

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-L830**

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-L830
Description: 6ft RSRK, 1000 LUMEN PER FOOT 80CRI 3000K CCT WITH NO LENS
Light Source: -
Ballast/Driver: -

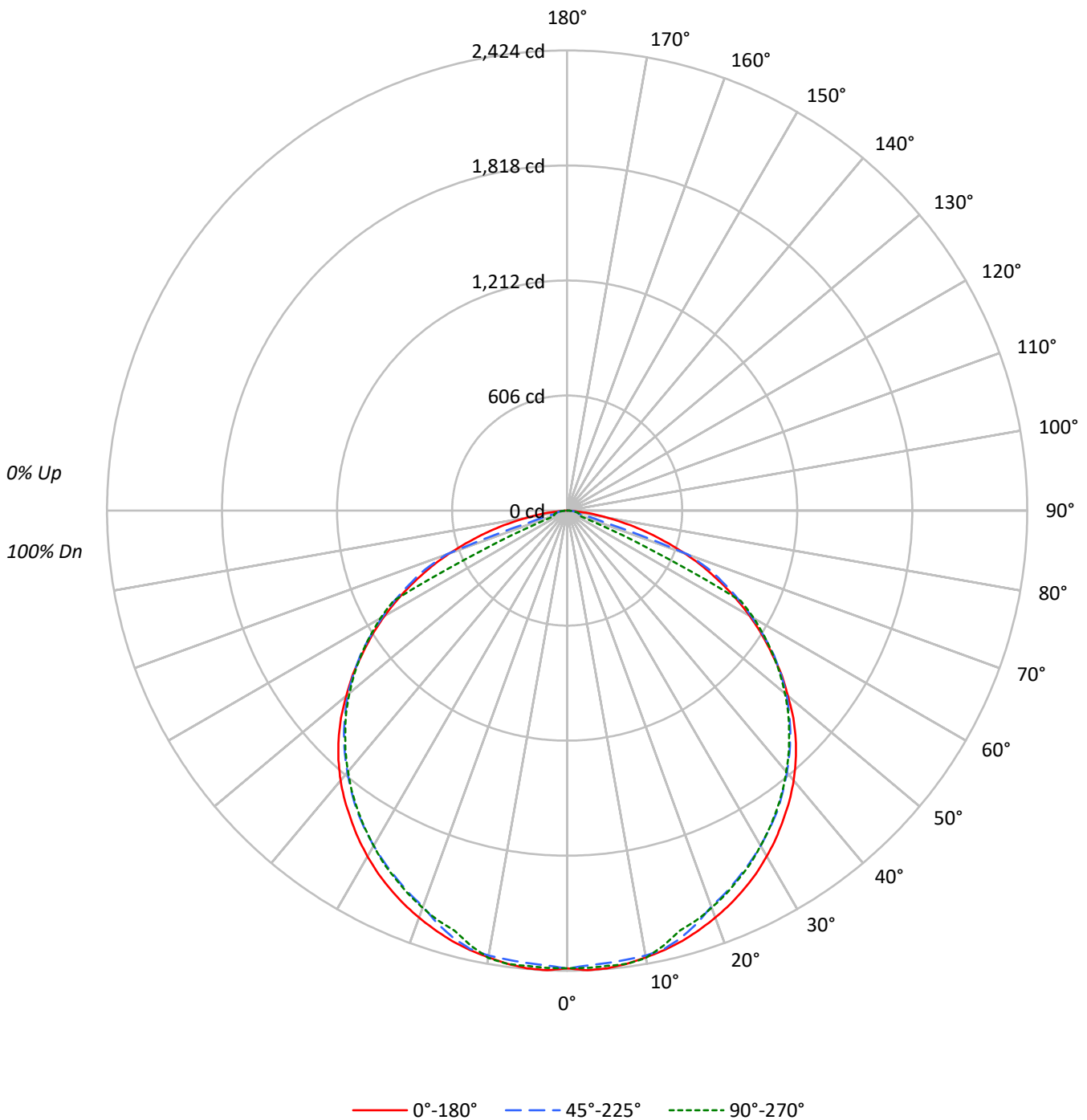
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6637.7 lumens
Efficiency: N/A
Efficacy: 230.5 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

TEST NUMBER: P#
CATALOG NUMBER: 6RSRK-100-HE-L830

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 6RSRK-100-HE-L830

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° | 4326 | 4326 | 4326 |
| 5° | 4359 | 4309 | 4337 |
| 10° | 4353 | 4336 | 4359 |
| 15° | 4358 | 4324 | 4255 |
| 20° | 4356 | 4239 | 4250 |
| 25° | 4358 | 4224 | 4236 |
| 30° | 4357 | 4223 | 4223 |
| 35° | 4350 | 4229 | 4215 |
| 40° | 4349 | 4219 | 4204 |
| 45° | 4320 | 4219 | 4195 |
| 50° | 4237 | 4211 | 4177 |
| 55° | 4122 | 4161 | 4141 |
| 60° | 3988 | 4033 | 4077 |
| 65° | 3778 | 3882 | 2052 |
| 70° | 3457 | 3537 | 388 |
| 75° | 2967 | 427 | 469 |
| 80° | 2227 | 540 | 540 |
| 85° | 1140 | 570 | 506 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 229.1 | 3.5 |
| 10°-20° | 656.2 | 9.9 |
| 20°-30° | 997.6 | 15.0 |
| 30°-40° | 1215.2 | 18.3 |
| 40°-50° | 1285.8 | 19.4 |
| 50°-60° | 1179.4 | 17.8 |
| 60°-70° | 795.5 | 12.0 |
| 70°-80° | 240.4 | 3.6 |
| 80°-90° | 38.5 | 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° | 1882.9 | 28.4 |
| 0°-40° | 3098.0 | 46.7 |
| 0°-60° | 5563.3 | 83.8 |
| 0°-90° | 6637.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6637.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2411 | 2411 | 2411 | 2411 | 2411 | |
| 5° | 2420 | 2402 | 2393 | 2414 | 2408 | 230 |
| 15° | 2346 | 2334 | 2328 | 2310 | 2291 | 662 |
| 25° | 2202 | 2199 | 2134 | 2156 | 2140 | 1015 |
| 35° | 1986 | 1943 | 1931 | 1937 | 1925 | 1244 |
| 45° | 1703 | 1663 | 1663 | 1666 | 1654 | 1311 |
| 55° | 1318 | 1300 | 1330 | 1330 | 1324 | 1180 |
| 65° | 890 | 878 | 914 | 927 | 483 | 879 |
| 75° | 428 | 431 | 62 | 68 | 68 | 454 |
| 85° | 55 | 28 | 28 | 25 | 25 | 85 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 6RSRK-100-HE-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2411.2 | 2411.2 | 2411.2 | 2411.2 | 2411.2 |
| 2.5° | 2423.5 | 2404.9 | 2398.8 | 2414.2 | 2411.2 |
| 5° | 2420.4 | 2401.9 | 2392.6 | 2414.2 | 2408.1 |
| 7.5° | 2408.1 | 2389.6 | 2386.5 | 2411.2 | 2408.1 |
| 10° | 2389.6 | 2377.3 | 2380.3 | 2401.9 | 2392.6 |
| 12.5° | 2371.1 | 2358.8 | 2364.9 | 2358.8 | 2346.5 |
| 15° | 2346.5 | 2334.1 | 2328.0 | 2309.5 | 2291.0 |
| 17.5° | 2315.7 | 2309.5 | 2278.7 | 2272.6 | 2263.4 |
| 20° | 2281.8 | 2281.8 | 2220.2 | 2238.7 | 2226.4 |
| 22.5° | 2244.8 | 2244.8 | 2180.2 | 2198.7 | 2186.3 |
| 25° | 2201.8 | 2198.7 | 2134.0 | 2155.5 | 2140.2 |
| 27.5° | 2155.5 | 2140.2 | 2087.8 | 2106.3 | 2094.0 |
| 30° | 2103.2 | 2075.5 | 2038.5 | 2050.8 | 2038.5 |
| 32.5° | 2047.7 | 2007.7 | 1986.1 | 1995.4 | 1983.1 |
| 35° | 1986.1 | 1943.1 | 1930.8 | 1936.9 | 1924.6 |
| 37.5° | 1924.6 | 1878.4 | 1866.1 | 1875.3 | 1863.0 |
| 40° | 1856.9 | 1813.7 | 1801.4 | 1807.6 | 1795.3 |
| 42.5° | 1783.0 | 1746.0 | 1733.7 | 1736.8 | 1727.5 |
| 45° | 1702.8 | 1662.8 | 1662.8 | 1665.9 | 1653.6 |
| 47.5° | 1616.6 | 1582.8 | 1585.9 | 1588.9 | 1579.7 |
| 50° | 1518.1 | 1493.4 | 1508.9 | 1512.0 | 1496.6 |
| 52.5° | 1425.8 | 1401.1 | 1419.5 | 1425.8 | 1413.5 |
| 55° | 1318.0 | 1299.5 | 1330.3 | 1330.3 | 1324.1 |
| 57.5° | 1216.4 | 1197.8 | 1228.7 | 1241.0 | 1231.7 |
| 60° | 1111.6 | 1093.2 | 1123.9 | 1145.5 | 1136.2 |
| 62.5° | 1000.8 | 985.4 | 1022.3 | 1050.0 | 1031.6 |
| 65° | 889.9 | 877.6 | 914.5 | 926.8 | 483.4 |
| 67.5° | 776.0 | 766.7 | 809.9 | 292.6 | 76.9 |
| 70° | 659.0 | 649.8 | 674.4 | 73.9 | 73.9 |
| 72.5° | 538.9 | 542.0 | 215.6 | 70.9 | 70.9 |
| 75° | 428.1 | 431.1 | 61.6 | 67.7 | 67.7 |
| 77.5° | 317.2 | 323.3 | 58.5 | 61.6 | 61.6 |
| 80° | 215.6 | 157.1 | 52.3 | 52.3 | 52.3 |
| 82.5° | 129.3 | 37.0 | 40.0 | 40.0 | 37.0 |
| 85° | 55.4 | 27.7 | 27.7 | 24.6 | 24.6 |
| 87.5° | 18.5 | 12.3 | 12.3 | 9.3 | 9.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)