

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: P830175

Luminaire Tested: **OHBL-30HE-MCL-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30HE-MCL-UNV-L730-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

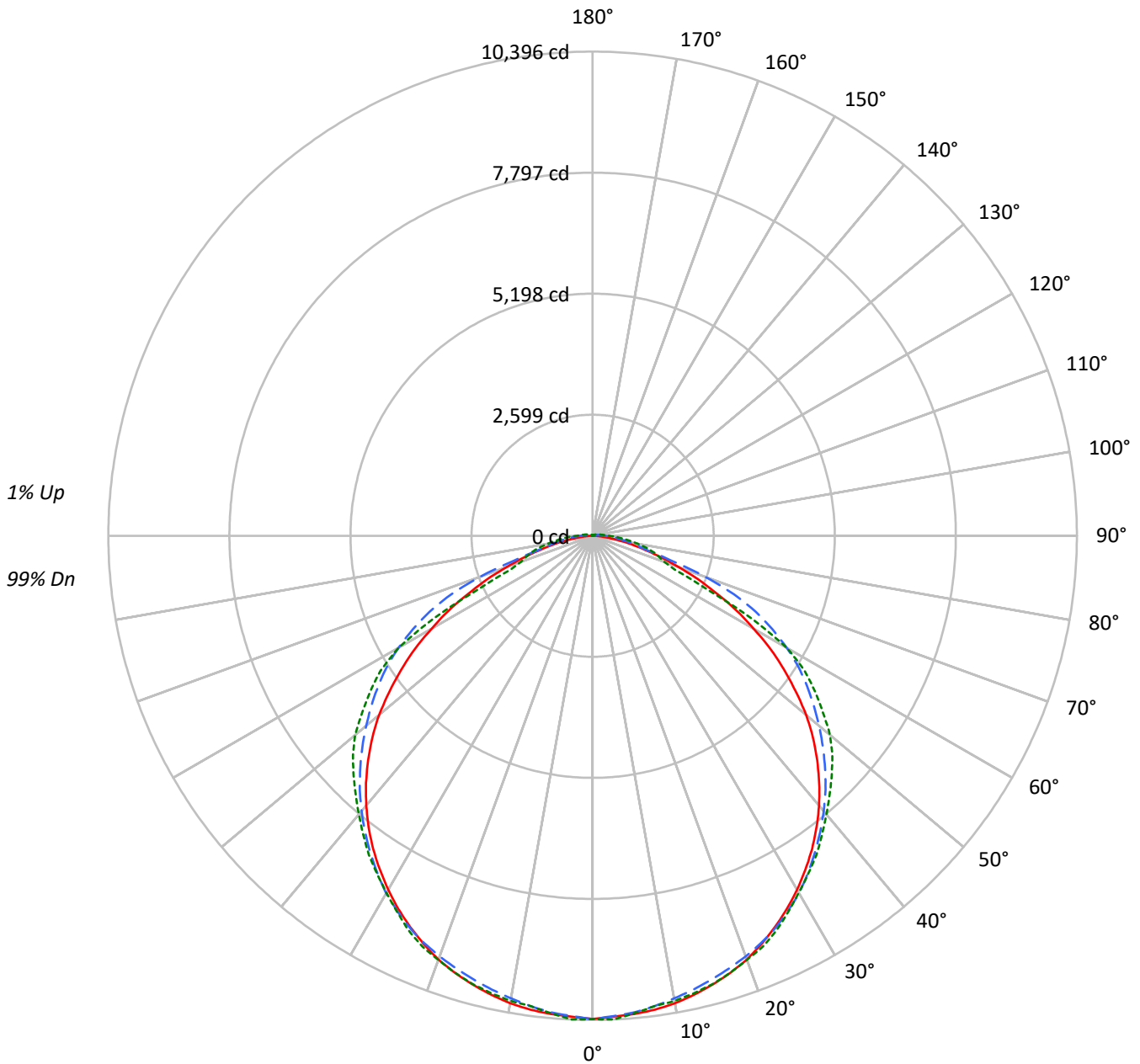
Lumens per Lamp: N/A
Luminaire Lumens: 29325.0 lumens
Efficiency: N/A
Efficacy: 179.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 163.8
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: P830175

CATALOG NUMBER: OHBL-30HE-MCL-UNV-L730-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830175

CATALOG NUMBER: OHBL-30HE-MCL-UNV-L730-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 | 110 | 110 | 110 | 106 | 106 | 106 | 101 | 101 | 101 | 99 | | | | | | | | | | | | | | | | | | | |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 86 | 83 | | | | | | | | | | | | | | | | | | | |
| 2 | 99 | 91 | 84 | 79 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 82 | 78 | 74 | 79 | 75 | 72 | 70 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 75 | 69 | 64 | 72 | 67 | 63 | 70 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 54 | 65 | 59 | 54 | 62 | 57 | 53 | 51 | | | | | | | | | | | | | | | | | | | |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 46 | 56 | 50 | 46 | 44 | | | | | | | | | | | | | | | | | | | |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 42 | 54 | 47 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 43 | 37 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 33 | 44 | 37 | 32 | 42 | 36 | 32 | 30 | | | | | | | | | | | | | | | | | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 | | | | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | 24 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16408 | 16408 | 16408 |
| 5° | 16301 | 16170 | 16204 |
| 10° | 16241 | 15925 | 16024 |
| 15° | 16138 | 15742 | 15917 |
| 20° | 16035 | 15626 | 15776 |
| 25° | 15842 | 15510 | 15636 |
| 30° | 15631 | 15327 | 15340 |
| 35° | 15380 | 15036 | 15177 |
| 40° | 15052 | 14736 | 14955 |
| 45° | 14599 | 14389 | 14857 |
| 50° | 13985 | 13993 | 14739 |
| 55° | 13009 | 13604 | 14189 |
| 60° | 11731 | 13035 | 13118 |
| 65° | 10063 | 11978 | 8313 |
| 70° | 8105 | 9351 | 6027 |
| 75° | 6077 | 5551 | 6117 |
| 80° | 4230 | 4615 | 5840 |
| 85° | 2407 | 4229 | 5475 |



TEST NUMBER: P830175

CATALOG NUMBER: OHBL-30HE-MCL-UNV-L730-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 978.3 | 3.3 |
| 10°-20° | 2805.3 | 9.6 |
| 20°-30° | 4284.5 | 14.6 |
| 30°-40° | 5198.6 | 17.7 |
| 40°-50° | 5448.6 | 18.6 |
| 50°-60° | 4937.3 | 16.8 |
| 60°-70° | 3310.3 | 11.3 |
| 70°-80° | 1486.4 | 5.1 |
| 80°-90° | 539.4 | 1.8 |
| 90°-100° | 162.3 | 0.6 |
| 100°-110° | 76.6 | 0.3 |
| 110°-120° | 38.4 | 0.1 |
| 120°-130° | 21.2 | 0.1 |
| 130°-140° | 14.6 | 0.0 |
| 140°-150° | 9.8 | 0.0 |
| 150°-160° | 7.3 | 0.0 |
| 160°-170° | 4.7 | 0.0 |
| 170°-180° | 1.5 | 0.0 |
| 0°-30° | 8068.1 | 27.5 |
| 0°-40° | 13266.7 | 45.2 |
| 0°-60° | 23652.6 | 80.7 |
| 0°-90° | 28988.7 | 98.9 |
| 90°-120° | 277.3 | 0.9 |
| 90°-150° | 322.9 | 1.1 |
| 90°-180° | 336.0 | 1.1 |
| 0°-180° | 29325.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 10375 | 10375 | 10375 | 10375 | 10375 | |
| 5° | 10308 | 10344 | 10272 | 10303 | 10290 | 980 |
| 15° | 9973 | 9934 | 9864 | 9951 | 9963 | 2816 |
| 25° | 9265 | 9225 | 9289 | 9375 | 9348 | 4271 |
| 35° | 8212 | 8232 | 8316 | 8404 | 8371 | 5133 |
| 45° | 6815 | 6926 | 7055 | 7235 | 7258 | 5250 |
| 55° | 5015 | 5257 | 5615 | 5840 | 5827 | 4477 |
| 65° | 2943 | 3404 | 3864 | 3261 | 2663 | 2933 |
| 75° | 1158 | 1680 | 1236 | 1265 | 1347 | 1266 |
| 85° | 200 | 382 | 491 | 593 | 621 | 243 |
| 90° | 2 | 128 | 254 | 318 | 333 | 12 |
| 95° | 2 | 80 | 174 | 212 | 218 | 2 |
| 105° | 6 | 34 | 86 | 104 | 108 | 7 |
| 115° | 12 | 18 | 44 | 56 | 58 | 11 |
| 125° | 10 | 12 | 27 | 32 | 33 | 10 |
| 135° | 14 | 15 | 16 | 24 | 26 | 11 |
| 145° | 14 | 15 | 15 | 16 | 18 | 9 |
| 155° | 15 | 16 | 16 | 16 | 15 | 7 |
| 165° | 16 | 16 | 16 | 16 | 16 | 5 |
| 175° | 16 | 16 | 15 | 14 | 14 | 2 |
| 180° | 15 | 15 | 15 | 15 | 15 | |



TEST NUMBER: P830175

CATALOG NUMBER: OHBL-30HE-MCL-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 10375.2 | 10375.2 | 10375.2 | 10375.2 | 10375.2 |
| 2.5° | 10333.2 | 10376.7 | 10322.7 | 10381.2 | 10396.2 |
| 5° | 10307.7 | 10343.7 | 10271.7 | 10303.2 | 10289.7 |
| 7.5° | 10261.2 | 10273.2 | 10187.7 | 10213.2 | 10186.2 |
| 10° | 10192.2 | 10186.2 | 10085.7 | 10135.2 | 10141.2 |
| 12.5° | 10090.2 | 10072.2 | 9982.2 | 10057.2 | 10058.7 |
| 15° | 9973.2 | 9934.2 | 9863.7 | 9950.7 | 9962.7 |
| 17.5° | 9838.1 | 9787.1 | 9740.6 | 9853.1 | 9835.1 |
| 20° | 9680.6 | 9620.6 | 9611.6 | 9734.6 | 9689.6 |
| 22.5° | 9485.6 | 9439.1 | 9460.1 | 9577.1 | 9548.6 |
| 25° | 9265.1 | 9224.6 | 9289.1 | 9374.6 | 9347.6 |
| 27.5° | 9032.6 | 9008.6 | 9082.1 | 9148.1 | 9095.6 |
| 30° | 8777.5 | 8764.0 | 8861.5 | 8915.5 | 8849.5 |
| 32.5° | 8500.0 | 8504.5 | 8597.5 | 8671.0 | 8609.5 |
| 35° | 8212.0 | 8231.5 | 8315.5 | 8404.0 | 8371.0 |
| 37.5° | 7895.4 | 7938.9 | 8022.9 | 8123.4 | 8088.9 |
| 40° | 7560.9 | 7623.9 | 7716.9 | 7838.4 | 7806.9 |
| 42.5° | 7199.3 | 7278.8 | 7398.9 | 7533.9 | 7530.9 |
| 45° | 6815.3 | 6926.3 | 7055.3 | 7235.3 | 7257.8 |
| 47.5° | 6416.2 | 6540.8 | 6704.3 | 6944.3 | 6978.8 |
| 50° | 5982.7 | 6138.7 | 6342.7 | 6630.8 | 6651.8 |
| 52.5° | 5499.6 | 5712.7 | 5982.7 | 6258.7 | 6233.2 |
| 55° | 5015.1 | 5256.6 | 5615.2 | 5840.2 | 5826.7 |
| 57.5° | 4532.0 | 4803.6 | 5238.6 | 5399.1 | 5397.6 |
| 60° | 3992.0 | 4335.5 | 4811.1 | 4932.6 | 4812.6 |
| 62.5° | 3492.4 | 3861.5 | 4355.0 | 4266.5 | 3855.4 |
| 65° | 2943.3 | 3403.9 | 3864.5 | 3261.4 | 2662.8 |
| 67.5° | 2455.8 | 2935.8 | 3282.4 | 2233.8 | 1912.7 |
| 70° | 1965.2 | 2494.8 | 2559.3 | 1657.7 | 1635.2 |
| 72.5° | 1530.2 | 2094.2 | 1765.7 | 1419.2 | 1491.2 |
| 75° | 1158.1 | 1680.2 | 1236.1 | 1264.6 | 1347.2 |
| 77.5° | 844.6 | 1290.2 | 961.6 | 1108.6 | 1176.1 |
| 80° | 580.6 | 913.6 | 784.6 | 931.6 | 978.1 |
| 82.5° | 364.5 | 603.1 | 628.6 | 750.1 | 798.1 |
| 85° | 199.5 | 382.5 | 490.6 | 592.6 | 621.1 |
| 87.5° | 82.5 | 231.0 | 375.0 | 457.6 | 481.6 |
| 90° | 1.5 | 127.5 | 253.5 | 318.0 | 333.0 |
| 92.5° | 1.5 | 97.5 | 207.0 | 256.5 | 267.0 |
| 95° | 1.5 | 79.5 | 174.0 | 211.5 | 217.5 |
| 97.5° | 3.0 | 63.0 | 145.5 | 175.5 | 181.5 |
| 100° | 4.5 | 52.5 | 121.5 | 147.0 | 151.5 |
| 102.5° | 6.0 | 42.0 | 102.0 | 123.0 | 127.5 |
| 105° | 6.0 | 34.5 | 85.5 | 103.5 | 108.0 |



TEST NUMBER: P830175

CATALOG NUMBER: OHBL-30HE-MCL-UNV-L730-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 10.5 | 21.0 | 51.0 | 64.5 | 67.5 |
| 115° | 12.0 | 18.0 | 43.5 | 55.5 | 58.5 |
| 117.5° | 12.0 | 15.0 | 37.5 | 46.5 | 49.5 |
| 120° | 12.0 | 13.5 | 33.0 | 40.5 | 42.0 |
| 122.5° | 12.0 | 12.0 | 28.5 | 36.0 | 37.5 |
| 125° | 10.5 | 12.0 | 27.0 | 31.5 | 33.0 |
| 127.5° | 12.0 | 12.0 | 24.0 | 28.5 | 30.0 |
| 130° | 12.0 | 13.5 | 21.0 | 27.0 | 27.0 |
| 132.5° | 13.5 | 15.0 | 19.5 | 25.5 | 25.5 |
| 135° | 13.5 | 15.0 | 16.5 | 24.0 | 25.5 |
| 137.5° | 15.0 | 15.0 | 15.0 | 22.5 | 24.0 |
| 140° | 15.0 | 15.0 | 13.5 | 19.5 | 21.0 |
| 142.5° | 13.5 | 15.0 | 13.5 | 18.0 | 19.5 |
| 145° | 13.5 | 15.0 | 15.0 | 16.5 | 18.0 |
| 147.5° | 15.0 | 15.0 | 15.0 | 15.0 | 16.5 |
| 150° | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| 152.5° | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| 155° | 15.0 | 16.5 | 16.5 | 16.5 | 15.0 |
| 157.5° | 15.0 | 16.5 | 16.5 | 16.5 | 16.5 |
| 160° | 15.0 | 16.5 | 16.5 | 16.5 | 16.5 |
| 162.5° | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 165° | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 167.5° | 16.5 | 18.0 | 16.5 | 16.5 | 16.5 |
| 170° | 16.5 | 16.5 | 16.5 | 15.0 | 15.0 |
| 172.5° | 16.5 | 16.5 | 16.5 | 15.0 | 15.0 |
| 175° | 16.5 | 16.5 | 15.0 | 13.5 | 13.5 |
| 177.5° | 18.0 | 16.5 | 15.0 | 13.5 | 12.0 |
| 180° | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-----|------|------|------|------|
| 107.5° | 7.5 | 28.5 | 73.5 | 88.5 | 91.5 |
| 110° | 9.0 | 24.0 | 61.5 | 75.0 | 78.0 |



(END OF REPORT)