

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: P290475

Luminaire Tested: **4SSRK-SLW-80-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-SLW-80-L850-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8029.5 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

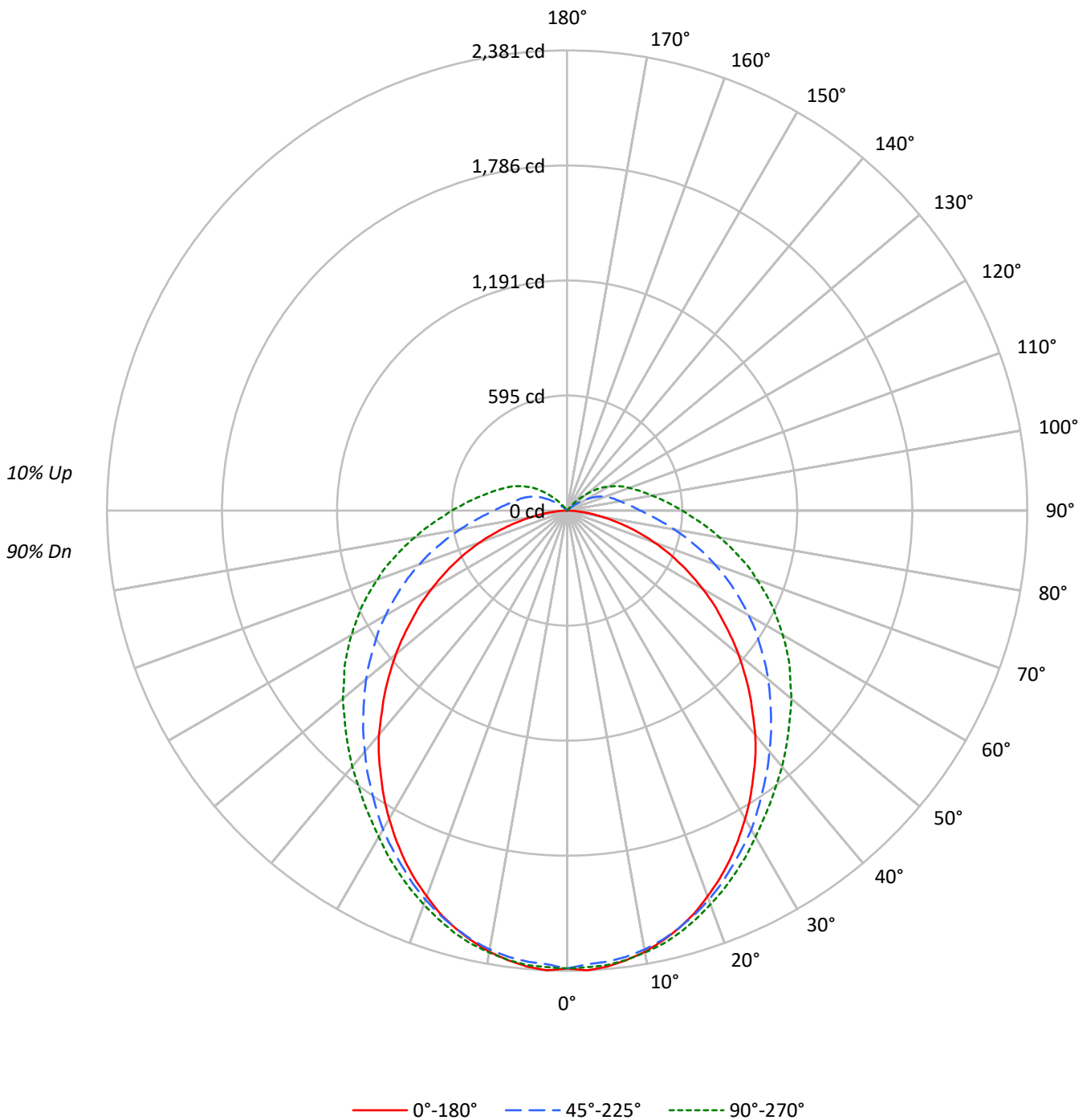
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 99 | 99 | 99 | 93 | 93 | 93 | 90 |
| 1 | 104 | 99 | 94 | 89 | 101 | 96 | 91 | 87 | 89 | 86 | 82 | 84 | 81 | 78 | 79 | 76 | 74 | 71 |
| 2 | 94 | 85 | 78 | 71 | 91 | 82 | 76 | 70 | 77 | 72 | 67 | 72 | 68 | 64 | 68 | 64 | 61 | 58 |
| 3 | 86 | 74 | 66 | 59 | 82 | 72 | 64 | 58 | 68 | 61 | 55 | 63 | 58 | 53 | 60 | 55 | 51 | 48 |
| 4 | 78 | 66 | 56 | 49 | 75 | 64 | 55 | 49 | 60 | 53 | 47 | 56 | 50 | 45 | 53 | 48 | 43 | 41 |
| 5 | 72 | 59 | 49 | 42 | 69 | 57 | 48 | 42 | 54 | 46 | 40 | 50 | 44 | 39 | 48 | 42 | 38 | 35 |
| 6 | 66 | 53 | 43 | 37 | 64 | 51 | 43 | 36 | 48 | 41 | 35 | 46 | 39 | 34 | 43 | 37 | 33 | 31 |
| 7 | 61 | 48 | 39 | 32 | 59 | 46 | 38 | 32 | 44 | 36 | 31 | 42 | 35 | 30 | 39 | 34 | 29 | 27 |
| 8 | 57 | 43 | 35 | 29 | 55 | 42 | 34 | 28 | 40 | 33 | 28 | 38 | 32 | 27 | 36 | 30 | 26 | 24 |
| 9 | 53 | 40 | 32 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 28 | 24 | 22 |
| 10 | 50 | 37 | 29 | 23 | 48 | 36 | 28 | 23 | 34 | 27 | 23 | 33 | 26 | 22 | 31 | 26 | 21 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 152997 | 152997 | 152997 |
| 5° | 153024 | 121514 | 113384 |
| 10° | 150904 | 100554 | 89295 |
| 15° | 147851 | 84667 | 72935 |
| 20° | 143797 | 72191 | 60700 |
| 25° | 139313 | 61892 | 51358 |
| 30° | 134138 | 53637 | 43919 |
| 35° | 128622 | 46368 | 38105 |
| 40° | 123410 | 40391 | 33480 |
| 45° | 116966 | 35299 | 29574 |
| 50° | 110748 | 30968 | 26395 |
| 55° | 103935 | 27011 | 23584 |
| 60° | 97341 | 23554 | 21000 |
| 65° | 89920 | 20343 | 18699 |
| 70° | 80988 | 17343 | 16458 |
| 75° | 69320 | 14588 | 14428 |
| 80° | 54450 | 12147 | 12578 |
| 85° | 35639 | 10125 | 10960 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 223.9 | 2.8 |
| 10°-20° | 633.1 | 7.9 |
| 20°-30° | 936.7 | 11.7 |
| 30°-40° | 1106.3 | 13.8 |
| 40°-50° | 1150.0 | 14.3 |
| 50°-60° | 1084.2 | 13.5 |
| 60°-70° | 924.2 | 11.5 |
| 70°-80° | 698.9 | 8.7 |
| 80°-90° | 471.6 | 5.9 |
| 90°-100° | 323.8 | 4.0 |
| 100°-110° | 232.2 | 2.9 |
| 110°-120° | 149.0 | 1.9 |
| 120°-130° | 76.0 | 0.9 |
| 130°-140° | 19.3 | 0.2 |
| 140°-150° | 0.3 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1793.7 | 22.3 |
| 0°-40° | 2900.0 | 36.1 |
| 0°-60° | 5134.2 | 63.9 |
| 0°-90° | 7229.0 | 90.0 |
| 90°-120° | 705.0 | 8.8 |
| 90°-150° | 800.6 | 10.0 |
| 90°-180° | 801.0 | 10.0 |
| 0°-180° | 8029.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2369 | 2369 | 2369 | 2369 | 2369 | |
| 5° | 2369 | 2363 | 2343 | 2365 | 2361 | 224 |
| 15° | 2236 | 2243 | 2236 | 2258 | 2260 | 630 |
| 25° | 1993 | 2016 | 2026 | 2061 | 2065 | 917 |
| 35° | 1679 | 1719 | 1765 | 1818 | 1837 | 1051 |
| 45° | 1334 | 1400 | 1491 | 1583 | 1619 | 1029 |
| 55° | 978 | 1079 | 1219 | 1350 | 1406 | 877 |
| 65° | 641 | 771 | 949 | 1106 | 1172 | 636 |
| 75° | 321 | 477 | 682 | 856 | 921 | 343 |
| 85° | 71 | 239 | 460 | 630 | 691 | 81 |
| 90° | 1 | 169 | 378 | 539 | 596 | 4 |
| 95° | 1 | 134 | 322 | 464 | 516 | 1 |
| 105° | 2 | 86 | 244 | 351 | 391 | 2 |
| 115° | 2 | 11 | 169 | 265 | 298 | 2 |
| 125° | 2 | 3 | 71 | 165 | 198 | 2 |
| 135° | 2 | 1 | 1 | 52 | 77 | 2 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P290475

CATALOG NUMBER: 4SSRK-SLW-80-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 0° | 2369 | 2369 | 2369 | 2369 | 2369 |
| 2.5° | 2381 | 2373 | 2350 | 2370 | 2365 |
| 5° | 2369 | 2363 | 2343 | 2365 | 2361 |
| 7.5° | 2346 | 2345 | 2329 | 2352 | 2345 |
| 10° | 2318 | 2319 | 2306 | 2329 | 2322 |
| 12.5° | 2280 | 2284 | 2275 | 2297 | 2296 |
| 15° | 2236 | 2243 | 2236 | 2258 | 2260 |
| 17.5° | 2186 | 2197 | 2192 | 2219 | 2216 |
| 20° | 2124 | 2139 | 2143 | 2170 | 2169 |
| 22.5° | 2062 | 2081 | 2088 | 2116 | 2120 |
| 25° | 1993 | 2016 | 2026 | 2061 | 2065 |
| 27.5° | 1918 | 1948 | 1966 | 2001 | 2010 |
| 30° | 1842 | 1874 | 1906 | 1941 | 1949 |
| 32.5° | 1763 | 1798 | 1835 | 1883 | 1892 |
| 35° | 1679 | 1719 | 1765 | 1818 | 1837 |
| 37.5° | 1600 | 1645 | 1699 | 1761 | 1781 |
| 40° | 1515 | 1561 | 1628 | 1698 | 1730 |
| 42.5° | 1420 | 1482 | 1562 | 1646 | 1674 |
| 45° | 1334 | 1400 | 1491 | 1583 | 1619 |
| 47.5° | 1244 | 1321 | 1424 | 1526 | 1565 |
| 50° | 1157 | 1241 | 1358 | 1468 | 1515 |
| 52.5° | 1067 | 1162 | 1289 | 1411 | 1455 |
| 55° | 978 | 1079 | 1219 | 1350 | 1406 |
| 57.5° | 898 | 1001 | 1156 | 1290 | 1347 |
| 60° | 808 | 927 | 1085 | 1229 | 1289 |
| 62.5° | 725 | 846 | 1015 | 1168 | 1228 |
| 65° | 641 | 771 | 949 | 1106 | 1172 |
| 67.5° | 562 | 693 | 882 | 1045 | 1108 |
| 70° | 478 | 620 | 813 | 981 | 1045 |
| 72.5° | 401 | 547 | 749 | 919 | 988 |
| 75° | 321 | 477 | 682 | 856 | 921 |
| 77.5° | 250 | 409 | 622 | 797 | 862 |
| 80° | 181 | 347 | 562 | 738 | 801 |
| 82.5° | 123 | 290 | 509 | 684 | 746 |
| 85° | 71 | 239 | 460 | 630 | 691 |
| 87.5° | 27 | 199 | 416 | 583 | 639 |
| 90° | 1 | 169 | 378 | 539 | 596 |
| 92.5° | 1 | 148 | 349 | 499 | 552 |
| 95° | 1 | 134 | 322 | 464 | 516 |
| 97.5° | 2 | 123 | 298 | 433 | 479 |
| 100° | 2 | 112 | 278 | 403 | 447 |
| 102.5° | 2 | 101 | 260 | 376 | 417 |
| 105° | 2 | 86 | 244 | 351 | 391 |
| 107.5° | 2 | 67 | 226 | 330 | 365 |
| 110° | 2 | 49 | 207 | 309 | 343 |



TEST NUMBER: P290475

CATALOG NUMBER: 4SSRK-SLW-80-L850-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|----|-------|-----|-------|-----|
| 112.5° | 2 | 30 | 190 | 288 | 321 |
| 115° | 2 | 11 | 169 | 265 | 298 |
| 117.5° | 2 | 4 | 144 | 243 | 272 |
| 120° | 2 | 3 | 120 | 219 | 248 |
| 122.5° | 2 | 3 | 95 | 193 | 224 |
| 125° | 2 | 3 | 71 | 165 | 198 |
| 127.5° | 2 | 2 | 46 | 136 | 166 |
| 130° | 2 | 2 | 22 | 108 | 137 |
| 132.5° | 2 | 2 | 1 | 79 | 107 |
| 135° | 2 | 1 | 1 | 52 | 77 |
| 137.5° | 2 | 1 | 0 | 25 | 50 |
| 140° | 2 | 1 | 0 | 0 | 20 |
| 142.5° | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 |
| 147.5° | 0 | 0 | 0 | 0 | 0 |
| 150° | 0 | 0 | 0 | 0 | 0 |
| 152.5° | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 |
| 157.5° | 0 | 0 | 0 | 0 | 0 |
| 160° | 0 | 0 | 0 | 0 | 0 |
| 162.5° | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 |
| 167.5° | 0 | 0 | 0 | 0 | 0 |
| 170° | 0 | 0 | 0 | 0 | 0 |
| 172.5° | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 |
| 177.5° | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)