

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: P827978

Luminaire Tested: **OHBL-15HE-W-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827978  
REPORT IS A COMBINATION OF REPORTS P826220 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-15HE-W-UNV-L935-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

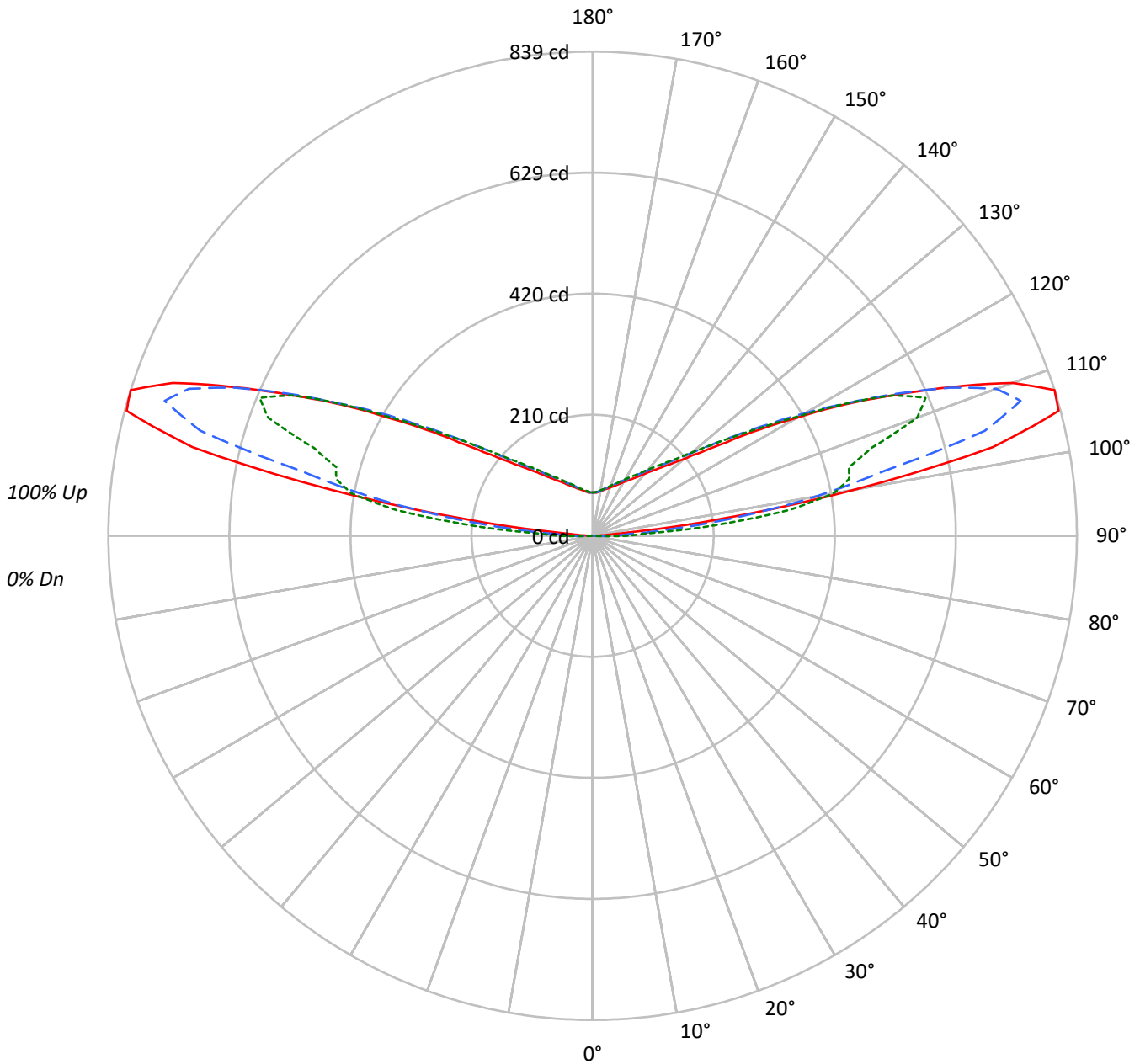
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2016.9 lumens  
Efficiency: N/A  
Efficacy: 115.9 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): 17.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

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### Luminous Intensity Polar Plot





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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   | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 10 | 10 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 9  | 9  | 9  | 9  | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8  | 7  | 7  | 7  | 7  | 7  | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  | 6  | 6  | 6  | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6  | 6  | 5  | 5  | 5  | 5  | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5  | 5  | 4  | 4  | 4  | 4  | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 55 | 44 | 36 | 31 | 47 | 38 | 31 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  | 4  | 4  | 4  | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  | 3  | 3  | 3  | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  | 3  | 3  | 3  | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 2  | 2  | 2  | 2  | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 2  | 2  | 2  | 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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**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°   | 5.1    | 0.3       |
| 90°-100°  | 193.2  | 9.6       |
| 100°-110° | 670.8  | 33.3      |
| 110°-120° | 575.4  | 28.5      |
| 120°-130° | 276.0  | 13.7      |
| 130°-140° | 138.1  | 6.8       |
| 140°-150° | 80.1   | 4.0       |
| 150°-160° | 46.7   | 2.3       |
| 160°-170° | 24.2   | 1.2       |
| 170°-180° | 7.4    | 0.4       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 5.1    | 0.3       |
| 90°-120°  | 1439.3 | 71.4      |
| 90°-150°  | 1933.5 | 95.9      |
| 90°-180°  | 2012.0 | 99.8      |
| 0°-180°   | 2016.9 | 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°  | 4   | 28    | 39  | 52    | 58  | 3    |
| 95°  | 44  | 92    | 143 | 190   | 215 | 137  |
| 105° | 836 | 827   | 703 | 501   | 460 | 793  |
| 115° | 577 | 582   | 582 | 581   | 576 | 582  |
| 125° | 282 | 297   | 302 | 302   | 299 | 264  |
| 135° | 167 | 170   | 176 | 178   | 179 | 132  |
| 145° | 121 | 124   | 127 | 128   | 128 | 77   |
| 155° | 97  | 98    | 100 | 101   | 101 | 45   |
| 165° | 83  | 84    | 85  | 85    | 85  | 24   |
| 175° | 75  | 76    | 76  | 77    | 77  | 7    |
| 180° | 75  | 75    | 75  | 75    | 75  |      |



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**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°    | 4.2   | 28.3  | 39.2  | 51.7  | 57.5  |
| 92.5°  | 14.2  | 37.5  | 60.0  | 85.0  | 95.8  |
| 95°    | 44.2  | 92.5  | 143.3 | 190.0 | 215.0 |
| 97.5°  | 224.2 | 242.5 | 260.8 | 315.8 | 343.3 |
| 100°   | 460.0 | 488.3 | 394.2 | 416.7 | 424.2 |
| 102.5° | 710.8 | 706.7 | 515.0 | 461.7 | 455.0 |
| 105°   | 835.8 | 826.7 | 703.3 | 500.8 | 460.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 673.3 | 683.3 | 670.0 | 650.8 | 624.2 |
| 115°   | 576.7 | 582.5 | 582.5 | 580.8 | 575.8 |
| 117.5° | 493.3 | 494.2 | 497.5 | 496.7 | 497.5 |
| 120°   | 408.3 | 417.5 | 425.0 | 420.8 | 415.8 |
| 122.5° | 342.5 | 352.5 | 357.5 | 355.8 | 350.8 |
| 125°   | 281.7 | 296.7 | 302.5 | 301.7 | 299.2 |
| 127.5° | 238.3 | 249.2 | 257.5 | 258.3 | 257.5 |
| 130°   | 207.5 | 214.2 | 222.5 | 223.3 | 224.2 |
| 132.5° | 184.2 | 190.0 | 195.8 | 199.2 | 198.3 |
| 135°   | 166.7 | 170.0 | 175.8 | 177.5 | 179.2 |
| 137.5° | 152.5 | 155.0 | 160.0 | 162.5 | 162.5 |
| 140°   | 140.0 | 143.3 | 147.5 | 149.2 | 150.0 |
| 142.5° | 129.2 | 132.5 | 135.8 | 137.5 | 137.5 |
| 145°   | 120.8 | 124.2 | 126.7 | 127.5 | 128.3 |
| 147.5° | 113.3 | 116.7 | 118.3 | 120.0 | 120.0 |
| 150°   | 107.5 | 109.2 | 111.7 | 112.5 | 113.3 |
| 152.5° | 101.7 | 103.3 | 105.8 | 106.7 | 106.7 |
| 155°   | 96.7  | 98.3  | 100.0 | 100.8 | 100.8 |
| 157.5° | 92.5  | 94.2  | 95.8  | 96.7  | 96.7  |
| 160°   | 89.2  | 90.0  | 91.7  | 92.5  | 92.5  |
| 162.5° | 85.8  | 86.7  | 87.5  | 88.3  | 88.3  |
| 165°   | 83.3  | 84.2  | 85.0  | 85.0  | 85.0  |
| 167.5° | 80.8  | 80.8  | 81.7  | 82.5  | 82.5  |
| 170°   | 78.3  | 79.2  | 79.2  | 80.0  | 80.0  |
| 172.5° | 76.7  | 77.5  | 77.5  | 77.5  | 78.3  |
| 175°   | 75.0  | 75.8  | 75.8  | 76.7  | 76.7  |
| 177.5° | 75.0  | 75.0  | 75.0  | 75.0  | 75.0  |
| 180°   | 75.0  | 75.0  | 75.0  | 75.0  | 75.0  |



Report Generated By 670246072 / DESKTOP-50001EG







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







|        |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 839.2 | 842.5 | 777.5 | 607.5 | 505.8 |
| 110°   | 774.2 | 781.7 | 744.2 | 680.0 | 598.3 |



(END OF REPORT)