

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: P828269

Luminaire Tested: **OHBL-15HE-MCL-UNV-L940-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828269
REPORT IS A COMBINATION OF REPORTS P826108 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-15HE-MCL-UNV-L940-CD-UPL15
Description:
Light Source: -
Ballast/Driver: -

Summary

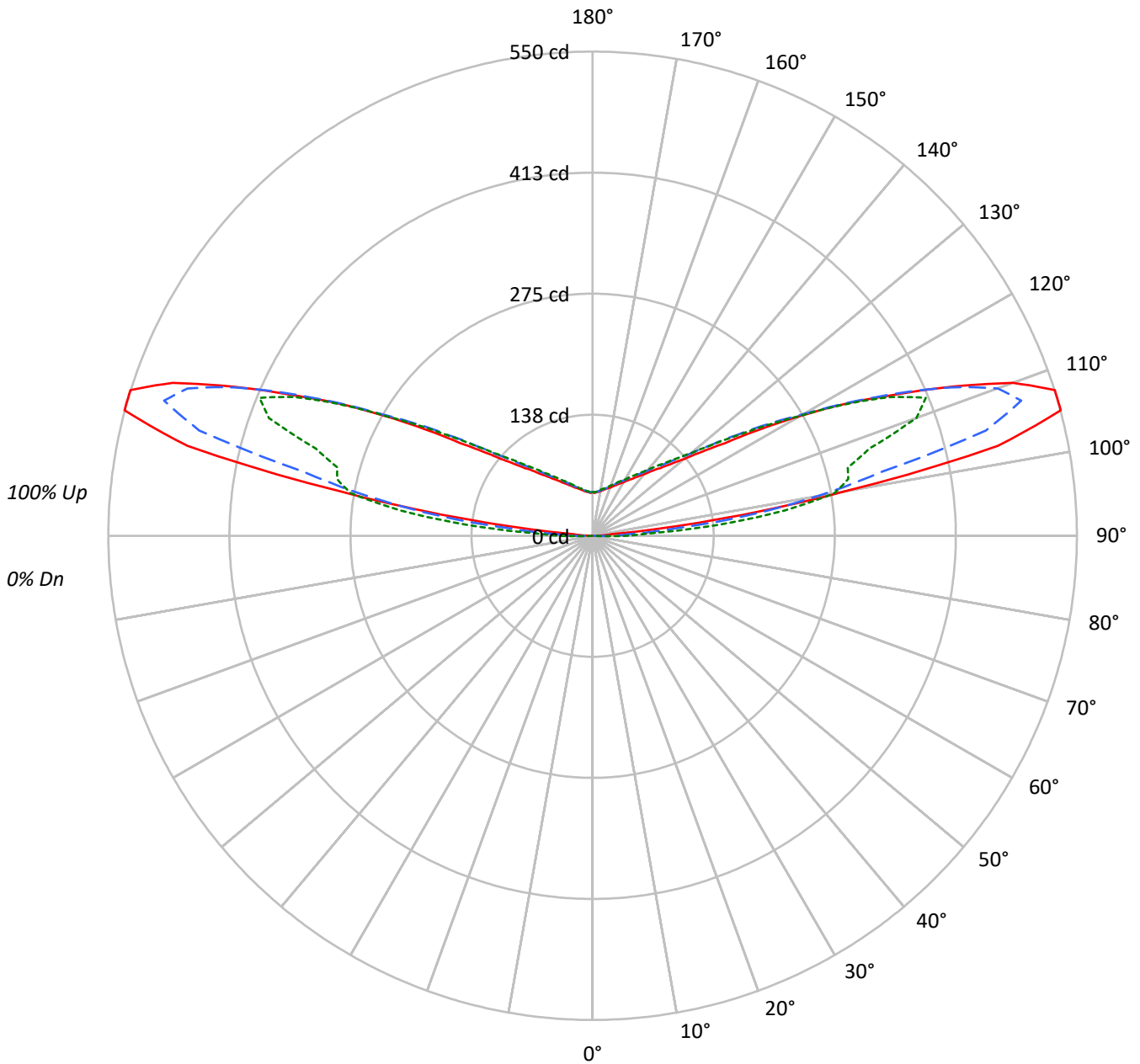
Lumens per Lamp: N/A
Luminaire Lumens: 1320.9 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Indirect

Input Watts (W): 10.3
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: P828269

CATALOG NUMBER: OHBL-15HE-MCL-UNV-L940-CD-UPL15

Luminous Intensity Polar Plot





TEST NUMBER: P828269

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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 | 0 | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 | | | | | | | | |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 9 | 0 | | | | | | | | |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 | | | | | | | | |
| 3 | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 | | | | | | | | |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 | | | | | | | | |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 | | | | | | | | |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 31 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 | | | | | | | | |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 | | | | | | | | |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 | | | | | | | | |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 2 | 0 | | | | | | | | |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|----|-----|-----|
| 0° | 0 | 0 | 0 |
| 5° | 0 | 0 | 0 |
| 10° | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 |
| 20° | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 |
| 30° | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 |
| 40° | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |



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CATALOG NUMBER: OHBL-15HE-MCL-UNV-L940-CD-UPL15

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 3.3 | 0.3 |
| 90°-100° | 126.6 | 9.6 |
| 100°-110° | 438.7 | 33.2 |
| 110°-120° | 377.0 | 28.5 |
| 120°-130° | 180.9 | 13.7 |
| 130°-140° | 90.4 | 6.8 |
| 140°-150° | 52.5 | 4.0 |
| 150°-160° | 30.6 | 2.3 |
| 160°-170° | 15.9 | 1.2 |
| 170°-180° | 4.8 | 0.4 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 3.3 | 0.3 |
| 90°-120° | 942.3 | 71.3 |
| 90°-150° | 1266.2 | 95.9 |
| 90°-180° | 1318.0 | 99.8 |
| 0°-180° | 1320.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 0 | 0 | 0 | 0 | 0 | |
| 5° | 0 | 0 | 0 | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 3 | 19 | 25 | 33 | 37 | 2 |
| 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: P828269

CATALOG NUMBER: OHBL-15HE-MCL-UNV-L940-CD-UPL15

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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 |



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CATALOG NUMBER: OHBL-15HE-MCL-UNV-L940-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)