

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: P828563

Luminaire Tested: **OHBL-12SE-NL-UNV-L950-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828563
REPORT IS A COMBINATION OF REPORTS P826057 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-NL-UNV-L950-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

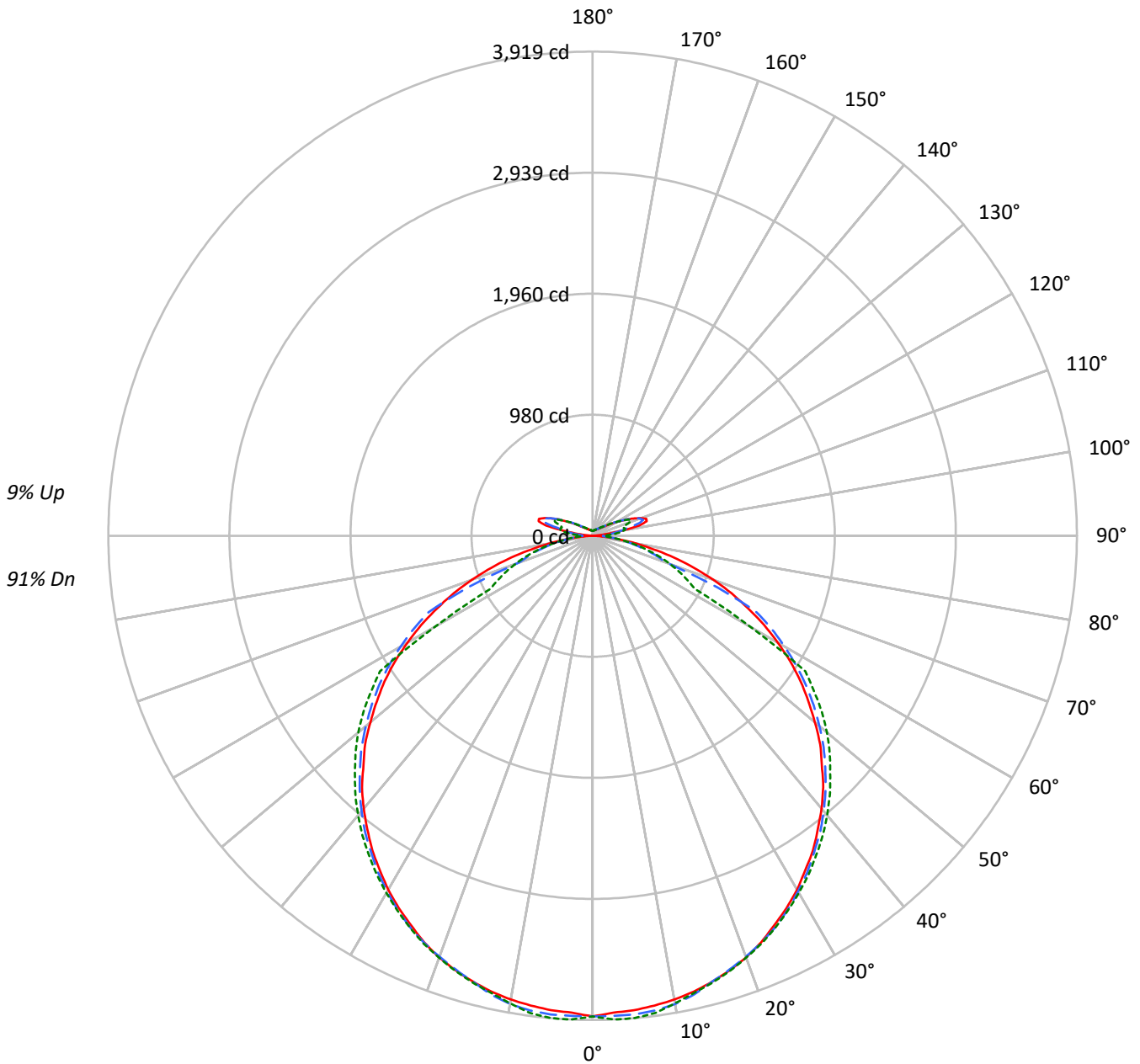
Lumens per Lamp: N/A
Luminaire Lumens: 12005.5 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.1')
CIE Type: Direct

Input Watts (W): 78.4
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: P828563

CATALOG NUMBER: OHBL-12SE-NL-UNV-L950-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P828563

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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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 99 | 99 | 99 | 93 | 93 | 93 | 91 | | | | | | | | | | | | | | | | | | | |
| 1 | 107 | 103 | 99 | 95 | 103 | 99 | 96 | 92 | 93 | 90 | 88 | 88 | 86 | 83 | 83 | 81 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 78 | 94 | 87 | 81 | 76 | 82 | 77 | 73 | 77 | 73 | 70 | 73 | 70 | 67 | 64 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 79 | 71 | 65 | 86 | 77 | 69 | 64 | 72 | 66 | 61 | 68 | 63 | 59 | 65 | 61 | 57 | 54 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 55 | 79 | 68 | 60 | 54 | 64 | 58 | 52 | 61 | 55 | 51 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 62 | 54 | 47 | 72 | 61 | 53 | 47 | 58 | 51 | 45 | 55 | 49 | 44 | 52 | 47 | 43 | 40 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 41 | 67 | 55 | 47 | 41 | 52 | 45 | 40 | 49 | 43 | 38 | 47 | 42 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 51 | 42 | 36 | 62 | 50 | 42 | 36 | 47 | 40 | 35 | 45 | 39 | 34 | 43 | 37 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 30 | 39 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 33 | 28 | 38 | 32 | 27 | 36 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 50 | 38 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 25 | 34 | 28 | 24 | 22 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12657 | 12657 | 12657 |
| 5° | 12462 | 12591 | 12767 |
| 10° | 12342 | 12491 | 12635 |
| 15° | 12214 | 12259 | 12525 |
| 20° | 12069 | 12113 | 12463 |
| 25° | 11853 | 11992 | 12406 |
| 30° | 11658 | 11813 | 12351 |
| 35° | 11432 | 11606 | 12303 |
| 40° | 11169 | 11404 | 12267 |
| 45° | 10826 | 11137 | 12191 |
| 50° | 10458 | 10838 | 12142 |
| 55° | 10019 | 10469 | 11936 |
| 60° | 9403 | 9949 | 9221 |
| 65° | 8559 | 9294 | 6142 |
| 70° | 7502 | 4701 | 5872 |
| 75° | 6027 | 4148 | 5474 |
| 80° | 4012 | 3337 | 4793 |
| 85° | 1447 | 2468 | 4148 |



TEST NUMBER: P828563

CATALOG NUMBER: OHBL-12SE-NL-UNV-L950-CD-UPL12

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 369.6 | 3.1 |
| 10°-20° | 1058.3 | 8.8 |
| 20°-30° | 1610.3 | 13.4 |
| 30°-40° | 1957.8 | 16.3 |
| 40°-50° | 2058.6 | 17.1 |
| 50°-60° | 1879.7 | 15.7 |
| 60°-70° | 1205.0 | 10.0 |
| 70°-80° | 569.2 | 4.7 |
| 80°-90° | 160.6 | 1.3 |
| 90°-100° | 145.2 | 1.2 |
| 100°-110° | 371.3 | 3.1 |
| 110°-120° | 312.3 | 2.6 |
| 120°-130° | 148.1 | 1.2 |
| 130°-140° | 74.1 | 0.6 |
| 140°-150° | 43.1 | 0.4 |
| 150°-160° | 25.2 | 0.2 |
| 160°-170° | 13.1 | 0.1 |
| 170°-180° | 4.0 | 0.0 |
| 0°-30° | 3038.2 | 25.3 |
| 0°-40° | 4996.0 | 41.6 |
| 0°-60° | 8934.3 | 74.4 |
| 0°-90° | 10869.1 | 90.5 |
| 90°-120° | 828.9 | 6.9 |
| 90°-150° | 1094.2 | 9.1 |
| 90°-180° | 1136.0 | 9.5 |
| 0°-180° | 12005.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3890 | 3890 | 3890 | 3890 | 3890 | |
| 5° | 3854 | 3869 | 3889 | 3910 | 3918 | 367 |
| 15° | 3738 | 3766 | 3737 | 3742 | 3745 | 1055 |
| 25° | 3478 | 3484 | 3496 | 3501 | 3499 | 1605 |
| 35° | 3109 | 3090 | 3126 | 3164 | 3155 | 1943 |
| 45° | 2622 | 2617 | 2662 | 2724 | 2720 | 2027 |
| 55° | 2055 | 2039 | 2108 | 2178 | 2184 | 1833 |
| 65° | 1384 | 1384 | 1465 | 840 | 843 | 1373 |
| 75° | 684 | 697 | 452 | 476 | 478 | 721 |
| 85° | 89 | 113 | 141 | 153 | 145 | 132 |
| 90° | 3 | 54 | 84 | 101 | 104 | 6 |
| 95° | 24 | 70 | 120 | 162 | 177 | 73 |
| 105° | 453 | 452 | 390 | 280 | 257 | 429 |
| 115° | 316 | 318 | 321 | 316 | 307 | 315 |
| 125° | 153 | 159 | 163 | 161 | 162 | 143 |
| 135° | 89 | 91 | 95 | 96 | 96 | 71 |
| 145° | 65 | 67 | 68 | 69 | 70 | 41 |
| 155° | 52 | 53 | 54 | 55 | 55 | 24 |
| 165° | 45 | 45 | 46 | 46 | 46 | 13 |
| 175° | 41 | 41 | 41 | 41 | 41 | 4 |
| 180° | 40 | 40 | 40 | 40 | 40 | |



TEST NUMBER: P828563

CATALOG NUMBER: OHBL-12SE-NL-UNV-L950-CD-UPL12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3890.4 | 3890.4 | 3890.4 | 3890.4 | 3890.4 |
| 2.5° | 3863.1 | 3876.2 | 3890.4 | 3908.8 | 3919.0 |
| 5° | 3854.2 | 3869.3 | 3889.0 | 3910.2 | 3918.4 |
| 7.5° | 3835.1 | 3856.2 | 3875.4 | 3890.4 | 3895.2 |
| 10° | 3811.2 | 3836.5 | 3847.5 | 3846.1 | 3842.7 |
| 12.5° | 3779.1 | 3805.8 | 3802.4 | 3786.6 | 3789.4 |
| 15° | 3737.5 | 3765.5 | 3736.9 | 3742.3 | 3745.0 |
| 17.5° | 3688.4 | 3715.7 | 3682.2 | 3693.1 | 3693.8 |
| 20° | 3631.1 | 3651.5 | 3625.6 | 3634.5 | 3634.5 |
| 22.5° | 3562.1 | 3576.4 | 3565.5 | 3571.6 | 3573.0 |
| 25° | 3478.1 | 3483.5 | 3495.8 | 3501.3 | 3498.6 |
| 27.5° | 3397.6 | 3390.7 | 3414.7 | 3427.6 | 3420.7 |
| 30° | 3308.1 | 3297.2 | 3325.2 | 3346.3 | 3338.1 |
| 32.5° | 3205.7 | 3198.9 | 3231.0 | 3256.2 | 3251.5 |
| 35° | 3108.8 | 3090.4 | 3125.8 | 3164.1 | 3155.2 |
| 37.5° | 2994.1 | 2983.2 | 3023.4 | 3063.7 | 3059.0 |
| 40° | 2882.1 | 2863.7 | 2909.4 | 2957.2 | 2952.5 |
| 42.5° | 2762.1 | 2740.1 | 2790.0 | 2847.3 | 2841.9 |
| 45° | 2622.0 | 2617.3 | 2661.6 | 2724.4 | 2719.7 |
| 47.5° | 2497.8 | 2473.9 | 2536.0 | 2596.8 | 2602.3 |
| 50° | 2347.6 | 2338.8 | 2395.4 | 2469.1 | 2474.6 |
| 52.5° | 2200.9 | 2194.7 | 2254.0 | 2328.5 | 2338.0 |
| 55° | 2054.8 | 2039.0 | 2108.1 | 2178.3 | 2183.9 |
| 57.5° | 1898.5 | 1882.1 | 1952.4 | 2028.8 | 2040.4 |
| 60° | 1731.2 | 1715.5 | 1792.6 | 1863.7 | 1482.1 |
| 62.5° | 1564.0 | 1553.0 | 1633.6 | 1157.1 | 932.6 |
| 65° | 1384.4 | 1384.4 | 1464.9 | 840.3 | 843.1 |
| 67.5° | 1216.5 | 1205.6 | 1092.3 | 754.9 | 754.9 |
| 70° | 1036.3 | 1040.4 | 629.4 | 661.6 | 662.2 |
| 72.5° | 855.4 | 870.4 | 543.4 | 569.3 | 570.7 |
| 75° | 684.0 | 697.0 | 452.5 | 476.5 | 478.5 |
| 77.5° | 502.5 | 386.4 | 363.9 | 382.3 | 383.0 |
| 80° | 352.9 | 243.7 | 278.6 | 296.2 | 294.2 |
| 82.5° | 206.1 | 170.7 | 204.1 | 217.1 | 216.4 |
| 85° | 89.4 | 113.3 | 141.3 | 152.9 | 144.7 |
| 87.5° | 28.6 | 70.3 | 88.0 | 94.9 | 94.2 |
| 90° | 2.6 | 53.9 | 83.6 | 101.3 | 103.5 |
| 92.5° | 7.8 | 50.0 | 87.6 | 115.3 | 120.2 |
| 95° | 23.7 | 70.3 | 119.9 | 161.6 | 177.3 |
| 97.5° | 118.8 | 142.2 | 176.4 | 218.1 | 228.2 |
| 100° | 241.4 | 269.8 | 236.0 | 258.4 | 263.5 |
| 102.5° | 385.1 | 386.0 | 287.7 | 270.5 | 266.8 |
| 105° | 452.9 | 451.8 | 390.0 | 279.6 | 257.2 |



TEST NUMBER: P828563

CATALOG NUMBER: OHBL-12SE-NL-UNV-L950-CD-UPL12

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 367.5 | 371.5 | 370.9 | 355.0 | 335.3 |
| 115° | 316.4 | 317.8 | 320.7 | 316.0 | 306.7 |
| 117.5° | 262.6 | 266.0 | 268.7 | 266.0 | 264.3 |
| 120° | 220.0 | 225.2 | 226.9 | 223.4 | 223.4 |
| 122.5° | 185.2 | 189.5 | 192.1 | 189.5 | 190.4 |
| 125° | 153.0 | 159.1 | 162.6 | 160.8 | 161.7 |
| 127.5° | 127.8 | 133.0 | 139.1 | 138.2 | 138.2 |
| 130° | 111.3 | 114.8 | 119.1 | 120.0 | 120.0 |
| 132.5° | 99.1 | 101.7 | 105.2 | 106.1 | 106.9 |
| 135° | 88.7 | 91.3 | 94.8 | 95.6 | 95.6 |
| 137.5° | 81.7 | 83.5 | 86.1 | 86.9 | 87.8 |
| 140° | 74.8 | 77.4 | 79.1 | 80.0 | 80.0 |
| 142.5° | 69.6 | 71.3 | 73.0 | 73.9 | 74.8 |
| 145° | 65.2 | 66.9 | 67.8 | 68.7 | 69.6 |
| 147.5° | 60.9 | 62.6 | 64.3 | 64.3 | 65.2 |
| 150° | 58.3 | 59.1 | 60.0 | 60.9 | 60.9 |
| 152.5° | 54.8 | 55.6 | 56.5 | 57.4 | 57.4 |
| 155° | 52.2 | 53.0 | 53.9 | 54.8 | 54.8 |
| 157.5° | 49.6 | 51.3 | 51.3 | 52.2 | 52.2 |
| 160° | 47.8 | 48.7 | 49.6 | 49.6 | 49.6 |
| 162.5° | 46.1 | 47.0 | 47.0 | 47.8 | 47.8 |
| 165° | 45.2 | 45.2 | 46.1 | 46.1 | 46.1 |
| 167.5° | 43.5 | 43.5 | 44.3 | 44.3 | 44.3 |
| 170° | 42.6 | 42.6 | 42.6 | 43.5 | 43.5 |
| 172.5° | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 |
| 175° | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 |
| 177.5° | 40.0 | 40.9 | 40.9 | 40.9 | 40.9 |
| 180° | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 455.5 | 460.6 | 427.8 | 330.5 | 270.7 |
| 110° | 417.9 | 426.1 | 409.0 | 370.6 | 321.4 |



(END OF REPORT)