 21465.1 | 21473.4 |
| 25° | 20903.0 | 20935.6 | 21009.5 | 21042.5 | 21026.0 |
| 27.5° | 20419.2 | 20377.9 | 20521.7 | 20599.4 | 20558.2 |
| 30° | 19881.4 | 19815.8 | 19983.9 | 20111.2 | 20062.1 |
| 32.5° | 19266.0 | 19225.1 | 19418.0 | 19569.6 | 19540.9 |
| 35° | 18683.5 | 18572.7 | 18786.0 | 19015.8 | 18962.3 |
| 37.5° | 17994.2 | 17928.6 | 18170.5 | 18412.9 | 18384.2 |
| 40° | 17321.3 | 17210.6 | 17485.5 | 17772.6 | 17744.0 |
| 42.5° | 16599.4 | 16467.8 | 16767.5 | 17112.4 | 17079.4 |
| 45° | 15758.1 | 15729.4 | 15996.1 | 16373.6 | 16344.9 |
| 47.5° | 15011.8 | 14868.1 | 15241.2 | 15606.5 | 15639.5 |
| 50° | 14108.8 | 14055.8 | 14396.4 | 14839.4 | 14872.0 |
| 52.5° | 13227.1 | 13190.2 | 13546.8 | 13994.1 | 14051.5 |
| 55° | 12348.8 | 12254.5 | 12668.9 | 13091.6 | 13124.6 |
| 57.5° | 11409.7 | 11311.1 | 11733.7 | 12193.3 | 12262.8 |
| 60° | 10404.2 | 10309.9 | 10773.4 | 11200.4 | 8906.9 |
| 62.5° | 9399.1 | 9333.5 | 9817.8 | 6954.1 | 5604.5 |
| 65° | 8320.1 | 8320.1 | 8804.0 | 5050.3 | 5066.8 |
| 67.5° | 7311.1 | 7245.5 | 6564.5 | 4537.3 | 4537.3 |
| 70° | 6227.8 | 6252.6 | 3782.4 | 3975.7 | 3979.6 |
| 72.5° | 5140.6 | 5231.0 | 3265.9 | 3421.4 | 3429.7 |
| 75° | 4110.8 | 4188.9 | 2720.0 | 2863.7 | 2875.9 |
| 77.5° | 3019.7 | 2322.1 | 2186.6 | 2297.8 | 2301.7 |
| 80° | 2121.0 | 1464.7 | 1674.0 | 1780.4 | 1768.3 |
| 82.5° | 1238.8 | 1025.5 | 1226.6 | 1304.8 | 1300.5 |
| 85° | 537.3 | 681.1 | 849.2 | 919.1 | 869.6 |
| 87.5° | 172.0 | 422.6 | 529.0 | 570.3 | 566.0 |
| 90° | 0.0 | 229.8 | 377.5 | 447.0 | 439.1 |
| 92.5° | 0.0 | 180.3 | 328.4 | 410.5 | 414.4 |
| 95° | 12.2 | 119.0 | 271.0 | 365.3 | 365.3 |
| 97.5° | 8.3 | 86.0 | 192.9 | 287.1 | 295.4 |
| 100° | 8.3 | 69.5 | 127.3 | 205.0 | 209.4 |
| 102.5° | 20.4 | 57.3 | 77.8 | 131.2 | 135.5 |
| 105° | 20.4 | 45.2 | 65.6 | 65.6 | 61.7 |



TEST NUMBER: P830718

CATALOG NUMBER: OHBL-60SE-NL-UNV-L750-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|-----|
| 112.5° | 24.8 | 33.0 | 45.2 | 33.0 | 3.9 |
| 115° | 20.4 | 28.7 | 40.8 | 28.7 | 3.9 |
| 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° | 20.4 | 40.8 | 57.3 | 36.9 | 12.2 |
| 110° | 24.8 | 36.9 | 49.1 | 33.0 | 3.9 |



(END OF REPORT)