

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: P826479

Luminaire Tested: **OHBL-15SE-A-UNV-L830-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826479
REPORT IS A COMBINATION OF REPORTS P826113 AND G3-2310-221-10
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-A-UNV-L830-CD-UPL15
Description:
Light Source: -
Ballast/Driver: -

Summary

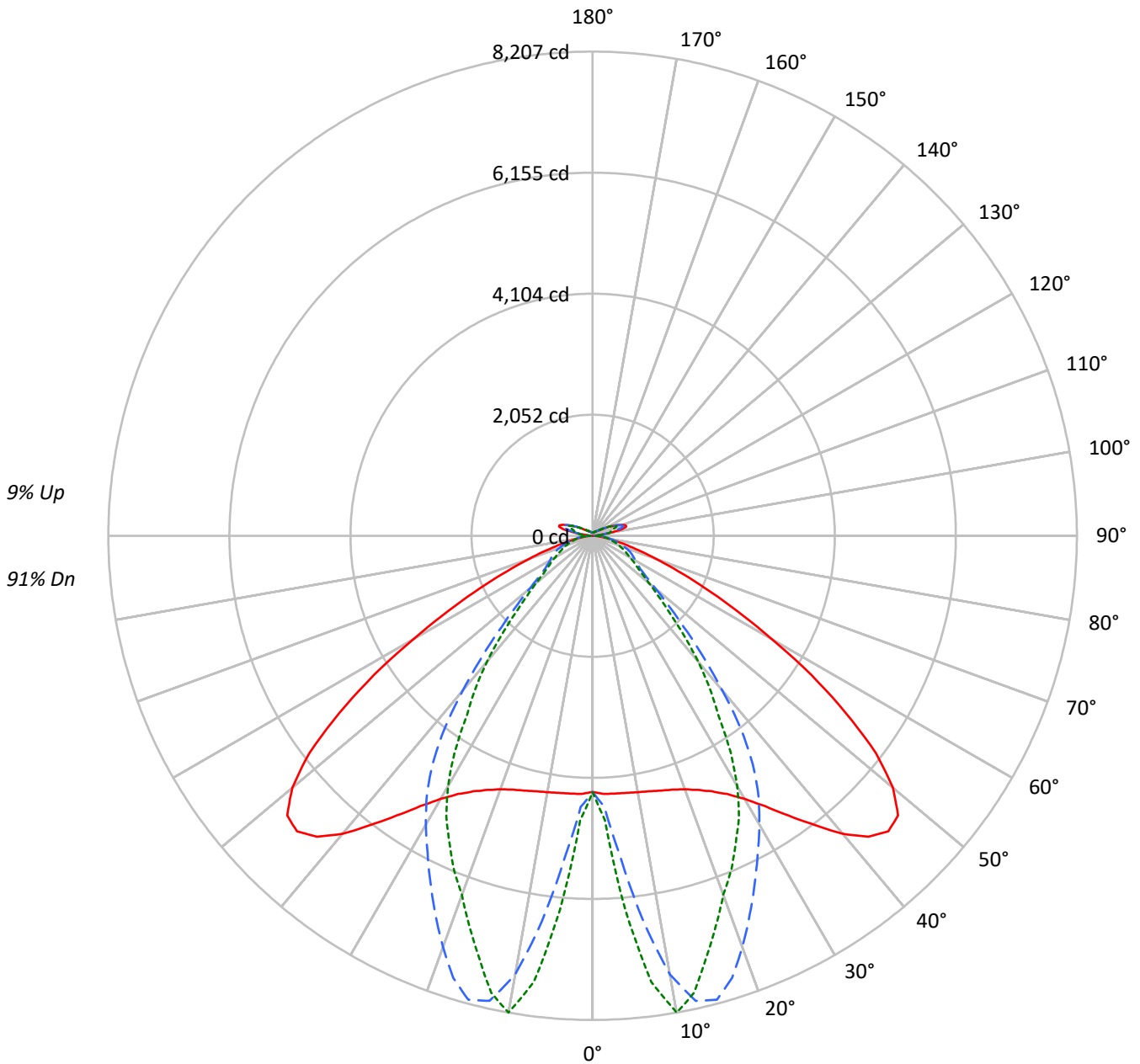
Lumens per Lamp: N/A
Luminaire Lumens: 15349.7 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Direct

Input Watts (W): 97.3
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: P826479

CATALOG NUMBER: OHBL-15SE-A-UNV-L830-CD-UPL15

Luminous Intensity Polar Plot





TEST NUMBER: P826479

CATALOG NUMBER: OHBL-15SE-A-UNV-L830-CD-UPL15

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 | 95 | 93 | 91 | 90 | 88 | 86 | 85 | 84 | 82 | 80 | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | 93 | 87 | 83 | 97 | 91 | 85 | 81 | 86 | 81 | 78 | 81 | 78 | 75 | 77 | 74 | 72 | 69 | | | | | | | | | | | | | | | | | | | |
| 3 | 93 | 84 | 77 | 71 | 90 | 81 | 75 | 70 | 77 | 72 | 68 | 73 | 69 | 65 | 70 | 66 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 4 | 86 | 75 | 68 | 62 | 83 | 73 | 66 | 61 | 70 | 64 | 59 | 67 | 62 | 58 | 64 | 59 | 56 | 54 | | | | | | | | | | | | | | | | | | | |
| 5 | 80 | 68 | 60 | 55 | 77 | 67 | 59 | 54 | 64 | 57 | 53 | 61 | 55 | 51 | 58 | 54 | 50 | 48 | | | | | | | | | | | | | | | | | | | |
| 6 | 74 | 62 | 54 | 49 | 72 | 61 | 53 | 48 | 58 | 52 | 47 | 56 | 50 | 46 | 53 | 49 | 45 | 43 | | | | | | | | | | | | | | | | | | | |
| 7 | 69 | 57 | 49 | 44 | 67 | 56 | 48 | 43 | 53 | 47 | 42 | 51 | 46 | 41 | 49 | 44 | 40 | 39 | | | | | | | | | | | | | | | | | | | |
| 8 | 65 | 52 | 45 | 39 | 63 | 51 | 44 | 39 | 49 | 43 | 38 | 47 | 42 | 38 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 9 | 60 | 48 | 41 | 36 | 59 | 47 | 40 | 35 | 46 | 39 | 35 | 44 | 38 | 34 | 42 | 37 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 10 | 57 | 45 | 38 | 33 | 55 | 44 | 37 | 32 | 42 | 36 | 32 | 41 | 35 | 31 | 40 | 34 | 31 | 29 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14129 | 14129 | 14129 |
| 5° | 14090 | 17672 | 20711 |
| 10° | 14106 | 24230 | 26902 |
| 15° | 14330 | 26250 | 24691 |
| 20° | 14805 | 24219 | 22066 |
| 25° | 15754 | 21653 | 20184 |
| 30° | 17415 | 19377 | 17948 |
| 35° | 20283 | 16847 | 14302 |
| 40° | 24141 | 12736 | 11382 |
| 45° | 27380 | 8606 | 8101 |
| 50° | 27401 | 5849 | 5992 |
| 55° | 23361 | 4553 | 4895 |
| 60° | 17135 | 4204 | 4404 |
| 65° | 11479 | 4147 | 4171 |
| 70° | 7124 | 3913 | 4040 |
| 75° | 4109 | 3511 | 3865 |
| 80° | 2269 | 2942 | 3988 |
| 85° | 979 | 2323 | 3698 |



TEST NUMBER: P826479

CATALOG NUMBER: OHBL-15SE-A-UNV-L830-CD-UPL15

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 567.0 | 3.7 |
| 10°-20° | 2001.1 | 13.0 |
| 20°-30° | 2948.7 | 19.2 |
| 30°-40° | 3098.6 | 20.2 |
| 40°-50° | 2371.0 | 15.4 |
| 50°-60° | 1431.7 | 9.3 |
| 60°-70° | 873.7 | 5.7 |
| 70°-80° | 476.9 | 3.1 |
| 80°-90° | 171.0 | 1.1 |
| 90°-100° | 135.5 | 0.9 |
| 100°-110° | 469.5 | 3.1 |
| 110°-120° | 403.5 | 2.6 |
| 120°-130° | 193.6 | 1.3 |
| 130°-140° | 96.8 | 0.6 |
| 140°-150° | 56.2 | 0.4 |
| 150°-160° | 32.8 | 0.2 |
| 160°-170° | 17.0 | 0.1 |
| 170°-180° | 5.2 | 0.0 |
| 0°-30° | 5516.7 | 35.9 |
| 0°-40° | 8615.4 | 56.1 |
| 0°-60° | 12418.1 | 80.9 |
| 0°-90° | 13939.6 | 90.8 |
| 90°-120° | 1008.5 | 6.6 |
| 90°-150° | 1355.2 | 8.8 |
| 90°-180° | 1410.0 | 9.2 |
| 0°-180° | 15349.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4343 | 4343 | 4343 | 4343 | 4343 | |
| 5° | 4386 | 4706 | 5490 | 6130 | 6366 | 419 |
| 15° | 4472 | 6965 | 8140 | 7596 | 7418 | 1272 |
| 25° | 4779 | 8084 | 6499 | 5884 | 5738 | 2233 |
| 35° | 5788 | 6474 | 4734 | 3943 | 3712 | 3672 |
| 45° | 7085 | 3694 | 2181 | 1919 | 1838 | 5353 |
| 55° | 5239 | 1252 | 993 | 920 | 917 | 4630 |
| 65° | 2100 | 793 | 730 | 625 | 593 | 2152 |
| 75° | 559 | 493 | 452 | 373 | 358 | 643 |
| 85° | 83 | 153 | 180 | 164 | 149 | 103 |
| 90° | 3 | 20 | 27 | 35 | 40 | 7 |
| 95° | 26 | 67 | 100 | 132 | 154 | 93 |
| 105° | 589 | 581 | 495 | 350 | 321 | 558 |
| 115° | 406 | 406 | 409 | 408 | 399 | 410 |
| 125° | 196 | 208 | 213 | 211 | 210 | 186 |
| 135° | 116 | 120 | 123 | 125 | 126 | 92 |
| 145° | 85 | 86 | 88 | 90 | 90 | 54 |
| 155° | 68 | 69 | 71 | 71 | 72 | 32 |
| 165° | 59 | 59 | 60 | 60 | 60 | 17 |
| 175° | 53 | 53 | 53 | 54 | 54 | 5 |
| 180° | 53 | 53 | 53 | 53 | 53 | |



TEST NUMBER: P826479

CATALOG NUMBER: OHBL-15SE-A-UNV-L830-CD-UPL15

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4342.8 | 4342.8 | 4342.8 | 4342.8 | 4342.8 |
| 2.5° | 4378.4 | 4423.1 | 4599.3 | 4782.1 | 4826.7 |
| 5° | 4386.5 | 4706.0 | 5489.8 | 6129.8 | 6366.4 |
| 7.5° | 4395.8 | 5164.3 | 6593.2 | 7376.9 | 7627.7 |
| 10° | 4413.4 | 5743.9 | 7549.3 | 8111.9 | 8206.7 |
| 12.5° | 4435.4 | 6357.8 | 8075.4 | 8054.9 | 7935.4 |
| 15° | 4471.9 | 6965.1 | 8140.2 | 7596.0 | 7417.5 |
| 17.5° | 4510.2 | 7478.9 | 7857.5 | 7096.6 | 6941.1 |
| 20° | 4572.7 | 7860.3 | 7417.8 | 6652.6 | 6475.9 |
| 22.5° | 4662.5 | 8070.0 | 6956.7 | 6251.1 | 6135.8 |
| 25° | 4778.6 | 8083.6 | 6498.8 | 5883.7 | 5738.5 |
| 27.5° | 4934.1 | 7896.0 | 6059.9 | 5523.7 | 5370.2 |
| 30° | 5145.7 | 7537.0 | 5652.0 | 5089.6 | 4899.3 |
| 32.5° | 5433.0 | 7020.2 | 5231.5 | 4565.6 | 4352.1 |
| 35° | 5788.3 | 6473.5 | 4734.5 | 3942.9 | 3712.3 |
| 37.5° | 6176.1 | 5866.4 | 4131.3 | 3391.4 | 3257.1 |
| 40° | 6593.2 | 5240.8 | 3416.3 | 2875.3 | 2779.3 |
| 42.5° | 6918.8 | 4560.7 | 2752.3 | 2389.5 | 2287.2 |
| 45° | 7084.7 | 3693.8 | 2180.9 | 1919.1 | 1838.4 |
| 47.5° | 7020.0 | 2867.3 | 1729.0 | 1524.8 | 1500.6 |
| 50° | 6643.0 | 2117.2 | 1384.0 | 1256.1 | 1246.0 |
| 52.5° | 6053.4 | 1578.1 | 1143.3 | 1064.1 | 1046.8 |
| 55° | 5239.3 | 1252.5 | 992.8 | 920.1 | 917.3 |
| 57.5° | 4398.9 | 1064.1 | 901.2 | 844.9 | 825.4 |
| 60° | 3502.4 | 948.8 | 831.7 | 768.2 | 728.5 |
| 62.5° | 2745.4 | 868.2 | 780.6 | 694.5 | 657.3 |
| 65° | 2100.4 | 792.9 | 730.4 | 625.0 | 593.1 |
| 67.5° | 1565.8 | 721.3 | 669.0 | 552.0 | 533.4 |
| 70° | 1140.9 | 647.7 | 598.9 | 490.9 | 476.2 |
| 72.5° | 813.0 | 574.3 | 528.9 | 433.5 | 417.4 |
| 75° | 559.3 | 493.1 | 452.3 | 373.2 | 358.1 |
| 77.5° | 377.3 | 410.3 | 377.0 | 318.6 | 312.3 |
| 80° | 252.0 | 325.3 | 304.8 | 270.0 | 266.1 |
| 82.5° | 152.9 | 236.2 | 240.6 | 219.5 | 208.9 |
| 85° | 83.3 | 152.9 | 180.2 | 164.2 | 149.0 |
| 87.5° | 32.6 | 84.8 | 124.2 | 111.6 | 105.1 |
| 90° | 2.8 | 20.5 | 27.0 | 35.4 | 40.0 |
| 92.5° | 9.3 | 26.1 | 42.8 | 59.6 | 68.9 |
| 95° | 26.1 | 67.0 | 99.6 | 132.1 | 153.5 |
| 97.5° | 154.5 | 174.0 | 189.8 | 218.7 | 235.4 |
| 100° | 313.6 | 338.7 | 278.2 | 292.2 | 298.7 |
| 102.5° | 504.4 | 487.6 | 360.1 | 323.8 | 318.2 |
| 105° | 589.0 | 580.7 | 495.1 | 349.9 | 321.0 |



TEST NUMBER: P826479

CATALOG NUMBER: OHBL-15SE-A-UNV-L830-CD-UPL15

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 473.7 | 480.2 | 471.8 | 455.0 | 438.3 |
| 115° | 405.7 | 405.7 | 409.4 | 407.6 | 399.2 |
| 117.5° | 348.0 | 346.2 | 349.9 | 348.0 | 346.2 |
| 120° | 290.3 | 294.1 | 295.0 | 293.1 | 292.2 |
| 122.5° | 240.1 | 247.5 | 252.2 | 249.4 | 248.5 |
| 125° | 196.3 | 207.5 | 213.1 | 211.2 | 210.3 |
| 127.5° | 167.5 | 174.0 | 181.5 | 181.5 | 179.6 |
| 130° | 145.2 | 149.8 | 155.4 | 156.3 | 156.3 |
| 132.5° | 129.3 | 133.1 | 137.7 | 138.7 | 139.6 |
| 135° | 116.3 | 120.0 | 122.8 | 124.7 | 125.6 |
| 137.5° | 107.0 | 108.9 | 112.6 | 113.5 | 114.5 |
| 140° | 97.7 | 100.5 | 103.3 | 104.2 | 105.2 |
| 142.5° | 91.2 | 93.1 | 94.9 | 96.8 | 96.8 |
| 145° | 84.7 | 86.5 | 88.4 | 90.3 | 90.3 |
| 147.5° | 80.0 | 81.9 | 83.8 | 83.8 | 84.7 |
| 150° | 75.4 | 77.2 | 78.2 | 79.1 | 79.1 |
| 152.5° | 71.7 | 72.6 | 74.4 | 74.4 | 75.4 |
| 155° | 67.9 | 68.9 | 70.7 | 70.7 | 71.7 |
| 157.5° | 65.1 | 66.1 | 67.0 | 67.9 | 67.9 |
| 160° | 62.3 | 63.3 | 64.2 | 64.2 | 65.1 |
| 162.5° | 60.5 | 61.4 | 61.4 | 62.3 | 62.3 |
| 165° | 58.6 | 58.6 | 59.6 | 59.6 | 59.6 |
| 167.5° | 56.8 | 56.8 | 57.7 | 57.7 | 58.6 |
| 170° | 54.9 | 55.8 | 55.8 | 55.8 | 56.8 |
| 172.5° | 54.0 | 54.0 | 54.9 | 54.9 | 54.9 |
| 175° | 53.0 | 53.0 | 53.0 | 54.0 | 54.0 |
| 177.5° | 52.1 | 53.0 | 53.0 | 53.0 | 53.0 |
| 180° | 53.0 | 53.0 | 53.0 | 53.0 | 53.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 589.0 | 590.0 | 546.2 | 420.6 | 352.7 |
| 110° | 543.4 | 548.1 | 523.9 | 476.4 | 418.8 |



(END OF REPORT)