

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: P289808

Luminaire Tested: **8SSRK-TS-10-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-TS-10-L830-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9225.9 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

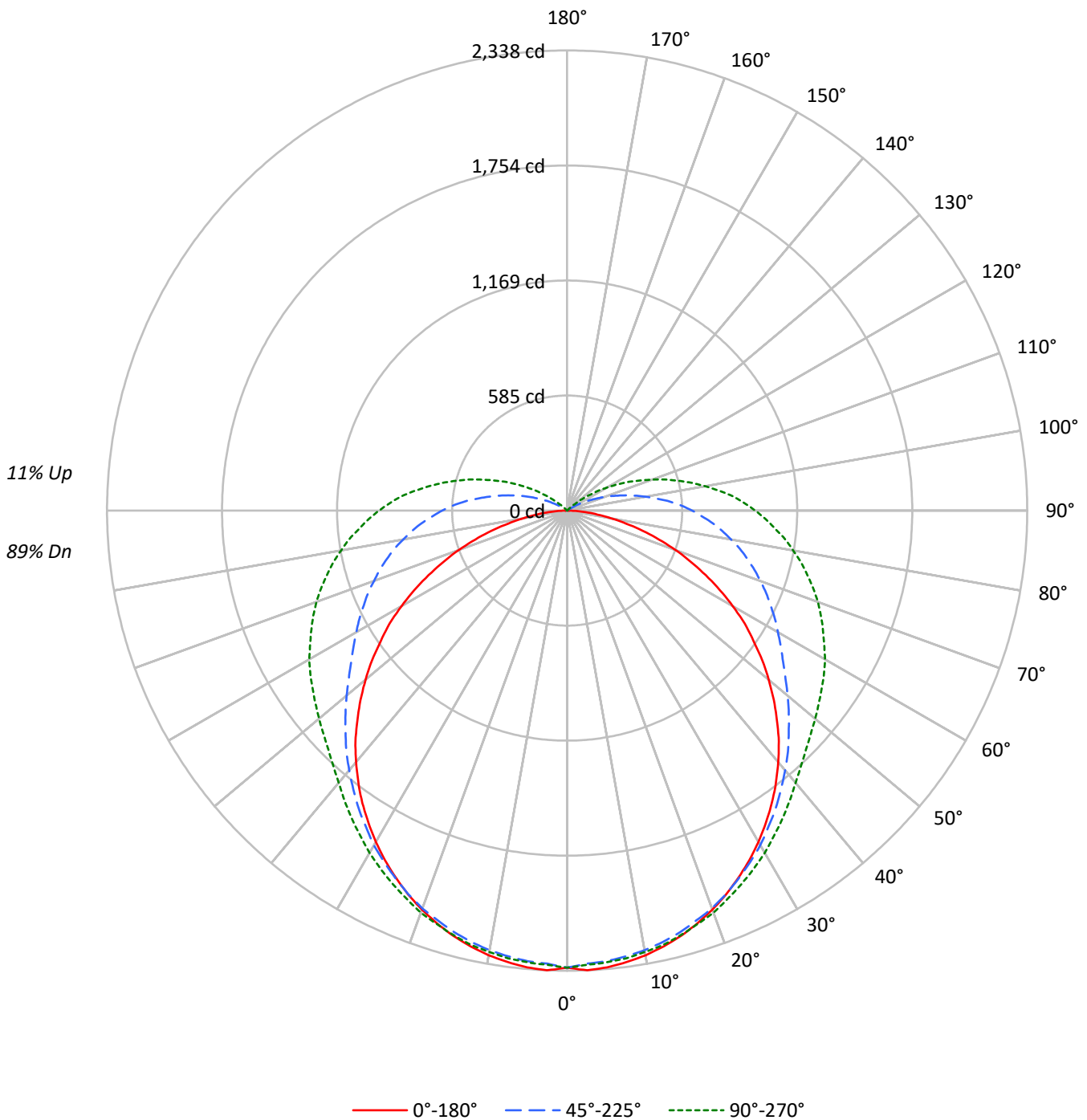
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 | | | | |
| 1 | 103 | 97 | 91 | 87 | 99 | 94 | 89 | 84 | 87 | 83 | 79 | 81 | 78 | 75 | 76 | 73 | 71 | 68 | | | | |
| 2 | 93 | 83 | 75 | 68 | 89 | 80 | 73 | 67 | 75 | 68 | 63 | 70 | 65 | 60 | 65 | 61 | 57 | 54 | | | | |
| 3 | 84 | 72 | 63 | 56 | 80 | 69 | 61 | 54 | 65 | 58 | 52 | 61 | 55 | 50 | 57 | 52 | 47 | 45 | | | | |
| 4 | 76 | 63 | 54 | 46 | 73 | 61 | 52 | 45 | 57 | 50 | 44 | 53 | 47 | 42 | 50 | 45 | 40 | 37 | | | | |
| 5 | 70 | 56 | 47 | 39 | 67 | 54 | 45 | 39 | 51 | 43 | 37 | 48 | 41 | 36 | 45 | 39 | 34 | 32 | | | | |
| 6 | 65 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 46 | 38 | 32 | 43 | 36 | 31 | 41 | 35 | 30 | 28 | | | | |
| 7 | 60 | 46 | 36 | 30 | 57 | 44 | 36 | 29 | 42 | 34 | 28 | 39 | 33 | 28 | 37 | 31 | 27 | 24 | | | | |
| 8 | 56 | 41 | 33 | 27 | 53 | 40 | 32 | 26 | 38 | 31 | 25 | 36 | 29 | 25 | 34 | 28 | 24 | 22 | | | | |
| 9 | 52 | 38 | 29 | 24 | 50 | 37 | 29 | 23 | 35 | 28 | 23 | 33 | 27 | 22 | 31 | 26 | 21 | 19 | | | | |
| 10 | 49 | 35 | 27 | 21 | 47 | 34 | 26 | 21 | 32 | 25 | 21 | 31 | 24 | 20 | 29 | 23 | 19 | 17 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 74987 | 74987 | 74987 |
| 5° | 75370 | 59654 | 55326 |
| 10° | 74960 | 49534 | 43794 |
| 15° | 74359 | 42075 | 36034 |
| 20° | 73572 | 36329 | 30421 |
| 25° | 72635 | 31589 | 26047 |
| 30° | 71624 | 27714 | 22622 |
| 35° | 70477 | 24353 | 19800 |
| 40° | 69112 | 21445 | 17471 |
| 45° | 67460 | 18921 | 15677 |
| 50° | 65539 | 16739 | 14332 |
| 55° | 63217 | 14901 | 13243 |
| 60° | 60588 | 13485 | 12323 |
| 65° | 56823 | 12280 | 11444 |
| 70° | 52385 | 11190 | 10670 |
| 75° | 46155 | 10186 | 9897 |
| 80° | 38268 | 9195 | 9154 |
| 85° | 28099 | 8220 | 8415 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 219.7 | 2.4 |
| 10°-20° | 629.5 | 6.8 |
| 20°-30° | 955.8 | 10.4 |
| 30°-40° | 1161.9 | 12.6 |
| 40°-50° | 1240.0 | 13.4 |
| 50°-60° | 1216.1 | 13.2 |
| 60°-70° | 1111.1 | 12.0 |
| 70°-80° | 942.9 | 10.2 |
| 80°-90° | 733.8 | 8.0 |
| 90°-100° | 517.3 | 5.6 |
| 100°-110° | 307.6 | 3.3 |
| 110°-120° | 145.6 | 1.6 |
| 120°-130° | 42.2 | 0.5 |
| 130°-140° | 2.4 | 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° | 1805.0 | 19.6 |
| 0°-40° | 2966.9 | 32.2 |
| 0°-60° | 5423.0 | 58.8 |
| 0°-90° | 8210.8 | 89.0 |
| 90°-120° | 970.5 | 10.5 |
| 90°-150° | 1015.1 | 11.0 |
| 90°-180° | 1015.0 | 11.0 |
| 0°-180° | 9225.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2322 | 2322 | 2322 | 2322 | 2322 | |
| 5° | 2329 | 2321 | 2298 | 2311 | 2304 | 221 |
| 15° | 2237 | 2232 | 2217 | 2237 | 2233 | 631 |
| 25° | 2058 | 2060 | 2062 | 2095 | 2095 | 949 |
| 35° | 1814 | 1824 | 1848 | 1893 | 1909 | 1134 |
| 45° | 1508 | 1533 | 1592 | 1677 | 1716 | 1163 |
| 55° | 1156 | 1206 | 1339 | 1514 | 1579 | 1035 |
| 65° | 777 | 877 | 1141 | 1359 | 1434 | 770 |
| 75° | 399 | 605 | 948 | 1183 | 1264 | 423 |
| 85° | 94 | 385 | 743 | 979 | 1061 | 105 |
| 90° | 7 | 286 | 635 | 873 | 955 | 9 |
| 95° | 7 | 192 | 524 | 756 | 844 | 6 |
| 105° | 6 | 52 | 299 | 507 | 584 | 6 |
| 115° | 5 | 5 | 122 | 278 | 344 | 5 |
| 125° | 4 | 2 | 6 | 93 | 136 | 3 |
| 135° | 0 | 0 | 0 | 0 | 0 | 1 |
| 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: P289808

CATALOG NUMBER: 8SSRK-TS-10-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2322.2 | 2322.2 | 2322.2 | 2322.2 | 2322.2 |
| 2.5° | 2337.9 | 2329.4 | 2304.1 | 2317.4 | 2310.2 |
| 5° | 2329.4 | 2321.0 | 2298.1 | 2311.4 | 2304.1 |
| 7.5° | 2313.8 | 2307.7 | 2284.9 | 2299.3 | 2294.5 |
| 10° | 2294.5 | 2288.5 | 2268.0 | 2284.9 | 2277.6 |
| 12.5° | 2268.0 | 2262.0 | 2245.1 | 2262.0 | 2259.6 |
| 15° | 2236.7 | 2231.9 | 2217.4 | 2236.7 | 2233.1 |
| 17.5° | 2199.3 | 2195.7 | 2183.7 | 2207.8 | 2203.0 |
| 20° | 2157.2 | 2154.8 | 2151.2 | 2172.8 | 2174.1 |
| 22.5° | 2111.4 | 2111.4 | 2109.0 | 2133.1 | 2134.3 |
| 25° | 2058.4 | 2059.6 | 2062.0 | 2094.6 | 2094.6 |
| 27.5° | 2004.2 | 2007.8 | 2013.9 | 2045.2 | 2052.4 |
| 30° | 1944.0 | 1950.0 | 1963.3 | 1997.0 | 2007.8 |
| 32.5° | 1880.2 | 1889.8 | 1904.3 | 1946.4 | 1957.3 |
| 35° | 1813.9 | 1823.6 | 1847.6 | 1893.4 | 1909.1 |
| 37.5° | 1742.9 | 1753.7 | 1785.0 | 1836.8 | 1857.3 |
| 40° | 1668.2 | 1680.2 | 1722.4 | 1787.4 | 1805.5 |
| 42.5° | 1592.3 | 1609.2 | 1661.0 | 1730.8 | 1758.5 |
| 45° | 1508.0 | 1533.3 | 1592.3 | 1676.6 | 1716.4 |
| 47.5° | 1423.7 | 1453.8 | 1527.3 | 1630.8 | 1679.0 |
| 50° | 1337.0 | 1370.7 | 1462.2 | 1589.9 | 1645.3 |
| 52.5° | 1250.2 | 1287.6 | 1398.4 | 1551.3 | 1611.6 |
| 55° | 1156.3 | 1205.7 | 1339.4 | 1514.0 | 1579.0 |
| 57.5° | 1069.6 | 1122.6 | 1286.4 | 1476.7 | 1547.7 |
| 60° | 972.0 | 1039.5 | 1237.0 | 1438.1 | 1512.8 |
| 62.5° | 875.6 | 956.3 | 1190.0 | 1398.4 | 1471.9 |
| 65° | 776.9 | 876.8 | 1140.6 | 1358.6 | 1434.5 |
| 67.5° | 679.3 | 796.1 | 1094.9 | 1317.7 | 1396.0 |
| 70° | 586.6 | 726.3 | 1044.3 | 1275.5 | 1355.0 |
| 72.5° | 489.0 | 664.9 | 997.3 | 1231.0 | 1310.5 |
| 75° | 398.7 | 604.6 | 947.9 | 1182.8 | 1263.5 |
| 77.5° | 307.1 | 548.0 | 899.7 | 1134.6 | 1217.7 |
| 80° | 230.1 | 495.0 | 846.7 | 1084.0 | 1165.9 |
| 82.5° | 156.6 | 442.0 | 794.9 | 1032.2 | 1117.7 |
| 85° | 93.9 | 385.4 | 743.2 | 979.2 | 1061.1 |
| 87.5° | 42.2 | 336.0 | 686.5 | 925.0 | 1010.5 |
| 90° | 7.2 | 285.5 | 634.8 | 873.2 | 955.1 |
| 92.5° | 8.4 | 239.7 | 581.8 | 817.8 | 899.7 |
| 95° | 7.2 | 191.5 | 523.9 | 756.4 | 844.3 |
| 97.5° | 7.2 | 150.6 | 462.5 | 696.2 | 776.9 |
| 100° | 6.0 | 112.0 | 403.5 | 632.3 | 711.8 |
| 102.5° | 6.0 | 79.5 | 350.5 | 569.7 | 649.2 |
| 105° | 6.0 | 51.8 | 298.7 | 507.1 | 584.2 |
| 107.5° | 6.0 | 28.9 | 248.1 | 446.9 | 525.1 |
| 110° | 6.0 | 10.8 | 202.3 | 392.7 | 457.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 4.8 | 4.8 | 157.8 | 332.4 | 399.9 |
| 115° | 4.8 | 4.8 | 121.7 | 278.2 | 344.5 |
| 117.5° | 4.8 | 3.6 | 83.1 | 227.6 | 287.9 |
| 120° | 4.8 | 3.6 | 51.8 | 181.9 | 233.7 |
| 122.5° | 3.6 | 2.4 | 25.3 | 134.9 | 186.7 |
| 125° | 3.6 | 2.4 | 6.0 | 92.7 | 136.1 |
| 127.5° | 3.6 | 1.2 | 0.0 | 55.4 | 93.9 |
| 130° | 2.4 | 1.2 | 0.0 | 26.5 | 55.4 |
| 132.5° | 2.4 | 1.2 | 0.0 | 4.8 | 24.1 |
| 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)