

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: **6RSRK-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 (G3-1811-041-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 6RSRK-100-HE-L850  
Description: 6ft RSRK, 1000 LUMEN PER FOOT 80CRI 5000K CCT WITH NO LENS  
Light Source: -  
Ballast/Driver: -

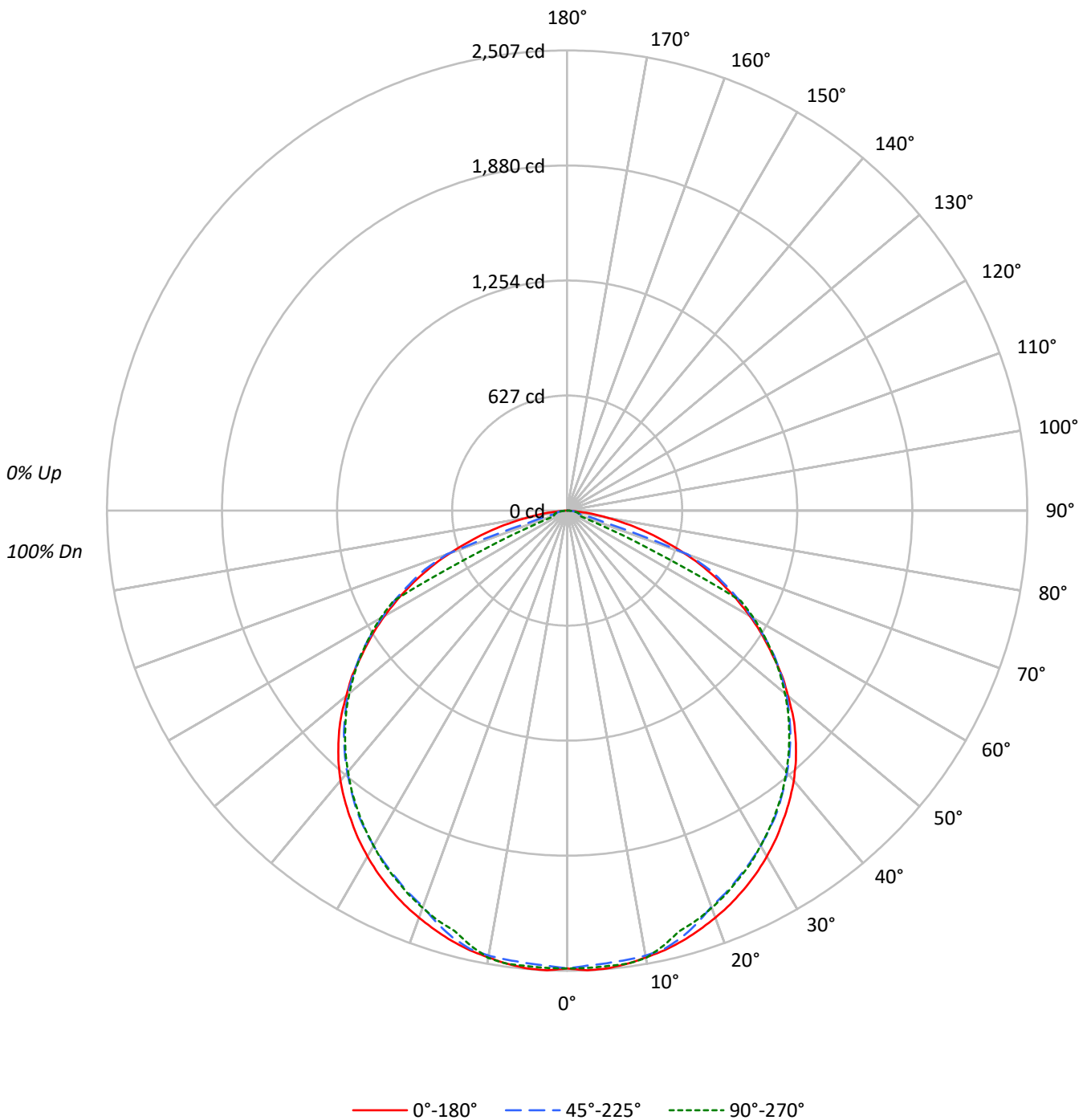
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6866.8 lumens  
Efficiency: N/A  
Efficacy: 238.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.26 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 6' 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

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### 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 110 | 105 | 102 | 98  | 107 | 103 | 100 | 96  | 99  | 96  | 93  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 74  | 72  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  | 61  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 68  | 62  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 52  |
| 5   | 77  | 65  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 58  | 52  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |
| 8   | 61  | 48  | 39  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 43  | 37  | 33  | 31  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |
| 10  | 54  | 41  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4475 | 4475 | 4475 |
| 5°  | 4509 | 4457 | 4486 |
| 10° | 4503 | 4486 | 4509 |
| 15° | 4508 | 4473 | 4402 |
| 20° | 4506 | 4385 | 4397 |
| 25° | 4509 | 4370 | 4382 |
| 30° | 4507 | 4369 | 4369 |
| 35° | 4500 | 4374 | 4360 |
| 40° | 4499 | 4364 | 4349 |
| 45° | 4469 | 4364 | 4340 |
| 50° | 4383 | 4356 | 4321 |
| 55° | 4264 | 4304 | 4284 |
| 60° | 4126 | 4172 | 4217 |
| 65° | 3908 | 4016 | 2123 |
| 70° | 3576 | 3660 | 401  |
| 75° | 3069 | 442  | 486  |
| 80° | 2304 | 559  | 559  |
| 85° | 1179 | 589  | 525  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 237.0  | 3.5       |
| 10°-20°   | 678.9  | 9.9       |
| 20°-30°   | 1032.0 | 15.0      |
| 30°-40°   | 1257.1 | 18.3      |
| 40°-50°   | 1330.2 | 19.4      |
| 50°-60°   | 1220.1 | 17.8      |
| 60°-70°   | 823.0  | 12.0      |
| 70°-80°   | 248.7  | 3.6       |
| 80°-90°   | 39.8   | 0.6       |
| 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°    | 1947.8 | 28.4      |
| 0°-40°    | 3204.9 | 46.7      |
| 0°-60°    | 5755.3 | 83.8      |
| 0°-90°    | 6866.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6866.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2494 | 2494  | 2494 | 2494  | 2494 |      |
| 5°  | 2504 | 2485  | 2475 | 2498  | 2491 | 238  |
| 15° | 2427 | 2415  | 2408 | 2389  | 2370 | 685  |
| 25° | 2278 | 2274  | 2208 | 2230  | 2214 | 1050 |
| 35° | 2055 | 2010  | 1997 | 2004  | 1991 | 1287 |
| 45° | 1762 | 1720  | 1720 | 1723  | 1711 | 1356 |
| 55° | 1363 | 1344  | 1376 | 1376  | 1370 | 1220 |
| 65° | 921  | 908   | 946  | 959   | 500  | 909  |
| 75° | 443  | 446   | 64   | 70    | 70   | 469  |
| 85° | 57   | 29    | 29   | 26    | 26   | 87   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: 6RSRK-100-HE-L850

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2494.4 | 2494.4 | 2494.4 | 2494.4 | 2494.4 |
| 2.5°  | 2507.1 | 2487.9 | 2481.6 | 2497.5 | 2494.4 |
| 5°    | 2503.9 | 2484.8 | 2475.2 | 2497.5 | 2491.1 |
| 7.5°  | 2491.1 | 2472.0 | 2468.9 | 2494.4 | 2491.1 |
| 10°   | 2472.0 | 2459.3 | 2462.4 | 2484.8 | 2475.2 |
| 12.5° | 2452.9 | 2440.2 | 2446.5 | 2440.2 | 2427.4 |
| 15°   | 2427.4 | 2414.7 | 2408.3 | 2389.2 | 2370.1 |
| 17.5° | 2395.6 | 2389.2 | 2357.3 | 2351.0 | 2341.4 |
| 20°   | 2360.5 | 2360.5 | 2296.8 | 2316.0 | 2303.2 |
| 22.5° | 2322.3 | 2322.3 | 2255.4 | 2274.5 | 2261.8 |
| 25°   | 2277.7 | 2274.5 | 2207.6 | 2229.9 | 2214.0 |
| 27.5° | 2229.9 | 2214.0 | 2159.8 | 2178.9 | 2166.2 |
| 30°   | 2175.8 | 2147.1 | 2108.9 | 2121.6 | 2108.9 |
| 32.5° | 2118.4 | 2077.0 | 2054.7 | 2064.3 | 2051.5 |
| 35°   | 2054.7 | 2010.1 | 1997.4 | 2003.7 | 1991.0 |
| 37.5° | 1991.0 | 1943.2 | 1930.5 | 1940.0 | 1927.2 |
| 40°   | 1920.9 | 1876.3 | 1863.5 | 1870.0 | 1857.2 |
| 42.5° | 1844.5 | 1806.3 | 1793.5 | 1796.7 | 1787.1 |
| 45°   | 1761.6 | 1720.2 | 1720.2 | 1723.4 | 1710.6 |
| 47.5° | 1672.4 | 1637.4 | 1640.6 | 1643.8 | 1634.2 |
| 50°   | 1570.5 | 1545.0 | 1560.9 | 1564.2 | 1548.2 |
| 52.5° | 1475.0 | 1449.5 | 1468.5 | 1475.0 | 1462.2 |
| 55°   | 1363.4 | 1344.3 | 1376.2 | 1376.2 | 1369.8 |
| 57.5° | 1258.3 | 1239.2 | 1271.1 | 1283.8 | 1274.2 |
| 60°   | 1150.0 | 1130.9 | 1162.7 | 1185.0 | 1175.4 |
| 62.5° | 1035.3 | 1019.4 | 1057.6 | 1086.2 | 1067.2 |
| 65°   | 920.6  | 907.9  | 946.1  | 958.8  | 500.1  |
| 67.5° | 802.8  | 793.2  | 837.8  | 302.7  | 79.6   |
| 70°   | 681.7  | 672.2  | 697.7  | 76.5   | 76.5   |
| 72.5° | 557.5  | 560.7  | 223.0  | 73.3   | 73.3   |
| 75°   | 442.8  | 446.0  | 63.7   | 70.1   | 70.1   |
| 77.5° | 328.2  | 334.4  | 60.6   | 63.7   | 63.7   |
| 80°   | 223.0  | 162.5  | 54.1   | 54.1   | 54.1   |
| 82.5° | 133.8  | 38.2   | 41.4   | 41.4   | 38.2   |
| 85°   | 57.3   | 28.6   | 28.6   | 25.5   | 25.5   |
| 87.5° | 19.1   | 12.7   | 12.7   | 9.6    | 9.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)