

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: P826500

Luminaire Tested: **OHBL-18HE-N-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826500
REPORT IS A COMBINATION OF REPORTS P826062 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-N-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

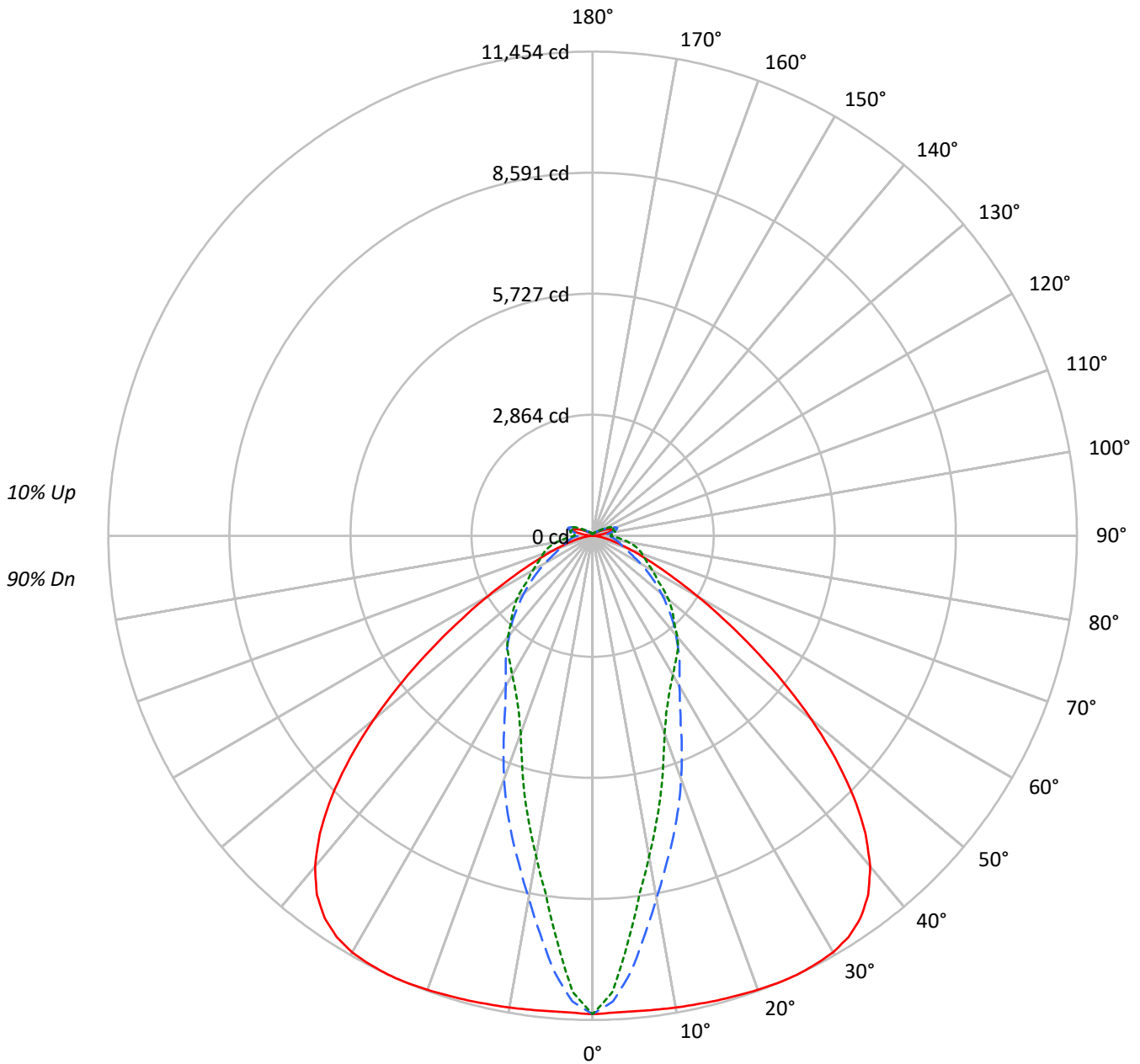
Lumens per Lamp: N/A
Luminaire Lumens: 17859.5 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P826500

CATALOG NUMBER: OHBL-18HE-N-UNV-L830-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P826500

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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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 99 | 99 | 99 | 93 | 93 | 93 | 90 | | | | | | | | | | | | | | | | | | | |
| 1 | 107 | 103 | 99 | 95 | 104 | 100 | 96 | 93 | 94 | 91 | 88 | 88 | 86 | 84 | 83 | 81 | 80 | 77 | | | | | | | | | | | | | | | | | | | |
| 2 | 99 | 91 | 85 | 80 | 95 | 89 | 83 | 78 | 84 | 79 | 75 | 79 | 75 | 72 | 75 | 72 | 69 | 66 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 74 | 68 | 88 | 79 | 72 | 67 | 75 | 69 | 65 | 71 | 66 | 62 | 67 | 63 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 4 | 84 | 73 | 65 | 59 | 81 | 71 | 64 | 58 | 68 | 61 | 57 | 64 | 59 | 55 | 61 | 57 | 53 | 51 | | | | | | | | | | | | | | | | | | | |
| 5 | 78 | 66 | 58 | 52 | 75 | 65 | 57 | 51 | 62 | 55 | 50 | 59 | 53 | 49 | 56 | 51 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 6 | 73 | 60 | 52 | 46 | 70 | 59 | 51 | 46 | 56 | 50 | 45 | 54 | 48 | 44 | 51 | 46 | 42 | 40 | | | | | | | | | | | | | | | | | | | |
| 7 | 68 | 55 | 47 | 42 | 65 | 54 | 47 | 41 | 52 | 45 | 40 | 50 | 44 | 39 | 47 | 42 | 38 | 36 | | | | | | | | | | | | | | | | | | | |
| 8 | 63 | 51 | 43 | 38 | 61 | 50 | 42 | 37 | 48 | 41 | 37 | 46 | 40 | 36 | 44 | 39 | 35 | 33 | | | | | | | | | | | | | | | | | | | |
| 9 | 59 | 47 | 40 | 34 | 58 | 46 | 39 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 41 | 36 | 32 | 30 | | | | | | | | | | | | | | | | | | | |
| 10 | 56 | 44 | 36 | 32 | 54 | 43 | 36 | 31 | 41 | 35 | 31 | 40 | 34 | 30 | 38 | 33 | 30 | 28 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 19327 | 19327 | 19327 |
| 5° | 19194 | 17600 | 16444 |
| 10° | 19316 | 14825 | 13250 |
| 15° | 19596 | 12679 | 10929 |
| 20° | 20043 | 10721 | 8885 |
| 25° | 20625 | 8874 | 7828 |
| 30° | 21215 | 7645 | 7314 |
| 35° | 21521 | 6967 | 7012 |
| 40° | 21005 | 6293 | 6699 |
| 45° | 19172 | 5687 | 6251 |
| 50° | 16026 | 5025 | 5922 |
| 55° | 12044 | 4401 | 5328 |
| 60° | 8325 | 3774 | 5171 |
| 65° | 5501 | 3251 | 5153 |
| 70° | 3666 | 3051 | 5541 |
| 75° | 2453 | 3146 | 6139 |
| 80° | 1588 | 3485 | 6721 |
| 85° | 817 | 4358 | 8013 |



TEST NUMBER: P826500

CATALOG NUMBER: OHBL-18HE-N-UNV-L830-CD-UPL12

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 952.5 | 5.3 |
| 10°-20° | 2240.8 | 12.5 |
| 20°-30° | 2808.8 | 15.7 |
| 30°-40° | 2980.5 | 16.7 |
| 40°-50° | 2694.8 | 15.1 |
| 50°-60° | 1953.9 | 10.9 |
| 60°-70° | 1226.2 | 6.9 |
| 70°-80° | 811.4 | 4.5 |
| 80°-90° | 470.4 | 2.6 |
| 90°-100° | 337.2 | 1.9 |
| 100°-110° | 541.5 | 3.0 |
| 110°-120° | 427.3 | 2.4 |
| 120°-130° | 205.3 | 1.1 |
| 130°-140° | 100.8 | 0.6 |
| 140°-150° | 57.9 | 0.3 |
| 150°-160° | 32.0 | 0.2 |
| 160°-170° | 14.0 | 0.1 |
| 170°-180° | 4.2 | 0.0 |
| 0°-30° | 6002.1 | 33.6 |
| 0°-40° | 8982.6 | 50.3 |
| 0°-60° | 13631.3 | 76.3 |
| 0°-90° | 16139.3 | 90.4 |
| 90°-120° | 1306.0 | 7.3 |
| 90°-150° | 1670.0 | 9.4 |
| 90°-180° | 1720.0 | 9.6 |
| 0°-180° | 17859.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 11316 | 11316 | 11316 | 11316 | 11316 | |
| 5° | 11293 | 11003 | 10357 | 9877 | 9628 | ### |
| 15° | 11379 | 9275 | 7366 | 6551 | 6254 | 3227 |
| 25° | 11454 | 7171 | 4932 | 4378 | 4239 | 5292 |
| 35° | 11044 | 4768 | 3580 | 3468 | 3467 | 6866 |
| 45° | 8731 | 3020 | 2594 | 2657 | 2702 | 6651 |
| 55° | 4622 | 1872 | 1693 | 1836 | 1902 | 4176 |
| 65° | 1653 | 1086 | 980 | 1256 | 1396 | 1720 |
| 75° | 510 | 585 | 658 | 1022 | 1083 | 569 |
| 85° | 89 | 242 | 481 | 670 | 615 | 107 |
| 90° | 3 | 118 | 301 | 422 | 429 | 8 |
| 95° | 28 | 125 | 326 | 442 | 474 | 80 |
| 105° | 490 | 523 | 584 | 524 | 508 | 464 |
| 115° | 347 | 368 | 456 | 484 | 482 | 347 |
| 125° | 177 | 188 | 235 | 250 | 250 | 164 |
| 135° | 106 | 111 | 128 | 144 | 144 | 84 |
| 145° | 83 | 86 | 89 | 98 | 98 | 52 |
| 155° | 69 | 73 | 75 | 77 | 75 | 30 |
| 165° | 48 | 48 | 49 | 49 | 49 | 14 |
| 175° | 44 | 44 | 44 | 44 | 44 | 4 |
| 180° | 43 | 43 | 43 | 43 | 43 | |



TEST NUMBER: P826500

CATALOG NUMBER: OHBL-18HE-N-UNV-L830-CD-UPL12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 11315.6 | 11315.6 | 11315.6 | 11315.6 | 11315.6 |
| 2.5° | 11291.9 | 11227.2 | 11025.9 | 10903.1 | 10799.7 |
| 5° | 11292.9 | 11003.3 | 10357.1 | 9876.8 | 9628.0 |
| 7.5° | 11309.1 | 10665.1 | 9501.0 | 8799.8 | 8526.3 |
| 10° | 11333.9 | 10246.2 | 8701.8 | 7954.4 | 7699.1 |
| 12.5° | 11352.2 | 9774.5 | 7998.6 | 7230.7 | 6950.7 |
| 15° | 11379.1 | 9274.8 | 7366.4 | 6551.1 | 6253.9 |
| 17.5° | 11404.0 | 8804.2 | 6741.8 | 5889.9 | 5559.2 |
| 20° | 11428.7 | 8296.9 | 6117.1 | 5239.4 | 4966.9 |
| 22.5° | 11452.3 | 7761.7 | 5507.6 | 4734.3 | 4548.0 |
| 25° | 11454.5 | 7171.4 | 4932.5 | 4377.8 | 4238.9 |
| 27.5° | 11426.6 | 6559.8 | 4466.1 | 4079.6 | 3993.4 |
| 30° | 11378.1 | 5966.4 | 4104.3 | 3864.1 | 3802.7 |
| 32.5° | 11257.5 | 5361.1 | 3824.3 | 3656.2 | 3620.7 |
| 35° | 11044.2 | 4767.7 | 3579.8 | 3467.8 | 3466.7 |
| 37.5° | 10708.2 | 4241.1 | 3314.9 | 3295.5 | 3319.2 |
| 40° | 10211.7 | 3780.1 | 3063.9 | 3115.7 | 3115.7 |
| 42.5° | 9549.4 | 3379.5 | 2836.7 | 2889.5 | 2875.5 |
| 45° | 8730.9 | 3019.7 | 2594.4 | 2656.8 | 2702.1 |
| 47.5° | 7782.1 | 2703.2 | 2346.7 | 2467.3 | 2529.8 |
| 50° | 6750.3 | 2401.6 | 2120.6 | 2274.6 | 2345.7 |
| 52.5° | 5669.1 | 2122.7 | 1899.7 | 2076.3 | 2133.5 |
| 55° | 4622.3 | 1871.7 | 1693.0 | 1836.2 | 1901.9 |
| 57.5° | 3674.6 | 1632.7 | 1490.5 | 1626.2 | 1761.9 |
| 60° | 2859.3 | 1427.0 | 1299.9 | 1493.7 | 1629.4 |
| 62.5° | 2184.1 | 1243.9 | 1121.1 | 1369.9 | 1505.5 |
| 65° | 1653.1 | 1085.6 | 980.1 | 1255.7 | 1395.7 |
| 67.5° | 1246.0 | 948.8 | 870.2 | 1172.8 | 1309.6 |
| 70° | 935.9 | 816.4 | 781.9 | 1121.1 | 1243.9 |
| 72.5° | 691.4 | 694.7 | 711.9 | 1075.9 | 1169.6 |
| 75° | 510.5 | 584.8 | 658.0 | 1022.0 | 1083.4 |
| 77.5° | 365.1 | 484.6 | 609.5 | 957.4 | 978.9 |
| 80° | 253.1 | 395.2 | 559.0 | 872.3 | 854.1 |
| 82.5° | 158.3 | 316.7 | 513.7 | 778.6 | 728.1 |
| 85° | 89.4 | 242.3 | 481.4 | 669.9 | 614.9 |
| 87.5° | 39.8 | 180.9 | 421.1 | 522.3 | 487.9 |
| 90° | 2.8 | 118.0 | 301.2 | 421.9 | 428.9 |
| 92.5° | 10.5 | 105.4 | 292.8 | 409.9 | 425.4 |
| 95° | 27.5 | 125.1 | 325.6 | 441.8 | 473.7 |
| 97.5° | 131.0 | 199.2 | 385.0 | 492.5 | 514.8 |
| 100° | 263.3 | 332.4 | 442.0 | 525.5 | 540.9 |
| 102.5° | 416.1 | 454.7 | 489.0 | 525.7 | 529.7 |
| 105° | 489.8 | 522.9 | 584.5 | 524.5 | 507.7 |



TEST NUMBER: P826500

CATALOG NUMBER: OHBL-18HE-N-UNV-L830-CD-UPL12

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 399.8 | 428.3 | 523.6 | 544.3 | 533.8 |
| 115° | 346.8 | 368.4 | 456.5 | 483.9 | 481.6 |
| 117.5° | 294.0 | 313.8 | 393.1 | 417.3 | 416.4 |
| 120° | 248.4 | 266.9 | 333.3 | 352.2 | 352.2 |
| 122.5° | 211.1 | 224.4 | 281.0 | 296.6 | 296.4 |
| 125° | 176.7 | 187.5 | 235.4 | 249.7 | 249.6 |
| 127.5° | 148.6 | 156.3 | 198.4 | 212.5 | 211.5 |
| 130° | 130.9 | 136.8 | 167.3 | 183.3 | 183.3 |
| 132.5° | 116.9 | 121.8 | 144.9 | 160.9 | 161.8 |
| 135° | 105.7 | 110.6 | 128.3 | 144.3 | 144.3 |
| 137.5° | 98.3 | 103.3 | 114.7 | 129.6 | 130.6 |
| 140° | 90.8 | 95.8 | 104.0 | 117.9 | 117.9 |
| 142.5° | 86.3 | 89.2 | 95.4 | 107.1 | 108.0 |
| 145° | 82.7 | 85.6 | 88.8 | 98.3 | 98.2 |
| 147.5° | 78.1 | 82.1 | 85.1 | 90.4 | 90.3 |
| 150° | 75.3 | 79.5 | 80.4 | 84.5 | 83.5 |
| 152.5° | 71.6 | 75.7 | 76.7 | 79.7 | 78.6 |
| 155° | 68.8 | 73.0 | 74.9 | 77.0 | 74.8 |
| 157.5° | 53.0 | 54.9 | 54.9 | 55.8 | 55.8 |
| 160° | 51.2 | 52.1 | 53.0 | 53.0 | 53.0 |
| 162.5° | 49.3 | 50.2 | 50.2 | 51.2 | 51.2 |
| 165° | 48.4 | 48.4 | 49.3 | 49.3 | 49.3 |
| 167.5° | 46.5 | 46.5 | 47.5 | 47.5 | 47.5 |
| 170° | 45.6 | 45.6 | 45.6 | 46.5 | 46.5 |
| 172.5° | 44.7 | 44.7 | 44.7 | 44.7 | 44.7 |
| 175° | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 |
| 177.5° | 42.8 | 43.7 | 43.7 | 43.7 | 43.7 |
| 180° | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 492.5 | 530.0 | 611.3 | 559.3 | 507.2 |
| 110° | 452.6 | 489.3 | 578.7 | 580.4 | 540.5 |



(END OF REPORT)