

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: P827774

Luminaire Tested: **OHBL-30HE-W-UNV-L930-CD-UPL30**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827774
REPORT IS A COMBINATION OF REPORTS P826280 AND G3-2310-221-4
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30HE-W-UNV-L930-CD-UPL30
Description:
Light Source: -
Ballast/Driver: -

Summary

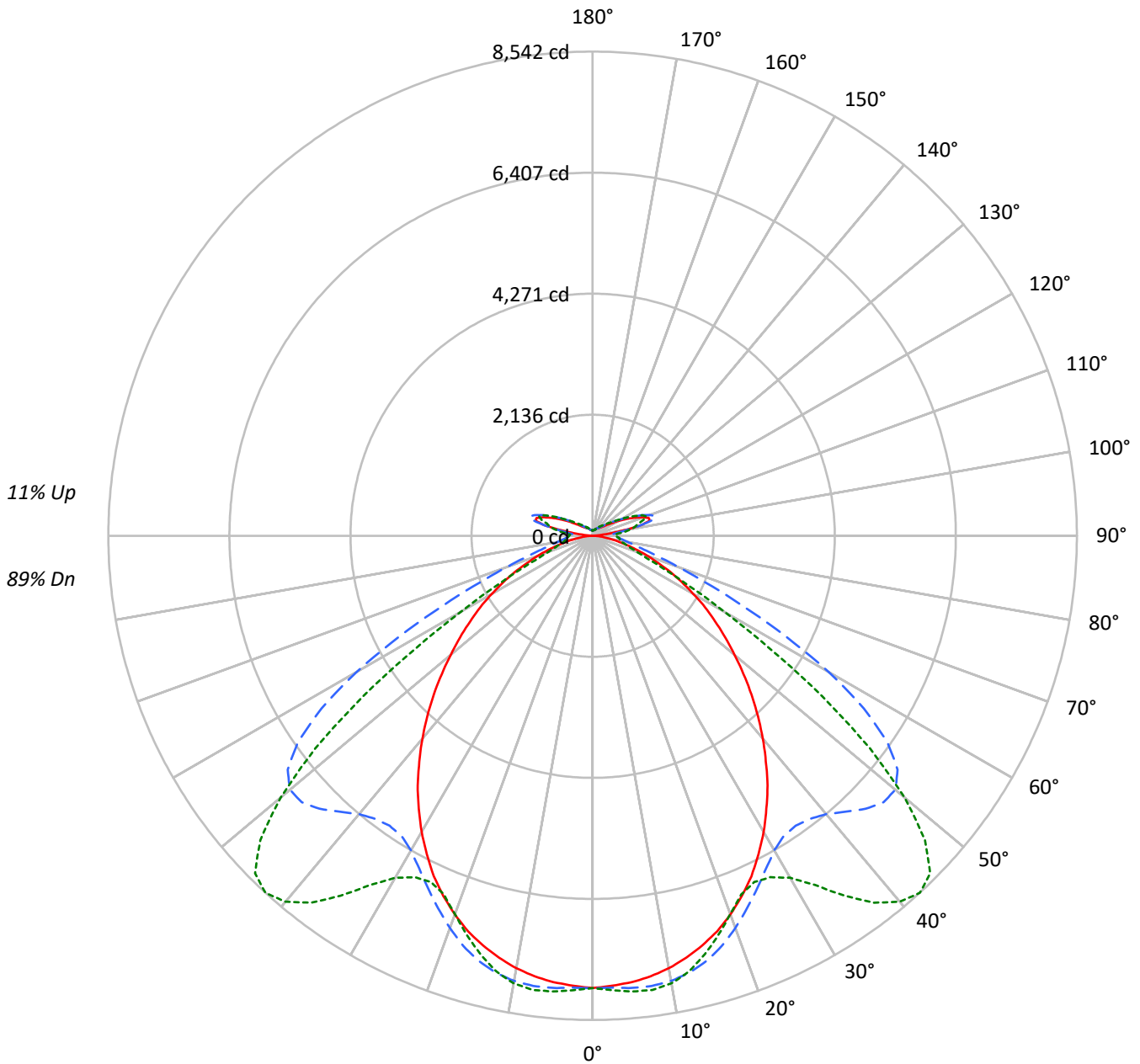
Lumens per Lamp: N/A
Luminaire Lumens: 26367.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 187
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: P827774

CATALOG NUMBER: OHBL-30HE-W-UNV-L930-CD-UPL30

Luminous Intensity Polar Plot





TEST NUMBER: P827774

CATALOG NUMBER: OHBL-30HE-W-UNV-L930-CD-UPL30

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 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 | | | | | | | | | | | | | | | | | | | |
| 1 | 107 | 102 | 98 | 94 | 103 | 99 | 95 | 92 | 92 | 89 | 87 | 87 | 84 | 82 | 81 | 79 | 78 | 75 | | | | | | | | | | | | | | | | | | | |
| 2 | 97 | 89 | 83 | 77 | 94 | 87 | 81 | 76 | 81 | 76 | 72 | 76 | 72 | 69 | 72 | 69 | 66 | 63 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 79 | 71 | 64 | 85 | 76 | 69 | 63 | 72 | 66 | 61 | 67 | 62 | 58 | 63 | 59 | 56 | 53 | | | | | | | | | | | | | | | | | | | |
| 4 | 81 | 70 | 61 | 55 | 78 | 67 | 60 | 54 | 64 | 57 | 52 | 60 | 54 | 50 | 57 | 52 | 48 | 45 | | | | | | | | | | | | | | | | | | | |
| 5 | 74 | 62 | 53 | 47 | 72 | 60 | 52 | 46 | 57 | 50 | 44 | 54 | 48 | 43 | 51 | 46 | 41 | 39 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 41 | 66 | 54 | 46 | 40 | 51 | 44 | 39 | 48 | 42 | 37 | 46 | 40 | 36 | 34 | | | | | | | | | | | | | | | | | | | |
| 7 | 63 | 50 | 42 | 36 | 61 | 49 | 41 | 35 | 46 | 39 | 34 | 44 | 38 | 33 | 42 | 36 | 32 | 30 | | | | | | | | | | | | | | | | | | | |
| 8 | 59 | 46 | 37 | 31 | 57 | 44 | 37 | 31 | 42 | 35 | 30 | 40 | 34 | 29 | 38 | 33 | 28 | 26 | | | | | | | | | | | | | | | | | | | |
| 9 | 55 | 42 | 34 | 28 | 53 | 41 | 33 | 28 | 39 | 32 | 27 | 37 | 31 | 26 | 35 | 30 | 26 | 24 | | | | | | | | | | | | | | | | | | | |
| 10 | 51 | 38 | 30 | 25 | 49 | 37 | 30 | 25 | 36 | 29 | 24 | 34 | 28 | 24 | 32 | 27 | 23 | 21 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12619 | 12619 | 12619 |
| 5° | 12449 | 12607 | 12763 |
| 10° | 12240 | 12593 | 12778 |
| 15° | 11950 | 12391 | 12368 |
| 20° | 11573 | 11970 | 11762 |
| 25° | 11087 | 11460 | 11527 |
| 30° | 10459 | 11082 | 12404 |
| 35° | 9754 | 11294 | 14515 |
| 40° | 8947 | 12239 | 16780 |
| 45° | 8108 | 13892 | 18036 |
| 50° | 7240 | 15374 | 16784 |
| 55° | 6422 | 15369 | 12825 |
| 60° | 5593 | 13018 | 7841 |
| 65° | 4724 | 9002 | 4750 |
| 70° | 3756 | 5830 | 3429 |
| 75° | 2767 | 4190 | 3180 |
| 80° | 1881 | 3696 | 3587 |
| 85° | 1138 | 4096 | 5671 |



TEST NUMBER: P827774

CATALOG NUMBER: OHBL-30HE-W-UNV-L930-CD-UPL30

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 762.5 | 2.9 |
| 10°-20° | 2159.2 | 8.2 |
| 20°-30° | 3159.6 | 12.0 |
| 30°-40° | 4103.4 | 15.6 |
| 40°-50° | 5010.8 | 19.0 |
| 50°-60° | 4412.7 | 16.7 |
| 60°-70° | 2299.5 | 8.7 |
| 70°-80° | 986.1 | 3.7 |
| 80°-90° | 478.8 | 1.8 |
| 90°-100° | 413.8 | 1.6 |
| 100°-110° | 1003.4 | 3.8 |
| 110°-120° | 794.0 | 3.0 |
| 120°-130° | 380.5 | 1.4 |
| 130°-140° | 191.8 | 0.7 |
| 140°-150° | 109.8 | 0.4 |
| 150°-160° | 61.8 | 0.2 |
| 160°-170° | 30.1 | 0.1 |
| 170°-180° | 9.2 | 0.0 |
| 0°-30° | 6081.3 | 23.1 |
| 0°-40° | 10184.6 | 38.6 |
| 0°-60° | 19608.1 | 74.4 |
| 0°-90° | 23372.6 | 88.6 |
| 90°-120° | 2211.2 | 8.4 |
| 90°-150° | 2893.3 | 11.0 |
| 90°-180° | 2994.0 | 11.4 |
| 0°-180° | 26367.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 7979 | 7979 | 7979 | 7979 | 7979 | |
| 5° | 7905 | 7965 | 8008 | 8079 | 8070 | 750 |
| 15° | 7480 | 7690 | 7764 | 7705 | 7644 | 2106 |
| 25° | 6628 | 6982 | 6864 | 6734 | 6741 | 3042 |
| 35° | 5380 | 5948 | 6246 | 7284 | 7750 | 3353 |
| 45° | 3961 | 4984 | 6812 | 8248 | 8420 | 3054 |
| 55° | 2637 | 4366 | 6344 | 5562 | 4944 | 2367 |
| 65° | 1513 | 3025 | 2904 | 1615 | 1389 | 1497 |
| 75° | 609 | 1415 | 933 | 639 | 606 | 665 |
| 85° | 129 | 504 | 475 | 465 | 470 | 144 |
| 90° | 7 | 216 | 357 | 407 | 416 | 13 |
| 95° | 50 | 200 | 363 | 436 | 455 | 169 |
| 105° | 1039 | 1100 | 1122 | 916 | 832 | 982 |
| 115° | 723 | 747 | 812 | 838 | 826 | 725 |
| 125° | 363 | 378 | 430 | 437 | 434 | 338 |
| 135° | 216 | 220 | 243 | 266 | 267 | 171 |
| 145° | 164 | 163 | 169 | 181 | 184 | 104 |
| 155° | 134 | 137 | 135 | 136 | 136 | 61 |
| 165° | 104 | 104 | 105 | 107 | 107 | 30 |
| 175° | 94 | 95 | 95 | 95 | 95 | 9 |
| 180° | 93 | 93 | 93 | 93 | 93 | |



TEST NUMBER: P827774

CATALOG NUMBER: OHBL-30HE-W-UNV-L930-CD-UPL30

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 7979.2 | 7979.2 | 7979.2 | 7979.2 | 7979.2 |
| 2.5° | 7944.8 | 7979.2 | 7980.9 | 8029.1 | 8023.9 |
| 5° | 7905.2 | 7965.4 | 8008.5 | 8079.0 | 8070.4 |
| 7.5° | 7839.8 | 7934.4 | 8010.2 | 8087.6 | 8080.7 |
| 10° | 7746.8 | 7875.9 | 7975.7 | 8039.4 | 8018.7 |
| 12.5° | 7626.3 | 7796.7 | 7894.8 | 7908.6 | 7869.0 |
| 15° | 7480.0 | 7690.0 | 7764.0 | 7705.4 | 7643.5 |
| 17.5° | 7314.7 | 7560.8 | 7586.7 | 7459.3 | 7381.9 |
| 20° | 7108.1 | 7388.7 | 7362.9 | 7187.3 | 7101.2 |
| 22.5° | 6879.2 | 7199.3 | 7116.7 | 6932.5 | 6849.9 |
| 25° | 6627.8 | 6982.5 | 6863.6 | 6734.5 | 6741.4 |
| 27.5° | 6333.5 | 6736.2 | 6620.9 | 6679.4 | 6789.6 |
| 30° | 6033.9 | 6478.1 | 6407.4 | 6748.3 | 6965.2 |
| 32.5° | 5705.1 | 6212.9 | 6276.6 | 6949.7 | 7304.3 |
| 35° | 5379.7 | 5947.8 | 6245.7 | 7283.7 | 7750.2 |
| 37.5° | 5019.9 | 5679.3 | 6295.5 | 7669.3 | 8158.3 |
| 40° | 4670.5 | 5417.6 | 6409.2 | 8015.4 | 8428.5 |
| 42.5° | 4314.1 | 5183.4 | 6600.3 | 8220.2 | 8542.1 |
| 45° | 3961.2 | 4983.8 | 6812.0 | 8247.7 | 8419.9 |
| 47.5° | 3608.3 | 4815.1 | 6958.4 | 8029.1 | 7950.0 |
| 50° | 3267.4 | 4665.3 | 6968.6 | 7504.1 | 7180.4 |
| 52.5° | 2949.0 | 4527.6 | 6779.3 | 6667.4 | 6164.8 |
| 55° | 2637.3 | 4365.7 | 6343.7 | 5562.2 | 4944.2 |
| 57.5° | 2353.3 | 4142.0 | 5672.4 | 4374.4 | 3699.5 |
| 60° | 2052.0 | 3838.9 | 4804.7 | 3200.3 | 2668.3 |
| 62.5° | 1774.9 | 3461.9 | 3832.1 | 2227.6 | 1917.8 |
| 65° | 1513.2 | 3024.7 | 2904.2 | 1614.8 | 1389.3 |
| 67.5° | 1236.0 | 2572.0 | 2143.3 | 1177.5 | 1032.9 |
| 70° | 1019.1 | 2151.9 | 1595.8 | 915.8 | 831.5 |
| 72.5° | 797.1 | 1752.5 | 1193.0 | 743.7 | 697.2 |
| 75° | 609.4 | 1415.1 | 933.1 | 638.7 | 606.0 |
| 77.5° | 449.4 | 1119.0 | 750.5 | 564.6 | 533.7 |
| 80° | 315.0 | 881.4 | 628.3 | 504.4 | 492.4 |
| 82.5° | 211.8 | 681.7 | 535.4 | 480.3 | 482.0 |
| 85° | 129.1 | 504.4 | 475.1 | 464.8 | 470.0 |
| 87.5° | 62.0 | 358.1 | 408.0 | 423.5 | 428.7 |
| 90° | 7.4 | 215.6 | 357.0 | 407.4 | 416.0 |
| 92.5° | 17.0 | 180.7 | 328.8 | 385.7 | 395.9 |
| 95° | 49.6 | 199.7 | 362.8 | 435.7 | 454.8 |
| 97.5° | 284.8 | 367.5 | 466.3 | 550.6 | 587.3 |
| 100° | 560.5 | 662.6 | 637.0 | 687.3 | 696.5 |
| 102.5° | 881.4 | 959.6 | 875.8 | 794.0 | 773.3 |
| 105° | 1039.1 | 1100.5 | 1122.1 | 915.6 | 832.5 |



TEST NUMBER: P827774

CATALOG NUMBER: OHBL-30HE-W-UNV-L930-CD-UPL30

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 838.1 | 875.5 | 948.7 | 962.2 | 946.2 |
| 115° | 723.3 | 747.4 | 812.0 | 837.6 | 826.5 |
| 117.5° | 613.4 | 636.4 | 694.8 | 709.1 | 704.3 |
| 120° | 518.1 | 539.1 | 587.4 | 603.3 | 598.5 |
| 122.5° | 434.8 | 455.6 | 506.1 | 516.1 | 510.5 |
| 125° | 362.9 | 378.5 | 429.5 | 437.1 | 433.9 |
| 127.5° | 307.8 | 316.8 | 362.0 | 378.4 | 376.0 |
| 130° | 266.6 | 273.1 | 312.1 | 330.9 | 333.6 |
| 132.5° | 238.3 | 244.0 | 273.7 | 293.3 | 296.0 |
| 135° | 216.5 | 220.5 | 242.6 | 265.5 | 267.2 |
| 137.5° | 197.1 | 202.7 | 218.8 | 239.3 | 242.7 |
| 140° | 183.3 | 187.4 | 198.3 | 217.1 | 219.6 |
| 142.5° | 172.9 | 174.4 | 183.7 | 199.0 | 201.5 |
| 145° | 164.1 | 163.1 | 168.9 | 180.8 | 184.2 |
| 147.5° | 154.4 | 155.9 | 159.2 | 167.6 | 169.4 |
| 150° | 147.1 | 149.5 | 149.4 | 153.6 | 157.9 |
| 152.5° | 140.6 | 142.3 | 141.3 | 142.9 | 146.3 |
| 155° | 134.2 | 136.6 | 134.8 | 136.4 | 136.4 |
| 157.5° | 115.6 | 117.2 | 118.8 | 119.6 | 120.4 |
| 160° | 111.6 | 112.4 | 114.0 | 114.8 | 115.6 |
| 162.5° | 106.7 | 108.3 | 109.1 | 109.9 | 110.7 |
| 165° | 103.5 | 104.3 | 105.1 | 106.7 | 106.7 |
| 167.5° | 100.2 | 101.0 | 101.9 | 102.7 | 102.7 |
| 170° | 97.8 | 98.6 | 99.4 | 99.4 | 99.4 |
| 172.5° | 95.4 | 96.2 | 97.0 | 97.0 | 97.0 |
| 175° | 93.8 | 94.6 | 94.6 | 95.4 | 95.4 |
| 177.5° | 93.0 | 93.8 | 93.8 | 93.8 | 94.6 |
| 180° | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|--------|--------|--------|--------|--------|
| 107.5° | 1040.0 | 1099.3 | 1152.6 | 1056.6 | 946.9 |
| 110° | 954.3 | 1009.2 | 1069.9 | 1056.2 | 1003.1 |



(END OF REPORT)