

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: P828006

Luminaire Tested: **OHBL-18HE-W-UNV-L935-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828006  
REPORT IS A COMBINATION OF REPORTS P826064 AND G3-2310-221-12  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-W-UNV-L935-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

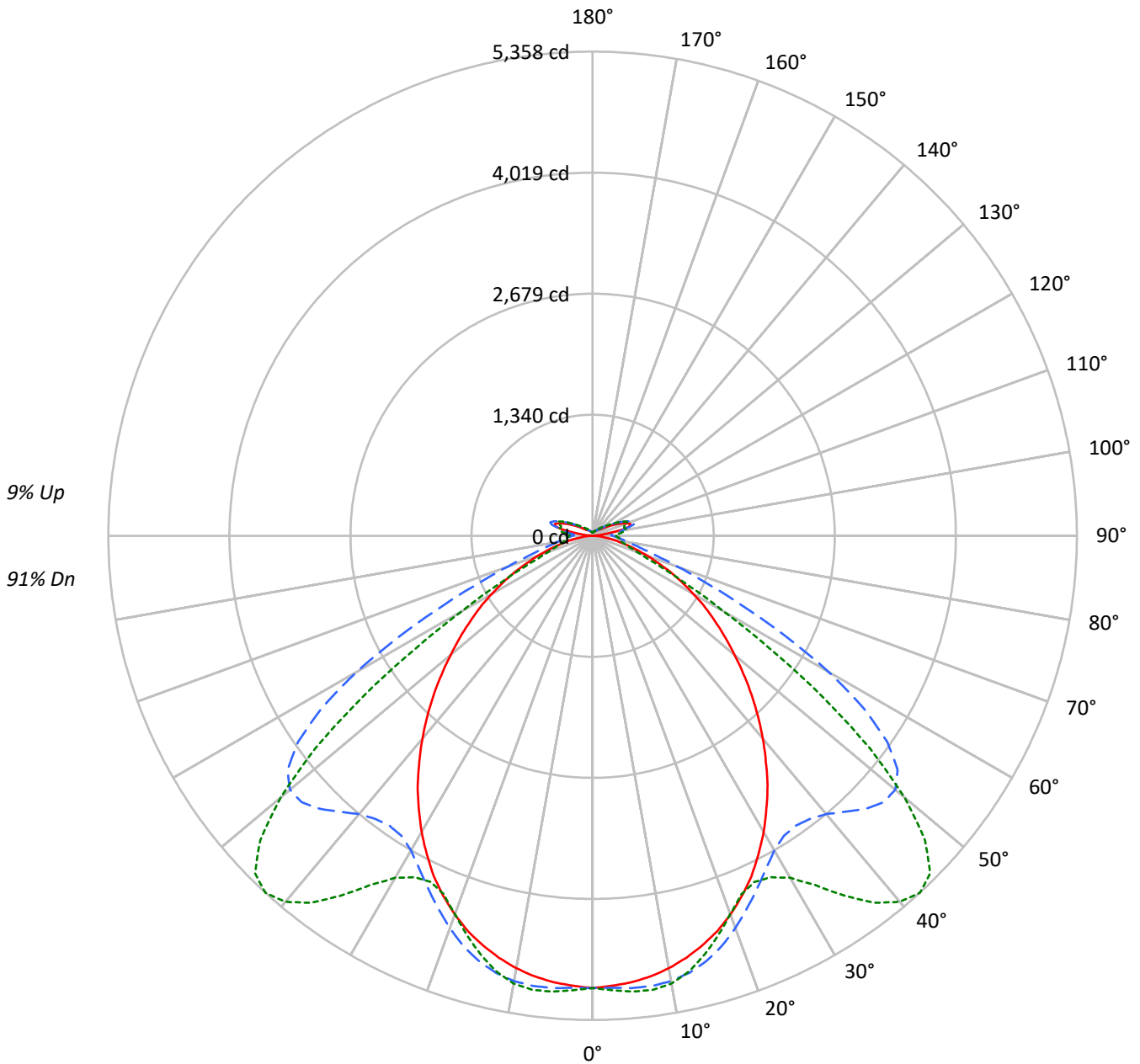
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16024.5 lumens  
Efficiency: N/A  
Efficacy: 143.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 111.4  
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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF  | 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   | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 100 | 100 | 100 | 94 | 94 | 94 | 94 | 94 | 94 | 91 |
| 1   | 107 | 103 | 99  | 95  | 104 | 100 | 96  | 93  | 94  | 91  | 88  | 89  | 86  | 84  | 84 | 82 | 80 | 80 | 80 | 80 | 77 |
| 2   | 98  | 90  | 83  | 78  | 94  | 87  | 81  | 76  | 82  | 78  | 73  | 78  | 74  | 70  | 74 | 70 | 68 | 68 | 68 | 68 | 65 |
| 3   | 89  | 79  | 71  | 65  | 86  | 77  | 70  | 64  | 73  | 67  | 62  | 69  | 64  | 59  | 65 | 61 | 57 | 57 | 57 | 57 | 55 |
| 4   | 82  | 70  | 61  | 55  | 79  | 68  | 60  | 54  | 65  | 58  | 52  | 61  | 55  | 51  | 58 | 53 | 49 | 49 | 49 | 49 | 47 |
| 5   | 75  | 62  | 54  | 47  | 72  | 61  | 53  | 46  | 58  | 51  | 45  | 55  | 49  | 44  | 52 | 47 | 43 | 43 | 43 | 43 | 40 |
| 6   | 69  | 56  | 47  | 41  | 67  | 55  | 46  | 40  | 52  | 45  | 39  | 49  | 43  | 38  | 47 | 42 | 37 | 37 | 37 | 37 | 35 |
| 7   | 64  | 51  | 42  | 36  | 62  | 49  | 41  | 35  | 47  | 40  | 35  | 45  | 38  | 34  | 43 | 37 | 33 | 33 | 33 | 33 | 31 |
| 8   | 59  | 46  | 37  | 32  | 57  | 45  | 37  | 31  | 43  | 36  | 31  | 41  | 35  | 30  | 39 | 34 | 29 | 29 | 29 | 29 | 27 |
| 9   | 55  | 42  | 34  | 28  | 53  | 41  | 33  | 28  | 39  | 32  | 27  | 38  | 31  | 27  | 36 | 30 | 26 | 26 | 26 | 26 | 24 |
| 10  | 52  | 39  | 31  | 26  | 50  | 38  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 33 | 28 | 24 | 24 | 24 | 24 | 22 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°   | 90°   |
|-----|------|-------|-------|
| 0°  | 8549 | 8549  | 8549  |
| 5°  | 8428 | 8537  | 8646  |
| 10° | 8282 | 8524  | 8657  |
| 15° | 8080 | 8383  | 8379  |
| 20° | 7820 | 8095  | 7969  |
| 25° | 7486 | 7746  | 7809  |
| 30° | 7057 | 7486  | 8403  |
| 35° | 6576 | 7625  | 9833  |
| 40° | 6027 | 8258  | 11368 |
| 45° | 5456 | 9367  | 12219 |
| 50° | 4866 | 10358 | 11371 |
| 55° | 4311 | 10344 | 8688  |
| 60° | 3748 | 8751  | 5312  |
| 65° | 3159 | 6042  | 3218  |
| 70° | 2504 | 3906  | 2323  |
| 75° | 1837 | 2798  | 2154  |
| 80° | 1240 | 2457  | 2430  |
| 85° | 741  | 2699  | 3841  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 478.3   | 3.0       |
| 10°-20°   | 1354.4  | 8.5       |
| 20°-30°   | 1982.0  | 12.4      |
| 30°-40°   | 2574.0  | 16.1      |
| 40°-50°   | 3143.2  | 19.6      |
| 50°-60°   | 2768.1  | 17.3      |
| 60°-70°   | 1442.5  | 9.0       |
| 70°-80°   | 618.6   | 3.9       |
| 80°-90°   | 299.7   | 1.9       |
| 90°-100°  | 238.7   | 1.5       |
| 100°-110° | 431.7   | 2.7       |
| 110°-120° | 347.6   | 2.2       |
| 120°-130° | 169.9   | 1.1       |
| 130°-140° | 85.0    | 0.5       |
| 140°-150° | 48.1    | 0.3       |
| 150°-160° | 26.5    | 0.2       |
| 160°-170° | 12.5    | 0.1       |
| 170°-180° | 3.8     | 0.0       |
| 0°-30°    | 3814.7  | 23.8      |
| 0°-40°    | 6388.7  | 39.9      |
| 0°-60°    | 12300.0 | 76.8      |
| 0°-90°    | 14660.7 | 91.5      |
| 90°-120°  | 1018.0  | 6.4       |
| 90°-150°  | 1321.0  | 8.2       |
| 90°-180°  | 1364.0  | 8.5       |
| 0°-180°   | 16024.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 5005 | 5005  | 5005 | 5005  | 5005 |      |
| 5°   | 4959 | 4997  | 5024 | 5068  | 5062 | 470  |
| 15°  | 4692 | 4824  | 4870 | 4834  | 4795 | 1321 |
| 25°  | 4158 | 4380  | 4306 | 4224  | 4229 | 1908 |
| 35°  | 3375 | 3731  | 3918 | 4569  | 4862 | 2103 |
| 45°  | 2485 | 3126  | 4273 | 5174  | 5282 | 1916 |
| 55°  | 1654 | 2739  | 3979 | 3489  | 3101 | 1485 |
| 65°  | 949  | 1897  | 1822 | 1013  | 872  | 939  |
| 75°  | 382  | 888   | 585  | 401   | 380  | 417  |
| 85°  | 81   | 316   | 298  | 292   | 295  | 90   |
| 90°  | 4    | 130   | 216  | 250   | 259  | 7    |
| 95°  | 23   | 115   | 228  | 280   | 301  | 70   |
| 105° | 435  | 464   | 465  | 380   | 361  | 412  |
| 115° | 306  | 322   | 364  | 375   | 372  | 307  |
| 125° | 154  | 163   | 193  | 202   | 204  | 143  |
| 135° | 92   | 94    | 108  | 121   | 122  | 73   |
| 145° | 71   | 71    | 73   | 80    | 83   | 45   |
| 155° | 59   | 60    | 58   | 59    | 59   | 26   |
| 165° | 43   | 43    | 44   | 44    | 44   | 12   |
| 175° | 39   | 39    | 39   | 39    | 39   | 4    |
| 180° | 38   | 38    | 38   | 38    | 38   |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 5005.2 | 5005.2 | 5005.2 | 5005.2 | 5005.2 |
| 2.5°   | 4983.7 | 5005.2 | 5006.3 | 5036.6 | 5033.3 |
| 5°     | 4958.8 | 4996.7 | 5023.7 | 5067.9 | 5062.5 |
| 7.5°   | 4917.8 | 4977.2 | 5024.8 | 5073.3 | 5069.0 |
| 10°    | 4859.5 | 4940.5 | 5003.1 | 5043.1 | 5030.1 |
| 12.5°  | 4783.9 | 4890.8 | 4952.3 | 4961.0 | 4936.2 |
| 15°    | 4692.1 | 4823.8 | 4870.2 | 4833.6 | 4794.7 |
| 17.5°  | 4588.4 | 4742.8 | 4759.1 | 4679.2 | 4630.6 |
| 20°    | 4458.8 | 4634.8 | 4618.7 | 4508.5 | 4454.5 |
| 22.5°  | 4315.2 | 4516.1 | 4464.3 | 4348.7 | 4296.8 |
| 25°    | 4157.6 | 4380.0 | 4305.5 | 4224.5 | 4228.8 |
| 27.5°  | 3972.9 | 4225.6 | 4153.2 | 4190.0 | 4259.1 |
| 30°    | 3785.0 | 4063.6 | 4019.3 | 4233.2 | 4369.3 |
| 32.5°  | 3578.8 | 3897.3 | 3937.2 | 4359.5 | 4581.9 |
| 35°    | 3374.7 | 3731.0 | 3917.8 | 4569.0 | 4861.7 |
| 37.5°  | 3148.9 | 3562.6 | 3949.2 | 4810.9 | 5117.6 |
| 40°    | 2929.8 | 3398.4 | 4020.4 | 5027.9 | 5287.1 |
| 42.5°  | 2706.2 | 3251.5 | 4140.2 | 5156.4 | 5358.4 |
| 45°    | 2484.8 | 3126.2 | 4273.1 | 5173.8 | 5281.8 |
| 47.5°  | 2263.4 | 3020.4 | 4364.9 | 5036.6 | 4986.9 |
| 50°    | 2049.6 | 2926.5 | 4371.4 | 4707.2 | 4504.2 |
| 52.5°  | 1849.8 | 2840.1 | 4252.6 | 4182.4 | 3867.1 |
| 55°    | 1654.4 | 2738.6 | 3979.4 | 3489.1 | 3101.4 |
| 57.5°  | 1476.2 | 2598.2 | 3558.2 | 2744.0 | 2320.7 |
| 60°    | 1287.2 | 2408.2 | 3014.0 | 2007.5 | 1673.8 |
| 62.5°  | 1113.3 | 2171.7 | 2403.8 | 1397.3 | 1203.0 |
| 65°    | 949.2  | 1897.3 | 1821.8 | 1012.9 | 871.5  |
| 67.5°  | 775.3  | 1613.3 | 1344.5 | 738.7  | 647.9  |
| 70°    | 639.3  | 1349.8 | 1001.1 | 574.5  | 521.6  |
| 72.5°  | 500.0  | 1099.3 | 748.3  | 466.5  | 437.3  |
| 75°    | 382.2  | 887.7  | 585.3  | 400.7  | 380.1  |
| 77.5°  | 281.8  | 701.9  | 470.8  | 354.2  | 334.8  |
| 80°    | 197.6  | 552.9  | 394.2  | 316.4  | 308.8  |
| 82.5°  | 132.8  | 427.7  | 335.8  | 301.2  | 302.3  |
| 85°    | 81.0   | 316.4  | 298.1  | 291.6  | 294.8  |
| 87.5°  | 38.9   | 224.6  | 255.9  | 265.7  | 268.9  |
| 90°    | 3.6    | 129.5  | 216.5  | 250.4  | 259.2  |
| 92.5°  | 7.5    | 106.7  | 204.4  | 245.8  | 255.4  |
| 95°    | 23.0   | 115.3  | 228.2  | 280.2  | 300.7  |
| 97.5°  | 114.7  | 177.6  | 278.8  | 331.8  | 343.3  |
| 100°   | 233.2  | 295.0  | 331.1  | 367.2  | 374.7  |
| 102.5° | 369.1  | 402.9  | 375.7  | 374.4  | 372.4  |
| 105°   | 435.2  | 463.7  | 464.8  | 379.5  | 360.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 354.8 | 376.8 | 419.6 | 421.4 | 409.4 |
| 115°   | 306.5 | 321.6 | 363.5 | 375.0 | 372.2 |
| 117.5° | 259.3 | 274.4 | 312.6 | 323.0 | 322.4 |
| 120°   | 218.4 | 232.0 | 265.0 | 274.7 | 275.8 |
| 122.5° | 185.1 | 194.7 | 226.2 | 235.7 | 237.6 |
| 125°   | 154.2 | 163.3 | 192.6 | 201.7 | 203.6 |
| 127.5° | 129.0 | 135.1 | 164.7 | 174.6 | 175.7 |
| 130°   | 113.2 | 116.5 | 140.1 | 151.8 | 153.9 |
| 132.5° | 101.5 | 104.0 | 122.4 | 134.1 | 137.1 |
| 135°   | 91.5  | 94.0  | 108.1 | 120.8 | 121.9 |
| 137.5° | 84.8  | 86.5  | 96.5  | 108.2 | 111.2 |
| 140°   | 78.2  | 80.7  | 86.7  | 98.3  | 99.3  |
| 142.5° | 74.2  | 74.8  | 79.8  | 89.2  | 91.1  |
| 145°   | 71.2  | 70.7  | 72.6  | 79.8  | 82.8  |
| 147.5° | 67.0  | 67.6  | 69.2  | 73.6  | 75.5  |
| 150°   | 64.5  | 65.3  | 64.0  | 67.0  | 69.2  |
| 152.5° | 61.2  | 62.0  | 60.7  | 61.5  | 63.7  |
| 155°   | 58.7  | 59.5  | 58.2  | 59.0  | 59.0  |
| 157.5° | 47.5  | 49.2  | 49.2  | 50.0  | 50.0  |
| 160°   | 45.8  | 46.7  | 47.5  | 47.5  | 47.5  |
| 162.5° | 44.2  | 45.0  | 45.0  | 45.8  | 45.8  |
| 165°   | 43.3  | 43.3  | 44.2  | 44.2  | 44.2  |
| 167.5° | 41.7  | 41.7  | 42.5  | 42.5  | 42.5  |
| 170°   | 40.8  | 40.8  | 40.8  | 41.7  | 41.7  |
| 172.5° | 40.0  | 40.0  | 40.0  | 40.0  | 40.0  |
| 175°   | 39.2  | 39.2  | 39.2  | 39.2  | 39.2  |
| 177.5° | 38.3  | 39.2  | 39.2  | 39.2  | 39.2  |
| 180°   | 38.3  | 38.3  | 38.3  | 38.3  | 38.3  |



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







|        |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 438.8 | 468.5 | 491.6 | 419.9 | 368.8 |
| 110°   | 402.1 | 431.7 | 464.1 | 447.2 | 406.8 |



(END OF REPORT)