

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: P827810

Luminaire Tested: **OHBL-36SE-W-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827810
REPORT IS A COMBINATION OF REPORTS P826322 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-36SE-W-UNV-L930-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

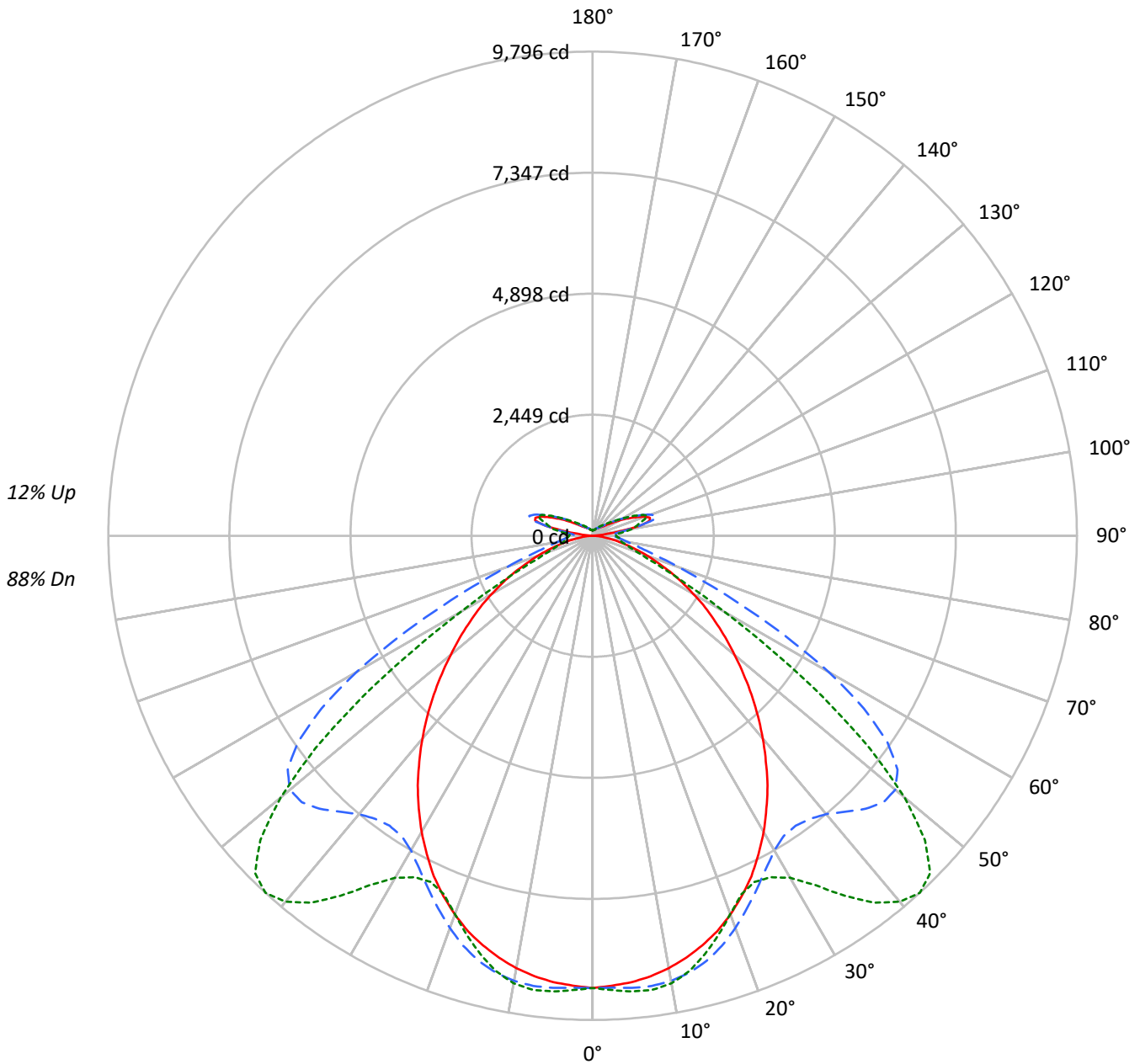
Lumens per Lamp: N/A
Luminaire Lumens: 30292.4 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 239.8
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: P827810

CATALOG NUMBER: OHBL-36SE-W-UNV-L930-CD-UPL36

Luminous Intensity Polar Plot





TEST NUMBER: P827810

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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 | 91 | 91 | 91 | 88 | | | | | | | | | | | | | | | | | | | |
| 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 | 86 | 81 | 76 | 81 | 76 | 72 | 76 | 72 | 69 | 72 | 68 | 66 | 63 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 79 | 71 | 64 | 85 | 76 | 69 | 63 | 72 | 66 | 61 | 67 | 62 | 58 | 63 | 59 | 56 | 53 | | | | | | | | | | | | | | | | | | | |
| 4 | 81 | 69 | 61 | 54 | 78 | 67 | 60 | 53 | 63 | 57 | 52 | 60 | 54 | 50 | 56 | 52 | 48 | 45 | | | | | | | | | | | | | | | | | | | |
| 5 | 74 | 62 | 53 | 47 | 72 | 60 | 52 | 46 | 57 | 50 | 44 | 54 | 48 | 43 | 51 | 45 | 41 | 39 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 40 | 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 | 36 | 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° | 14470 | 14470 | 14470 |
| 5° | 14275 | 14457 | 14636 |
| 10° | 14037 | 14441 | 14653 |
| 15° | 13704 | 14209 | 14183 |
| 20° | 13271 | 13727 | 13488 |
| 25° | 12713 | 13142 | 13218 |
| 30° | 11994 | 12709 | 14224 |
| 35° | 11185 | 12951 | 16645 |
| 40° | 10260 | 14035 | 19242 |
| 45° | 9298 | 15931 | 20683 |
| 50° | 8302 | 17630 | 19247 |
| 55° | 7365 | 17625 | 14707 |
| 60° | 6414 | 14928 | 8992 |
| 65° | 5417 | 10323 | 5447 |
| 70° | 4308 | 6686 | 3933 |
| 75° | 3173 | 4805 | 3646 |
| 80° | 2157 | 4238 | 4114 |
| 85° | 1305 | 4697 | 6502 |



TEST NUMBER: P827810

CATALOG NUMBER: OHBL-36SE-W-UNV-L930-CD-UPL36

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 874.4 | 2.9 |
| 10°-20° | 2476.0 | 8.2 |
| 20°-30° | 3623.2 | 12.0 |
| 30°-40° | 4705.5 | 15.5 |
| 40°-50° | 5746.0 | 19.0 |
| 50°-60° | 5060.3 | 16.7 |
| 60°-70° | 2636.9 | 8.7 |
| 70°-80° | 1130.8 | 3.7 |
| 80°-90° | 549.3 | 1.8 |
| 90°-100° | 477.5 | 1.6 |
| 100°-110° | 1165.8 | 3.8 |
| 110°-120° | 927.4 | 3.1 |
| 120°-130° | 445.5 | 1.5 |
| 130°-140° | 225.3 | 0.7 |
| 140°-150° | 129.1 | 0.4 |
| 150°-160° | 72.8 | 0.2 |
| 160°-170° | 35.6 | 0.1 |
| 170°-180° | 10.9 | 0.0 |
| 0°-30° | 6973.6 | 23.0 |
| 0°-40° | 11679.1 | 38.6 |
| 0°-60° | 22485.4 | 74.2 |
| 0°-90° | 26802.4 | 88.5 |
| 90°-120° | 2570.8 | 8.5 |
| 90°-150° | 3370.7 | 11.1 |
| 90°-180° | 3490.0 | 11.5 |
| 0°-180° | 30292.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 9150 | 9150 | 9150 | 9150 | 9150 | |
| 5° | 9065 | 9134 | 9184 | 9265 | 9255 | 860 |
| 15° | 8578 | 8818 | 8903 | 8836 | 8765 | 2415 |
| 25° | 7600 | 8007 | 7871 | 7723 | 7731 | 3488 |
| 35° | 6169 | 6821 | 7162 | 8352 | 8888 | 3845 |
| 45° | 4542 | 5715 | 7812 | 9458 | 9655 | 3503 |
| 55° | 3024 | 5006 | 7275 | 6378 | 5670 | 2714 |
| 65° | 1735 | 3469 | 3330 | 1852 | 1593 | 1717 |
| 75° | 699 | 1623 | 1070 | 732 | 695 | 762 |
| 85° | 148 | 578 | 545 | 533 | 539 | 165 |
| 90° | 8 | 249 | 410 | 469 | 480 | 15 |
| 95° | 54 | 223 | 420 | 505 | 528 | 189 |
| 105° | 1202 | 1261 | 1306 | 1056 | 980 | 1143 |
| 115° | 844 | 861 | 942 | 974 | 969 | 854 |
| 125° | 424 | 444 | 501 | 514 | 508 | 397 |
| 135° | 254 | 260 | 286 | 310 | 313 | 201 |
| 145° | 192 | 192 | 198 | 212 | 217 | 122 |
| 155° | 158 | 160 | 159 | 161 | 161 | 71 |
| 165° | 122 | 124 | 124 | 125 | 126 | 35 |
| 175° | 112 | 112 | 112 | 112 | 113 | 11 |
| 180° | 110 | 110 | 110 | 110 | 110 | |



TEST NUMBER: P827810

CATALOG NUMBER: OHBL-36SE-W-UNV-L930-CD-UPL36

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 9150.0 | 9150.0 | 9150.0 | 9150.0 | 9150.0 |
| 2.5° | 9110.6 | 9150.0 | 9152.0 | 9207.3 | 9201.3 |
| 5° | 9065.1 | 9134.2 | 9183.6 | 9264.6 | 9254.7 |
| 7.5° | 8990.1 | 9098.7 | 9185.6 | 9274.4 | 9266.5 |
| 10° | 8883.5 | 9031.6 | 9146.1 | 9219.1 | 9195.4 |
| 12.5° | 8745.4 | 8940.8 | 9053.3 | 9069.1 | 9023.7 |
| 15° | 8577.5 | 8818.4 | 8903.3 | 8836.1 | 8765.1 |
| 17.5° | 8388.1 | 8670.3 | 8699.9 | 8553.9 | 8465.0 |
| 20° | 8151.2 | 8473.0 | 8443.3 | 8241.9 | 8143.2 |
| 22.5° | 7888.6 | 8255.8 | 8161.0 | 7949.8 | 7855.1 |
| 25° | 7600.4 | 8007.0 | 7870.8 | 7722.7 | 7730.7 |
| 27.5° | 7262.8 | 7724.8 | 7592.4 | 7659.6 | 7785.9 |
| 30° | 6919.3 | 7428.6 | 7347.7 | 7738.6 | 7987.3 |
| 32.5° | 6542.2 | 7124.6 | 7197.6 | 7969.5 | 8376.2 |
| 35° | 6169.1 | 6820.6 | 7162.1 | 8352.5 | 8887.5 |
| 37.5° | 5756.5 | 6512.7 | 7219.4 | 8794.7 | 9355.3 |
| 40° | 5355.8 | 6212.5 | 7349.6 | 9191.5 | 9665.3 |
| 42.5° | 4947.2 | 5944.1 | 7568.7 | 9426.5 | 9795.5 |
| 45° | 4542.4 | 5715.1 | 7811.6 | 9458.0 | 9655.4 |
| 47.5° | 4137.8 | 5521.6 | 7979.4 | 9207.3 | 9116.5 |
| 50° | 3746.9 | 5349.9 | 7991.3 | 8605.2 | 8234.1 |
| 52.5° | 3381.7 | 5191.9 | 7774.1 | 7645.8 | 7069.4 |
| 55° | 3024.4 | 5006.3 | 7274.6 | 6378.4 | 5669.7 |
| 57.5° | 2698.6 | 4749.8 | 6504.7 | 5016.3 | 4242.4 |
| 60° | 2353.1 | 4402.3 | 5509.8 | 3669.9 | 3059.9 |
| 62.5° | 2035.3 | 3970.0 | 4394.4 | 2554.5 | 2199.2 |
| 65° | 1735.2 | 3468.6 | 3330.3 | 1851.7 | 1593.1 |
| 67.5° | 1417.4 | 2949.4 | 2457.8 | 1350.3 | 1184.5 |
| 70° | 1168.7 | 2467.7 | 1830.0 | 1050.3 | 953.5 |
| 72.5° | 914.0 | 2009.7 | 1368.1 | 852.8 | 799.5 |
| 75° | 698.8 | 1622.7 | 1070.0 | 732.4 | 694.9 |
| 77.5° | 515.2 | 1283.1 | 860.7 | 647.5 | 612.0 |
| 80° | 361.2 | 1010.7 | 720.5 | 578.4 | 564.6 |
| 82.5° | 242.8 | 781.7 | 613.9 | 550.8 | 552.7 |
| 85° | 148.1 | 578.4 | 544.8 | 533.0 | 538.9 |
| 87.5° | 71.1 | 410.6 | 467.9 | 485.6 | 491.5 |
| 90° | 8.4 | 248.9 | 410.2 | 468.8 | 479.5 |
| 92.5° | 20.2 | 208.4 | 378.1 | 444.8 | 459.5 |
| 95° | 54.1 | 222.6 | 419.6 | 505.4 | 528.2 |
| 97.5° | 306.3 | 425.7 | 538.8 | 645.1 | 670.4 |
| 100° | 655.0 | 753.0 | 745.5 | 799.0 | 821.0 |
| 102.5° | 1022.8 | 1107.6 | 1020.1 | 922.9 | 902.6 |
| 105° | 1201.8 | 1260.6 | 1305.9 | 1056.5 | 979.6 |



TEST NUMBER: P827810

CATALOG NUMBER: OHBL-36SE-W-UNV-L930-CD-UPL36

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|--------|--------|--------|--------|
| 112.5° | 990.0 | 1027.9 | 1101.9 | 1126.3 | 1104.4 |
| 115° | 844.5 | 860.7 | 942.2 | 973.6 | 969.4 |
| 117.5° | 726.0 | 739.6 | 811.2 | 831.7 | 824.7 |
| 120° | 612.8 | 628.6 | 694.0 | 706.3 | 701.8 |
| 122.5° | 510.1 | 531.3 | 590.2 | 603.9 | 595.4 |
| 125° | 423.6 | 444.1 | 501.2 | 513.7 | 507.6 |
| 127.5° | 363.5 | 370.3 | 425.0 | 440.7 | 442.7 |
| 130° | 314.2 | 320.7 | 365.0 | 386.4 | 388.7 |
| 132.5° | 280.2 | 286.7 | 322.4 | 344.6 | 351.0 |
| 135° | 254.4 | 260.0 | 286.2 | 310.3 | 313.1 |
| 137.5° | 233.4 | 238.2 | 256.8 | 280.7 | 285.4 |
| 140° | 215.6 | 220.4 | 233.1 | 256.1 | 258.1 |
| 142.5° | 203.0 | 205.9 | 215.8 | 234.0 | 236.0 |
| 145° | 192.0 | 192.1 | 198.1 | 212.3 | 217.1 |
| 147.5° | 182.3 | 183.6 | 187.6 | 196.3 | 199.1 |
| 150° | 173.4 | 175.8 | 175.2 | 180.7 | 185.4 |
| 152.5° | 165.3 | 167.7 | 167.1 | 167.9 | 172.6 |
| 155° | 158.0 | 160.5 | 159.0 | 160.6 | 160.6 |
| 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° | 1215.1 | 1268.8 | 1344.3 | 1237.3 | <i>1100.5</i> |
| 110° | 1122.1 | 1176.0 | 1250.2 | 1235.8 | <i>1175.9</i> |



(END OF REPORT)