

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: P827692

Luminaire Tested: **OHBL-18HE-A-UNV-L930-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827692
REPORT IS A COMBINATION OF REPORTS P826155 AND G3-2310-221-8
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-A-UNV-L930-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

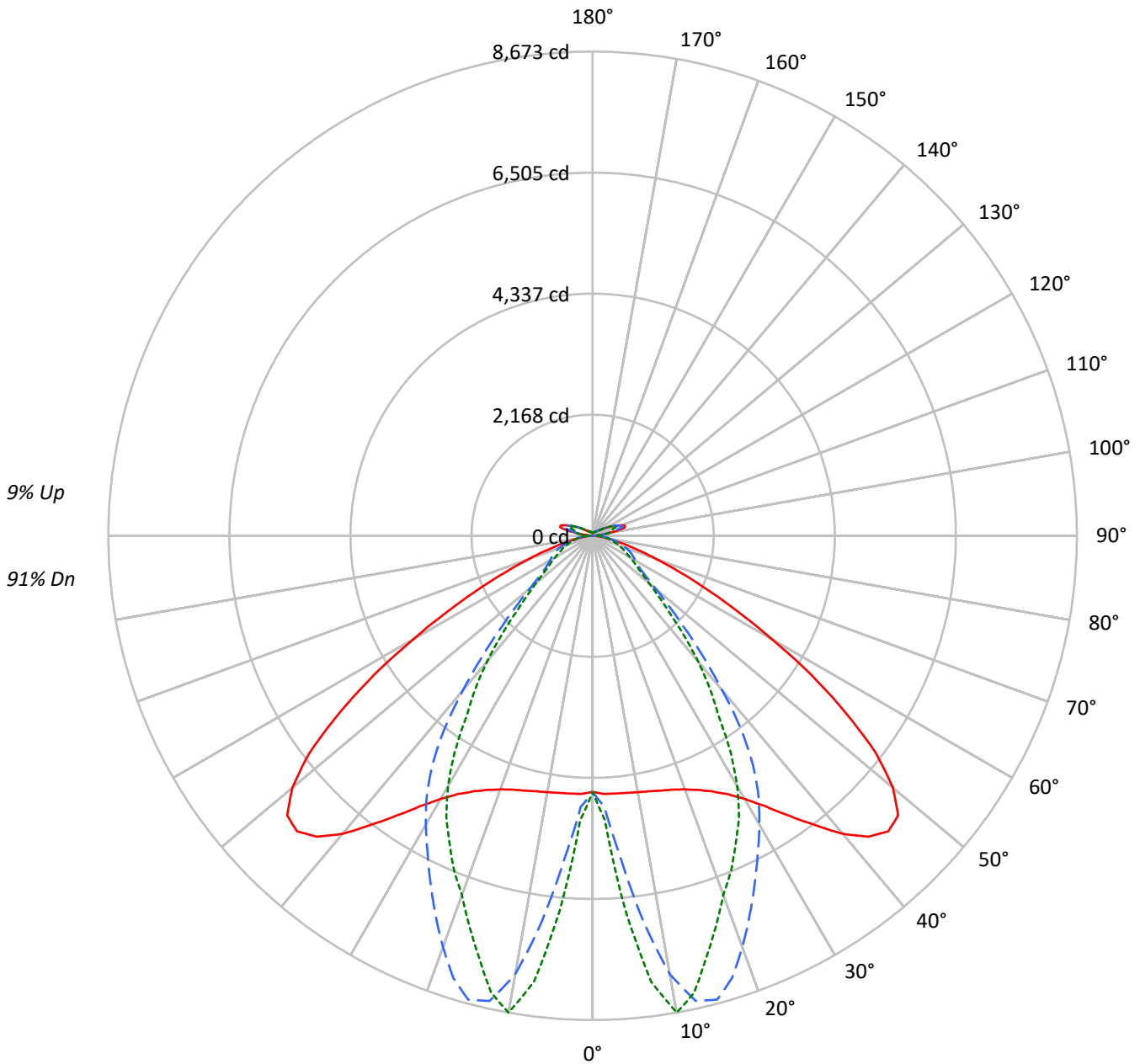
Lumens per Lamp: N/A
Luminaire Lumens: 16174.7 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 115.3
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: P827692

CATALOG NUMBER: OHBL-18HE-A-UNV-L930-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P827692

CATALOG NUMBER: OHBL-18HE-A-UNV-L930-CD-UPL18

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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 100 | 100 | 100 | 94 | 94 | 94 | 91 | | | | | | | | | | | | | | | | | | | |
| 1 | 108 | 104 | 101 | 98 | 105 | 101 | 98 | 95 | 96 | 93 | 91 | 90 | 88 | 86 | 85 | 84 | 82 | 80 | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | 93 | 88 | 83 | 97 | 91 | 85 | 81 | 86 | 82 | 78 | 81 | 78 | 75 | 77 | 74 | 72 | 70 | | | | | | | | | | | | | | | | | | | |
| 3 | 93 | 84 | 77 | 71 | 90 | 81 | 75 | 70 | 77 | 72 | 68 | 74 | 69 | 65 | 70 | 66 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 4 | 86 | 75 | 68 | 62 | 83 | 74 | 67 | 61 | 70 | 64 | 59 | 67 | 62 | 58 | 64 | 60 | 56 | 54 | | | | | | | | | | | | | | | | | | | |
| 5 | 80 | 68 | 60 | 55 | 77 | 67 | 59 | 54 | 64 | 57 | 53 | 61 | 56 | 51 | 58 | 54 | 50 | 48 | | | | | | | | | | | | | | | | | | | |
| 6 | 74 | 62 | 54 | 49 | 72 | 61 | 53 | 48 | 58 | 52 | 47 | 56 | 50 | 46 | 54 | 49 | 45 | 43 | | | | | | | | | | | | | | | | | | | |
| 7 | 69 | 57 | 49 | 44 | 67 | 56 | 48 | 43 | 54 | 47 | 42 | 51 | 46 | 41 | 49 | 44 | 41 | 39 | | | | | | | | | | | | | | | | | | | |
| 8 | 65 | 52 | 45 | 39 | 63 | 51 | 44 | 39 | 49 | 43 | 38 | 47 | 42 | 38 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 9 | 61 | 48 | 41 | 36 | 59 | 47 | 40 | 36 | 46 | 39 | 35 | 44 | 38 | 34 | 43 | 37 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 10 | 57 | 45 | 38 | 33 | 55 | 44 | 37 | 32 | 42 | 36 | 32 | 41 | 35 | 31 | 40 | 35 | 31 | 29 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 7839 | 7839 | 7839 |
| 5° | 7879 | 9859 | 11491 |
| 10° | 7949 | 13593 | 14926 |
| 15° | 8139 | 14808 | 13699 |
| 20° | 8475 | 13739 | 12243 |
| 25° | 9093 | 12356 | 11199 |
| 30° | 10140 | 11126 | 9958 |
| 35° | 11920 | 9738 | 7935 |
| 40° | 14333 | 7416 | 6315 |
| 45° | 16441 | 5052 | 4495 |
| 50° | 16668 | 3466 | 3325 |
| 55° | 14427 | 2727 | 2716 |
| 60° | 10777 | 2552 | 2443 |
| 65° | 7387 | 2560 | 2315 |
| 70° | 4723 | 2469 | 2242 |
| 75° | 2840 | 2285 | 2145 |
| 80° | 1671 | 2008 | 2213 |
| 85° | 804 | 1725 | 2052 |



TEST NUMBER: P827692

CATALOG NUMBER: OHBL-18HE-A-UNV-L930-CD-UPL18

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 599.2 | 3.7 |
| 10°-20° | 2114.8 | 13.1 |
| 20°-30° | 3116.2 | 19.3 |
| 30°-40° | 3274.7 | 20.2 |
| 40°-50° | 2505.7 | 15.5 |
| 50°-60° | 1513.1 | 9.4 |
| 60°-70° | 923.3 | 5.7 |
| 70°-80° | 504.0 | 3.1 |
| 80°-90° | 180.5 | 1.1 |
| 90°-100° | 138.4 | 0.9 |
| 100°-110° | 480.7 | 3.0 |
| 110°-120° | 413.0 | 2.6 |
| 120°-130° | 198.3 | 1.2 |
| 130°-140° | 99.1 | 0.6 |
| 140°-150° | 57.5 | 0.4 |
| 150°-160° | 33.6 | 0.2 |
| 160°-170° | 17.4 | 0.1 |
| 170°-180° | 5.3 | 0.0 |
| 0°-30° | 5830.2 | 36.0 |
| 0°-40° | 9104.9 | 56.3 |
| 0°-60° | 13123.7 | 81.1 |
| 0°-90° | 14731.5 | 91.1 |
| 90°-120° | 1032.0 | 6.4 |
| 90°-150° | 1386.9 | 8.6 |
| 90°-180° | 1443.0 | 8.9 |
| 0°-180° | 16174.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4590 | 4590 | 4590 | 4590 | 4590 | |
| 5° | 4636 | 4973 | 5802 | 6478 | 6728 | 443 |
| 15° | 4726 | 7361 | 8603 | 8028 | 7839 | 1344 |
| 25° | 5050 | 8543 | 6868 | 6218 | 6064 | 2360 |
| 35° | 6117 | 6841 | 5004 | 4167 | 3923 | 3881 |
| 45° | 7487 | 3904 | 2305 | 2028 | 1943 | 5657 |
| 55° | 5537 | 1324 | 1049 | 972 | 970 | 4893 |
| 65° | 2220 | 838 | 772 | 660 | 627 | 2275 |
| 75° | 591 | 521 | 478 | 394 | 378 | 680 |
| 85° | 88 | 162 | 190 | 174 | 158 | 109 |
| 90° | 3 | 20 | 28 | 36 | 40 | 7 |
| 95° | 31 | 66 | 104 | 135 | 154 | 97 |
| 105° | 599 | 593 | 506 | 356 | 329 | 568 |
| 115° | 415 | 420 | 419 | 414 | 413 | 418 |
| 125° | 202 | 212 | 217 | 217 | 215 | 190 |
| 135° | 120 | 122 | 126 | 128 | 128 | 95 |
| 145° | 87 | 89 | 91 | 92 | 92 | 55 |
| 155° | 70 | 71 | 72 | 73 | 73 | 33 |
| 165° | 60 | 61 | 61 | 61 | 61 | 17 |
| 175° | 54 | 54 | 55 | 55 | 55 | 5 |
| 180° | 54 | 54 | 54 | 54 | 54 | |



TEST NUMBER: P827692

CATALOG NUMBER: OHBL-18HE-A-UNV-L930-CD-UPL18

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4589.6 | 4589.6 | 4589.6 | 4589.6 | 4589.6 |
| 2.5° | 4627.2 | 4674.4 | 4860.6 | 5053.9 | 5100.9 |
| 5° | 4635.6 | 4973.4 | 5801.7 | 6478.1 | 6728.2 |
| 7.5° | 4645.5 | 5457.7 | 6967.8 | 7796.0 | 8061.1 |
| 10° | 4664.2 | 6070.2 | 7978.2 | 8572.8 | 8673.0 |
| 12.5° | 4687.4 | 6719.1 | 8534.2 | 8512.6 | 8386.2 |
| 15° | 4726.0 | 7360.8 | 8602.8 | 8027.6 | 7838.9 |
| 17.5° | 4766.5 | 7903.9 | 8304.0 | 7499.8 | 7335.5 |
| 20° | 4832.5 | 8306.9 | 7839.3 | 7030.6 | 6843.8 |
| 22.5° | 4927.5 | 8528.6 | 7352.0 | 6606.3 | 6484.4 |
| 25° | 5050.1 | 8542.9 | 6868.1 | 6218.0 | 6064.5 |
| 27.5° | 5214.5 | 8344.7 | 6404.2 | 5837.5 | 5675.4 |
| 30° | 5438.1 | 7965.2 | 5973.2 | 5378.8 | 5177.7 |
| 32.5° | 5741.8 | 7419.1 | 5528.8 | 4824.9 | 4599.4 |
| 35° | 6117.2 | 6841.2 | 5003.5 | 4166.9 | 3923.2 |
| 37.5° | 6527.0 | 6199.7 | 4366.1 | 3584.1 | 3442.2 |
| 40° | 6967.8 | 5538.6 | 3610.5 | 3038.8 | 2937.2 |
| 42.5° | 7311.9 | 4819.8 | 2908.6 | 2525.2 | 2417.2 |
| 45° | 7487.2 | 3903.7 | 2304.8 | 2028.1 | 1942.9 |
| 47.5° | 7418.9 | 3030.3 | 1827.2 | 1611.5 | 1585.9 |
| 50° | 7020.4 | 2237.5 | 1462.7 | 1327.4 | 1316.9 |
| 52.5° | 6397.3 | 1667.8 | 1208.2 | 1124.6 | 1106.3 |
| 55° | 5537.0 | 1323.7 | 1049.2 | 972.4 | 969.5 |
| 57.5° | 4648.8 | 1124.6 | 952.4 | 892.9 | 872.3 |
| 60° | 3701.4 | 1002.7 | 879.0 | 811.8 | 769.9 |
| 62.5° | 2901.4 | 917.5 | 825.0 | 733.9 | 694.8 |
| 65° | 2219.8 | 838.0 | 771.9 | 660.5 | 626.9 |
| 67.5° | 1654.7 | 762.3 | 707.0 | 583.4 | 563.7 |
| 70° | 1205.6 | 684.5 | 632.9 | 518.8 | 503.3 |
| 72.5° | 859.3 | 607.0 | 559.0 | 458.2 | 441.0 |
| 75° | 591.1 | 521.1 | 478.0 | 394.4 | 378.5 |
| 77.5° | 398.8 | 433.6 | 398.3 | 336.8 | 330.0 |
| 80° | 266.3 | 343.9 | 322.2 | 285.3 | 281.2 |
| 82.5° | 161.6 | 249.5 | 254.3 | 232.1 | 220.8 |
| 85° | 87.9 | 161.6 | 190.5 | 173.5 | 157.5 |
| 87.5° | 34.4 | 89.6 | 131.3 | 117.9 | 111.0 |
| 90° | 3.2 | 20.2 | 27.5 | 36.4 | 40.4 |
| 92.5° | 10.5 | 26.7 | 44.5 | 61.4 | 67.9 |
| 95° | 30.7 | 66.3 | 104.3 | 135.0 | 154.4 |
| 97.5° | 157.6 | 172.2 | 192.4 | 228.0 | 240.9 |
| 100° | 325.0 | 341.1 | 286.2 | 299.9 | 304.7 |
| 102.5° | 508.4 | 507.6 | 367.0 | 331.4 | 326.6 |
| 105° | 599.0 | 593.3 | 506.0 | 356.5 | 329.0 |



TEST NUMBER: P827692

CATALOG NUMBER: OHBL-18HE-A-UNV-L930-CD-UPL18

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 486.6 | 489.8 | 480.2 | 467.2 | 447.0 |
| 115° | 414.7 | 419.5 | 418.7 | 413.9 | 413.1 |
| 117.5° | 353.2 | 355.7 | 357.3 | 355.7 | 356.5 |
| 120° | 295.0 | 300.7 | 303.9 | 301.5 | 299.9 |
| 122.5° | 246.5 | 253.8 | 257.9 | 255.4 | 253.8 |
| 125° | 202.1 | 211.8 | 217.4 | 216.6 | 215.0 |
| 127.5° | 171.4 | 178.6 | 185.9 | 185.1 | 183.5 |
| 130° | 148.7 | 154.4 | 159.2 | 160.0 | 160.9 |
| 132.5° | 133.4 | 135.8 | 140.6 | 141.5 | 143.1 |
| 135° | 119.6 | 122.1 | 126.1 | 127.7 | 128.5 |
| 137.5° | 109.1 | 111.6 | 114.8 | 116.4 | 117.2 |
| 140° | 100.2 | 102.7 | 105.1 | 106.7 | 107.5 |
| 142.5° | 93.0 | 95.4 | 97.8 | 98.6 | 99.4 |
| 145° | 87.3 | 88.9 | 91.3 | 92.2 | 92.2 |
| 147.5° | 81.6 | 83.3 | 84.9 | 86.5 | 86.5 |
| 150° | 76.8 | 78.4 | 80.0 | 80.8 | 81.6 |
| 152.5° | 73.6 | 74.4 | 76.0 | 76.8 | 76.8 |
| 155° | 69.5 | 71.1 | 71.9 | 72.8 | 72.8 |
| 157.5° | 67.1 | 67.9 | 68.7 | 69.5 | 69.5 |
| 160° | 64.7 | 64.7 | 65.5 | 66.3 | 66.3 |
| 162.5° | 62.2 | 62.2 | 63.0 | 63.9 | 63.9 |
| 165° | 59.8 | 60.6 | 60.6 | 61.4 | 61.4 |
| 167.5° | 58.2 | 58.2 | 59.0 | 59.0 | 59.8 |
| 170° | 56.6 | 56.6 | 57.4 | 57.4 | 57.4 |
| 172.5° | 55.0 | 55.8 | 55.8 | 55.8 | 55.8 |
| 175° | 54.2 | 54.2 | 55.0 | 55.0 | 55.0 |
| 177.5° | 53.4 | 54.2 | 54.2 | 54.2 | 54.2 |
| 180° | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 604.6 | 604.6 | 557.8 | 433.3 | 362.9 |
| 110° | 553.7 | 560.2 | 535.9 | 487.4 | 431.6 |



(END OF REPORT)