

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: P828675

Luminaire Tested: **OHBL-30SE-A-UNV-L950-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828675
REPORT IS A COMBINATION OF REPORTS P826125 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-30SE-A-UNV-L950-CD-UPL15
Description:
Light Source: -
Ballast/Driver: -

Summary

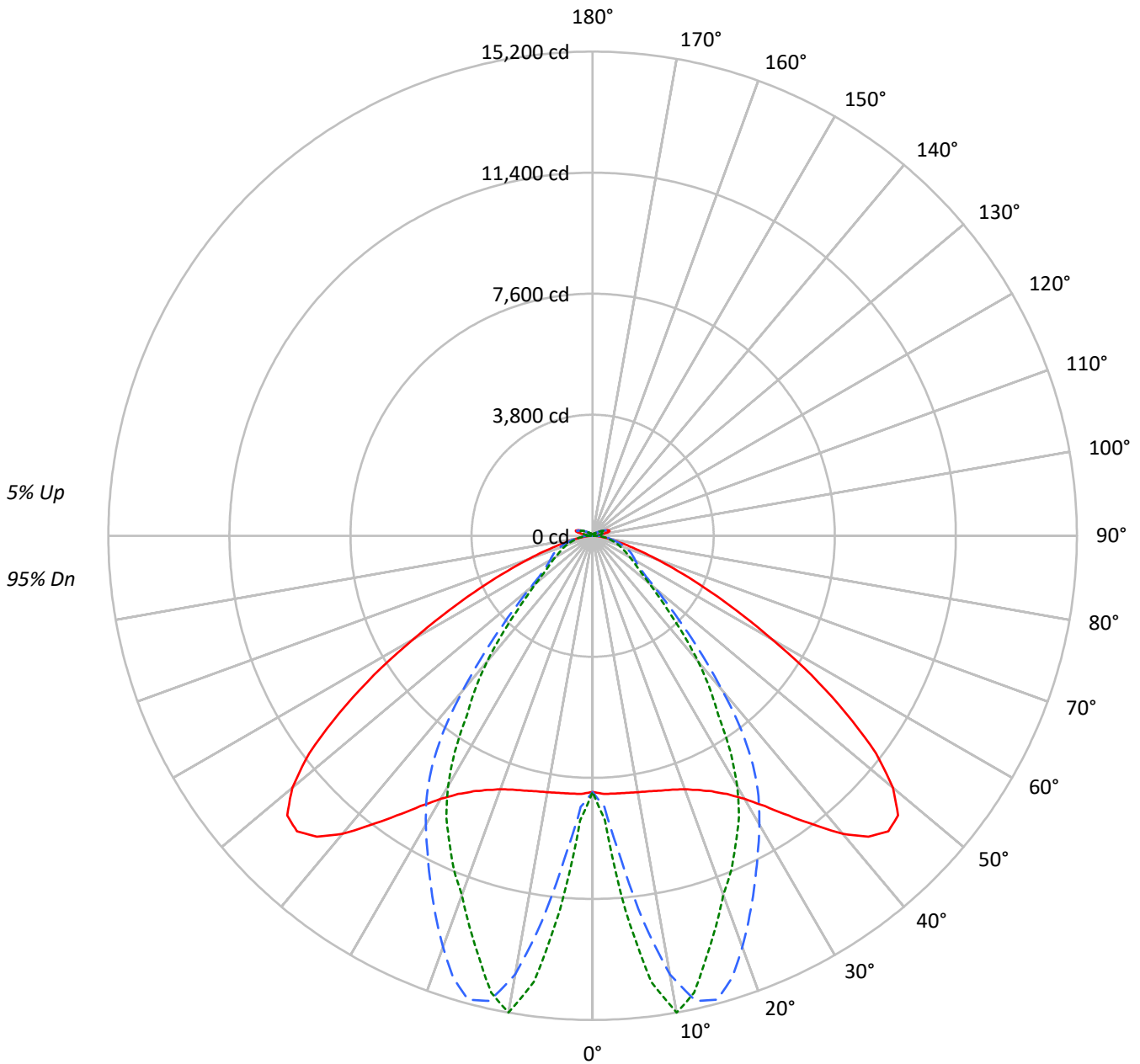
Lumens per Lamp: N/A
Luminaire Lumens: 27132.1 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 184.3
Input Voltage (V): NR
Input Current (Ain): 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: P828675

CATALOG NUMBER: OHBL-30SE-A-UNV-L950-CD-UPL15

Luminous Intensity Polar Plot





TEST NUMBER: P828675

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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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 108 | 108 | 108 | 103 | 103 | 103 | 98 | 98 | 98 | 95 | | | | | | | | | | | | | | | | | | | |
| 1 | 109 | 105 | 102 | 99 | 106 | 103 | 100 | 97 | 98 | 95 | 93 | 93 | 91 | 89 | 89 | 87 | 86 | 83 | | | | | | | | | | | | | | | | | | | |
| 2 | 101 | 94 | 88 | 84 | 98 | 92 | 87 | 82 | 88 | 83 | 80 | 84 | 80 | 77 | 80 | 77 | 75 | 73 | | | | | | | | | | | | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 91 | 83 | 76 | 71 | 79 | 74 | 69 | 76 | 71 | 68 | 73 | 69 | 66 | 64 | | | | | | | | | | | | | | | | | | | |
| 4 | 87 | 76 | 69 | 63 | 84 | 75 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 66 | 62 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 5 | 81 | 69 | 61 | 55 | 78 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 57 | 53 | 61 | 56 | 52 | 50 | | | | | | | | | | | | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 56 | 51 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 68 | 57 | 49 | 44 | 55 | 48 | 43 | 53 | 47 | 43 | 51 | 46 | 42 | 40 | | | | | | | | | | | | | | | | | | | |
| 8 | 65 | 53 | 45 | 40 | 64 | 52 | 45 | 40 | 51 | 44 | 39 | 49 | 43 | 39 | 48 | 42 | 38 | 37 | | | | | | | | | | | | | | | | | | | |
| 9 | 61 | 49 | 42 | 37 | 60 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | 44 | 39 | 35 | 33 | | | | | | | | | | | | | | | | | | | |
| 10 | 58 | 46 | 38 | 33 | 56 | 45 | 38 | 33 | 44 | 37 | 33 | 42 | 37 | 33 | 41 | 36 | 32 | 31 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13738 | 13738 | 13738 |
| 5° | 13808 | 17279 | 20139 |
| 10° | 13931 | 23822 | 26158 |
| 15° | 14263 | 25951 | 24009 |
| 20° | 14853 | 24079 | 21456 |
| 25° | 15936 | 21655 | 19626 |
| 30° | 17770 | 19498 | 17452 |
| 35° | 20890 | 17066 | 13907 |
| 40° | 25119 | 12997 | 11068 |
| 45° | 28813 | 8855 | 7877 |
| 50° | 29211 | 6074 | 5826 |
| 55° | 25284 | 4780 | 4760 |
| 60° | 18887 | 4473 | 4282 |
| 65° | 12946 | 4487 | 4056 |
| 70° | 8277 | 4328 | 3929 |
| 75° | 4977 | 4006 | 3759 |
| 80° | 2928 | 3519 | 3878 |
| 85° | 1410 | 3023 | 3596 |



TEST NUMBER: P828675

CATALOG NUMBER: OHBL-30SE-A-UNV-L950-CD-UPL15

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1050.1 | 3.9 |
| 10°-20° | 3706.2 | 13.7 |
| 20°-30° | 5461.4 | 20.1 |
| 30°-40° | 5739.0 | 21.2 |
| 40°-50° | 4391.4 | 16.2 |
| 50°-60° | 2651.7 | 9.8 |
| 60°-70° | 1618.2 | 6.0 |
| 70°-80° | 883.2 | 3.3 |
| 80°-90° | 313.3 | 1.2 |
| 90°-100° | 126.6 | 0.5 |
| 100°-110° | 438.7 | 1.6 |
| 110°-120° | 377.0 | 1.4 |
| 120°-130° | 180.9 | 0.7 |
| 130°-140° | 90.4 | 0.3 |
| 140°-150° | 52.5 | 0.2 |
| 150°-160° | 30.6 | 0.1 |
| 160°-170° | 15.9 | 0.1 |
| 170°-180° | 4.8 | 0.0 |
| 0°-30° | 10217.7 | 37.7 |
| 0°-40° | 15956.7 | 58.8 |
| 0°-60° | 22999.8 | 84.8 |
| 0°-90° | 25814.6 | 95.1 |
| 90°-120° | 942.3 | 3.5 |
| 90°-150° | 1266.2 | 4.7 |
| 90°-180° | 1318.0 | 4.9 |
| 0°-180° | 27132.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 8044 | 8044 | 8044 | 8044 | 8044 | |
| 5° | 8124 | 8716 | 10168 | 11353 | 11791 | 777 |
| 15° | 8282 | 12900 | 15077 | 14069 | 13738 | 2355 |
| 25° | 8851 | 14972 | 12037 | 10897 | 10628 | 4136 |
| 35° | 10721 | 11990 | 8769 | 7303 | 6876 | 6801 |
| 45° | 13122 | 6841 | 4039 | 3554 | 3405 | 9914 |
| 55° | 9704 | 2320 | 1839 | 1704 | 1699 | 8575 |
| 65° | 3890 | 1469 | 1353 | 1158 | 1098 | 3986 |
| 75° | 1036 | 913 | 838 | 691 | 663 | 1192 |
| 85° | 154 | 283 | 334 | 304 | 276 | 191 |
| 90° | 3 | 19 | 25 | 33 | 37 | 10 |
| 95° | 24 | 63 | 93 | 124 | 144 | 87 |
| 105° | 550 | 542 | 462 | 327 | 300 | 521 |
| 115° | 379 | 379 | 383 | 381 | 373 | 383 |
| 125° | 184 | 194 | 199 | 197 | 196 | 173 |
| 135° | 109 | 112 | 115 | 116 | 117 | 86 |
| 145° | 79 | 81 | 83 | 84 | 84 | 51 |
| 155° | 64 | 64 | 66 | 66 | 67 | 30 |
| 165° | 55 | 55 | 56 | 56 | 56 | 16 |
| 175° | 50 | 50 | 50 | 50 | 50 | 5 |
| 180° | 50 | 50 | 50 | 50 | 50 | |



TEST NUMBER: P828675

CATALOG NUMBER: OHBL-30SE-A-UNV-L950-CD-UPL15

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 8043.5 | 8043.5 | 8043.5 | 8043.5 | 8043.5 |
| 2.5° | 8109.3 | 8192.2 | 8518.4 | 8857.1 | 8939.5 |
| 5° | 8124.2 | 8716.1 | 10167.8 | 11353.3 | 11791.3 |
| 7.5° | 8141.4 | 9564.9 | 12211.4 | 13662.9 | 14127.4 |
| 10° | 8174.2 | 10638.3 | 13982.2 | 15024.3 | 15199.8 |
| 12.5° | 8214.9 | 11775.5 | 14956.6 | 14918.7 | 14697.3 |
| 15° | 8282.5 | 12900.2 | 15076.7 | 14068.8 | 13738.1 |
| 17.5° | 8353.5 | 13851.9 | 14553.1 | 13143.7 | 12855.8 |
| 20° | 8469.1 | 14558.2 | 13738.8 | 12321.5 | 11994.2 |
| 22.5° | 8635.7 | 14946.6 | 12884.7 | 11577.9 | 11364.3 |
| 25° | 8850.6 | 14971.8 | 12036.6 | 10897.4 | 10628.3 |
| 27.5° | 9138.6 | 14624.5 | 11223.6 | 10230.6 | 9946.4 |
| 30° | 9530.4 | 13959.5 | 10468.2 | 9426.6 | 9074.0 |
| 32.5° | 10062.6 | 13002.4 | 9689.4 | 8456.0 | 8060.7 |
| 35° | 10720.7 | 11989.6 | 8768.9 | 7302.6 | 6875.6 |
| 37.5° | 11438.8 | 10865.3 | 7651.6 | 6281.3 | 6032.6 |
| 40° | 12211.4 | 9706.7 | 6327.5 | 5325.5 | 5147.5 |
| 42.5° | 12814.4 | 8447.0 | 5097.6 | 4425.6 | 4236.3 |
| 45° | 13121.7 | 6841.4 | 4039.4 | 3554.4 | 3405.0 |
| 47.5° | 13002.0 | 5310.7 | 3202.3 | 2824.2 | 2779.4 |
| 50° | 12303.5 | 3921.4 | 2563.4 | 2326.5 | 2307.9 |
| 52.5° | 11211.6 | 2922.8 | 2117.4 | 1970.9 | 1938.8 |
| 55° | 9703.9 | 2319.9 | 1838.8 | 1704.2 | 1699.1 |
| 57.5° | 8147.3 | 1970.9 | 1669.1 | 1564.9 | 1528.7 |
| 60° | 6486.8 | 1757.3 | 1540.4 | 1422.8 | 1349.3 |
| 62.5° | 5084.8 | 1608.0 | 1445.9 | 1286.2 | 1217.6 |
| 65° | 3890.3 | 1468.7 | 1352.8 | 1157.6 | 1098.5 |
| 67.5° | 2900.0 | 1335.9 | 1239.0 | 1022.3 | 987.9 |
| 70° | 2112.9 | 1199.7 | 1109.2 | 909.2 | 882.0 |
| 72.5° | 1505.9 | 1063.8 | 979.6 | 802.9 | 772.9 |
| 75° | 1035.8 | 913.4 | 837.8 | 691.2 | 663.3 |
| 77.5° | 698.8 | 759.9 | 698.1 | 590.2 | 578.4 |
| 80° | 466.6 | 602.6 | 564.6 | 500.1 | 492.9 |
| 82.5° | 283.2 | 437.3 | 445.6 | 406.6 | 387.0 |
| 85° | 154.2 | 283.2 | 333.9 | 304.2 | 276.0 |
| 87.5° | 60.3 | 156.9 | 230.1 | 206.6 | 194.5 |
| 90° | 2.6 | 19.1 | 25.2 | 33.0 | 37.4 |
| 92.5° | 8.7 | 24.3 | 40.0 | 55.6 | 64.3 |
| 95° | 24.3 | 62.6 | 93.0 | 123.5 | 143.5 |
| 97.5° | 144.3 | 162.6 | 177.4 | 204.3 | 220.0 |
| 100° | 293.0 | 316.5 | 260.0 | 273.0 | 279.1 |
| 102.5° | 471.2 | 455.6 | 336.5 | 302.6 | 297.4 |
| 105° | 550.4 | 542.5 | 462.5 | 326.9 | 300.0 |



TEST NUMBER: P828675

CATALOG NUMBER: OHBL-30SE-A-UNV-L950-CD-UPL15

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 442.5 | 448.6 | 440.8 | 425.2 | 409.5 |
| 115° | 379.1 | 379.1 | 382.6 | 380.8 | 373.0 |
| 117.5° | 325.2 | 323.4 | 326.9 | 325.2 | 323.4 |
| 120° | 271.3 | 274.7 | 275.6 | 273.9 | 273.0 |
| 122.5° | 224.3 | 231.3 | 235.6 | 233.0 | 232.1 |
| 125° | 183.5 | 193.9 | 199.1 | 197.4 | 196.5 |
| 127.5° | 156.5 | 162.6 | 169.5 | 169.5 | 167.8 |
| 130° | 135.6 | 140.0 | 145.2 | 146.1 | 146.1 |
| 132.5° | 120.9 | 124.3 | 128.7 | 129.5 | 130.4 |
| 135° | 108.7 | 112.2 | 114.8 | 116.5 | 117.4 |
| 137.5° | 100.0 | 101.7 | 105.2 | 106.1 | 106.9 |
| 140° | 91.3 | 93.9 | 96.5 | 97.4 | 98.2 |
| 142.5° | 85.2 | 86.9 | 88.7 | 90.4 | 90.4 |
| 145° | 79.1 | 80.9 | 82.6 | 84.3 | 84.3 |
| 147.5° | 74.8 | 76.5 | 78.2 | 78.2 | 79.1 |
| 150° | 70.4 | 72.2 | 73.0 | 73.9 | 73.9 |
| 152.5° | 66.9 | 67.8 | 69.6 | 69.6 | 70.4 |
| 155° | 63.5 | 64.3 | 66.1 | 66.1 | 66.9 |
| 157.5° | 60.9 | 61.7 | 62.6 | 63.5 | 63.5 |
| 160° | 58.3 | 59.1 | 60.0 | 60.0 | 60.9 |
| 162.5° | 56.5 | 57.4 | 57.4 | 58.3 | 58.3 |
| 165° | 54.8 | 54.8 | 55.6 | 55.6 | 55.6 |
| 167.5° | 53.0 | 53.0 | 53.9 | 53.9 | 54.8 |
| 170° | 51.3 | 52.2 | 52.2 | 52.2 | 53.0 |
| 172.5° | 50.4 | 50.4 | 51.3 | 51.3 | 51.3 |
| 175° | 49.6 | 49.6 | 49.6 | 50.4 | 50.4 |
| 177.5° | 48.7 | 49.6 | 49.6 | 49.6 | 49.6 |
| 180° | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 550.4 | 551.2 | 510.4 | 393.0 | 329.5 |
| 110° | 507.8 | 512.1 | 489.5 | 445.2 | 391.2 |



(END OF REPORT)