

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: P827543

Luminaire Tested: **OHB-15SE-NL-UNV-L930-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827543
REPORT IS A COMBINATION OF REPORTS P826093 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: OHB-15SE-NL-UNV-L930-CD-UPL15
Description:
Light Source: -
Ballast/Driver: -

Summary

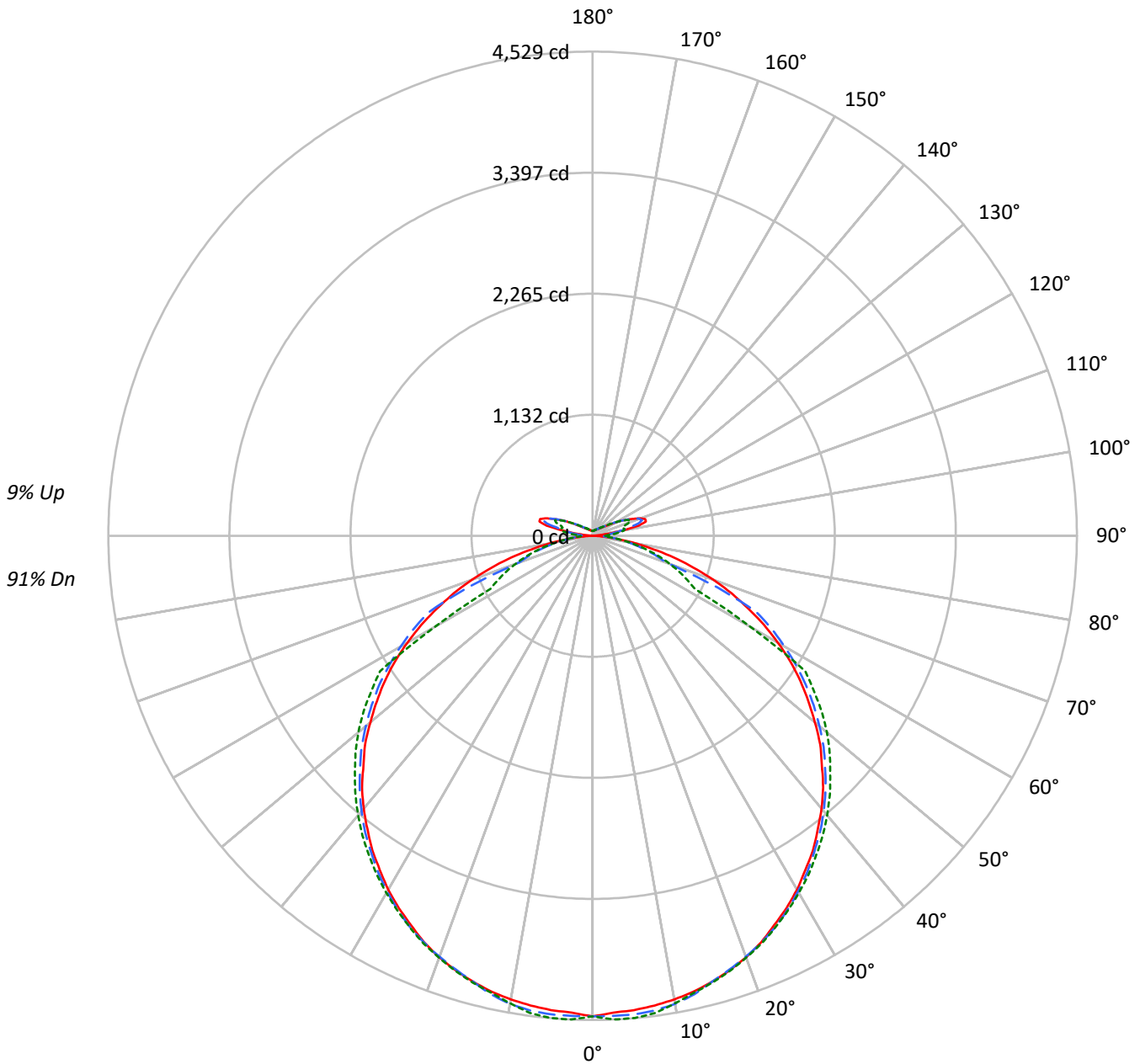
Lumens per Lamp: N/A
Luminaire Lumens: 13850.2 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 0.88' x H: 0.1')
CIE Type: Direct

Input Watts (W): 107.4
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: P827543

CATALOG NUMBER: OHB-15SE-NL-UNV-L930-CD-UPL15

Luminous Intensity Polar Plot





TEST NUMBER: P827543

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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 | 91 | | | | | | | | | | | | | | | | | | | |
| 1 | 107 | 103 | 99 | 95 | 103 | 99 | 96 | 92 | 94 | 91 | 88 | 88 | 86 | 84 | 83 | 81 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 78 | 94 | 87 | 81 | 76 | 82 | 77 | 73 | 77 | 73 | 70 | 73 | 70 | 67 | 64 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 79 | 71 | 65 | 86 | 77 | 69 | 64 | 72 | 66 | 61 | 68 | 63 | 59 | 65 | 61 | 57 | 55 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 55 | 79 | 68 | 60 | 54 | 64 | 58 | 52 | 61 | 55 | 51 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 62 | 54 | 47 | 72 | 61 | 53 | 47 | 58 | 51 | 45 | 55 | 49 | 44 | 52 | 47 | 43 | 40 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 41 | 67 | 55 | 47 | 41 | 52 | 45 | 40 | 49 | 43 | 39 | 47 | 42 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 51 | 42 | 36 | 62 | 50 | 42 | 36 | 47 | 40 | 35 | 45 | 39 | 34 | 43 | 37 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 30 | 39 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 29 | 54 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 32 | 27 | 36 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 50 | 38 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 25 | 34 | 28 | 24 | 23 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 28606 | 28606 | 28606 |
| 5° | 28166 | 28413 | 28791 |
| 10° | 27893 | 28143 | 28431 |
| 15° | 27605 | 27578 | 28118 |
| 20° | 27277 | 27206 | 27913 |
| 25° | 26790 | 26889 | 27715 |
| 30° | 26349 | 26440 | 27520 |
| 35° | 25837 | 25927 | 27332 |
| 40° | 25243 | 25422 | 27160 |
| 45° | 24469 | 24769 | 26890 |
| 50° | 23635 | 24038 | 26663 |
| 55° | 22644 | 23144 | 26068 |
| 60° | 21251 | 21907 | 20002 |
| 65° | 19345 | 20361 | 13203 |
| 70° | 16954 | 10231 | 12464 |
| 75° | 13622 | 8941 | 11395 |
| 80° | 9066 | 7081 | 9633 |
| 85° | 3270 | 5091 | 7671 |



TEST NUMBER: P827543

CATALOG NUMBER: OHB-15SE-NL-UNV-L930-CD-UPL15

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 427.1 | 3.1 |
| 10°-20° | 1222.9 | 8.8 |
| 20°-30° | 1860.8 | 13.4 |
| 30°-40° | 2262.4 | 16.3 |
| 40°-50° | 2378.9 | 17.2 |
| 50°-60° | 2172.2 | 15.7 |
| 60°-70° | 1392.5 | 10.1 |
| 70°-80° | 657.8 | 4.7 |
| 80°-90° | 185.5 | 1.3 |
| 90°-100° | 166.0 | 1.2 |
| 100°-110° | 421.1 | 3.0 |
| 110°-120° | 354.1 | 2.6 |
| 120°-130° | 168.2 | 1.2 |
| 130°-140° | 84.1 | 0.6 |
| 140°-150° | 48.8 | 0.4 |
| 150°-160° | 28.5 | 0.2 |
| 160°-170° | 14.8 | 0.1 |
| 170°-180° | 4.5 | 0.0 |
| 0°-30° | 3510.8 | 25.3 |
| 0°-40° | 5773.3 | 41.7 |
| 0°-60° | 10324.3 | 74.5 |
| 0°-90° | 12560.0 | 90.7 |
| 90°-120° | 941.3 | 6.8 |
| 90°-150° | 1242.4 | 9.0 |
| 90°-180° | 1290.0 | 9.3 |
| 0°-180° | 13850.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4496 | 4496 | 4496 | 4496 | 4496 | |
| 5° | 4454 | 4471 | 4494 | 4519 | 4528 | 424 |
| 15° | 4319 | 4351 | 4318 | 4324 | 4328 | 1219 |
| 25° | 4019 | 4026 | 4040 | 4046 | 4043 | 1855 |
| 35° | 3592 | 3571 | 3612 | 3656 | 3646 | 2245 |
| 45° | 3030 | 3024 | 3076 | 3148 | 3143 | 2342 |
| 55° | 2374 | 2356 | 2436 | 2517 | 2524 | 2118 |
| 65° | 1600 | 1600 | 1693 | 971 | 974 | 1586 |
| 75° | 790 | 805 | 523 | 551 | 553 | 833 |
| 85° | 103 | 131 | 163 | 177 | 167 | 153 |
| 90° | 2 | 62 | 96 | 117 | 119 | 6 |
| 95° | 25 | 81 | 139 | 185 | 204 | 82 |
| 105° | 516 | 513 | 443 | 316 | 291 | 488 |
| 115° | 356 | 358 | 364 | 360 | 348 | 359 |
| 125° | 171 | 180 | 185 | 184 | 183 | 161 |
| 135° | 101 | 104 | 107 | 108 | 109 | 80 |
| 145° | 74 | 75 | 77 | 78 | 78 | 47 |
| 155° | 59 | 60 | 61 | 61 | 62 | 28 |
| 165° | 51 | 51 | 52 | 52 | 52 | 15 |
| 175° | 46 | 46 | 46 | 47 | 47 | 4 |
| 180° | 46 | 46 | 46 | 46 | 46 | |



TEST NUMBER: P827543

CATALOG NUMBER: OHB-15SE-NL-UNV-L930-CD-UPL15

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4495.7 | 4495.7 | 4495.7 | 4495.7 | 4495.7 |
| 2.5° | 4464.1 | 4479.1 | 4495.7 | 4517.0 | 4528.8 |
| 5° | 4453.8 | 4471.2 | 4494.1 | 4518.6 | 4528.0 |
| 7.5° | 4431.8 | 4456.2 | 4478.3 | 4495.7 | 4501.2 |
| 10° | 4404.1 | 4433.4 | 4446.0 | 4444.4 | 4440.5 |
| 12.5° | 4367.0 | 4397.9 | 4393.9 | 4375.8 | 4378.9 |
| 15° | 4318.9 | 4351.3 | 4318.2 | 4324.5 | 4327.7 |
| 17.5° | 4262.2 | 4293.7 | 4255.1 | 4267.7 | 4268.5 |
| 20° | 4195.9 | 4219.6 | 4189.6 | 4199.9 | 4199.9 |
| 22.5° | 4116.3 | 4132.8 | 4120.2 | 4127.3 | 4128.9 |
| 25° | 4019.2 | 4025.5 | 4039.6 | 4046.0 | 4042.9 |
| 27.5° | 3926.2 | 3918.2 | 3945.9 | 3960.8 | 3952.9 |
| 30° | 3822.8 | 3810.2 | 3842.5 | 3867.0 | 3857.5 |
| 32.5° | 3704.4 | 3696.6 | 3733.7 | 3762.8 | 3757.3 |
| 35° | 3592.4 | 3571.1 | 3612.1 | 3656.3 | 3646.1 |
| 37.5° | 3459.9 | 3447.3 | 3493.8 | 3540.4 | 3534.9 |
| 40° | 3330.5 | 3309.2 | 3362.1 | 3417.3 | 3411.8 |
| 42.5° | 3191.7 | 3166.4 | 3224.0 | 3290.3 | 3284.0 |
| 45° | 3030.0 | 3024.5 | 3075.7 | 3148.3 | 3142.8 |
| 47.5° | 2886.5 | 2858.8 | 2930.5 | 3000.8 | 3007.2 |
| 50° | 2712.8 | 2702.7 | 2768.1 | 2853.3 | 2859.6 |
| 52.5° | 2543.3 | 2536.1 | 2604.8 | 2690.8 | 2701.8 |
| 55° | 2374.4 | 2356.3 | 2436.0 | 2517.2 | 2523.5 |
| 57.5° | 2193.8 | 2174.9 | 2256.1 | 2344.5 | 2357.9 |
| 60° | 2000.5 | 1982.4 | 2071.5 | 2153.6 | 1712.6 |
| 62.5° | 1807.3 | 1794.7 | 1887.8 | 1337.1 | 1077.6 |
| 65° | 1599.8 | 1599.8 | 1692.8 | 971.1 | 974.2 |
| 67.5° | 1405.8 | 1393.2 | 1262.2 | 872.4 | 872.4 |
| 70° | 1197.5 | 1202.2 | 727.3 | 764.4 | 765.2 |
| 72.5° | 988.4 | 1005.8 | 628.0 | 657.9 | 659.4 |
| 75° | 790.4 | 805.4 | 523.0 | 550.6 | 553.0 |
| 77.5° | 580.6 | 446.5 | 420.4 | 441.8 | 442.6 |
| 80° | 407.8 | 281.6 | 321.9 | 342.3 | 340.0 |
| 82.5° | 238.2 | 197.2 | 235.9 | 250.9 | 250.0 |
| 85° | 103.3 | 131.0 | 163.3 | 176.7 | 167.2 |
| 87.5° | 33.1 | 81.2 | 101.7 | 109.7 | 108.8 |
| 90° | 2.4 | 62.0 | 96.0 | 116.6 | 119.2 |
| 92.5° | 8.1 | 57.3 | 100.3 | 130.6 | 139.5 |
| 95° | 25.0 | 81.1 | 138.6 | 185.0 | 203.6 |
| 97.5° | 135.8 | 167.7 | 202.0 | 245.2 | 261.3 |
| 100° | 274.0 | 307.6 | 266.2 | 293.3 | 299.7 |
| 102.5° | 442.1 | 434.6 | 327.8 | 306.5 | 302.5 |
| 105° | 515.6 | 513.0 | 442.6 | 316.5 | 290.8 |



TEST NUMBER: P827543

CATALOG NUMBER: OHB-15SE-NL-UNV-L930-CD-UPL15

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 416.2 | 423.5 | 418.5 | 401.7 | 381.5 |
| 115° | 356.4 | 357.9 | 363.5 | 359.5 | 347.5 |
| 117.5° | 302.3 | 300.7 | 303.9 | 302.3 | 300.7 |
| 120° | 252.2 | 255.4 | 256.2 | 254.6 | 253.8 |
| 122.5° | 208.6 | 215.0 | 219.1 | 216.6 | 215.8 |
| 125° | 170.6 | 180.3 | 185.1 | 183.5 | 182.7 |
| 127.5° | 145.5 | 151.2 | 157.6 | 157.6 | 156.0 |
| 130° | 126.1 | 130.1 | 135.0 | 135.8 | 135.8 |
| 132.5° | 112.4 | 115.6 | 119.6 | 120.4 | 121.2 |
| 135° | 101.0 | 104.3 | 106.7 | 108.3 | 109.1 |
| 137.5° | 93.0 | 94.6 | 97.8 | 98.6 | 99.4 |
| 140° | 84.9 | 87.3 | 89.7 | 90.5 | 91.3 |
| 142.5° | 79.2 | 80.8 | 82.4 | 84.1 | 84.1 |
| 145° | 73.6 | 75.2 | 76.8 | 78.4 | 78.4 |
| 147.5° | 69.5 | 71.1 | 72.8 | 72.8 | 73.6 |
| 150° | 65.5 | 67.1 | 67.9 | 68.7 | 68.7 |
| 152.5° | 62.2 | 63.0 | 64.7 | 64.7 | 65.5 |
| 155° | 59.0 | 59.8 | 61.4 | 61.4 | 62.2 |
| 157.5° | 56.6 | 57.4 | 58.2 | 59.0 | 59.0 |
| 160° | 54.2 | 55.0 | 55.8 | 55.8 | 56.6 |
| 162.5° | 52.5 | 53.4 | 53.4 | 54.2 | 54.2 |
| 165° | 50.9 | 50.9 | 51.7 | 51.7 | 51.7 |
| 167.5° | 49.3 | 49.3 | 50.1 | 50.1 | 50.9 |
| 170° | 47.7 | 48.5 | 48.5 | 48.5 | 49.3 |
| 172.5° | 46.9 | 46.9 | 47.7 | 47.7 | 47.7 |
| 175° | 46.1 | 46.1 | 46.1 | 46.9 | 46.9 |
| 177.5° | 45.3 | 46.1 | 46.1 | 46.1 | 46.1 |
| 180° | 46.1 | 46.1 | 46.1 | 46.1 | 46.1 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 515.6 | 520.3 | 485.5 | 372.5 | 308.7 |
| 110° | 476.8 | 483.2 | 464.5 | 420.3 | 364.5 |



(END OF REPORT)