

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: P290507

Luminaire Tested: **8SSRK-SLW-80-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290507
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-80-L850-CD1-U
Description: 8000 LUMEN, 8 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: 8153.4 lumens
Efficiency: N/A
Efficacy: 143.9 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

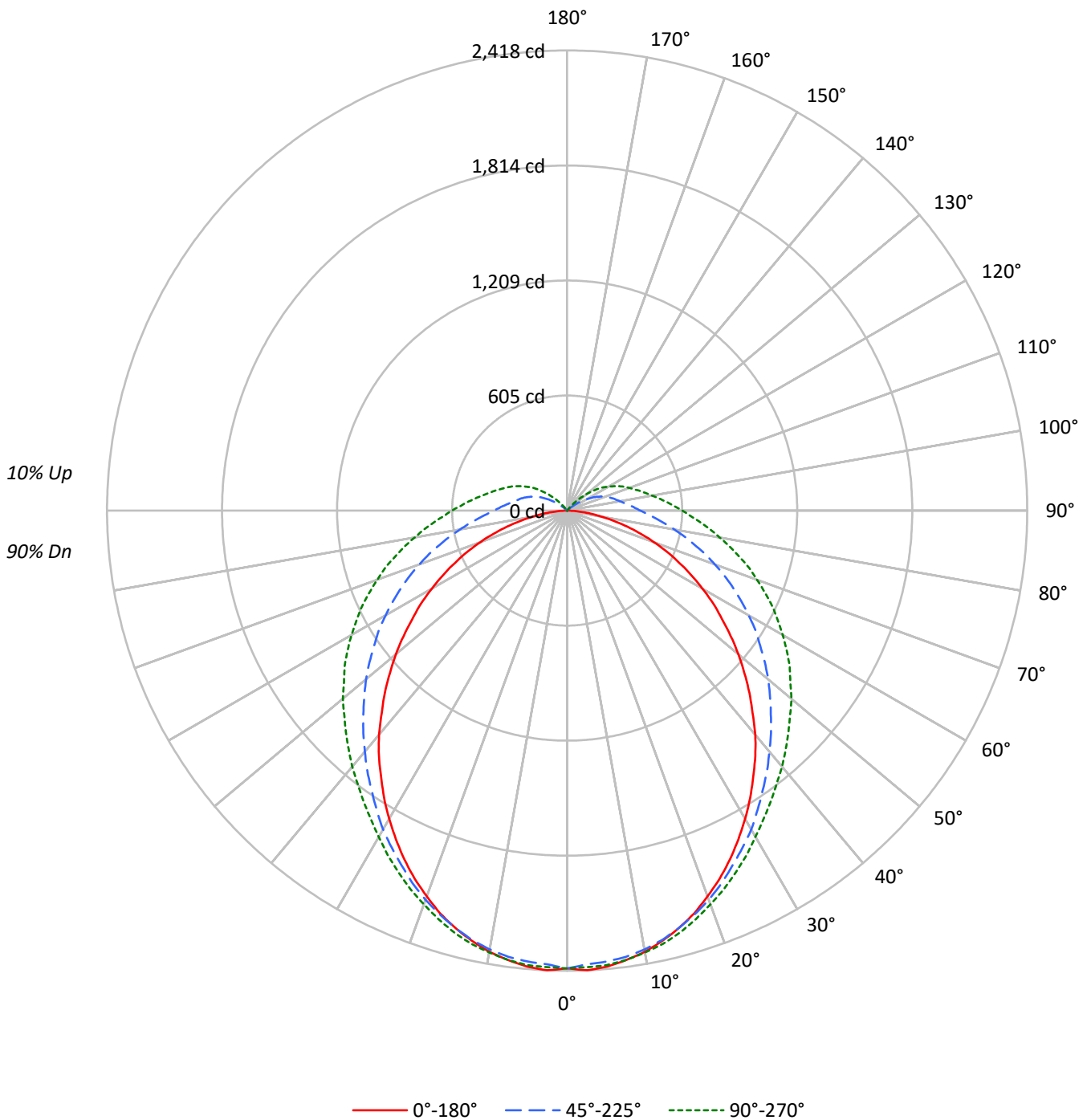
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290507

CATALOG NUMBER: 8SSRK-SLW-80-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290507

CATALOG NUMBER: 8SSRK-SLW-80-L850-CD1-U

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 | 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° | 77677 | 77677 | 77677 |
| 5° | 77832 | 61757 | 57566 |
| 10° | 76894 | 51142 | 45336 |
| 15° | 75483 | 43083 | 37031 |
| 20° | 73558 | 36748 | 30817 |
| 25° | 71410 | 31515 | 26074 |
| 30° | 68913 | 27320 | 22299 |
| 35° | 66242 | 23622 | 19346 |
| 40° | 63735 | 20582 | 16998 |
| 45° | 60598 | 17990 | 15015 |
| 50° | 57588 | 15785 | 13401 |
| 55° | 54295 | 13771 | 11974 |
| 60° | 51145 | 12010 | 10662 |
| 65° | 47607 | 10374 | 9494 |
| 70° | 43347 | 8845 | 8356 |
| 75° | 37739 | 7441 | 7325 |
| 80° | 30568 | 6197 | 6386 |
| 85° | 21576 | 5166 | 5565 |



TEST NUMBER: P290507

CATALOG NUMBER: 8SSRK-SLW-80-L850-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 227.3 | 2.8 |
| 10°-20° | 642.9 | 7.9 |
| 20°-30° | 951.1 | 11.7 |
| 30°-40° | 1123.3 | 13.8 |
| 40°-50° | 1167.7 | 14.3 |
| 50°-60° | 1101.0 | 13.5 |
| 60°-70° | 938.5 | 11.5 |
| 70°-80° | 709.7 | 8.7 |
| 80°-90° | 478.9 | 5.9 |
| 90°-100° | 328.8 | 4.0 |
| 100°-110° | 235.8 | 2.9 |
| 110°-120° | 151.3 | 1.9 |
| 120°-130° | 77.2 | 0.9 |
| 130°-140° | 19.6 | 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° | 1821.4 | 22.3 |
| 0°-40° | 2944.7 | 36.1 |
| 0°-60° | 5213.4 | 63.9 |
| 0°-90° | 7340.5 | 90.0 |
| 90°-120° | 715.9 | 8.8 |
| 90°-150° | 812.9 | 10.0 |
| 90°-180° | 813.0 | 10.0 |
| 0°-180° | 8153.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2406 | 2406 | 2406 | 2406 | 2406 | |
| 5° | 2406 | 2399 | 2379 | 2402 | 2397 | 228 |
| 15° | 2270 | 2278 | 2270 | 2293 | 2295 | 639 |
| 25° | 2024 | 2047 | 2057 | 2093 | 2097 | 931 |
| 35° | 1705 | 1746 | 1792 | 1846 | 1865 | 1068 |
| 45° | 1355 | 1422 | 1514 | 1607 | 1644 | 1045 |
| 55° | 993 | 1096 | 1238 | 1371 | 1428 | 891 |
| 65° | 651 | 783 | 964 | 1123 | 1190 | 646 |
| 75° | 326 | 484 | 692 | 869 | 935 | 348 |
| 85° | 72 | 243 | 467 | 640 | 702 | 82 |
| 90° | 1 | 172 | 384 | 547 | 605 | 4 |
| 95° | 1 | 136 | 327 | 471 | 524 | 1 |
| 105° | 2 | 87 | 248 | 356 | 397 | 2 |
| 115° | 2 | 11 | 172 | 269 | 303 | 2 |
| 125° | 2 | 3 | 72 | 168 | 201 | 2 |
| 135° | 2 | 1 | 1 | 53 | 78 | 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: P290507

CATALOG NUMBER: 8SSRK-SLW-80-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 |
| 2.5° | 2417.7 | 2409.6 | 2386.2 | 2406.5 | 2401.5 |
| 5° | 2405.5 | 2399.4 | 2379.1 | 2401.5 | 2397.4 |
| 7.5° | 2382.2 | 2381.2 | 2364.9 | 2388.3 | 2381.2 |
| 10° | 2353.7 | 2354.8 | 2341.6 | 2364.9 | 2357.8 |
| 12.5° | 2315.2 | 2319.2 | 2310.1 | 2332.4 | 2331.4 |
| 15° | 2270.5 | 2277.6 | 2270.5 | 2292.8 | 2294.9 |
| 17.5° | 2219.7 | 2230.9 | 2225.8 | 2253.2 | 2250.2 |
| 20° | 2156.8 | 2172.0 | 2176.0 | 2203.5 | 2202.4 |
| 22.5° | 2093.8 | 2113.1 | 2120.2 | 2148.6 | 2152.7 |
| 25° | 2023.7 | 2047.1 | 2057.2 | 2092.8 | 2096.8 |
| 27.5° | 1947.6 | 1978.0 | 1996.3 | 2031.9 | 2041.0 |
| 30° | 1870.4 | 1902.9 | 1935.4 | 1970.9 | 1979.1 |
| 32.5° | 1790.2 | 1825.7 | 1863.3 | 1912.0 | 1921.2 |
| 35° | 1704.9 | 1745.5 | 1792.2 | 1846.0 | 1865.3 |
| 37.5° | 1624.7 | 1670.4 | 1725.2 | 1788.2 | 1808.5 |
| 40° | 1538.4 | 1585.1 | 1653.1 | 1724.2 | 1756.7 |
| 42.5° | 1441.9 | 1504.9 | 1586.1 | 1671.4 | 1699.8 |
| 45° | 1354.6 | 1421.6 | 1514.0 | 1607.4 | 1644.0 |
| 47.5° | 1263.2 | 1341.4 | 1446.0 | 1549.5 | 1589.1 |
| 50° | 1174.8 | 1260.1 | 1378.9 | 1490.6 | 1538.4 |
| 52.5° | 1083.5 | 1179.9 | 1308.9 | 1432.8 | 1477.4 |
| 55° | 993.1 | 1095.6 | 1237.8 | 1370.8 | 1427.7 |
| 57.5° | 911.8 | 1016.4 | 1173.8 | 1309.9 | 1367.8 |
| 60° | 820.5 | 941.3 | 1101.7 | 1248.0 | 1308.9 |
| 62.5° | 736.2 | 859.0 | 1030.7 | 1186.0 | 1246.9 |
| 65° | 650.9 | 782.9 | 963.6 | 1123.1 | 1190.1 |
| 67.5° | 570.7 | 703.7 | 895.6 | 1061.1 | 1125.1 |
| 70° | 485.4 | 629.6 | 825.5 | 996.1 | 1061.1 |
| 72.5° | 407.2 | 555.4 | 760.6 | 933.2 | 1003.2 |
| 75° | 326.0 | 484.4 | 692.5 | 869.2 | 935.2 |
| 77.5° | 253.9 | 415.3 | 631.6 | 809.3 | 875.3 |
| 80° | 183.8 | 352.4 | 570.7 | 749.4 | 813.4 |
| 82.5° | 124.9 | 294.5 | 516.8 | 694.5 | 757.5 |
| 85° | 72.1 | 242.7 | 467.1 | 639.7 | 701.7 |
| 87.5° | 27.4 | 202.1 | 422.4 | 592.0 | 648.9 |
| 90° | 1.0 | 171.6 | 383.8 | 547.3 | 605.2 |
| 92.5° | 1.0 | 150.3 | 354.4 | 506.7 | 560.5 |
| 95° | 1.0 | 136.1 | 327.0 | 471.2 | 524.0 |
| 97.5° | 2.0 | 124.9 | 302.6 | 439.7 | 486.4 |
| 100° | 2.0 | 113.7 | 282.3 | 409.2 | 453.9 |
| 102.5° | 2.0 | 102.6 | 264.0 | 381.8 | 423.4 |
| 105° | 2.0 | 87.3 | 247.8 | 356.4 | 397.0 |
| 107.5° | 2.0 | 68.0 | 229.5 | 335.1 | 370.6 |
| 110° | 2.0 | 49.8 | 210.2 | 313.8 | 348.3 |



TEST NUMBER: P290507

CATALOG NUMBER: 8SSRK-SLW-80-L850-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.0 | 30.5 | 192.9 | 292.4 | 326.0 |
| 115° | 2.0 | 11.2 | 171.6 | 269.1 | 302.6 |
| 117.5° | 2.0 | 4.1 | 146.2 | 246.7 | 276.2 |
| 120° | 2.0 | 3.0 | 121.9 | 222.4 | 251.8 |
| 122.5° | 2.0 | 3.0 | 96.5 | 196.0 | 227.5 |
| 125° | 2.0 | 3.0 | 72.1 | 167.5 | 201.1 |
| 127.5° | 2.0 | 2.0 | 46.7 | 138.1 | 168.6 |
| 130° | 2.0 | 2.0 | 22.3 | 109.7 | 139.1 |
| 132.5° | 2.0 | 2.0 | 1.0 | 80.2 | 108.7 |
| 135° | 2.0 | 1.0 | 1.0 | 52.8 | 78.2 |
| 137.5° | 2.0 | 1.0 | 0.0 | 25.4 | 50.8 |
| 140° | 2.0 | 1.0 | 0.0 | 0.0 | 20.3 |
| 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)