

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: P#

Luminaire Tested: **8RSRK-TS-100-HE-L850**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RSRK-TS-100-HE-L850
Description: 8ft RSRK, 1000 LUMEN PER FOOT 80CRI 5000K CCT WITH TRILOBE SMOOTH LENS
Light Source: -
Ballast/Driver: -

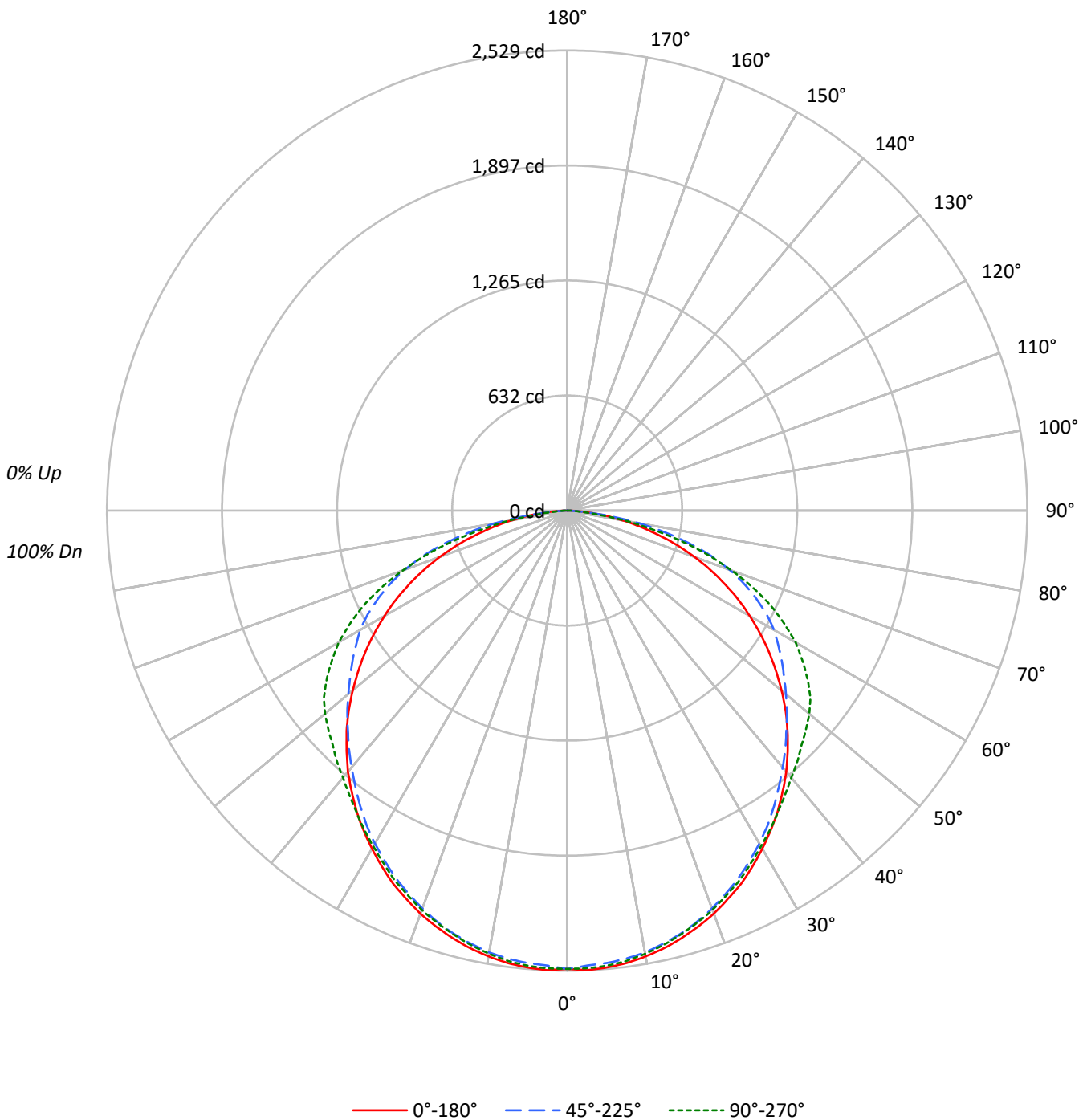
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7755.9 lumens
Efficiency: N/A
Efficacy: 269.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P#
CATALOG NUMBER: 8RSRK-TS-100-HE-L850

Luminous Intensity Polar Plot





TEST NUMBER: P#

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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 83 | | | | 83 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 72 | 77 | 73 | 70 | 68 | | | | 68 |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 59 | 56 | | | | 56 |
| 4 | 81 | 69 | 59 | 52 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | 62 | 56 | 51 | 60 | 54 | 50 | 48 | | | | 48 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 41 | | | | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 38 | 36 | | | | 36 |
| 7 | 63 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 | | | | 31 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 28 | | | | 28 |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 37 | 31 | 27 | 25 | | | | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 25 | 36 | 29 | 24 | 35 | 29 | 24 | 22 | | | | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3390 | 3390 | 3390 |
| 5° | 3404 | 3371 | 3391 |
| 10° | 3399 | 3369 | 3379 |
| 15° | 3388 | 3354 | 3360 |
| 20° | 3376 | 3333 | 3344 |
| 25° | 3359 | 3308 | 3328 |
| 30° | 3333 | 3283 | 3310 |
| 35° | 3314 | 3256 | 3319 |
| 40° | 3291 | 3236 | 3365 |
| 45° | 3260 | 3242 | 3467 |
| 50° | 3220 | 3285 | 3638 |
| 55° | 3178 | 3379 | 3784 |
| 60° | 3123 | 3532 | 3901 |
| 65° | 3046 | 3651 | 3932 |
| 70° | 2929 | 3731 | 3779 |
| 75° | 2699 | 3609 | 3376 |
| 80° | 2390 | 3106 | 2590 |
| 85° | 1720 | 1573 | 1028 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 238.6 | 3.1 |
| 10°-20° | 682.7 | 8.8 |
| 20°-30° | 1033.8 | 13.3 |
| 30°-40° | 1253.8 | 16.2 |
| 40°-50° | 1341.3 | 17.3 |
| 50°-60° | 1300.1 | 16.8 |
| 60°-70° | 1088.8 | 14.0 |
| 70°-80° | 669.1 | 8.6 |
| 80°-90° | 147.8 | 1.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 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° | 1955.1 | 25.2 |
| 0°-40° | 3208.9 | 41.4 |
| 0°-60° | 5850.3 | 75.4 |
| 0°-90° | 7755.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7755.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2519 | 2519 | 2519 | 2519 | 2519 | |
| 5° | 2521 | 2515 | 2496 | 2512 | 2511 | 240 |
| 15° | 2432 | 2427 | 2408 | 2419 | 2412 | 687 |
| 25° | 2262 | 2249 | 2228 | 2243 | 2242 | 1042 |
| 35° | 2018 | 1992 | 1982 | 2016 | 2020 | 1262 |
| 45° | 1713 | 1677 | 1704 | 1791 | 1822 | 1321 |
| 55° | 1355 | 1318 | 1440 | 1583 | 1613 | 1209 |
| 65° | 957 | 951 | 1147 | 1224 | 1235 | 946 |
| 75° | 519 | 606 | 694 | 664 | 650 | 552 |
| 85° | 111 | 150 | 102 | 71 | 67 | 140 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-TS-100-HE-L850

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2519.2 | 2519.2 | 2519.2 | 2519.2 | 2519.2 |
| 2.5° | 2528.7 | 2521.9 | 2502.9 | 2519.2 | 2517.8 |
| 5° | 2520.6 | 2515.1 | 2496.1 | 2512.4 | 2511.0 |
| 7.5° | 2508.3 | 2502.9 | 2483.9 | 2500.2 | 2496.1 |
| 10° | 2487.9 | 2483.9 | 2466.2 | 2478.4 | 2473.0 |
| 12.5° | 2463.5 | 2459.4 | 2439.0 | 2452.6 | 2445.8 |
| 15° | 2432.2 | 2426.8 | 2407.8 | 2418.6 | 2411.8 |
| 17.5° | 2396.9 | 2390.1 | 2371.1 | 2382.0 | 2375.2 |
| 20° | 2357.5 | 2348.0 | 2327.6 | 2342.5 | 2335.8 |
| 22.5° | 2309.9 | 2303.1 | 2278.7 | 2295.0 | 2288.2 |
| 25° | 2262.4 | 2248.8 | 2228.4 | 2243.4 | 2242.0 |
| 27.5° | 2205.3 | 2191.7 | 2171.3 | 2189.0 | 2186.3 |
| 30° | 2145.5 | 2130.6 | 2112.9 | 2130.6 | 2130.6 |
| 32.5° | 2083.0 | 2064.0 | 2050.4 | 2070.8 | 2077.6 |
| 35° | 2017.8 | 1992.0 | 1982.5 | 2016.4 | 2020.5 |
| 37.5° | 1945.8 | 1920.0 | 1911.8 | 1956.7 | 1967.5 |
| 40° | 1873.8 | 1841.2 | 1842.5 | 1899.6 | 1915.9 |
| 42.5° | 1793.6 | 1761.0 | 1775.9 | 1842.5 | 1872.4 |
| 45° | 1713.4 | 1676.7 | 1703.9 | 1790.9 | 1822.1 |
| 47.5° | 1629.2 | 1593.9 | 1638.7 | 1740.6 | 1780.0 |
| 50° | 1538.1 | 1502.8 | 1569.4 | 1693.0 | 1737.9 |
| 52.5° | 1445.7 | 1409.1 | 1502.8 | 1644.1 | 1684.9 |
| 55° | 1354.7 | 1318.0 | 1440.3 | 1583.0 | 1612.9 |
| 57.5° | 1256.9 | 1225.6 | 1375.1 | 1502.8 | 1532.7 |
| 60° | 1160.4 | 1133.2 | 1312.6 | 1421.3 | 1449.8 |
| 62.5° | 1061.2 | 1040.8 | 1236.5 | 1327.5 | 1343.8 |
| 65° | 956.6 | 951.2 | 1146.8 | 1224.3 | 1235.1 |
| 67.5° | 852.0 | 865.5 | 1054.4 | 1104.7 | 1106.1 |
| 70° | 744.6 | 781.3 | 948.4 | 970.2 | 960.7 |
| 72.5° | 635.9 | 699.8 | 831.6 | 820.7 | 812.6 |
| 75° | 519.1 | 606.0 | 694.3 | 664.4 | 649.5 |
| 77.5° | 413.1 | 510.9 | 547.6 | 505.5 | 482.4 |
| 80° | 308.4 | 403.6 | 400.8 | 346.5 | 334.3 |
| 82.5° | 207.9 | 281.3 | 240.5 | 195.7 | 171.2 |
| 85° | 111.4 | 149.5 | 101.9 | 70.7 | 66.6 |
| 87.5° | 42.1 | 35.3 | 27.2 | 24.5 | 24.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)