

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: P826485

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P826485
REPORT IS A COMBINATION OF REPORTS P826116 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-N-UNV-L830-CD-UPL15
Description:
Light Source: -
Ballast/Driver: -

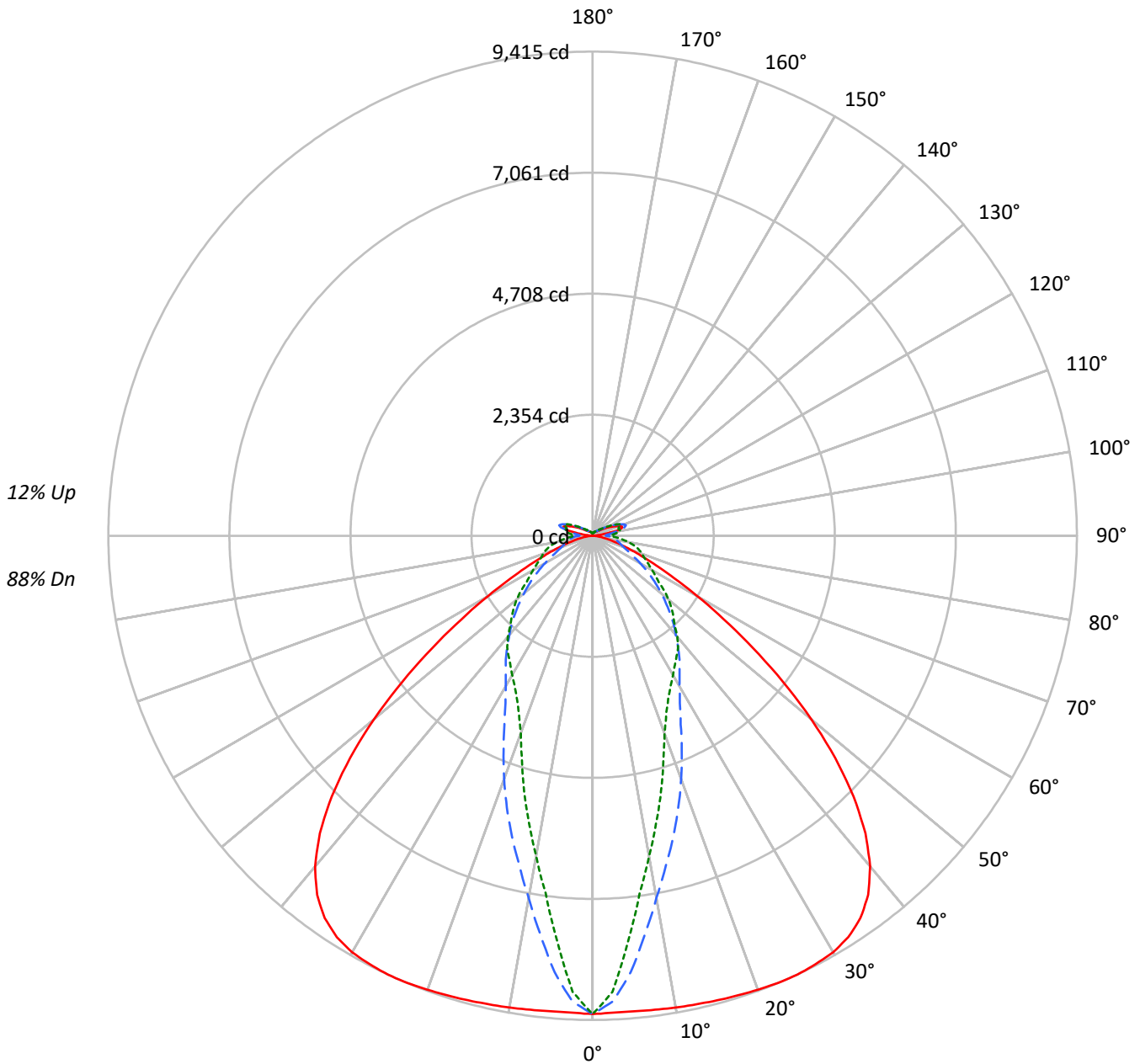
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15140.4 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-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: P826485
CATALOG NUMBER: OHBL-15SE-N-UNV-L830-CD-UPL15

Luminous Intensity Polar Plot





TEST NUMBER: P826485

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 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 | 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 | 41 | 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° | 30258 | 30258 | 30258 |
| 5° | 29815 | 27403 | 25744 |
| 10° | 29774 | 22956 | 20744 |
| 15° | 29971 | 19525 | 17111 |
| 20° | 30412 | 16416 | 13911 |
| 25° | 31038 | 13508 | 12254 |
| 30° | 31650 | 11565 | 11450 |
| 35° | 31809 | 10469 | 10978 |
| 40° | 30732 | 9389 | 10488 |
| 45° | 27733 | 8415 | 9787 |
| 50° | 22885 | 7365 | 9271 |
| 55° | 16940 | 6381 | 8341 |
| 60° | 11497 | 5400 | 8096 |
| 65° | 7426 | 4574 | 8068 |
| 70° | 4803 | 4199 | 8674 |
| 75° | 3083 | 4198 | 9611 |
| 80° | 1873 | 4435 | 10520 |
| 85° | 863 | 5100 | 12547 |



TEST NUMBER: P826485

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

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 782.9 | 5.2 |
| 10°-20° | 1841.7 | 12.2 |
| 20°-30° | 2308.6 | 15.2 |
| 30°-40° | 2449.7 | 16.2 |
| 40°-50° | 2214.9 | 14.6 |
| 50°-60° | 1606.0 | 10.6 |
| 60°-70° | 1007.8 | 6.7 |
| 70°-80° | 666.9 | 4.4 |
| 80°-90° | 387.8 | 2.6 |
| 90°-100° | 321.7 | 2.1 |
| 100°-110° | 598.1 | 4.0 |
| 110°-120° | 482.7 | 3.2 |
| 120°-130° | 232.1 | 1.5 |
| 130°-140° | 114.5 | 0.8 |
| 140°-150° | 65.8 | 0.4 |
| 150°-160° | 37.0 | 0.2 |
| 160°-170° | 17.0 | 0.1 |
| 170°-180° | 5.2 | 0.0 |
| <hr/> | | |
| 0°-30° | 4933.3 | 32.6 |
| 0°-40° | 7383.0 | 48.8 |
| 0°-60° | 11203.9 | 74.0 |
| 0°-90° | 13266.4 | 87.6 |
| 90°-120° | 1402.5 | 9.3 |
| 90°-150° | 1814.8 | 12.0 |
| 90°-180° | 1874.0 | 12.4 |
| 0°-180° | 15140.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 9300 | 9300 | 9300 | 9300 | 9300 | |
| 5° | 9282 | 9044 | 8513 | 8118 | 7913 | 887 |
| 15° | 9353 | 7623 | 6055 | 5384 | 5140 | 2652 |
| 25° | 9415 | 5894 | 4054 | 3598 | 3484 | 4349 |
| 35° | 9078 | 3919 | 2942 | 2850 | 2849 | 5643 |
| 45° | 7176 | 2482 | 2132 | 2184 | 2221 | 5467 |
| 55° | 3799 | 1538 | 1392 | 1509 | 1563 | 3433 |
| 65° | 1359 | 892 | 806 | 1032 | 1147 | 1414 |
| 75° | 420 | 481 | 541 | 840 | 890 | 468 |
| 85° | 74 | 199 | 396 | 551 | 506 | 88 |
| 90° | 3 | 104 | 256 | 358 | 366 | 7 |
| 95° | 30 | 125 | 301 | 407 | 440 | 96 |
| 105° | 596 | 620 | 642 | 545 | 521 | 565 |
| 115° | 416 | 433 | 508 | 532 | 526 | 419 |
| 125° | 207 | 222 | 264 | 275 | 273 | 195 |
| 135° | 125 | 131 | 145 | 159 | 160 | 99 |
| 145° | 95 | 98 | 102 | 111 | 110 | 60 |
| 155° | 78 | 82 | 85 | 86 | 85 | 35 |
| 165° | 59 | 59 | 60 | 60 | 60 | 17 |
| 175° | 53 | 53 | 53 | 54 | 54 | 5 |
| 180° | 53 | 53 | 53 | 53 | 53 | |



TEST NUMBER: P826485

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 9300.5 | 9300.5 | 9300.5 | 9300.5 | 9300.5 |
| 2.5° | 9281.1 | 9227.9 | 9062.4 | 8961.5 | 8876.5 |
| 5° | 9281.9 | 9043.8 | 8512.7 | 8117.9 | 7913.4 |
| 7.5° | 9295.2 | 8765.8 | 7809.0 | 7232.7 | 7007.9 |
| 10° | 9315.6 | 8421.5 | 7152.2 | 6537.9 | 6328.2 |
| 12.5° | 9330.6 | 8033.9 | 6574.2 | 5943.1 | 5712.9 |
| 15° | 9352.7 | 7623.1 | 6054.6 | 5384.5 | 5140.2 |
| 17.5° | 9373.1 | 7236.3 | 5541.2 | 4841.0 | 4569.3 |
| 20° | 9393.5 | 6819.4 | 5027.8 | 4306.3 | 4082.4 |
| 22.5° | 9412.9 | 6379.4 | 4526.8 | 3891.2 | 3738.1 |
| 25° | 9414.7 | 5894.4 | 4054.1 | 3598.3 | 3484.0 |
| 27.5° | 9391.7 | 5391.6 | 3670.9 | 3353.1 | 3282.3 |
| 30° | 9351.9 | 4903.8 | 3373.4 | 3176.0 | 3125.6 |
| 32.5° | 9252.7 | 4406.4 | 3143.2 | 3005.1 | 2975.9 |
| 35° | 9077.5 | 3918.7 | 2942.3 | 2850.3 | 2849.4 |
| 37.5° | 8801.3 | 3485.8 | 2724.6 | 2708.7 | 2728.1 |
| 40° | 8393.2 | 3106.9 | 2518.4 | 2560.8 | 2560.8 |
| 42.5° | 7848.9 | 2777.7 | 2331.5 | 2375.0 | 2363.4 |
| 45° | 7176.1 | 2482.1 | 2132.4 | 2183.7 | 2220.9 |
| 47.5° | 6396.3 | 2221.8 | 1928.8 | 2028.0 | 2079.2 |
| 50° | 5548.3 | 1973.9 | 1742.9 | 1869.5 | 1927.9 |
| 52.5° | 4659.6 | 1744.7 | 1561.5 | 1706.6 | 1753.5 |
| 55° | 3799.2 | 1538.4 | 1391.5 | 1509.2 | 1563.2 |
| 57.5° | 3020.2 | 1342.0 | 1225.1 | 1336.6 | 1448.1 |
| 60° | 2350.1 | 1172.9 | 1068.4 | 1227.8 | 1339.3 |
| 62.5° | 1795.1 | 1022.4 | 921.4 | 1126.0 | 1237.5 |
| 65° | 1358.7 | 892.2 | 805.5 | 1032.1 | 1147.2 |
| 67.5° | 1024.2 | 779.8 | 715.2 | 964.0 | 1076.4 |
| 70° | 769.2 | 670.9 | 642.6 | 921.4 | 1022.4 |
| 72.5° | 568.3 | 570.9 | 585.1 | 884.3 | 961.3 |
| 75° | 419.6 | 480.6 | 540.8 | 840.0 | 890.4 |
| 77.5° | 300.1 | 398.4 | 501.0 | 786.9 | 804.7 |
| 80° | 208.0 | 324.9 | 459.4 | 717.0 | 701.9 |
| 82.5° | 130.1 | 260.3 | 422.2 | 639.9 | 598.3 |
| 85° | 73.5 | 199.1 | 395.7 | 550.6 | 505.5 |
| 87.5° | 32.8 | 148.7 | 346.1 | 429.3 | 401.0 |
| 90° | 2.8 | 103.7 | 256.3 | 358.4 | 365.8 |
| 92.5° | 11.1 | 95.1 | 254.3 | 355.2 | 373.3 |
| 95° | 29.6 | 125.4 | 301.4 | 406.6 | 440.3 |
| 97.5° | 158.9 | 225.4 | 379.3 | 473.7 | 501.0 |
| 100° | 318.9 | 384.8 | 452.6 | 526.8 | 542.1 |
| 102.5° | 510.6 | 530.1 | 520.4 | 537.1 | 538.7 |
| 105° | 596.1 | 619.7 | 642.0 | 544.7 | 521.1 |



TEST NUMBER: P826485

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

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 482.5 | 510.2 | 582.4 | 594.9 | 582.6 |
| 115° | 415.5 | 433.2 | 508.5 | 531.5 | 525.8 |
| 117.5° | 358.6 | 370.1 | 436.6 | 456.9 | 456.0 |
| 120° | 300.9 | 315.3 | 369.3 | 386.1 | 385.2 |
| 122.5° | 250.7 | 265.2 | 314.2 | 326.4 | 324.6 |
| 125° | 207.0 | 221.7 | 263.5 | 275.0 | 273.1 |
| 127.5° | 177.3 | 185.6 | 222.2 | 234.6 | 231.8 |
| 130° | 154.9 | 161.4 | 188.2 | 201.5 | 201.5 |
| 132.5° | 138.2 | 143.7 | 164.2 | 177.6 | 178.6 |
| 135° | 125.2 | 130.6 | 145.0 | 159.2 | 160.1 |
| 137.5° | 115.9 | 120.4 | 131.2 | 143.6 | 144.5 |
| 140° | 106.5 | 111.1 | 119.2 | 130.7 | 131.7 |
| 142.5° | 101.0 | 103.7 | 109.1 | 119.8 | 119.8 |
| 145° | 95.3 | 98.1 | 101.7 | 110.6 | 109.7 |
| 147.5° | 90.6 | 94.3 | 97.1 | 101.4 | 101.5 |
| 150° | 86.0 | 90.5 | 91.5 | 95.0 | 94.2 |
| 152.5° | 82.3 | 85.9 | 87.8 | 89.5 | 89.5 |
| 155° | 78.5 | 82.2 | 84.9 | 85.8 | 85.0 |
| 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° | 596.1 | 626.3 | 680.8 | 595.0 | 533.3 |
| 110° | 551.4 | 580.9 | 646.9 | 632.2 | 580.8 |



(END OF REPORT)