

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: P828562

Luminaire Tested: **OHBL-12SE-N-UNV-L950-CD-UPL18**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P828562
REPORT IS A COMBINATION OF REPORTS P826152 AND G3-2310-221-8
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-N-UNV-L950-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

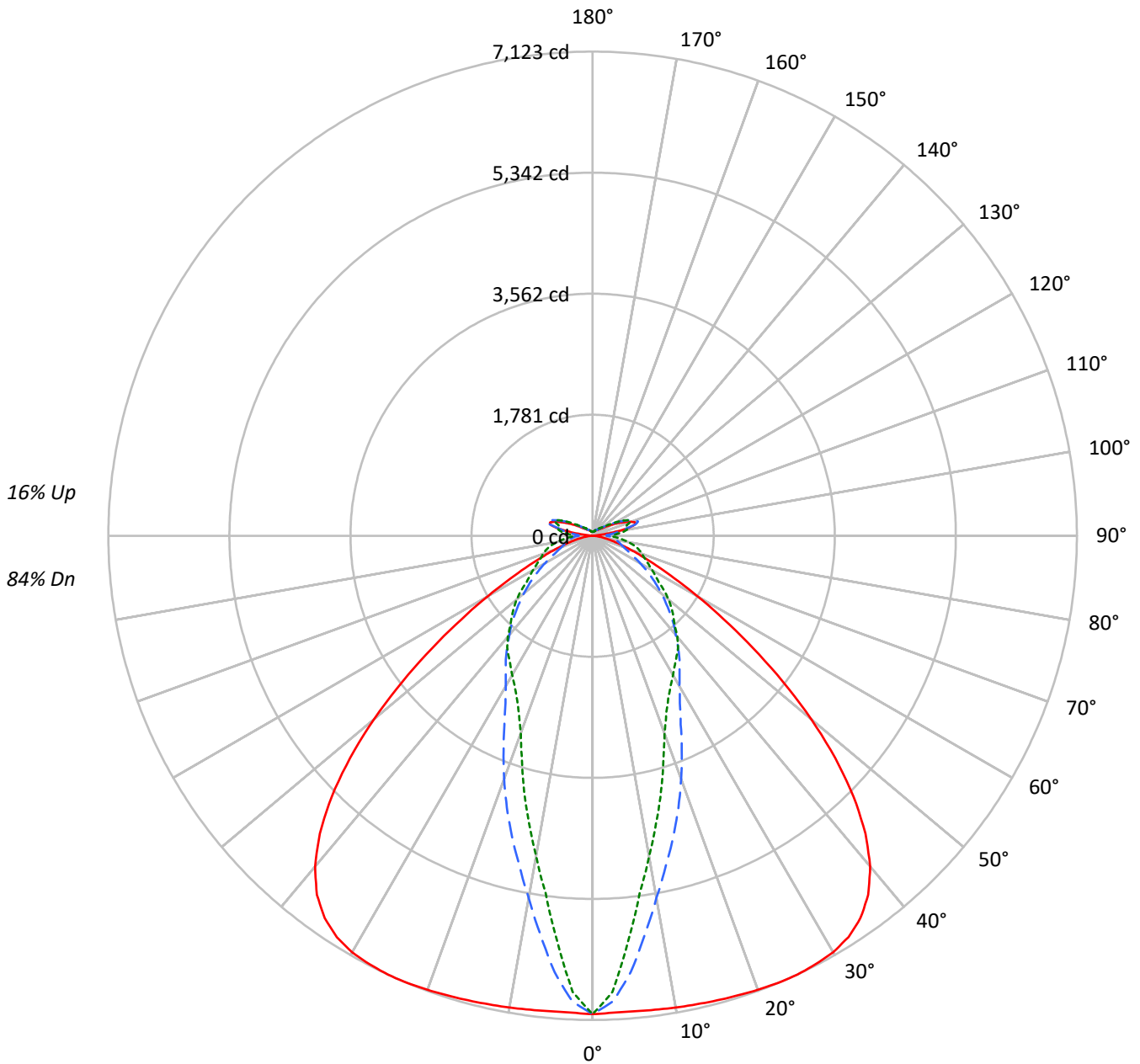
Lumens per Lamp: N/A
Luminaire Lumens: 11941.7 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 82.3
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: P828562

CATALOG NUMBER: OHBL-12SE-N-UNV-L950-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P828562

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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 | 115 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 102 | 102 | 102 | 95 | 95 | 95 | 87 | 87 | 87 | 84 | | | | | | | | | | | | | | | | | | | |
| 1 | 106 | 101 | 98 | 94 | 102 | 98 | 94 | 91 | 91 | 88 | 85 | 84 | 82 | 80 | 78 | 76 | 75 | 72 | | | | | | | | | | | | | | | | | | | |
| 2 | 97 | 90 | 84 | 79 | 93 | 87 | 81 | 76 | 81 | 76 | 72 | 75 | 71 | 68 | 70 | 67 | 65 | 62 | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 80 | 73 | 67 | 86 | 77 | 71 | 65 | 72 | 67 | 62 | 68 | 63 | 59 | 63 | 59 | 56 | 54 | | | | | | | | | | | | | | | | | | | |
| 4 | 83 | 72 | 64 | 58 | 79 | 70 | 62 | 57 | 65 | 59 | 54 | 61 | 56 | 52 | 57 | 53 | 50 | 47 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 65 | 57 | 51 | 74 | 63 | 56 | 50 | 59 | 53 | 48 | 56 | 50 | 46 | 52 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 6 | 71 | 59 | 51 | 45 | 68 | 57 | 50 | 44 | 54 | 48 | 43 | 51 | 46 | 41 | 48 | 43 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 7 | 66 | 54 | 46 | 41 | 64 | 53 | 45 | 40 | 50 | 43 | 39 | 47 | 41 | 37 | 44 | 40 | 36 | 34 | | | | | | | | | | | | | | | | | | | |
| 8 | 62 | 50 | 42 | 37 | 60 | 48 | 41 | 36 | 46 | 40 | 35 | 44 | 38 | 34 | 41 | 36 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 9 | 58 | 46 | 39 | 33 | 56 | 45 | 38 | 33 | 43 | 36 | 32 | 40 | 35 | 31 | 38 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 10 | 55 | 43 | 35 | 31 | 53 | 42 | 35 | 30 | 40 | 34 | 29 | 38 | 32 | 29 | 36 | 31 | 28 | 26 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 22893 | 22893 | 22893 |
| 5° | 22558 | 20733 | 19478 |
| 10° | 22527 | 17368 | 15695 |
| 15° | 22676 | 14772 | 12946 |
| 20° | 23010 | 12420 | 10525 |
| 25° | 23483 | 10220 | 9272 |
| 30° | 23946 | 8750 | 8663 |
| 35° | 24066 | 7921 | 8306 |
| 40° | 23252 | 7103 | 7935 |
| 45° | 20983 | 6366 | 7404 |
| 50° | 17315 | 5573 | 7014 |
| 55° | 12817 | 4828 | 6311 |
| 60° | 8699 | 4085 | 6125 |
| 65° | 5618 | 3461 | 6105 |
| 70° | 3634 | 3177 | 6563 |
| 75° | 2332 | 3177 | 7272 |
| 80° | 1417 | 3355 | 7960 |
| 85° | 653 | 3858 | 9491 |



TEST NUMBER: P828562

CATALOG NUMBER: OHBL-12SE-N-UNV-L950-CD-UPL18

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 592.3 | 5.0 |
| 10°-20° | 1393.5 | 11.7 |
| 20°-30° | 1746.7 | 14.6 |
| 30°-40° | 1853.4 | 15.5 |
| 40°-50° | 1675.8 | 14.0 |
| 50°-60° | 1215.1 | 10.2 |
| 60°-70° | 762.5 | 6.4 |
| 70°-80° | 504.6 | 4.2 |
| 80°-90° | 294.6 | 2.5 |
| 90°-100° | 289.7 | 2.4 |
| 100°-110° | 614.2 | 5.1 |
| 110°-120° | 504.2 | 4.2 |
| 120°-130° | 242.4 | 2.0 |
| 130°-140° | 119.9 | 1.0 |
| 140°-150° | 69.2 | 0.6 |
| 150°-160° | 39.3 | 0.3 |
| 160°-170° | 18.7 | 0.2 |
| 170°-180° | 5.7 | 0.0 |
| 0°-30° | 3732.5 | 31.3 |
| 0°-40° | 5585.9 | 46.8 |
| 0°-60° | 8476.8 | 71.0 |
| 0°-90° | 10038.5 | 84.1 |
| 90°-120° | 1408.1 | 11.8 |
| 90°-150° | 1839.5 | 15.4 |
| 90°-180° | 1903.0 | 15.9 |
| 0°-180° | 11941.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 7037 | 7037 | 7037 | 7037 | 7037 | |
| 5° | 7023 | 6842 | 6441 | 6142 | 5987 | 671 |
| 15° | 7076 | 5768 | 4581 | 4074 | 3889 | 2007 |
| 25° | 7123 | 4460 | 3067 | 2722 | 2636 | 3291 |
| 35° | 6868 | 2965 | 2226 | 2156 | 2156 | 4269 |
| 45° | 5429 | 1878 | 1613 | 1652 | 1680 | 4136 |
| 55° | 2874 | 1164 | 1053 | 1142 | 1183 | 2597 |
| 65° | 1028 | 675 | 610 | 781 | 868 | 1070 |
| 75° | 317 | 364 | 409 | 636 | 674 | 354 |
| 85° | 56 | 151 | 299 | 417 | 382 | 67 |
| 90° | 4 | 85 | 203 | 284 | 290 | 6 |
| 95° | 36 | 116 | 265 | 353 | 383 | 106 |
| 105° | 650 | 668 | 656 | 531 | 505 | 617 |
| 115° | 453 | 472 | 525 | 539 | 540 | 457 |
| 125° | 225 | 238 | 272 | 281 | 279 | 211 |
| 135° | 135 | 139 | 152 | 164 | 164 | 107 |
| 145° | 102 | 104 | 108 | 114 | 114 | 64 |
| 155° | 83 | 87 | 88 | 90 | 88 | 38 |
| 165° | 64 | 65 | 65 | 66 | 66 | 18 |
| 175° | 58 | 58 | 59 | 59 | 59 | 6 |
| 180° | 58 | 58 | 58 | 58 | 58 | |



TEST NUMBER: P828562

CATALOG NUMBER: OHBL-12SE-N-UNV-L950-CD-UPL18

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 7036.8 | 7036.8 | 7036.8 | 7036.8 | 7036.8 |
| 2.5° | 7022.0 | 6981.8 | 6856.6 | 6780.3 | 6715.9 |
| 5° | 7022.7 | 6842.5 | 6440.7 | 6142.0 | 5987.3 |
| 7.5° | 7032.8 | 6632.2 | 5908.2 | 5472.3 | 5302.1 |
| 10° | 7048.2 | 6371.7 | 5411.3 | 4946.5 | 4787.9 |
| 12.5° | 7059.5 | 6078.4 | 4974.0 | 4496.5 | 4322.4 |
| 15° | 7076.2 | 5767.6 | 4580.8 | 4073.9 | 3889.0 |
| 17.5° | 7091.6 | 5475.0 | 4192.5 | 3662.7 | 3457.1 |
| 20° | 7107.1 | 5159.5 | 3804.0 | 3258.2 | 3088.8 |
| 22.5° | 7121.8 | 4826.6 | 3424.9 | 2944.1 | 2828.2 |
| 25° | 7123.1 | 4459.6 | 3067.3 | 2722.4 | 2636.0 |
| 27.5° | 7105.7 | 4079.3 | 2777.4 | 2536.9 | 2483.3 |
| 30° | 7075.6 | 3710.3 | 2552.3 | 2403.0 | 2364.8 |
| 32.5° | 7000.6 | 3333.9 | 2378.2 | 2273.7 | 2251.6 |
| 35° | 6868.0 | 2964.8 | 2226.1 | 2156.5 | 2155.8 |
| 37.5° | 6659.0 | 2637.4 | 2061.4 | 2049.4 | 2064.1 |
| 40° | 6350.2 | 2350.7 | 1905.4 | 1937.5 | 1937.5 |
| 42.5° | 5938.4 | 2101.6 | 1764.0 | 1796.9 | 1788.2 |
| 45° | 5429.4 | 1877.9 | 1613.3 | 1652.2 | 1680.3 |
| 47.5° | 4839.4 | 1681.0 | 1459.3 | 1534.3 | 1573.2 |
| 50° | 4197.8 | 1493.4 | 1318.7 | 1414.4 | 1458.7 |
| 52.5° | 3525.4 | 1320.0 | 1181.4 | 1291.2 | 1326.7 |
| 55° | 2874.5 | 1164.0 | 1052.8 | 1141.8 | 1182.7 |
| 57.5° | 2285.1 | 1015.3 | 926.9 | 1011.3 | 1095.7 |
| 60° | 1778.1 | 887.4 | 808.3 | 928.9 | 1013.3 |
| 62.5° | 1358.2 | 773.5 | 697.2 | 851.9 | 936.3 |
| 65° | 1028.0 | 675.0 | 609.5 | 780.9 | 868.0 |
| 67.5° | 774.8 | 590.0 | 541.1 | 729.3 | 814.4 |
| 70° | 582.0 | 507.7 | 486.2 | 697.2 | 773.5 |
| 72.5° | 429.9 | 431.9 | 442.7 | 669.0 | 727.3 |
| 75° | 317.4 | 363.7 | 409.2 | 635.6 | 673.7 |
| 77.5° | 227.0 | 301.3 | 379.1 | 595.4 | 608.8 |
| 80° | 157.4 | 245.8 | 347.6 | 542.4 | 531.1 |
| 82.5° | 98.4 | 196.9 | 319.4 | 484.2 | 452.7 |
| 85° | 55.6 | 150.7 | 299.3 | 416.6 | 382.4 |
| 87.5° | 24.8 | 112.5 | 261.9 | 324.8 | 303.3 |
| 90° | 3.5 | 84.7 | 203.0 | 283.6 | 290.0 |
| 92.5° | 12.6 | 80.9 | 207.9 | 289.8 | 303.4 |
| 95° | 35.7 | 115.5 | 264.8 | 352.8 | 383.1 |
| 97.5° | 172.9 | 224.1 | 350.2 | 438.0 | 460.0 |
| 100° | 353.5 | 401.8 | 439.7 | 500.0 | 511.9 |
| 102.5° | 551.6 | 578.2 | 515.9 | 517.8 | 518.0 |
| 105° | 649.6 | 667.6 | 655.5 | 530.8 | 505.2 |



TEST NUMBER: P828562

CATALOG NUMBER: OHBL-12SE-N-UNV-L950-CD-UPL18

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 530.1 | 549.7 | 600.2 | 608.4 | 590.0 |
| 115° | 453.4 | 472.0 | 525.4 | 538.9 | 540.1 |
| 117.5° | 387.9 | 400.6 | 449.9 | 464.9 | 466.5 |
| 120° | 325.3 | 339.5 | 383.2 | 394.6 | 392.9 |
| 122.5° | 273.2 | 286.4 | 324.2 | 333.0 | 330.6 |
| 125° | 225.4 | 238.5 | 272.0 | 281.3 | 278.8 |
| 127.5° | 191.7 | 200.8 | 230.8 | 239.3 | 236.8 |
| 130° | 167.4 | 174.8 | 196.1 | 206.3 | 207.2 |
| 132.5° | 150.2 | 154.1 | 171.4 | 181.6 | 183.4 |
| 135° | 135.4 | 139.3 | 152.4 | 163.5 | 164.3 |
| 137.5° | 124.1 | 128.7 | 137.5 | 148.0 | 148.8 |
| 140° | 114.5 | 118.4 | 125.1 | 134.9 | 135.7 |
| 142.5° | 107.4 | 110.6 | 115.9 | 123.5 | 124.3 |
| 145° | 101.9 | 104.3 | 108.3 | 114.5 | 113.8 |
| 147.5° | 95.8 | 98.9 | 101.4 | 106.4 | 105.7 |
| 150° | 90.6 | 94.4 | 96.2 | 99.0 | 99.2 |
| 152.5° | 87.1 | 90.1 | 91.8 | 94.0 | 93.3 |
| 155° | 82.8 | 86.6 | 88.1 | 89.6 | 88.3 |
| 157.5° | 72.2 | 73.0 | 73.9 | 74.8 | 74.8 |
| 160° | 69.6 | 69.6 | 70.4 | 71.3 | 71.3 |
| 162.5° | 66.9 | 66.9 | 67.8 | 68.7 | 68.7 |
| 165° | 64.3 | 65.2 | 65.2 | 66.1 | 66.1 |
| 167.5° | 62.6 | 62.6 | 63.5 | 63.5 | 64.3 |
| 170° | 60.9 | 60.9 | 61.7 | 61.7 | 61.7 |
| 172.5° | 59.1 | 60.0 | 60.0 | 60.0 | 60.0 |
| 175° | 58.3 | 58.3 | 59.1 | 59.1 | 59.1 |
| 177.5° | 57.4 | 58.3 | 58.3 | 58.3 | 58.3 |
| 180° | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 655.7 | 677.8 | 701.7 | 597.9 | 527.0 |
| 110° | 601.6 | 627.3 | 669.6 | 642.2 | 586.9 |



(END OF REPORT)