

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-65-HE-L930**

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: 8RSRK-65-HE-L930
Description: 8ft RSRK, 650 LUMEN PER FOOT 90CRI 3000K CCT WITH NO LENS
Light Source: -
Ballast/Driver: -

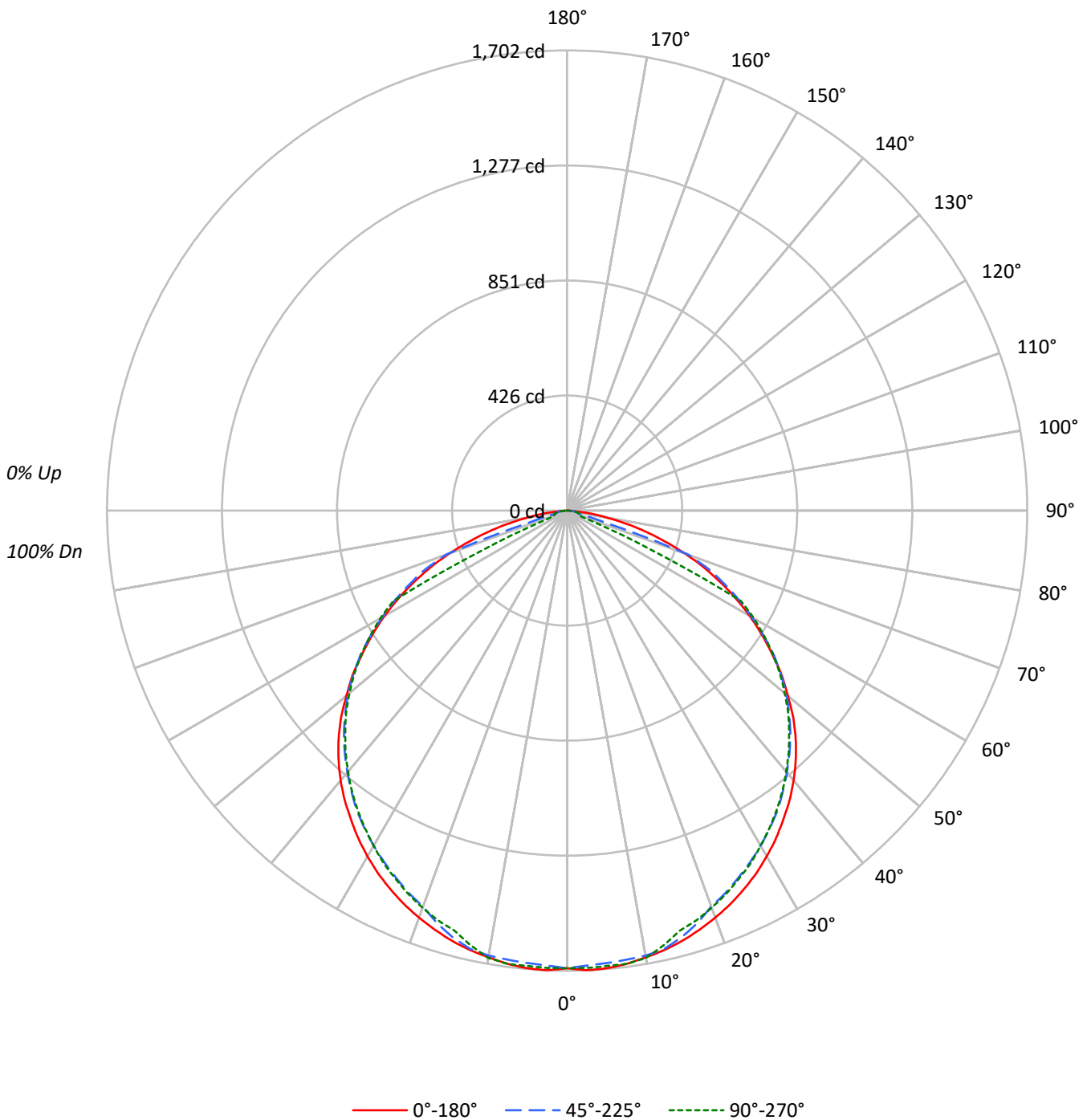
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4660.3 lumens
Efficiency: N/A
Efficacy: 246.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 18.9
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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CATALOG NUMBER: 8RSRK-65-HE-L930

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-65-HE-L930

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° | 2278 | 2278 | 2278 |
| 5° | 2295 | 2269 | 2284 |
| 10° | 2292 | 2283 | 2295 |
| 15° | 2295 | 2277 | 2241 |
| 20° | 2294 | 2232 | 2238 |
| 25° | 2295 | 2224 | 2231 |
| 30° | 2294 | 2224 | 2224 |
| 35° | 2291 | 2227 | 2219 |
| 40° | 2290 | 2221 | 2214 |
| 45° | 2275 | 2222 | 2209 |
| 50° | 2231 | 2218 | 2199 |
| 55° | 2171 | 2191 | 2181 |
| 60° | 2100 | 2123 | 2147 |
| 65° | 1989 | 2044 | 1081 |
| 70° | 1820 | 1863 | 204 |
| 75° | 1562 | 225 | 247 |
| 80° | 1172 | 284 | 284 |
| 85° | 601 | 299 | 267 |



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CATALOG NUMBER: 8RSRK-65-HE-L930

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 160.8 | 3.5 |
| 10°-20° | 460.7 | 9.9 |
| 20°-30° | 700.4 | 15.0 |
| 30°-40° | 853.2 | 18.3 |
| 40°-50° | 902.8 | 19.4 |
| 50°-60° | 828.1 | 17.8 |
| 60°-70° | 558.5 | 12.0 |
| 70°-80° | 168.8 | 3.6 |
| 80°-90° | 27.0 | 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° | 1322.0 | 28.4 |
| 0°-40° | 2175.1 | 46.7 |
| 0°-60° | 3906.0 | 83.8 |
| 0°-90° | 4660.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4660.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1693 | 1693 | 1693 | 1693 | 1693 | |
| 5° | 1699 | 1686 | 1680 | 1695 | 1691 | 161 |
| 15° | 1647 | 1639 | 1634 | 1622 | 1608 | 465 |
| 25° | 1546 | 1544 | 1498 | 1513 | 1503 | 713 |
| 35° | 1394 | 1364 | 1356 | 1360 | 1351 | 873 |
| 45° | 1196 | 1168 | 1168 | 1170 | 1161 | 920 |
| 55° | 925 | 912 | 934 | 934 | 930 | 828 |
| 65° | 625 | 616 | 642 | 651 | 339 | 617 |
| 75° | 300 | 303 | 43 | 48 | 48 | 318 |
| 85° | 39 | 19 | 19 | 17 | 17 | 59 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-65-HE-L930

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1692.9 | 1692.9 | 1692.9 | 1692.9 | 1692.9 |
| 2.5° | 1701.5 | 1688.5 | 1684.2 | 1695.0 | 1692.9 |
| 5° | 1699.3 | 1686.4 | 1679.9 | 1695.0 | 1690.7 |
| 7.5° | 1690.7 | 1677.7 | 1675.6 | 1692.9 | 1690.7 |
| 10° | 1677.7 | 1669.1 | 1671.2 | 1686.4 | 1679.9 |
| 12.5° | 1664.7 | 1656.1 | 1660.4 | 1656.1 | 1647.4 |
| 15° | 1647.4 | 1638.8 | 1634.5 | 1621.5 | 1608.5 |
| 17.5° | 1625.8 | 1621.5 | 1599.9 | 1595.6 | 1589.1 |
| 20° | 1602.0 | 1602.0 | 1558.8 | 1571.8 | 1563.2 |
| 22.5° | 1576.1 | 1576.1 | 1530.7 | 1543.7 | 1535.0 |
| 25° | 1545.9 | 1543.7 | 1498.2 | 1513.4 | 1502.6 |
| 27.5° | 1513.4 | 1502.6 | 1465.8 | 1478.8 | 1470.2 |
| 30° | 1476.7 | 1457.2 | 1431.2 | 1439.9 | 1431.2 |
| 32.5° | 1437.7 | 1409.6 | 1394.5 | 1401.0 | 1392.3 |
| 35° | 1394.5 | 1364.2 | 1355.6 | 1359.9 | 1351.2 |
| 37.5° | 1351.2 | 1318.8 | 1310.2 | 1316.6 | 1308.0 |
| 40° | 1303.7 | 1273.4 | 1264.7 | 1269.1 | 1260.5 |
| 42.5° | 1251.8 | 1225.9 | 1217.2 | 1219.4 | 1212.9 |
| 45° | 1195.6 | 1167.5 | 1167.5 | 1169.6 | 1161.0 |
| 47.5° | 1135.0 | 1111.3 | 1113.5 | 1115.6 | 1109.1 |
| 50° | 1065.8 | 1048.5 | 1059.4 | 1061.6 | 1050.7 |
| 52.5° | 1001.0 | 983.7 | 996.7 | 1001.0 | 992.4 |
| 55° | 925.3 | 912.4 | 934.0 | 934.0 | 929.7 |
| 57.5° | 854.0 | 841.0 | 862.7 | 871.3 | 864.8 |
| 60° | 780.5 | 767.5 | 789.1 | 804.3 | 797.8 |
| 62.5° | 702.6 | 691.8 | 717.8 | 737.2 | 724.3 |
| 65° | 624.8 | 616.1 | 642.1 | 650.7 | 339.4 |
| 67.5° | 544.8 | 538.3 | 568.6 | 205.4 | 54.0 |
| 70° | 462.7 | 456.2 | 473.5 | 51.9 | 51.9 |
| 72.5° | 378.4 | 380.5 | 151.3 | 49.8 | 49.8 |
| 75° | 300.5 | 302.7 | 43.2 | 47.6 | 47.6 |
| 77.5° | 222.7 | 227.0 | 41.1 | 43.2 | 43.2 |
| 80° | 151.3 | 110.3 | 36.7 | 36.7 | 36.7 |
| 82.5° | 90.8 | 25.9 | 28.1 | 28.1 | 25.9 |
| 85° | 38.9 | 19.4 | 19.4 | 17.3 | 17.3 |
| 87.5° | 13.0 | 8.6 | 8.6 | 6.5 | 6.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)