

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: P290139

Luminaire Tested: **8SSRK-LN-50-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LN-50-L850-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5253.1 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

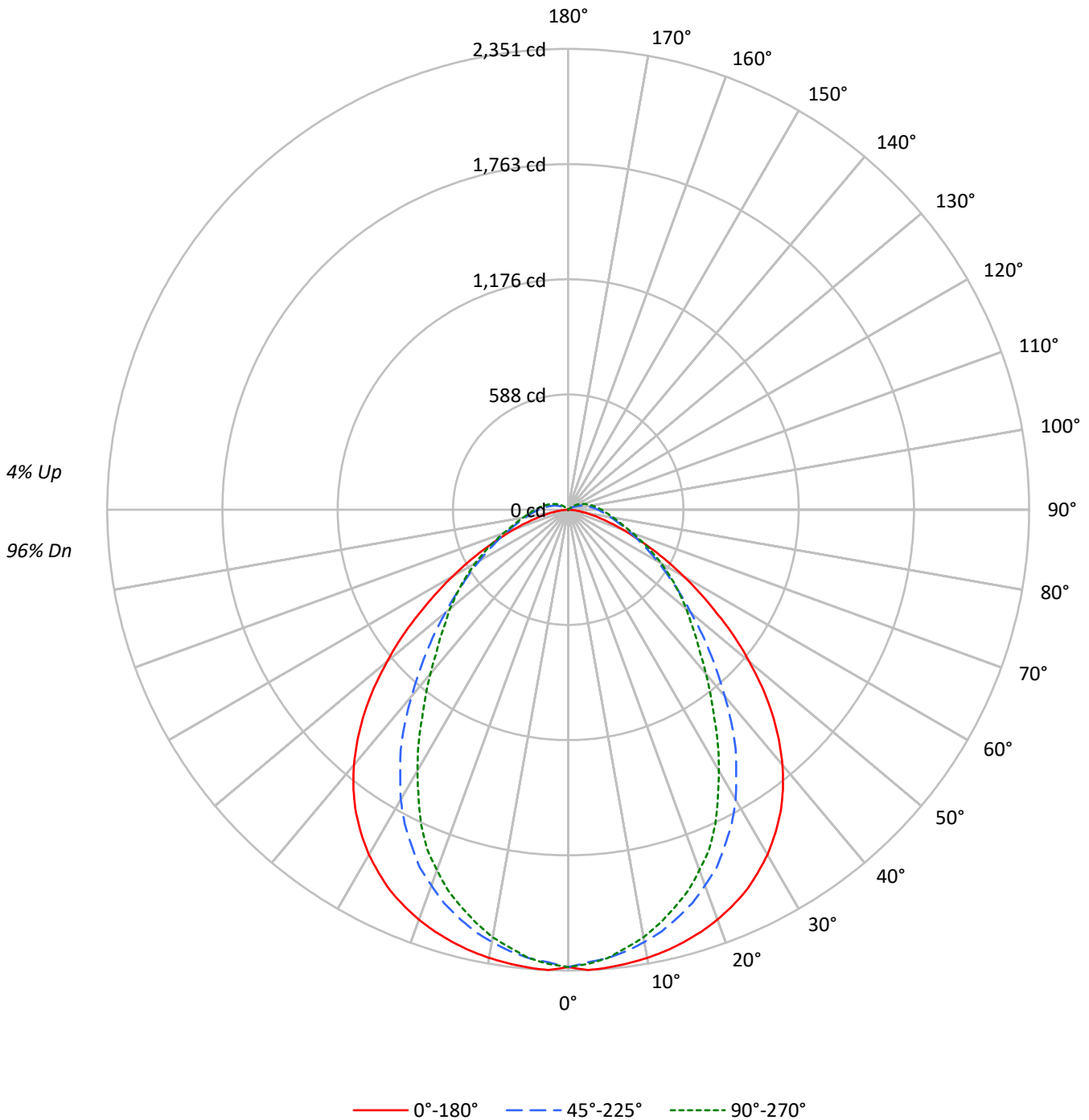
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290139

CATALOG NUMBER: 8SSRK-LN-50-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290139

CATALOG NUMBER: 8SSRK-LN-50-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 96 |
| 1 | 108 | 104 | 99 | 96 | 105 | 101 | 97 | 94 | 96 | 93 | 90 | 91 | 89 | 86 | 87 | 85 | 83 | 81 |
| 2 | 99 | 91 | 85 | 80 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 81 | 77 | 74 | 78 | 74 | 71 | 69 |
| 3 | 91 | 81 | 74 | 68 | 88 | 79 | 72 | 67 | 76 | 70 | 65 | 73 | 68 | 63 | 70 | 65 | 62 | 59 |
| 4 | 84 | 73 | 65 | 58 | 81 | 71 | 64 | 58 | 68 | 62 | 56 | 65 | 60 | 55 | 63 | 58 | 54 | 52 |
| 5 | 78 | 66 | 57 | 51 | 75 | 64 | 56 | 51 | 62 | 55 | 50 | 59 | 53 | 49 | 57 | 52 | 48 | 46 |
| 6 | 72 | 60 | 51 | 45 | 70 | 58 | 51 | 45 | 56 | 49 | 44 | 54 | 48 | 43 | 52 | 47 | 43 | 41 |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 46 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 48 | 43 | 38 | 36 |
| 8 | 63 | 50 | 42 | 36 | 61 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 44 | 39 | 35 | 33 |
| 9 | 59 | 46 | 38 | 33 | 57 | 45 | 38 | 33 | 44 | 37 | 32 | 43 | 36 | 32 | 41 | 36 | 32 | 30 |
| 10 | 55 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 38 | 33 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 75349 | 75349 | 75349 |
| 5° | 75862 | 59610 | 55141 |
| 10° | 75849 | 48912 | 42586 |
| 15° | 75892 | 40901 | 33884 |
| 20° | 75915 | 34451 | 27378 |
| 25° | 75712 | 28961 | 22056 |
| 30° | 74889 | 24104 | 17312 |
| 35° | 73333 | 19633 | 13475 |
| 40° | 70463 | 15461 | 10587 |
| 45° | 65832 | 12084 | 8413 |
| 50° | 59054 | 9343 | 6851 |
| 55° | 50899 | 7271 | 5565 |
| 60° | 42399 | 5705 | 4474 |
| 65° | 33798 | 4489 | 3534 |
| 70° | 26371 | 3555 | 2778 |
| 75° | 19738 | 2887 | 2211 |
| 80° | 14286 | 2381 | 1833 |
| 85° | 8888 | 2009 | 1563 |



TEST NUMBER: P290139

CATALOG NUMBER: 8SSRK-LN-50-L850-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 219.1 | 4.2 |
| 10°-20° | 613.5 | 11.7 |
| 20°-30° | 884.1 | 16.8 |
| 30°-40° | 957.7 | 18.2 |
| 40°-50° | 848.2 | 16.1 |
| 50°-60° | 645.4 | 12.3 |
| 60°-70° | 430.0 | 8.2 |
| 70°-80° | 265.7 | 5.1 |
| 80°-90° | 166.4 | 3.2 |
| 90°-100° | 109.4 | 2.1 |
| 100°-110° | 67.0 | 1.3 |
| 110°-120° | 34.6 | 0.7 |
| 120°-130° | 11.3 | 0.2 |
| 130°-140° | 0.7 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1716.6 | 32.7 |
| 0°-40° | 2674.3 | 50.9 |
| 0°-60° | 4168.0 | 79.3 |
| 0°-90° | 5030.1 | 95.8 |
| 90°-120° | 211.0 | 4.0 |
| 90°-150° | 223.0 | 4.2 |
| 90°-180° | 223.0 | 4.2 |
| 0°-180° | 5253.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2333 | 2333 | 2333 | 2333 | 2333 | |
| 5° | 2345 | 2330 | 2296 | 2305 | 2296 | 223 |
| 15° | 2283 | 2240 | 2156 | 2126 | 2100 | 645 |
| 25° | 2146 | 2045 | 1890 | 1810 | 1774 | 987 |
| 35° | 1887 | 1711 | 1490 | 1349 | 1299 | 1176 |
| 45° | 1472 | 1241 | 1017 | 940 | 921 | 1129 |
| 55° | 931 | 760 | 654 | 662 | 664 | 836 |
| 65° | 462 | 405 | 417 | 441 | 443 | 467 |
| 75° | 170 | 208 | 269 | 287 | 282 | 189 |
| 85° | 30 | 107 | 182 | 200 | 197 | 36 |
| 90° | 1 | 78 | 151 | 170 | 169 | 2 |
| 95° | 3 | 55 | 125 | 145 | 145 | 2 |
| 105° | 2 | 22 | 78 | 100 | 103 | 2 |
| 115° | 2 | 2 | 40 | 62 | 68 | 2 |
| 125° | 1 | 1 | 1 | 27 | 34 | 1 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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: P290139

CATALOG NUMBER: 8SSRK-LN-50-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2333.4 | 2333.4 | 2333.4 | 2333.4 | 2333.4 |
| 2.5° | 2350.7 | 2337.8 | 2311.2 | 2326.6 | 2319.2 |
| 5° | 2344.6 | 2329.7 | 2296.4 | 2305.0 | 2296.4 |
| 7.5° | 2334.7 | 2316.1 | 2271.7 | 2275.4 | 2255.0 |
| 10° | 2321.7 | 2297.0 | 2239.5 | 2233.3 | 2214.8 |
| 12.5° | 2305.0 | 2270.4 | 2203.1 | 2178.4 | 2160.4 |
| 15° | 2282.8 | 2239.5 | 2155.5 | 2126.5 | 2099.9 |
| 17.5° | 2257.4 | 2201.8 | 2104.2 | 2069.0 | 2037.5 |
| 20° | 2225.9 | 2156.1 | 2040.0 | 1991.2 | 1956.6 |
| 22.5° | 2187.6 | 2106.1 | 1976.3 | 1905.3 | 1877.5 |
| 25° | 2145.6 | 2044.9 | 1890.5 | 1809.5 | 1773.7 |
| 27.5° | 2090.6 | 1977.6 | 1805.8 | 1704.5 | 1653.2 |
| 30° | 2032.6 | 1897.9 | 1707.6 | 1590.8 | 1536.5 |
| 32.5° | 1962.8 | 1810.8 | 1593.9 | 1469.7 | 1421.6 |
| 35° | 1887.4 | 1710.7 | 1489.5 | 1349.3 | 1299.2 |
| 37.5° | 1798.4 | 1602.6 | 1365.3 | 1236.8 | 1193.0 |
| 40° | 1700.8 | 1485.2 | 1241.8 | 1128.7 | 1094.1 |
| 42.5° | 1589.6 | 1366.0 | 1125.6 | 1028.0 | 998.4 |
| 45° | 1471.6 | 1241.2 | 1016.9 | 939.7 | 921.1 |
| 47.5° | 1343.1 | 1116.4 | 915.0 | 860.0 | 846.4 |
| 50° | 1204.7 | 991.6 | 816.1 | 785.8 | 786.5 |
| 52.5° | 1073.1 | 873.6 | 732.1 | 724.1 | 722.2 |
| 55° | 931.0 | 759.9 | 653.6 | 661.7 | 663.5 |
| 57.5° | 802.5 | 654.3 | 586.9 | 601.7 | 603.6 |
| 60° | 680.2 | 559.7 | 523.3 | 546.1 | 549.2 |
| 62.5° | 568.4 | 478.8 | 468.9 | 492.4 | 491.8 |
| 65° | 462.1 | 405.3 | 417.0 | 441.1 | 443.0 |
| 67.5° | 371.9 | 345.4 | 373.8 | 394.8 | 393.5 |
| 70° | 295.3 | 291.6 | 331.8 | 354.0 | 352.8 |
| 72.5° | 229.8 | 246.5 | 299.0 | 318.2 | 313.2 |
| 75° | 170.5 | 207.6 | 268.7 | 286.7 | 282.3 |
| 77.5° | 125.4 | 175.5 | 242.2 | 259.5 | 256.4 |
| 80° | 85.9 | 148.9 | 219.3 | 237.2 | 233.5 |
| 82.5° | 55.0 | 126.6 | 199.5 | 216.8 | 214.4 |
| 85° | 29.7 | 106.9 | 181.6 | 200.2 | 197.1 |
| 87.5° | 11.1 | 90.8 | 165.6 | 184.1 | 182.9 |
| 90° | 1.2 | 77.8 | 151.4 | 170.5 | 169.3 |
| 92.5° | 1.9 | 66.1 | 137.8 | 157.5 | 157.5 |
| 95° | 3.1 | 55.0 | 125.4 | 145.2 | 144.6 |
| 97.5° | 2.5 | 46.3 | 111.8 | 133.4 | 133.4 |
| 100° | 2.5 | 38.3 | 99.5 | 121.1 | 122.3 |
| 102.5° | 2.5 | 30.3 | 89.0 | 110.0 | 112.4 |
| 105° | 1.9 | 21.6 | 78.5 | 100.1 | 102.6 |
| 107.5° | 1.9 | 12.4 | 68.0 | 90.8 | 93.9 |
| 110° | 1.9 | 3.1 | 58.7 | 80.9 | 84.6 |



TEST NUMBER: P290139

CATALOG NUMBER: 8SSRK-LN-50-L850-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 1.9 | 1.9 | 49.4 | 71.7 | 75.4 |
| 115° | 1.9 | 1.9 | 40.2 | 62.4 | 68.0 |
| 117.5° | 1.2 | 1.2 | 29.7 | 54.4 | 59.3 |
| 120° | 1.2 | 1.2 | 18.5 | 45.7 | 50.7 |
| 122.5° | 1.2 | 1.2 | 8.0 | 36.5 | 43.2 |
| 125° | 1.2 | 1.2 | 1.2 | 27.2 | 34.0 |
| 127.5° | 1.2 | 1.2 | 0.6 | 16.1 | 24.1 |
| 130° | 1.2 | 1.2 | 0.6 | 6.2 | 14.8 |
| 132.5° | 1.2 | 1.2 | 0.6 | 0.6 | 4.3 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)