

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: P290520

Luminaire Tested: **8SSRK-SLW-12-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290520
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: 8SSRK-SLW-12-L830-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

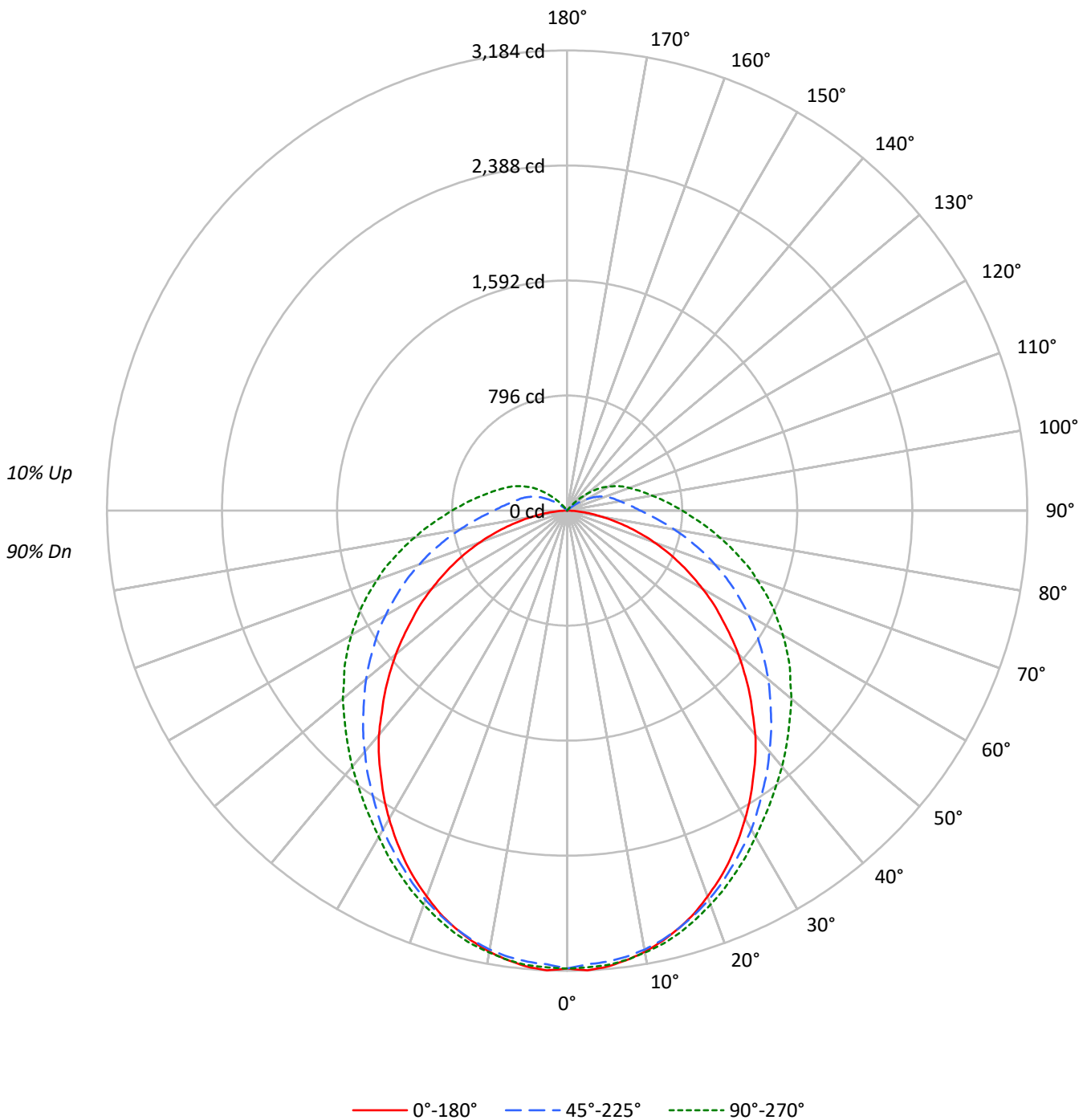
Lumens per Lamp: N/A
Luminaire Lumens: 10739.1 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 80.8951
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° | 102312 | 102312 | 102312 |
| 5° | 102516 | 81345 | 75822 |
| 10° | 101282 | 67360 | 59715 |
| 15° | 99423 | 56747 | 48773 |
| 20° | 96886 | 48404 | 40591 |
| 25° | 94057 | 41511 | 34344 |
| 30° | 90768 | 35984 | 29370 |
| 35° | 87250 | 31114 | 25482 |
| 40° | 83944 | 27110 | 22389 |
| 45° | 79816 | 23695 | 19777 |
| 50° | 75853 | 20793 | 17650 |
| 55° | 71511 | 18139 | 15772 |
| 60° | 67364 | 15819 | 14044 |
| 65° | 62703 | 13664 | 12505 |
| 70° | 57091 | 11651 | 11005 |
| 75° | 49697 | 9801 | 9649 |
| 80° | 40264 | 8163 | 8411 |
| 85° | 28428 | 6805 | 7329 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 299.4 | 2.8 |
| 10°-20° | 846.8 | 7.9 |
| 20°-30° | 1252.8 | 11.7 |
| 30°-40° | 1479.6 | 13.8 |
| 40°-50° | 1538.0 | 14.3 |
| 50°-60° | 1450.1 | 13.5 |
| 60°-70° | 1236.1 | 11.5 |
| 70°-80° | 934.8 | 8.7 |
| 80°-90° | 630.8 | 5.9 |
| 90°-100° | 433.1 | 4.0 |
| 100°-110° | 310.6 | 2.9 |
| 110°-120° | 199.3 | 1.9 |
| 120°-130° | 101.7 | 0.9 |
| 130°-140° | 25.8 | 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° | 2399.0 | 22.3 |
| 0°-40° | 3878.6 | 36.1 |
| 0°-60° | 6866.7 | 63.9 |
| 0°-90° | 9668.4 | 90.0 |
| 90°-120° | 942.9 | 8.8 |
| 90°-150° | 1070.7 | 10.0 |
| 90°-180° | 1071.0 | 10.0 |
| 0°-180° | 10739.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3168 | 3168 | 3168 | 3168 | 3168 | |
| 5° | 3168 | 3160 | 3134 | 3163 | 3158 | 300 |
| 15° | 2991 | 3000 | 2991 | 3020 | 3023 | 842 |
| 25° | 2666 | 2696 | 2710 | 2756 | 2762 | 1226 |
| 35° | 2246 | 2299 | 2361 | 2432 | 2457 | 1406 |
| 45° | 1784 | 1872 | 1994 | 2117 | 2165 | 1376 |
| 55° | 1308 | 1443 | 1630 | 1806 | 1880 | 1174 |
| 65° | 857 | 1031 | 1269 | 1479 | 1568 | 851 |
| 75° | 429 | 638 | 912 | 1145 | 1232 | 459 |
| 85° | 95 | 320 | 615 | 843 | 924 | 108 |
| 90° | 1 | 226 | 506 | 721 | 797 | 5 |
| 95° | 1 | 179 | 431 | 621 | 690 | 2 |
| 105° | 3 | 115 | 326 | 469 | 523 | 3 |
| 115° | 3 | 15 | 226 | 354 | 399 | 3 |
| 125° | 3 | 4 | 95 | 221 | 265 | 2 |
| 135° | 3 | 1 | 1 | 70 | 103 | 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: P290520

CATALOG NUMBER: 8SSRK-SLW-12-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3168.4 | 3168.4 | 3168.4 | 3168.4 | 3168.4 |
| 2.5° | 3184.5 | 3173.8 | 3143.0 | 3169.8 | 3163.1 |
| 5° | 3168.4 | 3160.4 | 3133.7 | 3163.1 | 3157.7 |
| 7.5° | 3137.7 | 3136.3 | 3114.9 | 3145.7 | 3136.3 |
| 10° | 3100.2 | 3101.6 | 3084.2 | 3114.9 | 3105.6 |
| 12.5° | 3049.4 | 3054.7 | 3042.7 | 3072.1 | 3070.8 |
| 15° | 2990.6 | 2999.9 | 2990.6 | 3020.0 | 3022.6 |
| 17.5° | 2923.7 | 2938.4 | 2931.7 | 2967.8 | 2963.8 |
| 20° | 2840.8 | 2860.8 | 2866.2 | 2902.3 | 2900.9 |
| 22.5° | 2757.8 | 2783.2 | 2792.6 | 2830.1 | 2835.4 |
| 25° | 2665.5 | 2696.3 | 2709.7 | 2756.5 | 2761.8 |
| 27.5° | 2565.2 | 2605.4 | 2629.4 | 2676.2 | 2688.3 |
| 30° | 2463.6 | 2506.4 | 2549.2 | 2596.0 | 2606.7 |
| 32.5° | 2357.9 | 2404.7 | 2454.2 | 2518.4 | 2530.5 |
| 35° | 2245.6 | 2299.1 | 2360.6 | 2431.5 | 2456.9 |
| 37.5° | 2139.9 | 2200.1 | 2272.3 | 2355.3 | 2382.0 |
| 40° | 2026.2 | 2087.8 | 2177.4 | 2271.0 | 2313.8 |
| 42.5° | 1899.2 | 1982.1 | 2089.1 | 2201.5 | 2238.9 |
| 45° | 1784.2 | 1872.4 | 1994.1 | 2117.2 | 2165.3 |
| 47.5° | 1663.8 | 1766.8 | 1904.5 | 2041.0 | 2093.1 |
| 50° | 1547.4 | 1659.8 | 1816.3 | 1963.4 | 2026.2 |
| 52.5° | 1427.1 | 1554.1 | 1724.0 | 1887.1 | 1946.0 |
| 55° | 1308.0 | 1443.1 | 1630.4 | 1805.6 | 1880.5 |
| 57.5° | 1201.0 | 1338.8 | 1546.1 | 1725.3 | 1801.6 |
| 60° | 1080.7 | 1239.8 | 1451.1 | 1643.7 | 1724.0 |
| 62.5° | 969.7 | 1131.5 | 1357.5 | 1562.1 | 1642.4 |
| 65° | 857.3 | 1031.2 | 1269.2 | 1479.2 | 1567.5 |
| 67.5° | 751.7 | 926.9 | 1179.6 | 1397.6 | 1481.9 |
| 70° | 639.3 | 829.2 | 1087.4 | 1312.0 | 1397.6 |
| 72.5° | 536.3 | 731.6 | 1001.8 | 1229.1 | 1321.4 |
| 75° | 429.3 | 638.0 | 912.1 | 1144.9 | 1231.8 |
| 77.5° | 334.4 | 547.0 | 831.9 | 1066.0 | 1152.9 |
| 80° | 242.1 | 464.1 | 751.7 | 987.0 | 1071.3 |
| 82.5° | 164.5 | 387.9 | 680.8 | 914.8 | 997.7 |
| 85° | 95.0 | 319.7 | 615.2 | 842.6 | 924.2 |
| 87.5° | 36.1 | 266.2 | 556.4 | 779.7 | 854.6 |
| 90° | 1.3 | 226.0 | 505.6 | 720.9 | 797.1 |
| 92.5° | 1.3 | 197.9 | 466.8 | 667.4 | 738.3 |
| 95° | 1.3 | 179.2 | 430.7 | 620.6 | 690.1 |
| 97.5° | 2.7 | 164.5 | 398.6 | 579.1 | 640.6 |
| 100° | 2.7 | 149.8 | 371.8 | 539.0 | 597.8 |
| 102.5° | 2.7 | 135.1 | 347.7 | 502.9 | 557.7 |
| 105° | 2.7 | 115.0 | 326.3 | 469.4 | 522.9 |
| 107.5° | 2.7 | 89.6 | 302.3 | 441.4 | 488.2 |
| 110° | 2.7 | 65.5 | 276.9 | 413.3 | 458.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.7 | 40.1 | 254.1 | 385.2 | 429.3 |
| 115° | 2.7 | 14.7 | 226.0 | 354.4 | 398.6 |
| 117.5° | 2.7 | 5.3 | 192.6 | 325.0 | 363.8 |
| 120° | 2.7 | 4.0 | 160.5 | 292.9 | 331.7 |
| 122.5° | 2.7 | 4.0 | 127.1 | 258.1 | 299.6 |
| 125° | 2.7 | 4.0 | 95.0 | 220.7 | 264.8 |
| 127.5° | 2.7 | 2.7 | 61.5 | 181.9 | 222.0 |
| 130° | 2.7 | 2.7 | 29.4 | 144.4 | 183.2 |
| 132.5° | 2.7 | 2.7 | 1.3 | 105.7 | 143.1 |
| 135° | 2.7 | 1.3 | 1.3 | 69.5 | 103.0 |
| 137.5° | 2.7 | 1.3 | 0.0 | 33.4 | 66.9 |
| 140° | 2.7 | 1.3 | 0.0 | 0.0 | 26.7 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)