

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-50-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: 8RSRK-50-HE-L830
Description: 8ft RSRK, 500 LUMEN PER FOOT 80CRI 3000K CCT WITH NO LENS
Light Source: -
Ballast/Driver: -

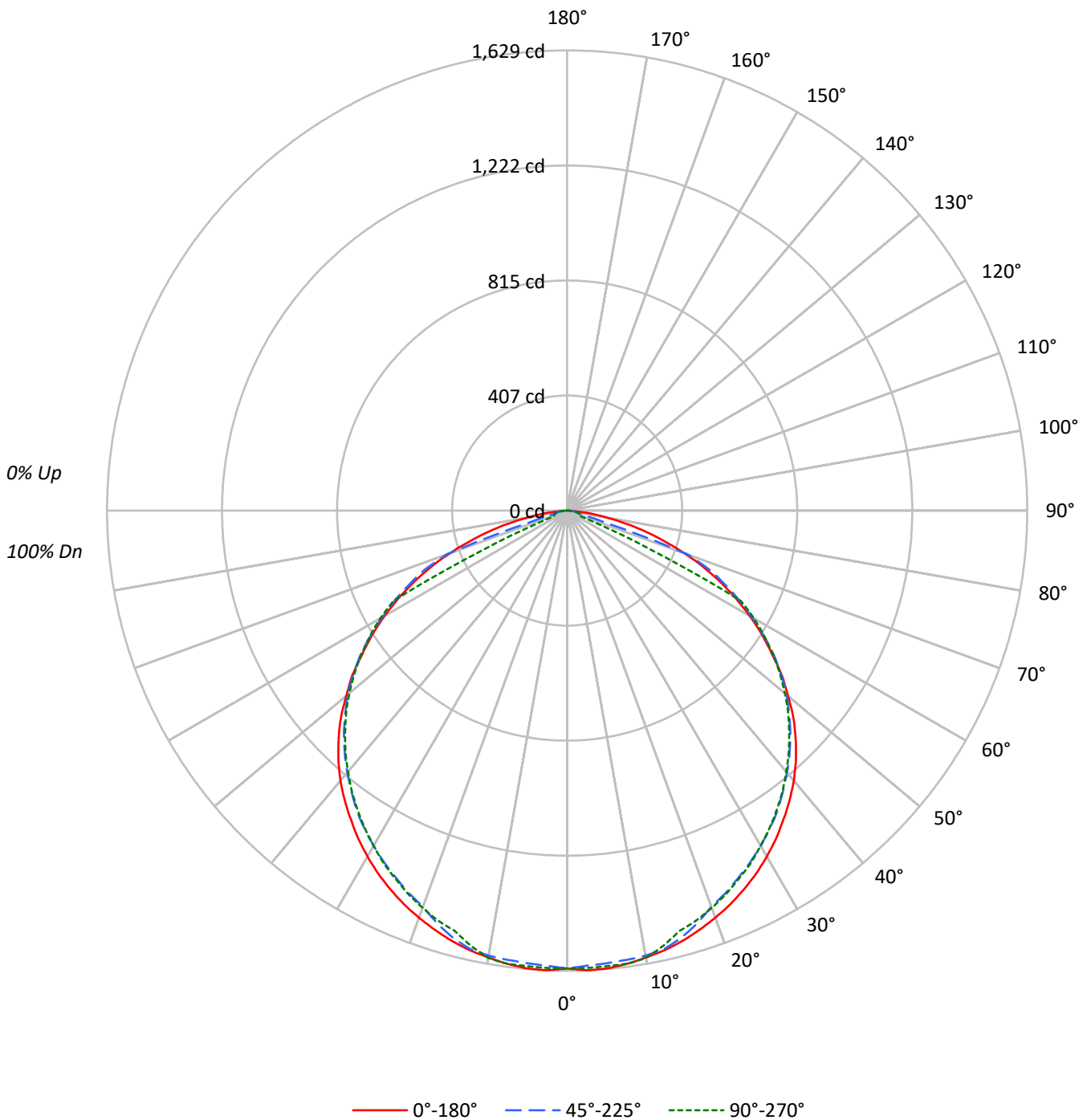
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4461.9 lumens
Efficiency: N/A
Efficacy: 312.0 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): 14.3
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-50-HE-L830

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-50-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° | 2181 | 2181 | 2181 |
| 5° | 2197 | 2172 | 2186 |
| 10° | 2195 | 2186 | 2197 |
| 15° | 2197 | 2180 | 2145 |
| 20° | 2196 | 2137 | 2143 |
| 25° | 2197 | 2129 | 2136 |
| 30° | 2197 | 2129 | 2129 |
| 35° | 2193 | 2132 | 2125 |
| 40° | 2192 | 2127 | 2120 |
| 45° | 2178 | 2127 | 2115 |
| 50° | 2136 | 2123 | 2106 |
| 55° | 2078 | 2098 | 2088 |
| 60° | 2011 | 2033 | 2055 |
| 65° | 1904 | 1957 | 1035 |
| 70° | 1743 | 1783 | 196 |
| 75° | 1496 | 215 | 237 |
| 80° | 1123 | 273 | 273 |
| 85° | 576 | 287 | 256 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 154.0 | 3.5 |
| 10°-20° | 441.1 | 9.9 |
| 20°-30° | 670.6 | 15.0 |
| 30°-40° | 816.8 | 18.3 |
| 40°-50° | 864.4 | 19.4 |
| 50°-60° | 792.8 | 17.8 |
| 60°-70° | 534.8 | 12.0 |
| 70°-80° | 161.6 | 3.6 |
| 80°-90° | 25.9 | 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° | 1265.7 | 28.4 |
| 0°-40° | 2082.5 | 46.7 |
| 0°-60° | 3739.7 | 83.8 |
| 0°-90° | 4461.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4461.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1621 | 1621 | 1621 | 1621 | 1621 | |
| 5° | 1627 | 1615 | 1608 | 1623 | 1619 | 155 |
| 15° | 1577 | 1569 | 1565 | 1552 | 1540 | 445 |
| 25° | 1480 | 1478 | 1434 | 1449 | 1439 | 682 |
| 35° | 1335 | 1306 | 1298 | 1302 | 1294 | 836 |
| 45° | 1145 | 1118 | 1118 | 1120 | 1112 | 881 |
| 55° | 886 | 874 | 894 | 894 | 890 | 793 |
| 65° | 598 | 590 | 615 | 623 | 325 | 591 |
| 75° | 288 | 290 | 41 | 46 | 46 | 305 |
| 85° | 37 | 19 | 19 | 17 | 17 | 57 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-50-HE-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1620.8 | 1620.8 | 1620.8 | 1620.8 | 1620.8 |
| 2.5° | 1629.1 | 1616.6 | 1612.5 | 1622.8 | 1620.8 |
| 5° | 1627.0 | 1614.6 | 1608.3 | 1622.8 | 1618.7 |
| 7.5° | 1618.7 | 1606.3 | 1604.2 | 1620.8 | 1618.7 |
| 10° | 1606.3 | 1598.0 | 1600.0 | 1614.6 | 1608.3 |
| 12.5° | 1593.9 | 1585.6 | 1589.7 | 1585.6 | 1577.3 |
| 15° | 1577.3 | 1569.0 | 1564.9 | 1552.5 | 1540.0 |
| 17.5° | 1556.6 | 1552.5 | 1531.8 | 1527.6 | 1521.4 |
| 20° | 1533.8 | 1533.8 | 1492.4 | 1504.9 | 1496.6 |
| 22.5° | 1509.0 | 1509.0 | 1465.5 | 1477.9 | 1469.7 |
| 25° | 1480.0 | 1477.9 | 1434.4 | 1449.0 | 1438.6 |
| 27.5° | 1449.0 | 1438.6 | 1403.4 | 1415.8 | 1407.6 |
| 30° | 1413.8 | 1395.1 | 1370.3 | 1378.6 | 1370.3 |
| 32.5° | 1376.5 | 1349.6 | 1335.1 | 1341.3 | 1333.0 |
| 35° | 1335.1 | 1306.2 | 1297.9 | 1302.0 | 1293.7 |
| 37.5° | 1293.7 | 1262.7 | 1254.4 | 1260.6 | 1252.3 |
| 40° | 1248.2 | 1219.2 | 1210.9 | 1215.1 | 1206.8 |
| 42.5° | 1198.5 | 1173.7 | 1165.4 | 1167.5 | 1161.2 |
| 45° | 1144.7 | 1117.8 | 1117.8 | 1119.8 | 1111.5 |
| 47.5° | 1086.7 | 1064.0 | 1066.0 | 1068.1 | 1061.9 |
| 50° | 1020.5 | 1003.9 | 1014.3 | 1016.4 | 1006.0 |
| 52.5° | 958.4 | 941.9 | 954.2 | 958.4 | 950.1 |
| 55° | 885.9 | 873.5 | 894.2 | 894.2 | 890.1 |
| 57.5° | 817.7 | 805.2 | 825.9 | 834.2 | 828.0 |
| 60° | 747.2 | 734.9 | 755.5 | 770.0 | 763.8 |
| 62.5° | 672.7 | 662.4 | 687.2 | 705.8 | 693.5 |
| 65° | 598.2 | 589.9 | 614.8 | 623.0 | 325.0 |
| 67.5° | 521.6 | 515.4 | 544.4 | 196.7 | 51.7 |
| 70° | 443.0 | 436.8 | 453.3 | 49.7 | 49.7 |
| 72.5° | 362.3 | 364.3 | 144.9 | 47.6 | 47.6 |
| 75° | 287.7 | 289.8 | 41.4 | 45.5 | 45.5 |
| 77.5° | 213.2 | 217.3 | 39.4 | 41.4 | 41.4 |
| 80° | 144.9 | 105.6 | 35.2 | 35.2 | 35.2 |
| 82.5° | 86.9 | 24.8 | 26.9 | 26.9 | 24.8 |
| 85° | 37.3 | 18.6 | 18.6 | 16.6 | 16.6 |
| 87.5° | 12.4 | 8.3 | 8.3 | 6.2 | 6.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)