

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: P828937

Luminaire Tested: **OHB-15HE-W-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-15HE-W-UNV-L940-CD
Description: 15000 LUMEN OHB HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

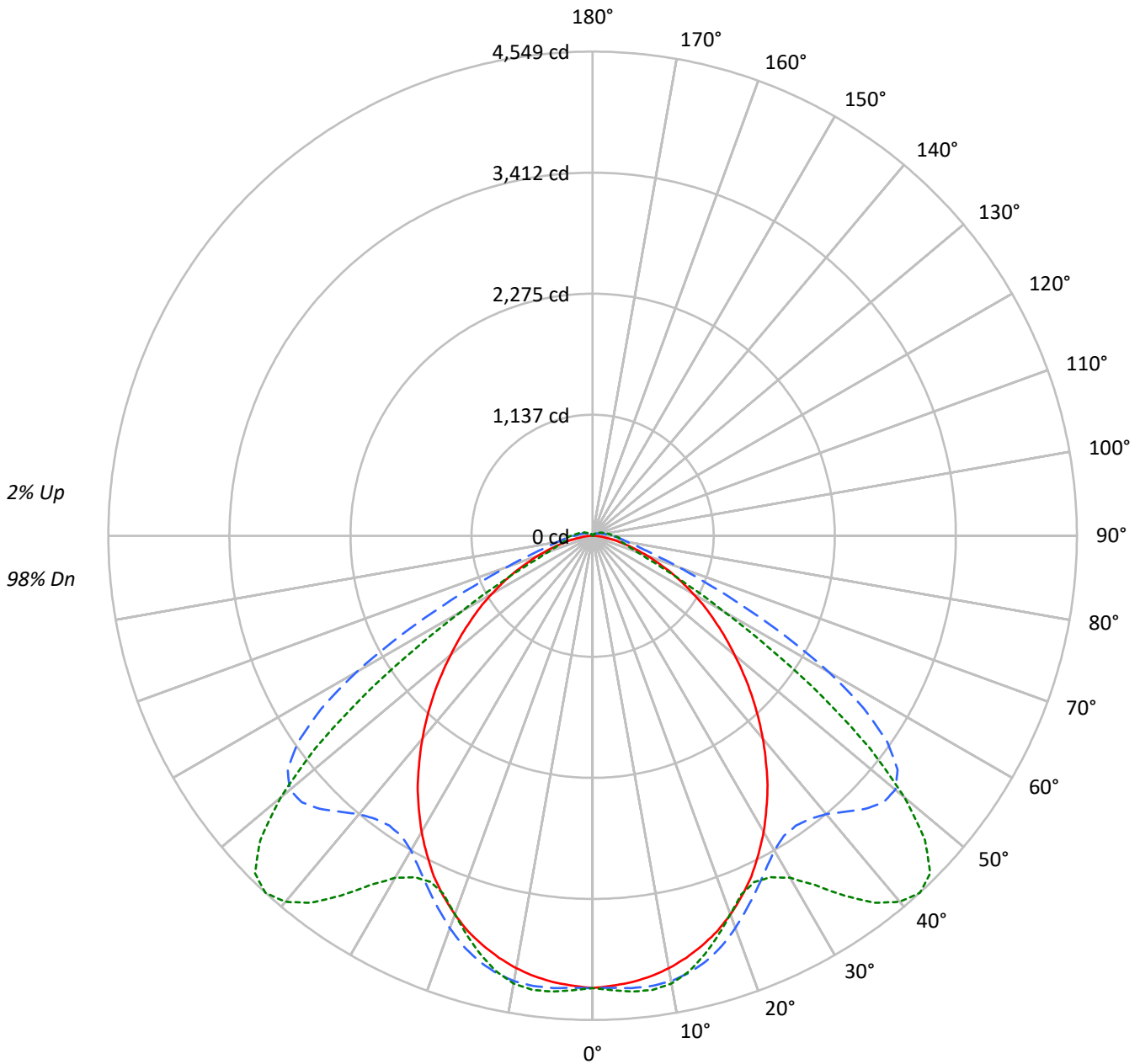
Lumens per Lamp: N/A
Luminaire Lumens: 12724.0 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 80
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: P828937

CATALOG NUMBER: OHB-15HE-W-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P828937

CATALOG NUMBER: OHB-15HE-W-UNV-L940-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 | 105 | 105 | 105 | 100 | 100 | 100 | | | | | 98 | | | | | | | | | | | | | | | |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | | | | | 83 | | | | | | | | | | | | | | | |
| 2 | 99 | 91 | 85 | 79 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 82 | 77 | 74 | 78 | 75 | 72 | | | | | 70 | | | | | | | | | | | | | | | |
| 3 | 90 | 80 | 72 | 66 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 72 | 67 | 62 | 69 | 65 | 61 | | | | | 59 | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 62 | 56 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | | | | | 50 | | | | | | | | | | | | | | | |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 47 | 60 | 52 | 47 | 57 | 51 | 46 | 55 | 50 | 45 | | | | | 43 | | | | | | | | | | | | | | | |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 50 | 44 | 40 | | | | | 38 | | | | | | | | | | | | | | | |
| 7 | 65 | 51 | 43 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 45 | 40 | 35 | | | | | 33 | | | | | | | | | | | | | | | |
| 8 | 60 | 47 | 38 | 32 | 58 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | | | | | 29 | | | | | | | | | | | | | | | |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | | | | | 26 | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 36 | 30 | 26 | 35 | 30 | 25 | | | | | 24 | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14196 | 14196 | 14196 |
| 5° | 14012 | 14139 | 14288 |
| 10° | 13785 | 14081 | 14235 |
| 15° | 13466 | 13813 | 13711 |
| 20° | 13048 | 13303 | 12972 |
| 25° | 12508 | 12694 | 12644 |
| 30° | 11808 | 12233 | 13528 |
| 35° | 11019 | 12419 | 15731 |
| 40° | 10115 | 13404 | 18059 |
| 45° | 9176 | 15145 | 19259 |
| 50° | 8201 | 16671 | 17757 |
| 55° | 7284 | 16562 | 13419 |
| 60° | 6353 | 13921 | 8092 |
| 65° | 5376 | 9533 | 4816 |
| 70° | 4286 | 6095 | 3393 |
| 75° | 3170 | 4300 | 3033 |
| 80° | 2168 | 3685 | 3218 |
| 85° | 1328 | 3871 | 4476 |



TEST NUMBER: P828937

CATALOG NUMBER: OHB-15HE-W-UNV-L940-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 406.1 | 3.2 |
| 10°-20° | 1149.9 | 9.0 |
| 20°-30° | 1682.7 | 13.2 |
| 30°-40° | 2185.4 | 17.2 |
| 40°-50° | 2668.6 | 21.0 |
| 50°-60° | 2350.1 | 18.5 |
| 60°-70° | 1224.7 | 9.6 |
| 70°-80° | 525.2 | 4.1 |
| 80°-90° | 252.2 | 2.0 |
| 90°-100° | 118.5 | 0.9 |
| 100°-110° | 73.7 | 0.6 |
| 110°-120° | 43.5 | 0.3 |
| 120°-130° | 23.7 | 0.2 |
| 130°-140° | 11.9 | 0.1 |
| 140°-150° | 5.7 | 0.0 |
| 150°-160° | 2.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3238.8 | 25.5 |
| 0°-40° | 5424.2 | 42.6 |
| 0°-60° | 10443.0 | 82.1 |
| 0°-90° | 12445.0 | 97.8 |
| 90°-120° | 235.7 | 1.9 |
| 90°-150° | 277.0 | 2.2 |
| 90°-180° | 279.0 | 2.2 |
| 0°-180° | 12724.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4250 | 4250 | 4250 | 4250 | 4250 | |
| 5° | 4210 | 4242 | 4265 | 4303 | 4298 | 399 |
| 15° | 3984 | 4096 | 4135 | 4104 | 4071 | 1122 |
| 25° | 3530 | 3719 | 3656 | 3587 | 3590 | 1620 |
| 35° | 2865 | 3168 | 3326 | 3879 | 4128 | 1786 |
| 45° | 2110 | 2654 | 3628 | 4393 | 4484 | 1627 |
| 55° | 1405 | 2325 | 3379 | 2962 | 2633 | 1261 |
| 65° | 806 | 1611 | 1547 | 860 | 740 | 797 |
| 75° | 325 | 754 | 497 | 340 | 323 | 354 |
| 85° | 69 | 269 | 253 | 248 | 250 | 77 |
| 90° | 1 | 97 | 167 | 191 | 195 | 5 |
| 95° | 2 | 57 | 133 | 156 | 160 | 1 |
| 105° | 4 | 32 | 86 | 104 | 105 | 4 |
| 115° | 6 | 18 | 53 | 65 | 67 | 6 |
| 125° | 6 | 9 | 31 | 40 | 41 | 5 |
| 135° | 6 | 6 | 15 | 25 | 26 | 4 |
| 145° | 7 | 6 | 6 | 12 | 14 | 4 |
| 155° | 7 | 7 | 6 | 6 | 6 | 2 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P828937

CATALOG NUMBER: OHB-15HE-W-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4249.6 | 4249.6 | 4249.6 | 4249.6 | 4249.6 |
| 2.5° | 4231.2 | 4249.6 | 4250.5 | 4276.2 | 4273.4 |
| 5° | 4210.2 | 4242.2 | 4265.2 | 4302.8 | 4298.2 |
| 7.5° | 4175.3 | 4225.7 | 4266.1 | 4307.3 | 4303.7 |
| 10° | 4125.8 | 4194.6 | 4247.7 | 4281.7 | 4270.7 |
| 12.5° | 4061.6 | 4152.4 | 4204.7 | 4212.0 | 4190.9 |
| 15° | 3983.7 | 4095.6 | 4135.0 | 4103.8 | 4070.8 |
| 17.5° | 3895.7 | 4026.8 | 4040.5 | 3972.7 | 3931.4 |
| 20° | 3785.7 | 3935.1 | 3921.4 | 3827.8 | 3782.0 |
| 22.5° | 3663.7 | 3834.3 | 3790.2 | 3692.1 | 3648.1 |
| 25° | 3529.9 | 3718.7 | 3655.5 | 3586.7 | 3590.4 |
| 27.5° | 3373.1 | 3587.6 | 3526.2 | 3557.4 | 3616.0 |
| 30° | 3213.5 | 3450.1 | 3412.5 | 3594.0 | 3709.6 |
| 32.5° | 3038.4 | 3308.9 | 3342.8 | 3701.3 | 3890.2 |
| 35° | 2865.1 | 3167.7 | 3326.3 | 3879.2 | 4127.6 |
| 37.5° | 2673.5 | 3024.7 | 3352.9 | 4084.6 | 4344.9 |
| 40° | 2487.4 | 2885.3 | 3413.4 | 4268.8 | 4488.9 |
| 42.5° | 2297.6 | 2760.6 | 3515.2 | 4377.9 | 4549.4 |
| 45° | 2109.7 | 2654.3 | 3628.0 | 4392.6 | 4484.3 |
| 47.5° | 1921.7 | 2564.4 | 3705.9 | 4276.2 | 4234.0 |
| 50° | 1740.2 | 2484.7 | 3711.4 | 3996.5 | 3824.2 |
| 52.5° | 1570.6 | 2411.3 | 3610.5 | 3550.9 | 3283.2 |
| 55° | 1404.6 | 2325.1 | 3378.6 | 2962.3 | 2633.2 |
| 57.5° | 1253.3 | 2205.9 | 3021.0 | 2329.7 | 1970.3 |
| 60° | 1092.9 | 2044.6 | 2558.9 | 1704.4 | 1421.1 |
| 62.5° | 945.3 | 1843.8 | 2040.9 | 1186.4 | 1021.4 |
| 65° | 805.9 | 1610.9 | 1546.7 | 860.0 | 739.9 |
| 67.5° | 658.3 | 1369.8 | 1141.5 | 627.1 | 550.1 |
| 70° | 542.8 | 1146.1 | 849.9 | 487.8 | 442.8 |
| 72.5° | 424.5 | 933.3 | 635.4 | 396.1 | 371.3 |
| 75° | 324.6 | 753.6 | 496.9 | 340.2 | 322.7 |
| 77.5° | 239.3 | 596.0 | 399.7 | 300.7 | 284.2 |
| 80° | 167.8 | 469.4 | 334.6 | 268.6 | 262.2 |
| 82.5° | 112.8 | 363.1 | 285.1 | 255.8 | 256.7 |
| 85° | 68.8 | 268.6 | 253.0 | 247.5 | 250.3 |
| 87.5° | 33.0 | 190.7 | 217.3 | 225.5 | 228.3 |
| 90° | 0.9 | 97.2 | 166.9 | 190.7 | 195.3 |
| 92.5° | 0.0 | 74.3 | 146.7 | 170.5 | 175.1 |
| 95° | 1.8 | 56.8 | 132.9 | 155.9 | 160.4 |
| 97.5° | 1.8 | 46.8 | 119.2 | 143.0 | 145.8 |
| 100° | 2.8 | 40.3 | 106.4 | 129.3 | 132.0 |
| 102.5° | 2.8 | 35.8 | 95.4 | 115.5 | 117.4 |
| 105° | 3.7 | 32.1 | 86.2 | 103.6 | 105.4 |



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CATALOG NUMBER: OHB-15HE-W-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 5.5 | 22.0 | 60.5 | 73.3 | 75.2 |
| 115° | 5.5 | 18.3 | 53.2 | 65.1 | 66.9 |
| 117.5° | 6.4 | 16.5 | 46.8 | 57.8 | 58.7 |
| 120° | 6.4 | 13.8 | 40.3 | 51.3 | 52.3 |
| 122.5° | 6.4 | 11.0 | 35.8 | 45.8 | 46.8 |
| 125° | 6.4 | 9.2 | 31.2 | 40.3 | 41.3 |
| 127.5° | 5.5 | 6.4 | 26.6 | 35.8 | 36.7 |
| 130° | 5.5 | 5.5 | 22.0 | 31.2 | 33.0 |
| 132.5° | 5.5 | 5.5 | 18.3 | 27.5 | 29.3 |
| 135° | 5.5 | 5.5 | 14.7 | 24.8 | 25.7 |
| 137.5° | 5.5 | 5.5 | 11.9 | 21.1 | 22.9 |
| 140° | 5.5 | 5.5 | 9.2 | 18.3 | 19.3 |
| 142.5° | 6.4 | 5.5 | 8.3 | 15.6 | 16.5 |
| 145° | 7.3 | 5.5 | 6.4 | 11.9 | 13.8 |
| 147.5° | 7.3 | 6.4 | 6.4 | 10.1 | 11.0 |
| 150° | 7.3 | 7.3 | 5.5 | 7.3 | 9.2 |
| 152.5° | 7.3 | 7.3 | 5.5 | 5.5 | 7.3 |
| 155° | 7.3 | 7.3 | 5.5 | 5.5 | 5.5 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-----|------|------|------|------|
| 107.5° | 4.6 | 28.4 | 77.0 | 92.6 | 94.4 |
| 110° | 4.6 | 24.8 | 67.8 | 82.5 | 84.3 |



(END OF REPORT)