

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: **4RSRK-TB-200-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 (G3-1810-975-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4RSRK-TB-200-HE-L830
Description: 4ft RSRK, 2000 LUMEN PER FOOT 80CRI 3000K CCT WITH TRILOBE RIBBED LENS
Light Source: -
Ballast/Driver: -

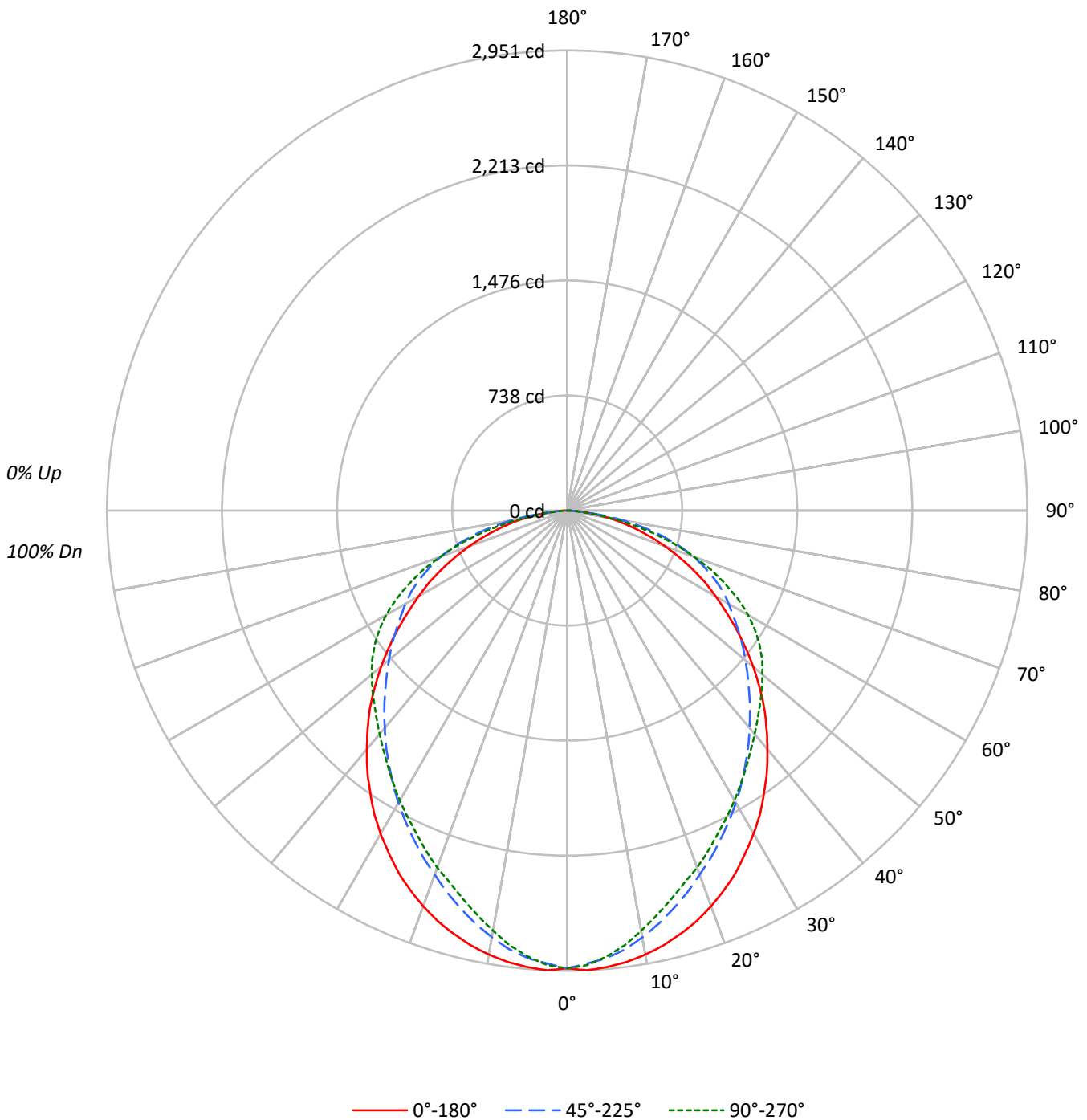
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7679.1 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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: 4RSRK-TB-200-HE-L830

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4RSRK-TB-200-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 | 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 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 85 | 83 | | | | | 83 | | | |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 | | | | | 69 | | | |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 64 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 49 | | | | | 49 | | | |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 | | | | | 43 | | | |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 | | | | | 37 | | | |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 33 | | | | | 33 | | | |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 31 | 30 | | | | | 30 | | | |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 28 | 27 | | | | | 27 | | | |
| 10 | 53 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 | | | | | 24 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7899 | 7899 | 7899 |
| 5° | 7937 | 7783 | 7757 |
| 10° | 7900 | 7593 | 7474 |
| 15° | 7828 | 7357 | 7184 |
| 20° | 7731 | 7114 | 6978 |
| 25° | 7603 | 6911 | 6785 |
| 30° | 7434 | 6725 | 6671 |
| 35° | 7236 | 6541 | 6579 |
| 40° | 7018 | 6390 | 6570 |
| 45° | 6801 | 6283 | 6658 |
| 50° | 6523 | 6240 | 6843 |
| 55° | 6213 | 6281 | 7074 |
| 60° | 5920 | 6440 | 7215 |
| 65° | 5631 | 6641 | 7152 |
| 70° | 5263 | 6784 | 6799 |
| 75° | 4723 | 6582 | 6090 |
| 80° | 4135 | 5587 | 4523 |
| 85° | 3103 | 2955 | 1911 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 273.6 | 3.6 |
| 10°-20° | 752.8 | 9.8 |
| 20°-30° | 1095.2 | 14.3 |
| 30°-40° | 1280.9 | 16.7 |
| 40°-50° | 1316.6 | 17.1 |
| 50°-60° | 1224.9 | 16.0 |
| 60°-70° | 996.4 | 13.0 |
| 70°-80° | 603.5 | 7.9 |
| 80°-90° | 135.2 | 1.8 |
| 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° | 2121.5 | 27.6 |
| 0°-40° | 3402.5 | 44.3 |
| 0°-60° | 5944.0 | 77.4 |
| 0°-90° | 7679.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7679.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2936 | 2936 | 2936 | 2936 | 2936 | |
| 5° | 2938 | 2921 | 2881 | 2887 | 2872 | 279 |
| 15° | 2810 | 2750 | 2641 | 2601 | 2579 | 792 |
| 25° | 2560 | 2452 | 2328 | 2304 | 2285 | 1178 |
| 35° | 2203 | 2086 | 1991 | 2004 | 2003 | 1378 |
| 45° | 1787 | 1672 | 1651 | 1723 | 1750 | 1376 |
| 55° | 1324 | 1252 | 1339 | 1475 | 1508 | 1185 |
| 65° | 884 | 868 | 1043 | 1126 | 1123 | 876 |
| 75° | 454 | 540 | 633 | 605 | 586 | 486 |
| 85° | 100 | 138 | 96 | 70 | 62 | 123 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 4RSRK-TB-200-HE-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2935.5 | 2935.5 | 2935.5 | 2935.5 | 2935.5 |
| 2.5° | 2951.0 | 2937.4 | 2908.4 | 2924.9 | 2918.1 |
| 5° | 2938.4 | 2921.0 | 2881.4 | 2887.2 | 2871.7 |
| 7.5° | 2920.0 | 2894.9 | 2837.9 | 2826.3 | 2812.8 |
| 10° | 2891.0 | 2854.3 | 2778.9 | 2760.6 | 2735.4 |
| 12.5° | 2855.3 | 2807.9 | 2713.2 | 2680.3 | 2657.1 |
| 15° | 2809.9 | 2749.9 | 2640.7 | 2601.1 | 2578.8 |
| 17.5° | 2760.6 | 2686.1 | 2565.3 | 2524.7 | 2501.5 |
| 20° | 2699.7 | 2614.6 | 2484.1 | 2450.3 | 2436.8 |
| 22.5° | 2632.0 | 2534.4 | 2408.7 | 2378.8 | 2363.3 |
| 25° | 2560.5 | 2452.2 | 2327.5 | 2304.3 | 2285.0 |
| 27.5° | 2476.4 | 2366.2 | 2245.4 | 2228.9 | 2215.4 |
| 30° | 2392.3 | 2279.2 | 2164.2 | 2152.6 | 2146.8 |
| 32.5° | 2303.4 | 2180.6 | 2079.1 | 2077.2 | 2074.3 |
| 35° | 2202.8 | 2085.9 | 1991.2 | 2003.7 | 2002.8 |
| 37.5° | 2105.2 | 1985.4 | 1908.0 | 1930.3 | 1935.1 |
| 40° | 1997.9 | 1881.0 | 1819.1 | 1856.8 | 1870.3 |
| 42.5° | 1892.6 | 1780.4 | 1736.0 | 1787.2 | 1809.4 |
| 45° | 1787.2 | 1672.2 | 1650.9 | 1723.4 | 1749.5 |
| 47.5° | 1672.2 | 1568.8 | 1570.7 | 1663.5 | 1694.4 |
| 50° | 1558.1 | 1461.5 | 1490.5 | 1598.7 | 1634.5 |
| 52.5° | 1440.2 | 1357.1 | 1418.0 | 1535.9 | 1576.5 |
| 55° | 1324.2 | 1251.7 | 1338.7 | 1475.0 | 1507.9 |
| 57.5° | 1208.2 | 1150.2 | 1266.2 | 1396.7 | 1429.6 |
| 60° | 1100.0 | 1049.7 | 1196.6 | 1315.5 | 1340.6 |
| 62.5° | 996.5 | 955.9 | 1128.0 | 1226.6 | 1239.2 |
| 65° | 884.4 | 868.0 | 1042.9 | 1126.1 | 1123.2 |
| 67.5° | 774.2 | 778.1 | 955.9 | 1010.1 | 1005.2 |
| 70° | 668.9 | 699.8 | 862.2 | 884.4 | 864.1 |
| 72.5° | 560.6 | 618.6 | 753.0 | 751.0 | 730.7 |
| 75° | 454.3 | 540.3 | 633.1 | 605.1 | 585.7 |
| 77.5° | 362.5 | 456.2 | 502.6 | 464.0 | 433.0 |
| 80° | 266.8 | 365.4 | 360.5 | 317.0 | 291.9 |
| 82.5° | 175.0 | 254.2 | 223.3 | 179.8 | 168.2 |
| 85° | 100.5 | 138.2 | 95.7 | 69.6 | 61.9 |
| 87.5° | 42.5 | 36.7 | 24.2 | 22.2 | 20.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)