

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: P827688

Luminaire Tested: **OHBL-15SE-NL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827688
REPORT IS A COMBINATION OF REPORTS P826225 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-15SE-NL-UNV-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

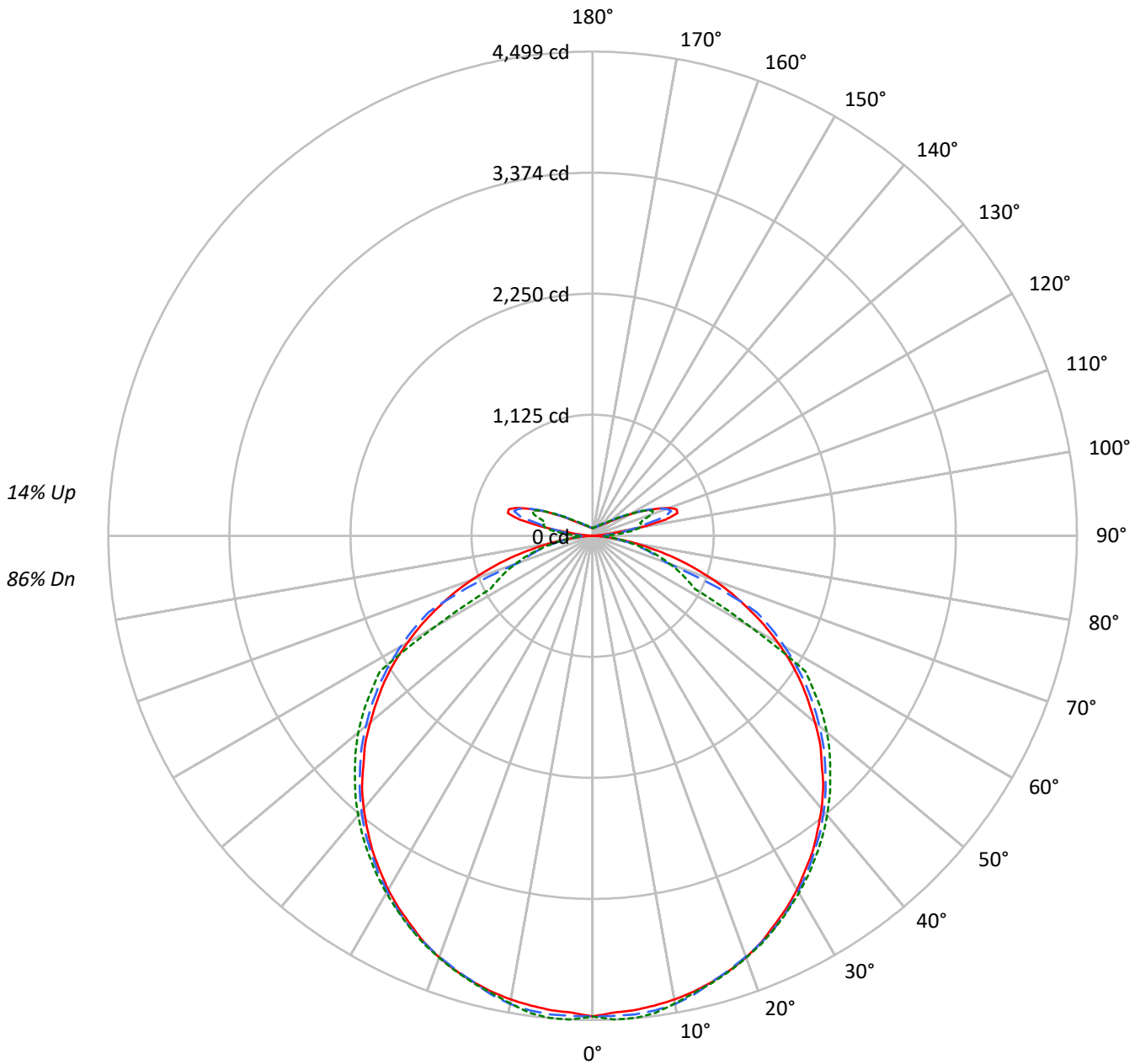
Lumens per Lamp: N/A
Luminaire Lumens: 14496.0 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 104.4
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: P827688

CATALOG NUMBER: OHBL-15SE-NL-UNV-L930-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P827688

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 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 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 103 | 103 | 103 | 96 | 96 | 96 | 89 | 89 | 89 | 86 | | | | 86 |
| 1 | 106 | 102 | 98 | 94 | 102 | 98 | 94 | 91 | 91 | 88 | 86 | 85 | 83 | 81 | 79 | 78 | 76 | 73 | | | | 73 |
| 2 | 97 | 89 | 82 | 77 | 93 | 86 | 80 | 75 | 80 | 75 | 71 | 75 | 71 | 68 | 70 | 67 | 64 | 61 | | | | 61 |
| 3 | 88 | 78 | 70 | 64 | 85 | 76 | 68 | 63 | 71 | 65 | 60 | 66 | 61 | 57 | 62 | 58 | 54 | 52 | | | | 52 |
| 4 | 81 | 69 | 61 | 54 | 77 | 67 | 59 | 53 | 63 | 56 | 51 | 59 | 53 | 49 | 55 | 51 | 47 | 44 | | | | 44 |
| 5 | 74 | 62 | 53 | 47 | 71 | 60 | 52 | 46 | 56 | 49 | 44 | 53 | 47 | 42 | 50 | 45 | 41 | 38 | | | | 38 |
| 6 | 68 | 56 | 47 | 41 | 66 | 54 | 46 | 40 | 51 | 44 | 39 | 48 | 42 | 37 | 45 | 40 | 36 | 33 | | | | 33 |
| 7 | 63 | 50 | 42 | 36 | 61 | 49 | 41 | 35 | 46 | 39 | 34 | 43 | 37 | 33 | 41 | 36 | 32 | 30 | | | | 30 |
| 8 | 59 | 46 | 38 | 32 | 57 | 44 | 37 | 31 | 42 | 35 | 30 | 40 | 34 | 29 | 38 | 32 | 28 | 26 | | | | 26 |
| 9 | 55 | 42 | 34 | 29 | 53 | 41 | 33 | 28 | 39 | 32 | 27 | 37 | 31 | 26 | 35 | 29 | 26 | 24 | | | | 24 |
| 10 | 51 | 39 | 31 | 26 | 50 | 38 | 30 | 25 | 36 | 29 | 25 | 34 | 28 | 24 | 32 | 27 | 23 | 21 | | | | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14530 | 14530 | 14530 |
| 5° | 14307 | 14455 | 14657 |
| 10° | 14168 | 14340 | 14506 |
| 15° | 14022 | 14074 | 14379 |
| 20° | 13855 | 13906 | 14308 |
| 25° | 13608 | 13767 | 14242 |
| 30° | 13384 | 13561 | 14180 |
| 35° | 13124 | 13324 | 14124 |
| 40° | 12823 | 13092 | 14082 |
| 45° | 12429 | 12786 | 13995 |
| 50° | 12005 | 12443 | 13939 |
| 55° | 11502 | 12019 | 13703 |
| 60° | 10795 | 11421 | 10586 |
| 65° | 9826 | 10669 | 7051 |
| 70° | 8612 | 5397 | 6741 |
| 75° | 6919 | 4763 | 6284 |
| 80° | 4605 | 3830 | 5503 |
| 85° | 1662 | 2833 | 4761 |



TEST NUMBER: P827688

CATALOG NUMBER: OHBL-15SE-NL-UNV-L930-CD-UPL24

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 424.3 | 2.9 |
| 10°-20° | 1214.9 | 8.4 |
| 20°-30° | 1848.6 | 12.8 |
| 30°-40° | 2247.7 | 15.5 |
| 40°-50° | 2363.3 | 16.3 |
| 50°-60° | 2158.0 | 14.9 |
| 60°-70° | 1383.4 | 9.5 |
| 70°-80° | 653.5 | 4.5 |
| 80°-90° | 186.2 | 1.3 |
| 90°-100° | 235.4 | 1.6 |
| 100°-110° | 663.8 | 4.6 |
| 110°-120° | 561.8 | 3.9 |
| 120°-130° | 267.8 | 1.8 |
| 130°-140° | 134.0 | 0.9 |
| 140°-150° | 77.7 | 0.5 |
| 150°-160° | 45.3 | 0.3 |
| 160°-170° | 23.5 | 0.2 |
| 170°-180° | 7.1 | 0.0 |
| 0°-30° | 3487.9 | 24.1 |
| 0°-40° | 5735.5 | 39.6 |
| 0°-60° | 10256.8 | 70.8 |
| 0°-90° | 12479.9 | 86.1 |
| 90°-120° | 1460.9 | 10.1 |
| 90°-150° | 1940.3 | 13.4 |
| 90°-180° | 2016.0 | 13.9 |
| 0°-180° | 14496.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4466 | 4466 | 4466 | 4466 | 4466 | |
| 5° | 4425 | 4442 | 4465 | 4489 | 4498 | 421 |
| 15° | 4291 | 4323 | 4290 | 4296 | 4299 | 1211 |
| 25° | 3993 | 3999 | 4013 | 4020 | 4016 | 1842 |
| 35° | 3569 | 3548 | 3588 | 3632 | 3622 | 2230 |
| 45° | 3010 | 3005 | 3056 | 3128 | 3122 | 2327 |
| 55° | 2359 | 2341 | 2420 | 2501 | 2507 | 2104 |
| 65° | 1589 | 1589 | 1682 | 965 | 968 | 1576 |
| 75° | 785 | 800 | 520 | 547 | 549 | 828 |
| 85° | 103 | 130 | 162 | 176 | 166 | 152 |
| 90° | 4 | 71 | 110 | 136 | 140 | 7 |
| 95° | 45 | 112 | 191 | 254 | 278 | 134 |
| 105° | 815 | 810 | 695 | 498 | 458 | 773 |
| 115° | 563 | 570 | 573 | 569 | 559 | 567 |
| 125° | 273 | 288 | 293 | 293 | 290 | 256 |
| 135° | 162 | 165 | 171 | 172 | 174 | 128 |
| 145° | 117 | 120 | 123 | 124 | 124 | 75 |
| 155° | 94 | 95 | 97 | 98 | 98 | 44 |
| 165° | 81 | 82 | 82 | 82 | 82 | 23 |
| 175° | 73 | 74 | 74 | 74 | 74 | 7 |
| 180° | 73 | 73 | 73 | 73 | 73 | |



TEST NUMBER: P827688

CATALOG NUMBER: OHBL-15SE-NL-UNV-L930-CD-UPL24

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4466.3 | 4466.3 | 4466.3 | 4466.3 | 4466.3 |
| 2.5° | 4434.9 | 4449.9 | 4466.3 | 4487.5 | 4499.2 |
| 5° | 4424.7 | 4442.0 | 4464.7 | 4489.1 | 4498.5 |
| 7.5° | 4402.8 | 4427.1 | 4449.1 | 4466.3 | 4471.8 |
| 10° | 4375.3 | 4404.4 | 4417.0 | 4415.4 | 4411.5 |
| 12.5° | 4338.6 | 4369.1 | 4365.2 | 4347.1 | 4350.3 |
| 15° | 4290.7 | 4322.9 | 4290.0 | 4296.2 | 4299.4 |
| 17.5° | 4234.3 | 4265.7 | 4227.3 | 4239.8 | 4240.6 |
| 20° | 4168.5 | 4192.0 | 4162.2 | 4172.5 | 4172.5 |
| 22.5° | 4089.4 | 4105.8 | 4093.2 | 4100.4 | 4101.9 |
| 25° | 3992.9 | 3999.1 | 4013.3 | 4019.6 | 4016.4 |
| 27.5° | 3900.5 | 3892.6 | 3920.1 | 3935.0 | 3927.0 |
| 30° | 3797.8 | 3785.3 | 3817.4 | 3841.7 | 3832.3 |
| 32.5° | 3680.3 | 3672.4 | 3709.3 | 3738.2 | 3732.7 |
| 35° | 3569.0 | 3547.8 | 3588.5 | 3632.4 | 3622.2 |
| 37.5° | 3437.3 | 3424.7 | 3471.0 | 3517.3 | 3511.8 |
| 40° | 3308.8 | 3287.6 | 3340.1 | 3395.0 | 3389.5 |
| 42.5° | 3170.8 | 3145.7 | 3202.9 | 3268.8 | 3262.5 |
| 45° | 3010.2 | 3004.7 | 3055.6 | 3127.7 | 3122.3 |
| 47.5° | 2867.6 | 2840.2 | 2911.4 | 2981.2 | 2987.5 |
| 50° | 2695.1 | 2685.0 | 2750.0 | 2834.7 | 2840.9 |
| 52.5° | 2526.7 | 2519.7 | 2587.7 | 2673.2 | 2684.2 |
| 55° | 2358.9 | 2340.9 | 2420.1 | 2500.8 | 2507.1 |
| 57.5° | 2179.5 | 2160.7 | 2241.4 | 2329.2 | 2342.5 |
| 60° | 1987.4 | 1969.4 | 2057.9 | 2139.5 | 1701.5 |
| 62.5° | 1795.5 | 1782.9 | 1875.4 | 1328.4 | 1070.6 |
| 65° | 1589.3 | 1589.3 | 1681.7 | 964.7 | 967.9 |
| 67.5° | 1396.6 | 1384.0 | 1254.0 | 866.7 | 866.7 |
| 70° | 1189.6 | 1194.4 | 722.5 | 759.4 | 760.2 |
| 72.5° | 982.0 | 999.3 | 623.9 | 653.5 | 655.2 |
| 75° | 785.2 | 800.2 | 519.6 | 547.0 | 549.3 |
| 77.5° | 576.8 | 443.5 | 417.7 | 438.9 | 439.7 |
| 80° | 405.1 | 279.8 | 319.8 | 340.1 | 337.8 |
| 82.5° | 236.6 | 195.9 | 234.3 | 249.2 | 248.4 |
| 85° | 102.7 | 130.1 | 162.2 | 175.6 | 166.1 |
| 87.5° | 32.8 | 80.8 | 101.0 | 109.0 | 108.1 |
| 90° | 4.0 | 71.4 | 110.1 | 135.5 | 139.7 |
| 92.5° | 13.7 | 70.8 | 120.9 | 160.9 | 172.1 |
| 95° | 45.2 | 112.4 | 190.8 | 254.1 | 278.3 |
| 97.5° | 219.1 | 251.6 | 289.9 | 361.2 | 389.5 |
| 100° | 447.8 | 486.9 | 406.7 | 443.3 | 451.5 |
| 102.5° | 693.4 | 696.4 | 514.4 | 472.9 | 467.2 |
| 105° | 814.6 | 810.5 | 694.8 | 498.3 | 458.0 |



TEST NUMBER: P827688

CATALOG NUMBER: OHBL-15SE-NL-UNV-L930-CD-UPL24

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 657.9 | 669.1 | 658.5 | 637.6 | 606.2 |
| 115° | 563.2 | 570.5 | 572.8 | 568.9 | 559.3 |
| 117.5° | 478.5 | 479.3 | 482.6 | 481.8 | 482.6 |
| 120° | 396.1 | 405.0 | 412.2 | 408.2 | 403.4 |
| 122.5° | 332.2 | 341.9 | 346.8 | 345.2 | 340.3 |
| 125° | 273.2 | 287.8 | 293.4 | 292.6 | 290.2 |
| 127.5° | 231.2 | 241.7 | 249.8 | 250.6 | 249.8 |
| 130° | 201.3 | 207.7 | 215.8 | 216.6 | 217.4 |
| 132.5° | 178.6 | 184.3 | 190.0 | 193.2 | 192.4 |
| 135° | 161.7 | 164.9 | 170.6 | 172.2 | 173.8 |
| 137.5° | 147.9 | 150.4 | 155.2 | 157.6 | 157.6 |
| 140° | 135.8 | 139.0 | 143.1 | 144.7 | 145.5 |
| 142.5° | 125.3 | 128.5 | 131.8 | 133.4 | 133.4 |
| 145° | 117.2 | 120.4 | 122.9 | 123.7 | 124.5 |
| 147.5° | 109.9 | 113.2 | 114.8 | 116.4 | 116.4 |
| 150° | 104.3 | 105.9 | 108.3 | 109.1 | 109.9 |
| 152.5° | 98.6 | 100.2 | 102.7 | 103.5 | 103.5 |
| 155° | 93.8 | 95.4 | 97.0 | 97.8 | 97.8 |
| 157.5° | 89.7 | 91.3 | 93.0 | 93.8 | 93.8 |
| 160° | 86.5 | 87.3 | 88.9 | 89.7 | 89.7 |
| 162.5° | 83.3 | 84.1 | 84.9 | 85.7 | 85.7 |
| 165° | 80.8 | 81.6 | 82.4 | 82.4 | 82.4 |
| 167.5° | 78.4 | 78.4 | 79.2 | 80.0 | 80.0 |
| 170° | 76.0 | 76.8 | 76.8 | 77.6 | 77.6 |
| 172.5° | 74.4 | 75.2 | 75.2 | 75.2 | 76.0 |
| 175° | 72.8 | 73.6 | 73.6 | 74.4 | 74.4 |
| 177.5° | 72.8 | 72.8 | 72.8 | 72.8 | 72.8 |
| 180° | 72.8 | 72.8 | 72.8 | 72.8 | 72.8 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 817.9 | 825.0 | 765.1 | 596.3 | 493.0 |
| 110° | 755.7 | 765.2 | 731.2 | 665.9 | 581.1 |



(END OF REPORT)