

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: P830258

Luminaire Tested: **OHBL-30SE-MCL-UNV-L950-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30SE-MCL-UNV-L950-CD
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

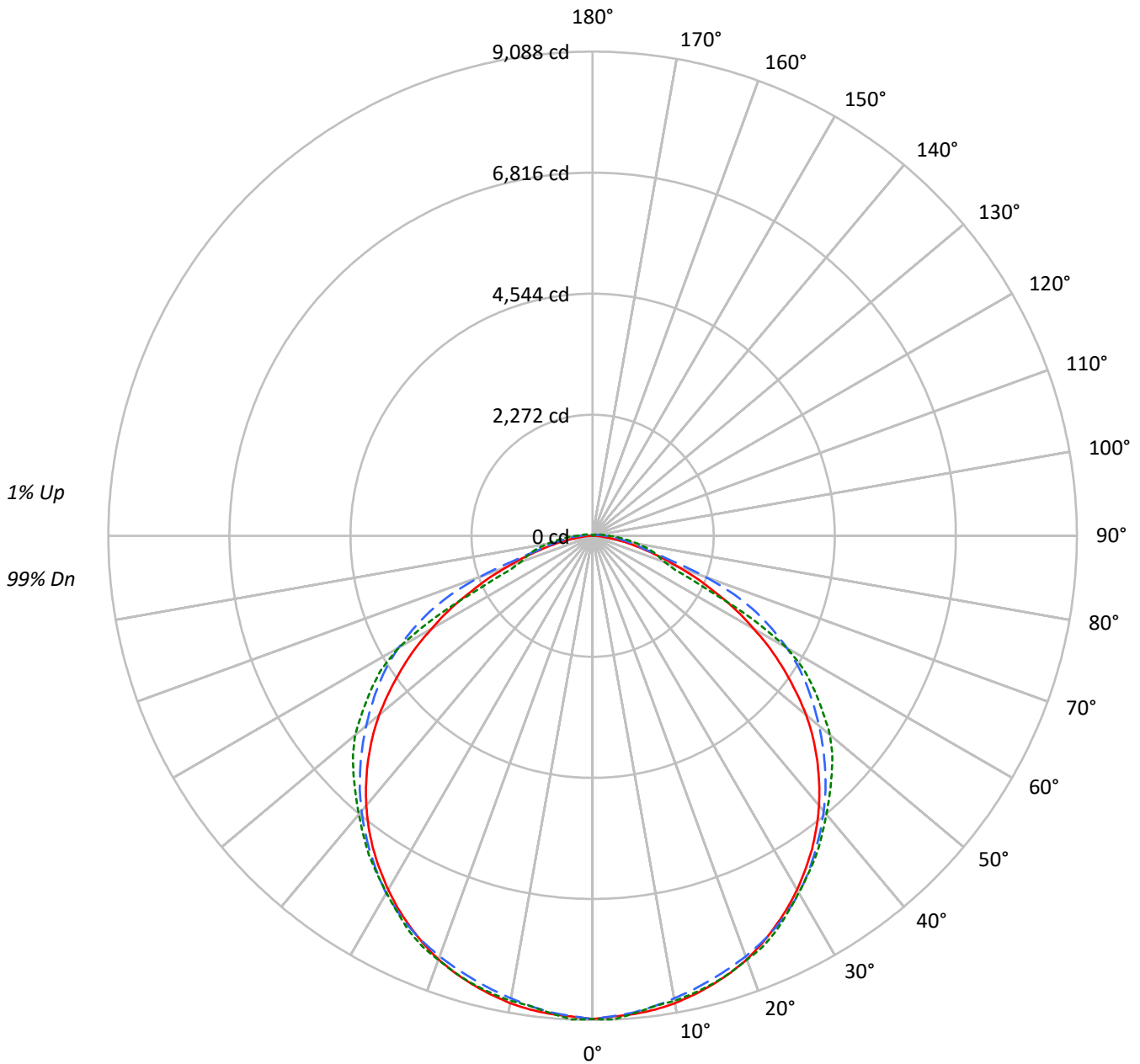
Lumens per Lamp: N/A
Luminaire Lumens: 25634.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 174
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: P830258

CATALOG NUMBER: OHBL-30SE-MCL-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830258

CATALOG NUMBER: OHBL-30SE-MCL-UNV-L950-CD

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 106 | 106 | 106 | 101 | 101 | 101 | | | | 99 | | | | | | | | | | | | | | | | |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 86 | | | | 83 | | | | | | | | | | | | | | | | |
| 2 | 99 | 91 | 84 | 79 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 82 | 78 | 74 | 79 | 75 | 72 | | | | 70 | | | | | | | | | | | | | | | | |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 75 | 69 | 64 | 72 | 67 | 63 | 70 | 65 | 61 | | | | 59 | | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 54 | 65 | 59 | 54 | 62 | 57 | 53 | | | | 51 | | | | | | | | | | | | | | | | |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 46 | 56 | 50 | 46 | | | | 44 | | | | | | | | | | | | | | | | |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 42 | 54 | 47 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | | | | 38 | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 43 | 37 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | | | | 34 | | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 33 | 44 | 37 | 32 | 42 | 36 | 32 | | | | 30 | | | | | | | | | | | | | | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | | | | 27 | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | | | | 24 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15490 | 15490 | 15490 |
| 5° | 15389 | 15258 | 15288 |
| 10° | 15333 | 15020 | 15108 |
| 15° | 15235 | 14841 | 14997 |
| 20° | 15138 | 14725 | 14854 |
| 25° | 14955 | 14608 | 14713 |
| 30° | 14757 | 14428 | 14424 |
| 35° | 14519 | 14147 | 14259 |
| 40° | 14210 | 13855 | 14037 |
| 45° | 13783 | 13519 | 13931 |
| 50° | 13202 | 13137 | 13805 |
| 55° | 12281 | 12759 | 13271 |
| 60° | 11074 | 12211 | 12248 |
| 65° | 9500 | 11204 | 7746 |
| 70° | 7652 | 8729 | 5599 |
| 75° | 5737 | 5166 | 5659 |
| 80° | 3993 | 4275 | 5366 |
| 85° | 2273 | 3882 | 4964 |



TEST NUMBER: P830258

CATALOG NUMBER: OHBL-30SE-MCL-UNV-L950-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 855.2 | 3.3 |
| 10°-20° | 2452.2 | 9.6 |
| 20°-30° | 3745.2 | 14.6 |
| 30°-40° | 4544.3 | 17.7 |
| 40°-50° | 4762.8 | 18.6 |
| 50°-60° | 4315.8 | 16.8 |
| 60°-70° | 2893.6 | 11.3 |
| 70°-80° | 1299.4 | 5.1 |
| 80°-90° | 471.5 | 1.8 |
| 90°-100° | 141.9 | 0.6 |
| 100°-110° | 67.0 | 0.3 |
| 110°-120° | 33.6 | 0.1 |
| 120°-130° | 18.5 | 0.1 |
| 130°-140° | 12.7 | 0.0 |
| 140°-150° | 8.6 | 0.0 |
| 150°-160° | 6.4 | 0.0 |
| 160°-170° | 4.1 | 0.0 |
| 170°-180° | 1.3 | 0.0 |
| 0°-30° | 7052.6 | 27.5 |
| 0°-40° | 11596.8 | 45.2 |
| 0°-60° | 20675.5 | 80.7 |
| 0°-90° | 25340.0 | 98.9 |
| 90°-120° | 242.5 | 0.9 |
| 90°-150° | 282.2 | 1.1 |
| 90°-180° | 294.0 | 1.1 |
| 0°-180° | 25634.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 9069 | 9069 | 9069 | 9069 | 9069 | |
| 5° | 9010 | 9042 | 8979 | 9006 | 8995 | 857 |
| 15° | 8718 | 8684 | 8622 | 8698 | 8709 | 2461 |
| 25° | 8099 | 8064 | 8120 | 8195 | 8171 | 3733 |
| 35° | 7178 | 7195 | 7269 | 7346 | 7317 | 4487 |
| 45° | 5958 | 6054 | 6167 | 6325 | 6344 | 4589 |
| 55° | 4384 | 4595 | 4908 | 5105 | 5093 | 3913 |
| 65° | 2573 | 2976 | 3378 | 2851 | 2328 | 2564 |
| 75° | 1012 | 1469 | 1081 | 1106 | 1178 | 1106 |
| 85° | 174 | 334 | 429 | 518 | 543 | 213 |
| 90° | 1 | 112 | 222 | 278 | 291 | 10 |
| 95° | 1 | 70 | 152 | 185 | 190 | 2 |
| 105° | 5 | 30 | 75 | 90 | 94 | 6 |
| 115° | 10 | 16 | 38 | 48 | 51 | 10 |
| 125° | 9 | 10 | 24 | 28 | 29 | 9 |
| 135° | 12 | 13 | 14 | 21 | 22 | 9 |
| 145° | 12 | 13 | 13 | 14 | 16 | 8 |
| 155° | 13 | 14 | 14 | 14 | 13 | 6 |
| 165° | 14 | 14 | 14 | 14 | 14 | 4 |
| 175° | 14 | 14 | 13 | 12 | 12 | 1 |
| 180° | 13 | 13 | 13 | 13 | 13 | |



TEST NUMBER: P830258

CATALOG NUMBER: OHBL-30SE-MCL-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 9069.3 | 9069.3 | 9069.3 | 9069.3 | 9069.3 |
| 2.5° | 9032.6 | 9070.6 | 9023.4 | 9074.6 | 9087.7 |
| 5° | 9010.3 | 9041.8 | 8978.8 | 9006.4 | 8994.6 |
| 7.5° | 8969.7 | 8980.2 | 8905.4 | 8927.7 | 8904.1 |
| 10° | 8909.3 | 8904.1 | 8816.2 | 8859.5 | 8864.8 |
| 12.5° | 8820.2 | 8804.4 | 8725.8 | 8791.3 | 8792.6 |
| 15° | 8717.9 | 8683.8 | 8622.2 | 8698.2 | 8708.7 |
| 17.5° | 8599.9 | 8555.3 | 8514.6 | 8613.0 | 8597.2 |
| 20° | 8462.2 | 8409.7 | 8401.9 | 8509.4 | 8470.0 |
| 22.5° | 8291.7 | 8251.0 | 8269.4 | 8371.7 | 8346.8 |
| 25° | 8098.9 | 8063.5 | 8119.9 | 8194.7 | 8171.1 |
| 27.5° | 7895.7 | 7874.7 | 7938.9 | 7996.6 | 7950.7 |
| 30° | 7672.7 | 7660.9 | 7746.2 | 7793.4 | 7735.7 |
| 32.5° | 7430.1 | 7434.1 | 7515.4 | 7579.6 | 7525.9 |
| 35° | 7178.4 | 7195.4 | 7268.8 | 7346.2 | 7317.4 |
| 37.5° | 6901.7 | 6939.7 | 7013.1 | 7101.0 | 7070.8 |
| 40° | 6609.2 | 6664.3 | 6745.6 | 6851.8 | 6824.3 |
| 42.5° | 6293.2 | 6362.7 | 6467.6 | 6585.6 | 6583.0 |
| 45° | 5957.5 | 6054.5 | 6167.3 | 6324.7 | 6344.3 |
| 47.5° | 5608.7 | 5717.5 | 5860.4 | 6070.3 | 6100.4 |
| 50° | 5229.7 | 5366.1 | 5544.4 | 5796.2 | 5814.5 |
| 52.5° | 4807.4 | 4993.6 | 5229.7 | 5471.0 | 5448.7 |
| 55° | 4383.9 | 4595.0 | 4908.4 | 5105.1 | 5093.3 |
| 57.5° | 3961.6 | 4199.0 | 4579.3 | 4719.6 | 4718.3 |
| 60° | 3489.5 | 3789.8 | 4205.5 | 4311.7 | 4206.8 |
| 62.5° | 3052.8 | 3375.4 | 3806.9 | 3729.5 | 3370.2 |
| 65° | 2572.9 | 2975.5 | 3378.1 | 2850.9 | 2327.7 |
| 67.5° | 2146.7 | 2566.3 | 2869.2 | 1952.6 | 1672.0 |
| 70° | 1717.9 | 2180.8 | 2237.2 | 1449.0 | 1429.4 |
| 72.5° | 1337.6 | 1830.7 | 1543.5 | 1240.5 | 1303.5 |
| 75° | 1012.4 | 1468.7 | 1080.6 | 1105.5 | 1177.6 |
| 77.5° | 738.3 | 1127.8 | 840.6 | 969.1 | 1028.1 |
| 80° | 507.5 | 798.6 | 685.8 | 814.4 | 855.0 |
| 82.5° | 318.7 | 527.2 | 549.5 | 655.7 | 697.6 |
| 85° | 174.4 | 334.4 | 428.8 | 518.0 | 542.9 |
| 87.5° | 72.1 | 201.9 | 327.8 | 400.0 | 420.9 |
| 90° | 1.3 | 111.5 | 221.6 | 278.0 | 291.1 |
| 92.5° | 1.3 | 85.2 | 181.0 | 224.2 | 233.4 |
| 95° | 1.3 | 69.5 | 152.1 | 184.9 | 190.1 |
| 97.5° | 2.6 | 55.1 | 127.2 | 153.4 | 158.7 |
| 100° | 3.9 | 45.9 | 106.2 | 128.5 | 132.4 |
| 102.5° | 5.2 | 36.7 | 89.2 | 107.5 | 111.5 |
| 105° | 5.2 | 30.2 | 74.7 | 90.5 | 94.4 |



TEST NUMBER: P830258

CATALOG NUMBER: OHBL-30SE-MCL-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 9.2 | 18.4 | 44.6 | 56.4 | 59.0 |
| 115° | 10.5 | 15.7 | 38.0 | 48.5 | 51.1 |
| 117.5° | 10.5 | 13.1 | 32.8 | 40.7 | 43.3 |
| 120° | 10.5 | 11.8 | 28.8 | 35.4 | 36.7 |
| 122.5° | 10.5 | 10.5 | 24.9 | 31.5 | 32.8 |
| 125° | 9.2 | 10.5 | 23.6 | 27.5 | 28.8 |
| 127.5° | 10.5 | 10.5 | 21.0 | 24.9 | 26.2 |
| 130° | 10.5 | 11.8 | 18.4 | 23.6 | 23.6 |
| 132.5° | 11.8 | 13.1 | 17.0 | 22.3 | 22.3 |
| 135° | 11.8 | 13.1 | 14.4 | 21.0 | 22.3 |
| 137.5° | 13.1 | 13.1 | 13.1 | 19.7 | 21.0 |
| 140° | 13.1 | 13.1 | 11.8 | 17.0 | 18.4 |
| 142.5° | 11.8 | 13.1 | 11.8 | 15.7 | 17.0 |
| 145° | 11.8 | 13.1 | 13.1 | 14.4 | 15.7 |
| 147.5° | 13.1 | 13.1 | 13.1 | 13.1 | 14.4 |
| 150° | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 |
| 152.5° | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 |
| 155° | 13.1 | 14.4 | 14.4 | 14.4 | 13.1 |
| 157.5° | 13.1 | 14.4 | 14.4 | 14.4 | 14.4 |
| 160° | 13.1 | 14.4 | 14.4 | 14.4 | 14.4 |
| 162.5° | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 |
| 165° | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 |
| 167.5° | 14.4 | 15.7 | 14.4 | 14.4 | 14.4 |
| 170° | 14.4 | 14.4 | 14.4 | 13.1 | 13.1 |
| 172.5° | 14.4 | 14.4 | 14.4 | 13.1 | 13.1 |
| 175° | 14.4 | 14.4 | 13.1 | 11.8 | 11.8 |
| 177.5° | 15.7 | 14.4 | 13.1 | 11.8 | 10.5 |
| 180° | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-----|------|------|------|------|
| 107.5° | 6.6 | 24.9 | 64.3 | 77.4 | 80.0 |
| 110° | 7.9 | 21.0 | 53.8 | 65.6 | 68.2 |



(END OF REPORT)