

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: P828626

Luminaire Tested: **OHBL-18SE-W-UNV-L950-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828626
REPORT IS A COMBINATION OF REPORTS P826238 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-W-UNV-L950-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

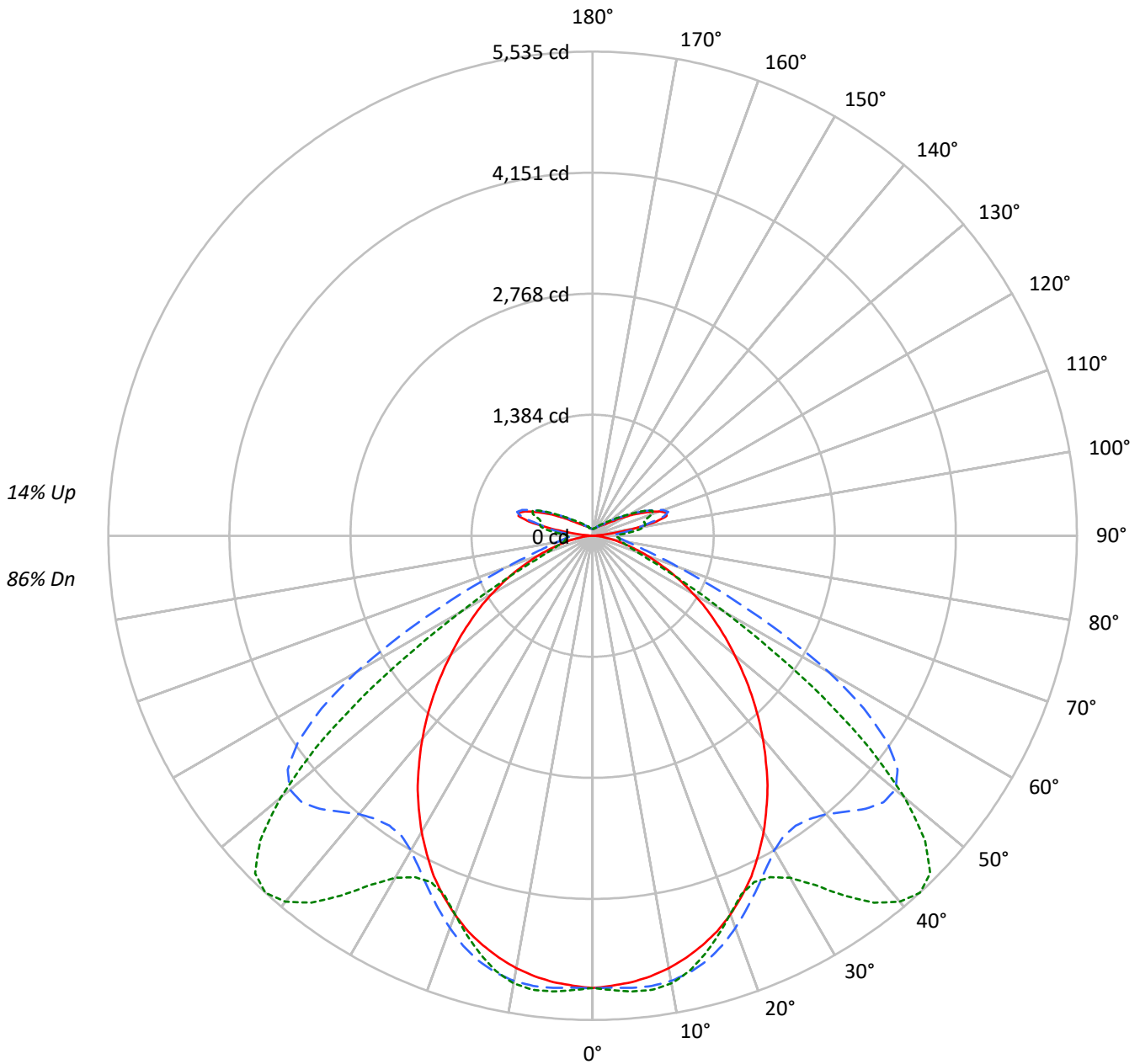
Lumens per Lamp: N/A
Luminaire Lumens: 17584.8 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 122.4
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: P828626

CATALOG NUMBER: OHBL-18SE-W-UNV-L950-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P828626

CATALOG NUMBER: OHBL-18SE-W-UNV-L950-CD-UPL24

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 | 111 | 111 | 111 | 111 | 103 | 103 | 103 | 96 | 96 | 96 | 89 | 89 | 89 | 86 | | | | | | | | | | | | | | | | | | | |
| 1 | 106 | 102 | 97 | 94 | 102 | 98 | 94 | 91 | 91 | 88 | 86 | 85 | 83 | 81 | 79 | 77 | 76 | 73 | | | | | | | | | | | | | | | | | | | |
| 2 | 97 | 89 | 82 | 77 | 93 | 86 | 80 | 75 | 80 | 75 | 71 | 75 | 71 | 67 | 70 | 67 | 64 | 61 | | | | | | | | | | | | | | | | | | | |
| 3 | 88 | 78 | 70 | 64 | 85 | 76 | 68 | 63 | 71 | 65 | 60 | 66 | 61 | 57 | 62 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 4 | 81 | 69 | 61 | 54 | 77 | 67 | 59 | 53 | 63 | 56 | 51 | 59 | 53 | 49 | 55 | 50 | 47 | 44 | | | | | | | | | | | | | | | | | | | |
| 5 | 74 | 62 | 53 | 46 | 71 | 60 | 52 | 46 | 56 | 49 | 44 | 53 | 47 | 42 | 49 | 44 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 6 | 68 | 55 | 46 | 40 | 65 | 54 | 45 | 40 | 50 | 43 | 38 | 47 | 41 | 37 | 45 | 39 | 35 | 33 | | | | | | | | | | | | | | | | | | | |
| 7 | 63 | 50 | 41 | 35 | 61 | 48 | 40 | 35 | 46 | 39 | 33 | 43 | 37 | 32 | 41 | 35 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 8 | 59 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 42 | 35 | 30 | 39 | 33 | 29 | 37 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | | |
| 9 | 55 | 41 | 33 | 28 | 52 | 40 | 33 | 27 | 38 | 31 | 27 | 36 | 30 | 26 | 34 | 29 | 25 | 23 | | | | | | | | | | | | | | | | | | | |
| 10 | 51 | 38 | 30 | 25 | 49 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 27 | 23 | 32 | 26 | 23 | 21 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|-------|-------|
| 0° | 8831 | 8831 | 8831 |
| 5° | 8706 | 8818 | 8931 |
| 10° | 8555 | 8805 | 8942 |
| 15° | 8346 | 8659 | 8655 |
| 20° | 8077 | 8361 | 8231 |
| 25° | 7733 | 8001 | 8066 |
| 30° | 7290 | 7733 | 8680 |
| 35° | 6793 | 7876 | 10157 |
| 40° | 6225 | 8530 | 11742 |
| 45° | 5636 | 9676 | 12622 |
| 50° | 5027 | 10699 | 11746 |
| 55° | 4453 | 10685 | 8975 |
| 60° | 3871 | 9040 | 5487 |
| 65° | 3263 | 6241 | 3324 |
| 70° | 2587 | 4034 | 2400 |
| 75° | 1898 | 2891 | 2225 |
| 80° | 1281 | 2538 | 2510 |
| 85° | 764 | 2787 | 3968 |



TEST NUMBER: P828626

CATALOG NUMBER: OHBL-18SE-W-UNV-L950-CD-UPL24

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 494.1 | 2.8 |
| 10°-20° | 1399.1 | 8.0 |
| 20°-30° | 2047.3 | 11.6 |
| 30°-40° | 2658.8 | 15.1 |
| 40°-50° | 3246.8 | 18.5 |
| 50°-60° | 2859.3 | 16.3 |
| 60°-70° | 1490.0 | 8.5 |
| 70°-80° | 639.0 | 3.6 |
| 80°-90° | 312.2 | 1.8 |
| 90°-100° | 345.7 | 2.0 |
| 100°-110° | 789.4 | 4.5 |
| 110°-120° | 653.3 | 3.7 |
| 120°-130° | 316.8 | 1.8 |
| 130°-140° | 158.6 | 0.9 |
| 140°-150° | 90.5 | 0.5 |
| 150°-160° | 51.1 | 0.3 |
| 160°-170° | 25.2 | 0.1 |
| 170°-180° | 7.7 | 0.0 |
| 0°-30° | 3940.4 | 22.4 |
| 0°-40° | 6599.2 | 37.5 |
| 0°-60° | 12705.3 | 72.3 |
| 0°-90° | 15146.5 | 86.1 |
| 90°-120° | 1788.5 | 10.2 |
| 90°-150° | 2354.3 | 13.4 |
| 90°-180° | 2438.0 | 13.9 |
| 0°-180° | 17584.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 5170 | 5170 | 5170 | 5170 | 5170 | |
| 5° | 5122 | 5161 | 5189 | 5235 | 5229 | 486 |
| 15° | 4847 | 4983 | 5031 | 4993 | 4953 | 1365 |
| 25° | 4294 | 4524 | 4447 | 4364 | 4368 | 1971 |
| 35° | 3486 | 3854 | 4047 | 4720 | 5022 | 2173 |
| 45° | 2567 | 3229 | 4414 | 5344 | 5456 | 1979 |
| 55° | 1709 | 2829 | 4110 | 3604 | 3204 | 1534 |
| 65° | 980 | 1960 | 1882 | 1046 | 900 | 970 |
| 75° | 395 | 917 | 605 | 414 | 393 | 431 |
| 85° | 84 | 327 | 308 | 301 | 304 | 93 |
| 90° | 6 | 148 | 244 | 286 | 298 | 9 |
| 95° | 48 | 166 | 311 | 388 | 420 | 145 |
| 105° | 876 | 902 | 839 | 649 | 608 | 832 |
| 115° | 608 | 630 | 672 | 685 | 682 | 614 |
| 125° | 302 | 321 | 354 | 364 | 362 | 282 |
| 135° | 181 | 184 | 201 | 215 | 218 | 143 |
| 145° | 135 | 136 | 140 | 148 | 151 | 85 |
| 155° | 110 | 112 | 111 | 112 | 112 | 50 |
| 165° | 87 | 88 | 89 | 89 | 89 | 25 |
| 175° | 78 | 79 | 79 | 80 | 80 | 8 |
| 180° | 78 | 78 | 78 | 78 | 78 | |



TEST NUMBER: P828626

CATALOG NUMBER: OHBL-18SE-W-UNV-L950-CD-UPL24

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 5170.2 | 5170.2 | 5170.2 | 5170.2 | 5170.2 |
| 2.5° | 5147.9 | 5170.2 | 5171.3 | 5202.6 | 5199.2 |
| 5° | 5122.2 | 5161.3 | 5189.2 | 5234.9 | 5229.3 |
| 7.5° | 5079.8 | 5141.2 | 5190.2 | 5240.5 | 5236.0 |
| 10° | 5019.6 | 5103.3 | 5168.0 | 5209.2 | 5195.9 |
| 12.5° | 4941.5 | 5052.0 | 5115.6 | 5124.4 | 5098.8 |
| 15° | 4846.7 | 4982.8 | 5030.8 | 4992.9 | 4952.7 |
| 17.5° | 4739.6 | 4899.1 | 4915.8 | 4833.3 | 4783.2 |
| 20° | 4605.8 | 4787.6 | 4770.8 | 4657.1 | 4601.3 |
| 22.5° | 4457.4 | 4664.9 | 4611.4 | 4492.0 | 4438.4 |
| 25° | 4294.5 | 4524.3 | 4447.4 | 4363.7 | 4368.2 |
| 27.5° | 4103.8 | 4364.8 | 4290.1 | 4328.0 | 4399.4 |
| 30° | 3909.7 | 4197.5 | 4151.8 | 4372.6 | 4513.2 |
| 32.5° | 3696.6 | 4025.7 | 4067.0 | 4503.1 | 4732.9 |
| 35° | 3485.9 | 3853.9 | 4046.9 | 4719.5 | 5021.8 |
| 37.5° | 3252.7 | 3679.9 | 4079.3 | 4969.4 | 5286.2 |
| 40° | 3026.3 | 3510.4 | 4152.9 | 5193.6 | 5461.3 |
| 42.5° | 2795.4 | 3358.7 | 4276.7 | 5326.4 | 5535.0 |
| 45° | 2566.7 | 3229.3 | 4413.9 | 5344.2 | 5455.8 |
| 47.5° | 2338.0 | 3120.0 | 4508.7 | 5202.6 | 5151.2 |
| 50° | 2117.2 | 3022.9 | 4515.4 | 4862.3 | 4652.6 |
| 52.5° | 1910.8 | 2933.7 | 4392.7 | 4320.2 | 3994.5 |
| 55° | 1708.9 | 2828.8 | 4110.5 | 3604.1 | 3203.6 |
| 57.5° | 1524.8 | 2683.8 | 3675.5 | 2834.4 | 2397.1 |
| 60° | 1329.6 | 2487.5 | 3113.3 | 2073.6 | 1729.0 |
| 62.5° | 1150.0 | 2243.2 | 2483.0 | 1443.5 | 1242.6 |
| 65° | 980.5 | 1959.9 | 1881.8 | 1046.3 | 900.2 |
| 67.5° | 800.9 | 1666.6 | 1388.8 | 762.9 | 669.3 |
| 70° | 660.3 | 1394.3 | 1034.0 | 593.4 | 538.8 |
| 72.5° | 516.4 | 1135.6 | 773.0 | 481.8 | 451.8 |
| 75° | 394.9 | 916.9 | 604.6 | 413.9 | 392.6 |
| 77.5° | 291.2 | 725.0 | 486.4 | 365.9 | 345.8 |
| 80° | 204.1 | 571.1 | 407.2 | 326.8 | 319.0 |
| 82.5° | 137.2 | 441.8 | 346.9 | 311.2 | 312.3 |
| 85° | 83.6 | 326.8 | 307.9 | 301.2 | 304.5 |
| 87.5° | 40.2 | 232.1 | 264.4 | 274.4 | 277.8 |
| 90° | 5.5 | 147.8 | 243.9 | 286.0 | 297.6 |
| 92.5° | 14.8 | 129.5 | 241.1 | 296.1 | 313.0 |
| 95° | 48.3 | 165.6 | 311.3 | 387.9 | 419.5 |
| 97.5° | 236.1 | 309.9 | 417.2 | 503.5 | 535.6 |
| 100° | 483.2 | 558.6 | 540.6 | 592.0 | 603.1 |
| 102.5° | 744.9 | 780.8 | 653.3 | 622.3 | 617.5 |
| 105° | 876.5 | 901.5 | 838.7 | 648.6 | 608.2 |



TEST NUMBER: P828626

CATALOG NUMBER: OHBL-18SE-W-UNV-L950-CD-UPL24

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 709.2 | 739.7 | 772.7 | 768.2 | 742.7 |
| 115° | 608.4 | 630.1 | 672.4 | 685.2 | 682.3 |
| 117.5° | 522.5 | 535.7 | 575.9 | 588.4 | 590.4 |
| 120° | 433.9 | 452.3 | 492.5 | 501.5 | 497.4 |
| 122.5° | 365.2 | 381.2 | 416.5 | 427.0 | 422.9 |
| 125° | 301.7 | 320.7 | 353.5 | 363.9 | 362.3 |
| 127.5° | 255.4 | 267.8 | 301.0 | 313.0 | 313.3 |
| 130° | 223.2 | 230.1 | 258.9 | 270.9 | 274.0 |
| 132.5° | 198.8 | 204.9 | 226.7 | 241.3 | 242.7 |
| 135° | 180.6 | 184.1 | 201.3 | 215.3 | 218.1 |
| 137.5° | 165.8 | 168.4 | 181.5 | 195.2 | 197.5 |
| 140° | 152.8 | 156.2 | 165.0 | 178.0 | 179.9 |
| 142.5° | 142.6 | 144.9 | 151.7 | 162.4 | 163.5 |
| 145° | 135.0 | 136.2 | 140.0 | 147.5 | 150.6 |
| 147.5° | 127.2 | 129.5 | 131.3 | 137.5 | 138.6 |
| 150° | 121.1 | 122.9 | 123.2 | 126.3 | 129.4 |
| 152.5° | 115.0 | 116.8 | 117.1 | 118.0 | 120.2 |
| 155° | 109.8 | 111.5 | 111.0 | 111.9 | 111.9 |
| 157.5° | 96.5 | 98.2 | 100.0 | 100.9 | 100.9 |
| 160° | 93.0 | 93.9 | 95.6 | 96.5 | 96.5 |
| 162.5° | 89.6 | 90.4 | 91.3 | 92.2 | 92.2 |
| 165° | 86.9 | 87.8 | 88.7 | 88.7 | 88.7 |
| 167.5° | 84.3 | 84.3 | 85.2 | 86.1 | 86.1 |
| 170° | 81.7 | 82.6 | 82.6 | 83.5 | 83.5 |
| 172.5° | 80.0 | 80.9 | 80.9 | 80.9 | 81.7 |
| 175° | 78.2 | 79.1 | 79.1 | 80.0 | 80.0 |
| 177.5° | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 |
| 180° | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 881.1 | 913.6 | 904.9 | 746.5 | 642.6 |
| 110° | 813.3 | 845.6 | 858.9 | 809.9 | 726.9 |



(END OF REPORT)