

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: P827794

Luminaire Tested: **OHBL-36HE-N-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827794
REPORT IS A COMBINATION OF REPORTS P826314 AND G3-2310-221-2
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36HE-N-UNV-L930-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

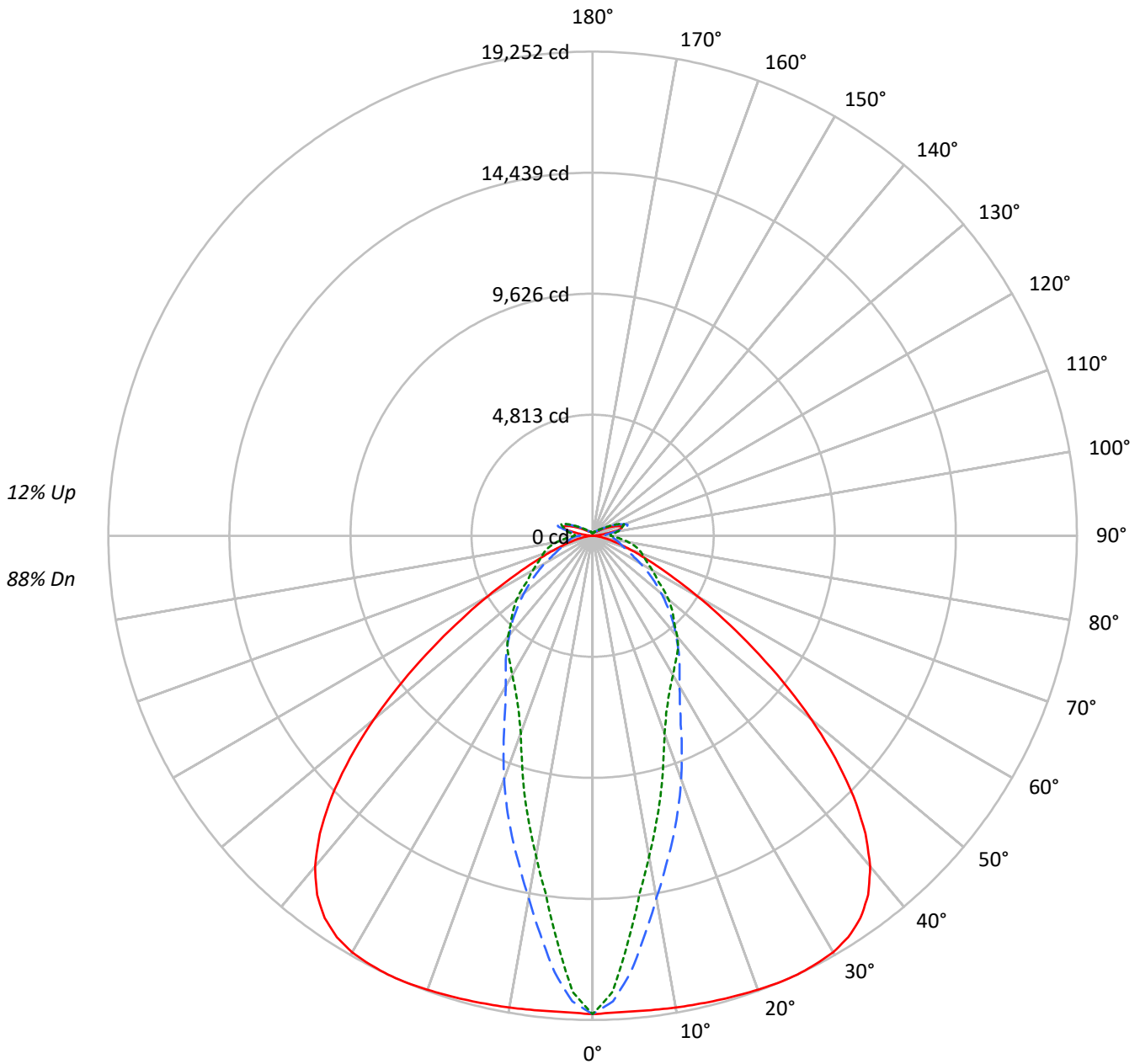
Lumens per Lamp: N/A
Luminaire Lumens: 30965.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 240.8
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: P827794

CATALOG NUMBER: OHBL-36HE-N-UNV-L930-CD-UPL36

Luminous Intensity Polar Plot





TEST NUMBER: P827794

CATALOG NUMBER: OHBL-36HE-N-UNV-L930-CD-UPL36

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 | 104 | 104 | 104 | 97 | 97 | 97 | 91 | 91 | 91 | 88 | | | | | | | | | | | | | | | | | | | |
| 1 | 107 | 102 | 98 | 95 | 103 | 99 | 95 | 92 | 92 | 90 | 87 | 86 | 84 | 82 | 81 | 79 | 78 | 75 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 91 | 84 | 79 | 94 | 88 | 82 | 77 | 82 | 78 | 74 | 77 | 74 | 70 | 73 | 70 | 67 | 64 | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 81 | 74 | 68 | 87 | 78 | 72 | 66 | 74 | 68 | 64 | 69 | 65 | 61 | 65 | 62 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 4 | 83 | 73 | 65 | 59 | 80 | 71 | 63 | 58 | 67 | 60 | 56 | 63 | 58 | 54 | 59 | 55 | 52 | 49 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 66 | 58 | 52 | 75 | 64 | 56 | 51 | 61 | 54 | 49 | 57 | 52 | 48 | 54 | 50 | 46 | 44 | | | | | | | | | | | | | | | | | | | |
| 6 | 72 | 60 | 52 | 46 | 69 | 58 | 51 | 45 | 55 | 49 | 44 | 53 | 47 | 43 | 50 | 45 | 41 | 39 | | | | | | | | | | | | | | | | | | | |
| 7 | 67 | 55 | 47 | 41 | 65 | 53 | 46 | 41 | 51 | 44 | 40 | 48 | 43 | 38 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 8 | 63 | 50 | 43 | 37 | 61 | 49 | 42 | 37 | 47 | 40 | 36 | 45 | 39 | 35 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 9 | 59 | 47 | 39 | 34 | 57 | 46 | 38 | 34 | 44 | 37 | 33 | 42 | 36 | 32 | 40 | 35 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 10 | 56 | 43 | 36 | 31 | 54 | 42 | 35 | 31 | 41 | 34 | 30 | 39 | 33 | 29 | 37 | 32 | 29 | 27 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 30077 | 30077 | 30077 |
| 5° | 29890 | 27403 | 25591 |
| 10° | 30099 | 23093 | 20620 |
| 15° | 30555 | 19759 | 17009 |
| 20° | 31273 | 16715 | 13828 |
| 25° | 32203 | 13842 | 12182 |
| 30° | 33150 | 11931 | 11382 |
| 35° | 33654 | 10880 | 10912 |
| 40° | 32878 | 9834 | 10425 |
| 45° | 30038 | 8893 | 9728 |
| 50° | 25139 | 7863 | 9215 |
| 55° | 18918 | 6894 | 8292 |
| 60° | 13099 | 5919 | 8048 |
| 65° | 8675 | 5105 | 8020 |
| 70° | 5798 | 4801 | 8623 |
| 75° | 3896 | 4966 | 9554 |
| 80° | 2540 | 5526 | 10458 |
| 85° | 1325 | 6975 | 12470 |



TEST NUMBER: P827794

CATALOG NUMBER: OHBL-36HE-N-UNV-L930-CD-UPL36

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1601.0 | 5.2 |
| 10°-20° | 3766.2 | 12.2 |
| 20°-30° | 4720.8 | 15.2 |
| 30°-40° | 5009.3 | 16.2 |
| 40°-50° | 4529.2 | 14.6 |
| 50°-60° | 3284.0 | 10.6 |
| 60°-70° | 2060.9 | 6.7 |
| 70°-80° | 1363.8 | 4.4 |
| 80°-90° | 791.9 | 2.6 |
| 90°-100° | 603.0 | 1.9 |
| 100°-110° | 1270.0 | 4.1 |
| 110°-120° | 995.8 | 3.2 |
| 120°-130° | 473.1 | 1.5 |
| 130°-140° | 235.9 | 0.8 |
| 140°-150° | 136.5 | 0.4 |
| 150°-160° | 77.1 | 0.2 |
| 160°-170° | 35.6 | 0.1 |
| 170°-180° | 10.9 | 0.0 |
| 0°-30° | 10088.0 | 32.6 |
| 0°-40° | 15097.3 | 48.8 |
| 0°-60° | 22910.6 | 74.0 |
| 0°-90° | 27127.2 | 87.6 |
| 90°-120° | 2868.8 | 9.3 |
| 90°-150° | 3714.2 | 12.0 |
| 90°-180° | 3838.0 | 12.4 |
| 0°-180° | 30965.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|-------|
| 0° | 19018 | 19018 | 19018 | 19018 | 19018 | |
| 5° | 18980 | 18494 | 17408 | 16600 | 16182 | ### |
| 15° | 19125 | 15588 | 12381 | 11011 | 10511 | 5424 |
| 25° | 19252 | 12053 | 8290 | 7358 | 7124 | 8894 |
| 35° | 18562 | 8013 | 6017 | 5828 | 5827 | 11539 |
| 45° | 14674 | 5075 | 4360 | 4466 | 4542 | 11179 |
| 55° | 7769 | 3146 | 2845 | 3086 | 3197 | 7019 |
| 65° | 2778 | 1825 | 1647 | 2111 | 2346 | 2891 |
| 75° | 858 | 983 | 1106 | 1718 | 1821 | 956 |
| 85° | 150 | 407 | 809 | 1126 | 1034 | 180 |
| 90° | 6 | 210 | 520 | 719 | 725 | 14 |
| 95° | 57 | 220 | 546 | 731 | 769 | 193 |
| 105° | 1208 | 1271 | 1421 | 1232 | 1162 | 1149 |
| 115° | 852 | 877 | 1030 | 1087 | 1084 | 861 |
| 125° | 432 | 453 | 537 | 557 | 547 | 405 |
| 135° | 261 | 270 | 300 | 328 | 328 | 206 |
| 145° | 198 | 204 | 212 | 228 | 227 | 126 |
| 155° | 164 | 172 | 176 | 180 | 176 | 73 |
| 165° | 122 | 124 | 124 | 125 | 126 | 35 |
| 175° | 112 | 112 | 112 | 112 | 113 | 11 |
| 180° | 110 | 110 | 110 | 110 | 110 | |



TEST NUMBER: P827794

CATALOG NUMBER: OHBL-36HE-N-UNV-L930-CD-UPL36

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 19018.5 | 19018.5 | 19018.5 | 19018.5 | 19018.5 |
| 2.5° | 18978.7 | 18870.1 | 18531.6 | 18325.2 | 18151.4 |
| 5° | 18980.5 | 18493.6 | 17407.5 | 16600.3 | 16182.1 |
| 7.5° | 19007.6 | 17925.2 | 15968.5 | 14790.2 | 14330.4 |
| 10° | 19049.3 | 17221.1 | 14625.4 | 13369.3 | 12940.3 |
| 12.5° | 19080.1 | 16428.2 | 13443.5 | 12152.9 | 11682.3 |
| 15° | 19125.3 | 15588.4 | 12380.9 | 11010.7 | 10511.2 |
| 17.5° | 19167.0 | 14797.4 | 11331.1 | 9899.3 | 9343.6 |
| 20° | 19208.6 | 13944.9 | 10281.3 | 8806.1 | 8348.1 |
| 22.5° | 19248.4 | 13045.2 | 9256.7 | 7957.1 | 7643.9 |
| 25° | 19252.0 | 12053.3 | 8290.2 | 7357.9 | 7124.5 |
| 27.5° | 19204.9 | 11025.2 | 7506.4 | 6856.6 | 6711.8 |
| 30° | 19123.5 | 10027.9 | 6898.2 | 6494.6 | 6391.4 |
| 32.5° | 18920.7 | 9010.6 | 6427.6 | 6145.2 | 6085.5 |
| 35° | 18562.3 | 8013.3 | 6016.7 | 5828.5 | 5826.6 |
| 37.5° | 17997.6 | 7128.1 | 5571.4 | 5538.9 | 5578.6 |
| 40° | 17163.2 | 6353.3 | 5149.6 | 5236.5 | 5236.5 |
| 42.5° | 16049.9 | 5680.0 | 4767.7 | 4856.5 | 4832.9 |
| 45° | 14674.3 | 5075.4 | 4360.5 | 4465.5 | 4541.5 |
| 47.5° | 13079.6 | 4543.3 | 3944.2 | 4146.9 | 4251.9 |
| 50° | 11345.6 | 4036.5 | 3564.0 | 3822.9 | 3942.3 |
| 52.5° | 9528.2 | 3567.7 | 3193.0 | 3489.8 | 3585.8 |
| 55° | 7768.9 | 3146.0 | 2845.4 | 3086.2 | 3196.6 |
| 57.5° | 6176.0 | 2744.0 | 2505.2 | 2733.2 | 2961.3 |
| 60° | 4805.8 | 2398.3 | 2184.8 | 2510.6 | 2738.6 |
| 62.5° | 3670.8 | 2090.7 | 1884.3 | 2302.5 | 2530.5 |
| 65° | 2778.5 | 1824.6 | 1647.1 | 2110.6 | 2345.9 |
| 67.5° | 2094.2 | 1594.7 | 1462.5 | 1971.2 | 2201.1 |
| 70° | 1572.9 | 1372.1 | 1314.1 | 1884.3 | 2090.7 |
| 72.5° | 1162.1 | 1167.5 | 1196.5 | 1808.2 | 1965.8 |
| 75° | 858.0 | 982.9 | 1106.0 | 1717.8 | 1820.9 |
| 77.5° | 613.6 | 814.6 | 1024.5 | 1609.1 | 1645.4 |
| 80° | 425.3 | 664.3 | 939.4 | 1466.2 | 1435.4 |
| 82.5° | 266.1 | 532.1 | 863.4 | 1308.7 | 1223.6 |
| 85° | 150.3 | 407.2 | 809.1 | 1125.8 | 1033.5 |
| 87.5° | 67.0 | 304.1 | 707.8 | 877.8 | 820.0 |
| 90° | 6.5 | 209.8 | 519.8 | 718.9 | 725.2 |
| 92.5° | 23.8 | 189.7 | 494.9 | 682.2 | 705.1 |
| 95° | 57.4 | 219.7 | 546.1 | 730.9 | 769.1 |
| 97.5° | 311.4 | 430.0 | 669.5 | 858.4 | 899.5 |
| 100° | 659.9 | 760.2 | 873.1 | 1000.2 | 1034.5 |
| 102.5° | 1029.6 | 1117.5 | 1142.4 | 1110.4 | 1100.6 |
| 105° | 1208.4 | 1271.1 | 1420.8 | 1231.6 | 1161.7 |



TEST NUMBER: P827794

CATALOG NUMBER: OHBL-36HE-N-UNV-L930-CD-UPL36

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|--------|--------|--------|--------|
| 112.5° | 996.2 | 1042.0 | 1197.9 | 1254.4 | 1237.6 |
| 115° | 852.5 | 877.4 | 1030.5 | 1086.8 | 1084.1 |
| 117.5° | 733.9 | 753.0 | 887.9 | 929.9 | 922.9 |
| 120° | 620.7 | 642.4 | 759.1 | 785.8 | 779.3 |
| 122.5° | 518.1 | 543.8 | 640.0 | 662.7 | 650.4 |
| 125° | 431.6 | 453.3 | 537.2 | 557.1 | 547.2 |
| 127.5° | 371.5 | 380.0 | 451.0 | 472.4 | 470.5 |
| 130° | 322.2 | 332.3 | 384.7 | 411.6 | 410.0 |
| 132.5° | 286.5 | 296.6 | 337.2 | 365.0 | 367.4 |
| 135° | 260.6 | 269.9 | 299.9 | 327.6 | 328.4 |
| 137.5° | 239.6 | 249.9 | 269.2 | 296.7 | 297.5 |
| 140° | 221.8 | 230.3 | 246.0 | 271.0 | 271.0 |
| 142.5° | 209.0 | 215.7 | 227.0 | 247.5 | 247.5 |
| 145° | 198.0 | 203.8 | 211.5 | 228.4 | 227.4 |
| 147.5° | 188.3 | 195.1 | 201.0 | 210.8 | 209.8 |
| 150° | 179.4 | 187.2 | 190.4 | 197.5 | 196.5 |
| 152.5° | 171.3 | 179.1 | 182.4 | 186.8 | 185.8 |
| 155° | 164.0 | 171.9 | 176.1 | 179.5 | 175.9 |
| 157.5° | 135.8 | 138.2 | 140.6 | 141.5 | 141.5 |
| 160° | 131.0 | 132.6 | 135.0 | 135.0 | 135.8 |
| 162.5° | 126.1 | 127.7 | 129.3 | 130.1 | 131.0 |
| 165° | 122.1 | 123.7 | 124.5 | 125.3 | 126.1 |
| 167.5° | 118.8 | 119.6 | 120.4 | 121.2 | 121.2 |
| 170° | 115.6 | 116.4 | 117.2 | 117.2 | 118.0 |
| 172.5° | 113.2 | 114.0 | 114.8 | 114.8 | 114.8 |
| 175° | 111.6 | 111.6 | 112.4 | 112.4 | 113.2 |
| 177.5° | 109.9 | 110.7 | 110.7 | 110.7 | 111.6 |
| 180° | 109.9 | 109.9 | 109.9 | 109.9 | 109.9 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|--------|--------|--------|--------|--------|
| 107.5° | 1219.7 | 1281.9 | 1453.7 | 1394.5 | 1266.5 |
| 110° | 1128.6 | 1189.8 | 1355.8 | 1376.7 | 1325.5 |



(END OF REPORT)