

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-TS-100-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 (G3-1810-975-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4RSRK-TS-100-HE-L930
Description: 4ft RSRK, 1000 LUMEN PER FOOT 90CRI 3000K CCT WITH TRILOBE SMOOTH LENS
Light Source: -
Ballast/Driver: -

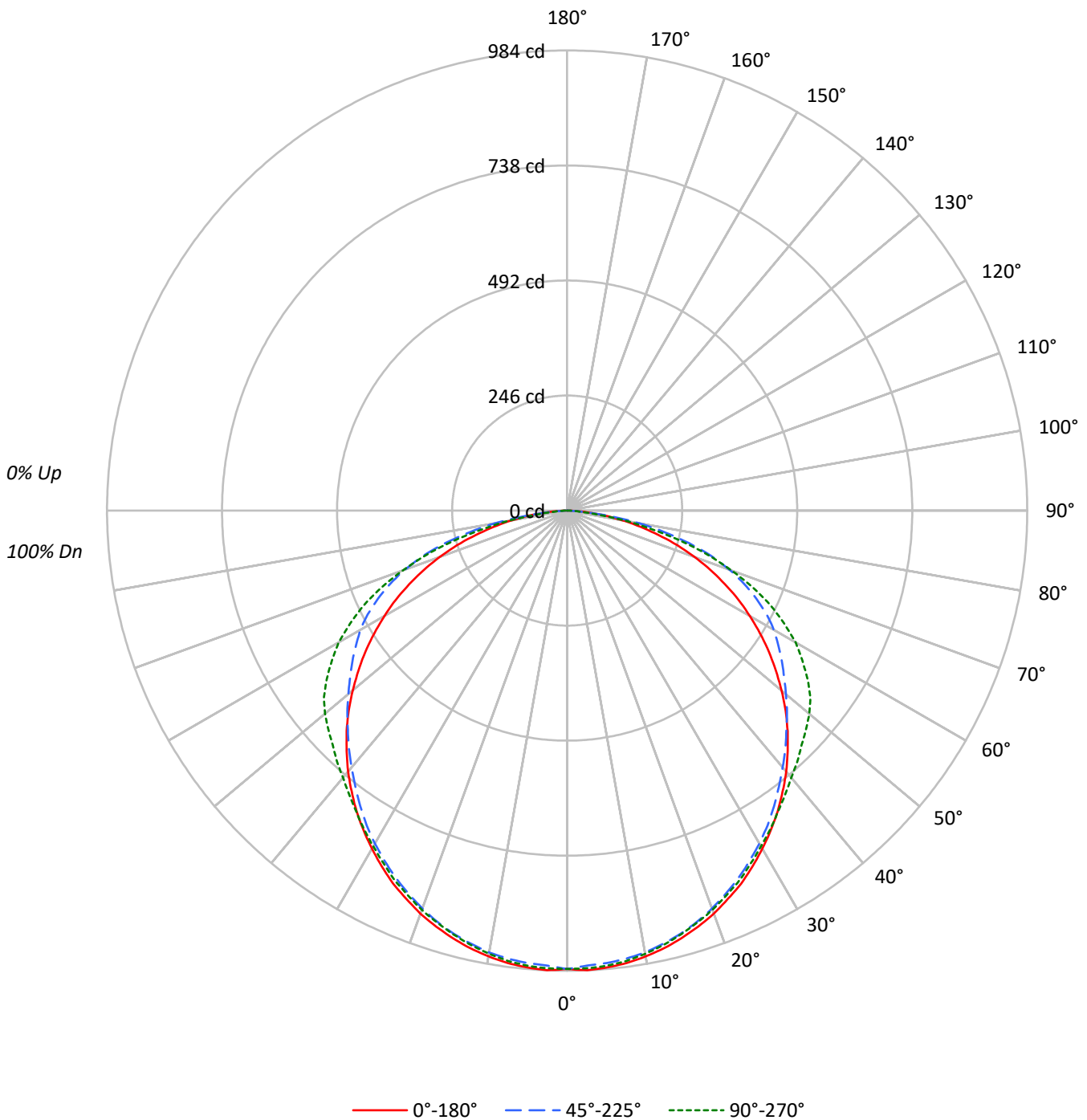
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3017.7 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' 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 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 97 | 93 | 90 | | 93 | 90 | 87 | | 89 | 87 | 85 | 83 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | | 80 | 76 | 72 | | 77 | 73 | 70 | 68 |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | | 70 | 65 | 60 | | 68 | 63 | 59 | 56 |
| 4 | 81 | 69 | 59 | 52 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | | 62 | 56 | 51 | | 60 | 54 | 50 | 48 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | | 56 | 49 | 44 | | 54 | 48 | 43 | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 38 | | 50 | 43 | 38 | | 49 | 42 | 38 | 36 |
| 7 | 63 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | | 46 | 39 | 34 | | 44 | 38 | 33 | 31 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 36 | 30 | | 42 | 35 | 30 | | 41 | 34 | 30 | 28 |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | | 39 | 32 | 27 | | 37 | 31 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 25 | | 36 | 29 | 24 | | 35 | 29 | 24 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2638 | 2638 | 2638 |
| 5° | 2649 | 2623 | 2639 |
| 10° | 2645 | 2622 | 2629 |
| 15° | 2636 | 2610 | 2614 |
| 20° | 2627 | 2593 | 2603 |
| 25° | 2613 | 2574 | 2590 |
| 30° | 2594 | 2554 | 2576 |
| 35° | 2579 | 2534 | 2582 |
| 40° | 2561 | 2518 | 2618 |
| 45° | 2537 | 2523 | 2698 |
| 50° | 2506 | 2556 | 2831 |
| 55° | 2473 | 2629 | 2944 |
| 60° | 2430 | 2749 | 3036 |
| 65° | 2370 | 2841 | 3060 |
| 70° | 2279 | 2903 | 2941 |
| 75° | 2100 | 2809 | 2627 |
| 80° | 1860 | 2417 | 2016 |
| 85° | 1340 | 1226 | 800 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.8 | 3.1 |
| 10°-20° | 265.6 | 8.8 |
| 20°-30° | 402.2 | 13.3 |
| 30°-40° | 487.8 | 16.2 |
| 40°-50° | 521.9 | 17.3 |
| 50°-60° | 505.8 | 16.8 |
| 60°-70° | 423.6 | 14.0 |
| 70°-80° | 260.3 | 8.6 |
| 80°-90° | 57.5 | 1.9 |
| 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° | 760.7 | 25.2 |
| 0°-40° | 1248.5 | 41.4 |
| 0°-60° | 2276.2 | 75.4 |
| 0°-90° | 3017.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3017.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 980 | 980 | 980 | 980 | 980 | |
| 5° | 981 | 979 | 971 | 978 | 977 | 93 |
| 15° | 946 | 944 | 937 | 941 | 938 | 267 |
| 25° | 880 | 875 | 867 | 873 | 872 | 405 |
| 35° | 785 | 775 | 771 | 784 | 786 | 491 |
| 45° | 667 | 652 | 663 | 697 | 709 | 514 |
| 55° | 527 | 513 | 560 | 616 | 628 | 471 |
| 65° | 372 | 370 | 446 | 476 | 481 | 368 |
| 75° | 202 | 236 | 270 | 258 | 253 | 215 |
| 85° | 43 | 58 | 40 | 28 | 26 | 55 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 980.2 | 980.2 | 980.2 | 980.2 | 980.2 |
| 2.5° | 983.9 | 981.2 | 973.8 | 980.2 | 979.6 |
| 5° | 980.7 | 978.6 | 971.2 | 977.5 | 977.0 |
| 7.5° | 975.9 | 973.8 | 966.4 | 972.8 | 971.2 |
| 10° | 968.0 | 966.4 | 959.5 | 964.3 | 962.2 |
| 12.5° | 958.5 | 956.9 | 949.0 | 954.3 | 951.6 |
| 15° | 946.3 | 944.2 | 936.8 | 941.0 | 938.4 |
| 17.5° | 932.6 | 929.9 | 922.5 | 926.8 | 924.1 |
| 20° | 917.2 | 913.5 | 905.6 | 911.4 | 908.8 |
| 22.5° | 898.7 | 896.1 | 886.6 | 892.9 | 890.3 |
| 25° | 880.2 | 875.0 | 867.0 | 872.8 | 872.3 |
| 27.5° | 858.0 | 852.7 | 844.8 | 851.7 | 850.6 |
| 30° | 834.8 | 829.0 | 822.1 | 829.0 | 829.0 |
| 32.5° | 810.5 | 803.1 | 797.8 | 805.7 | 808.3 |
| 35° | 785.1 | 775.0 | 771.3 | 784.5 | 786.1 |
| 37.5° | 757.1 | 747.0 | 743.8 | 761.3 | 765.5 |
| 40° | 729.0 | 716.4 | 716.9 | 739.1 | 745.4 |
| 42.5° | 697.8 | 685.2 | 691.0 | 716.9 | 728.5 |
| 45° | 666.7 | 652.4 | 663.0 | 696.8 | 708.9 |
| 47.5° | 633.9 | 620.1 | 637.6 | 677.2 | 692.6 |
| 50° | 598.5 | 584.7 | 610.6 | 658.7 | 676.2 |
| 52.5° | 562.5 | 548.2 | 584.7 | 639.7 | 655.6 |
| 55° | 527.1 | 512.8 | 560.4 | 615.9 | 627.5 |
| 57.5° | 489.0 | 476.9 | 535.0 | 584.7 | 596.3 |
| 60° | 451.5 | 440.9 | 510.7 | 553.0 | 564.1 |
| 62.5° | 412.9 | 405.0 | 481.1 | 516.5 | 522.9 |
| 65° | 372.2 | 370.1 | 446.2 | 476.3 | 480.6 |
| 67.5° | 331.5 | 336.8 | 410.2 | 429.8 | 430.3 |
| 70° | 289.7 | 304.0 | 369.0 | 377.5 | 373.8 |
| 72.5° | 247.4 | 272.3 | 323.5 | 319.3 | 316.1 |
| 75° | 202.0 | 235.8 | 270.2 | 258.5 | 252.7 |
| 77.5° | 160.7 | 198.8 | 213.1 | 196.7 | 187.7 |
| 80° | 120.0 | 157.0 | 156.0 | 134.8 | 130.1 |
| 82.5° | 80.9 | 109.4 | 93.6 | 76.1 | 66.6 |
| 85° | 43.4 | 58.2 | 39.7 | 27.5 | 25.9 |
| 87.5° | 16.4 | 13.7 | 10.6 | 9.5 | 9.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)