

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: P828383

Luminaire Tested: **OHBL-30SE-NL-UNV-L940-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828383
REPORT IS A COMBINATION OF REPORTS P826129 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-NL-UNV-L940-CD-UPL15
Description:
Light Source: -
Ballast/Driver: -

Summary

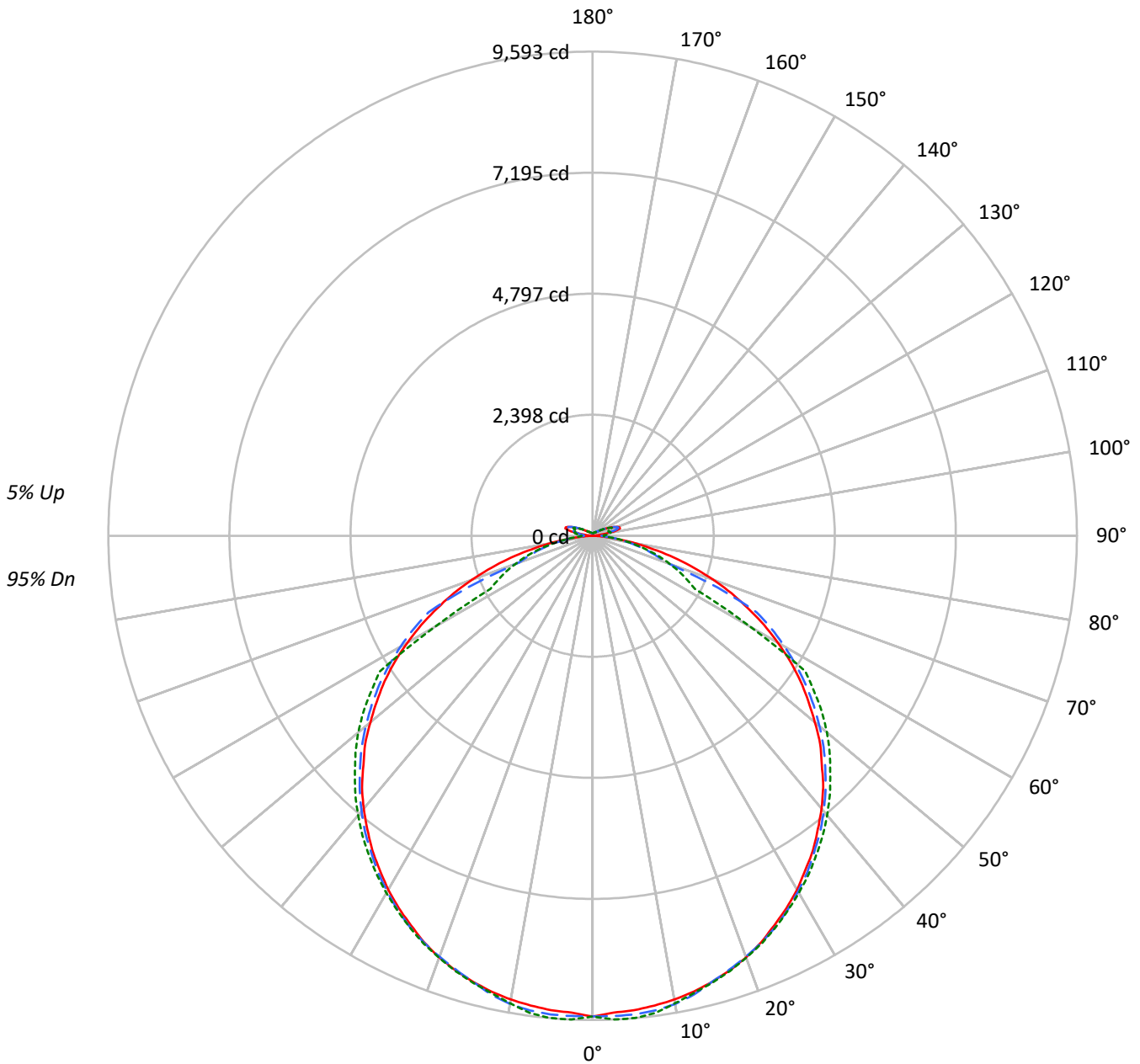
Lumens per Lamp: N/A
Luminaire Lumens: 28058.9 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

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: P828383

CATALOG NUMBER: OHBL-30SE-NL-UNV-L940-CD-UPL15

Luminous Intensity Polar Plot





TEST NUMBER: P828383

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF | 20 | | | | 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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 103 | 103 | 103 | 97 | 97 | 97 | 97 | 97 | 97 | 95 |
| 1 | 108 | 104 | 99 | 96 | 105 | 101 | 97 | 94 | 96 | 93 | 90 | 91 | 88 | 86 | 86 | 85 | 83 | 83 | 83 | 83 | 80 |
| 2 | 99 | 91 | 84 | 78 | 95 | 88 | 82 | 77 | 84 | 79 | 75 | 80 | 76 | 72 | 76 | 73 | 70 | 70 | 70 | 70 | 67 |
| 3 | 90 | 80 | 72 | 65 | 87 | 78 | 70 | 65 | 74 | 68 | 63 | 71 | 65 | 61 | 67 | 63 | 59 | 59 | 59 | 59 | 57 |
| 4 | 82 | 71 | 62 | 56 | 80 | 69 | 61 | 55 | 66 | 59 | 54 | 63 | 57 | 52 | 60 | 55 | 51 | 51 | 51 | 51 | 49 |
| 5 | 76 | 63 | 54 | 48 | 73 | 62 | 53 | 47 | 59 | 52 | 46 | 56 | 50 | 45 | 54 | 49 | 44 | 44 | 44 | 44 | 42 |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 40 | 49 | 43 | 39 | 39 | 39 | 39 | 37 |
| 7 | 65 | 51 | 43 | 37 | 63 | 50 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 35 | 45 | 39 | 35 | 35 | 35 | 35 | 33 |
| 8 | 60 | 47 | 38 | 33 | 58 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 31 | 31 | 31 | 31 | 29 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 39 | 33 | 28 | 38 | 32 | 28 | 28 | 28 | 28 | 26 |
| 10 | 53 | 40 | 32 | 27 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 36 | 30 | 26 | 35 | 29 | 25 | 25 | 25 | 25 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16266 | 16266 | 16266 |
| 5° | 16092 | 16236 | 16407 |
| 10° | 16011 | 16160 | 16238 |
| 15° | 15922 | 15914 | 16096 |
| 20° | 15810 | 15780 | 16017 |
| 25° | 15608 | 15680 | 15943 |
| 30° | 15436 | 15506 | 15874 |
| 35° | 15228 | 15300 | 15811 |
| 40° | 14976 | 15105 | 15764 |
| 45° | 14626 | 14831 | 15667 |
| 50° | 14251 | 14523 | 15604 |
| 55° | 13796 | 14132 | 15339 |
| 60° | 13113 | 13555 | 11850 |
| 65° | 12135 | 12813 | 7893 |
| 70° | 10875 | 6588 | 7546 |
| 75° | 9028 | 5953 | 7036 |
| 80° | 6340 | 4980 | 6160 |
| 85° | 2543 | 3991 | 5330 |



TEST NUMBER: P828383

CATALOG NUMBER: OHBL-30SE-NL-UNV-L940-CD-UPL15

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 904.8 | 3.2 |
| 10°-20° | 2590.6 | 9.2 |
| 20°-30° | 3941.8 | 14.0 |
| 30°-40° | 4792.6 | 17.1 |
| 40°-50° | 5039.2 | 18.0 |
| 50°-60° | 4601.4 | 16.4 |
| 60°-70° | 2949.7 | 10.5 |
| 70°-80° | 1393.4 | 5.0 |
| 80°-90° | 389.7 | 1.4 |
| 90°-100° | 228.9 | 0.8 |
| 100°-110° | 466.7 | 1.7 |
| 110°-120° | 384.7 | 1.4 |
| 120°-130° | 180.9 | 0.6 |
| 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° | 7437.1 | 26.5 |
| 0°-40° | 12229.7 | 43.6 |
| 0°-60° | 21870.4 | 77.9 |
| 0°-90° | 26603.3 | 94.8 |
| 90°-120° | 1080.4 | 3.9 |
| 90°-150° | 1404.3 | 5.0 |
| 90°-180° | 1456.0 | 5.2 |
| 0°-180° | 28058.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 9523 | 9523 | 9523 | 9523 | 9523 | |
| 5° | 9435 | 9472 | 9520 | 9572 | 9592 | 897 |
| 15° | 9149 | 9218 | 9147 | 9161 | 9167 | 2583 |
| 25° | 8514 | 8527 | 8557 | 8571 | 8564 | 3929 |
| 35° | 7610 | 7565 | 7652 | 7745 | 7724 | 4756 |
| 45° | 6418 | 6407 | 6515 | 6669 | 6658 | 4961 |
| 55° | 5030 | 4991 | 5160 | 5332 | 5346 | 4486 |
| 65° | 3389 | 3389 | 3586 | 2057 | 2064 | 3360 |
| 75° | 1674 | 1706 | 1108 | 1166 | 1171 | 1765 |
| 85° | 219 | 277 | 346 | 374 | 354 | 323 |
| 90° | 3 | 113 | 179 | 215 | 216 | 12 |
| 95° | 29 | 111 | 204 | 272 | 292 | 89 |
| 105° | 559 | 561 | 489 | 354 | 325 | 529 |
| 115° | 387 | 391 | 399 | 392 | 375 | 389 |
| 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: P828383

CATALOG NUMBER: OHBL-30SE-NL-UNV-L940-CD-UPL15

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 9523.4 | 9523.4 | 9523.4 | 9523.4 | 9523.4 |
| 2.5° | 9456.5 | 9488.3 | 9523.4 | 9568.5 | 9593.4 |
| 5° | 9434.8 | 9471.6 | 9520.1 | 9571.9 | 9591.9 |
| 7.5° | 9388.1 | 9439.7 | 9486.6 | 9523.4 | 9535.1 |
| 10° | 9329.5 | 9391.4 | 9418.2 | 9414.8 | 9406.4 |
| 12.5° | 9251.0 | 9316.2 | 9307.9 | 9269.3 | 9276.1 |
| 15° | 9149.1 | 9217.5 | 9147.4 | 9160.7 | 9167.4 |
| 17.5° | 9028.7 | 9095.6 | 9013.7 | 9040.4 | 9042.1 |
| 20° | 8888.4 | 8938.5 | 8875.0 | 8896.8 | 8896.8 |
| 22.5° | 8719.7 | 8754.7 | 8728.0 | 8743.0 | 8746.4 |
| 25° | 8514.0 | 8527.3 | 8557.4 | 8570.9 | 8564.1 |
| 27.5° | 8317.0 | 8300.2 | 8358.8 | 8390.4 | 8373.6 |
| 30° | 8097.9 | 8071.2 | 8139.7 | 8191.6 | 8171.6 |
| 32.5° | 7847.3 | 7830.7 | 7909.2 | 7970.9 | 7959.2 |
| 35° | 7610.0 | 7564.9 | 7651.8 | 7745.4 | 7723.6 |
| 37.5° | 7329.2 | 7302.6 | 7401.1 | 7499.8 | 7488.1 |
| 40° | 7055.2 | 7010.1 | 7122.1 | 7239.0 | 7227.3 |
| 42.5° | 6761.1 | 6707.6 | 6829.7 | 6970.1 | 6956.7 |
| 45° | 6418.5 | 6406.8 | 6515.4 | 6669.2 | 6657.5 |
| 47.5° | 6114.5 | 6055.9 | 6207.9 | 6356.7 | 6370.2 |
| 50° | 5746.7 | 5725.1 | 5863.8 | 6044.3 | 6057.5 |
| 52.5° | 5387.5 | 5372.5 | 5517.8 | 5700.0 | 5723.4 |
| 55° | 5029.8 | 4991.4 | 5160.2 | 5332.4 | 5345.8 |
| 57.5° | 4647.4 | 4607.2 | 4779.3 | 4966.4 | 4994.8 |
| 60° | 4237.8 | 4199.3 | 4388.2 | 4562.1 | 3627.9 |
| 62.5° | 3828.3 | 3801.6 | 3998.9 | 2832.5 | 2282.8 |
| 65° | 3388.9 | 3388.9 | 3585.9 | 2057.0 | 2063.8 |
| 67.5° | 2977.9 | 2951.2 | 2673.8 | 1848.1 | 1848.1 |
| 70° | 2536.7 | 2546.8 | 1540.7 | 1619.3 | 1620.9 |
| 72.5° | 2093.9 | 2130.7 | 1330.2 | 1393.6 | 1396.9 |
| 75° | 1674.4 | 1706.2 | 1107.8 | 1166.4 | 1171.4 |
| 77.5° | 1229.9 | 945.8 | 890.6 | 935.9 | 937.5 |
| 80° | 863.9 | 596.6 | 681.8 | 725.2 | 720.2 |
| 82.5° | 504.5 | 417.7 | 499.6 | 531.5 | 529.7 |
| 85° | 218.8 | 277.4 | 345.9 | 374.4 | 354.2 |
| 87.5° | 70.1 | 172.2 | 215.4 | 232.3 | 230.5 |
| 90° | 2.6 | 112.7 | 178.9 | 215.1 | 216.2 |
| 92.5° | 8.7 | 97.7 | 173.7 | 222.8 | 233.1 |
| 95° | 29.3 | 111.1 | 203.5 | 272.2 | 292.2 |
| 97.5° | 147.7 | 197.6 | 255.9 | 321.3 | 340.3 |
| 100° | 296.4 | 344.8 | 311.8 | 356.5 | 364.4 |
| 102.5° | 479.6 | 479.0 | 368.1 | 356.0 | 352.6 |
| 105° | 558.7 | 561.0 | 489.2 | 353.6 | 325.1 |



TEST NUMBER: P828383

CATALOG NUMBER: OHBL-30SE-NL-UNV-L940-CD-UPL15

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 452.6 | 462.1 | 459.2 | 438.6 | 411.1 |
| 115° | 387.4 | 390.7 | 399.2 | 392.5 | 374.6 |
| 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° | 558.7 | 567.8 | 533.8 | 408.0 | 334.5 |
| 110° | 517.8 | 527.1 | 509.5 | 458.6 | 392.8 |



(END OF REPORT)