

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-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 (G3-1810-975-5)
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-L830
Description: 4ft RSRK, 1000 LUMEN PER FOOT 80CRI 3000K CCT WITH TRILOBE SMOOTH LENS
Light Source: -
Ballast/Driver: -

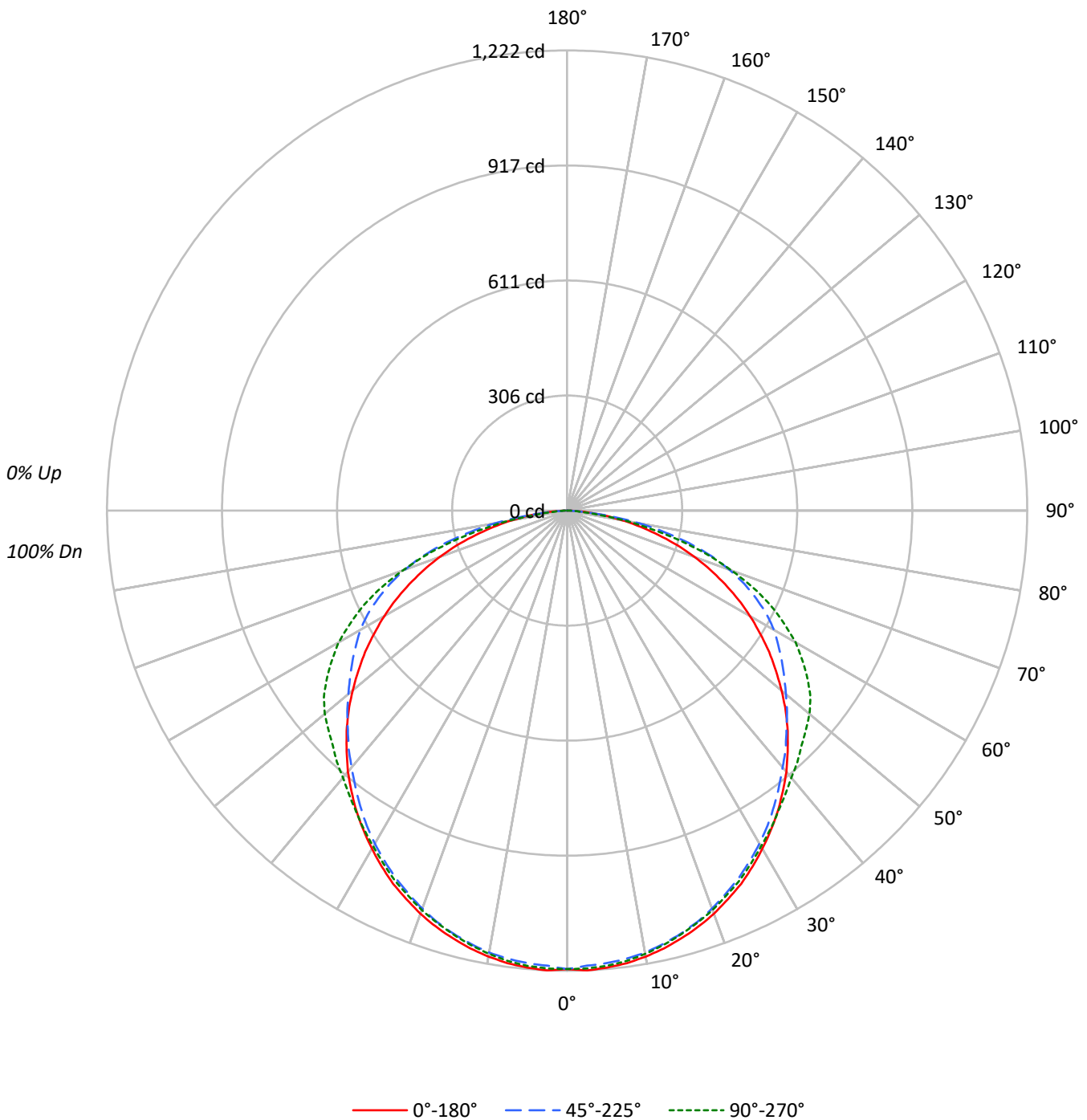
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3748.6 lumens
Efficiency: N/A
Efficacy: 130.2 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 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 72 | 77 | 73 | 70 |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 59 |
| 4 | 81 | 69 | 59 | 52 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | 62 | 56 | 51 | 60 | 54 | 50 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 38 |
| 7 | 63 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | 46 | 39 | 34 | 44 | 38 | 33 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 30 |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 37 | 31 | 27 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 25 | 36 | 29 | 24 | 35 | 29 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3277 | 3277 | 3277 |
| 5° | 3291 | 3259 | 3278 |
| 10° | 3286 | 3257 | 3266 |
| 15° | 3275 | 3242 | 3248 |
| 20° | 3263 | 3222 | 3233 |
| 25° | 3247 | 3198 | 3217 |
| 30° | 3222 | 3173 | 3200 |
| 35° | 3204 | 3148 | 3208 |
| 40° | 3181 | 3128 | 3253 |
| 45° | 3151 | 3134 | 3352 |
| 50° | 3112 | 3175 | 3517 |
| 55° | 3072 | 3266 | 3657 |
| 60° | 3019 | 3414 | 3771 |
| 65° | 2944 | 3529 | 3801 |
| 70° | 2832 | 3607 | 3653 |
| 75° | 2609 | 3489 | 3264 |
| 80° | 2311 | 3002 | 2504 |
| 85° | 1664 | 1522 | 994 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 115.3 | 3.1 |
| 10°-20° | 330.0 | 8.8 |
| 20°-30° | 499.7 | 13.3 |
| 30°-40° | 606.0 | 16.2 |
| 40°-50° | 648.3 | 17.3 |
| 50°-60° | 628.4 | 16.8 |
| 60°-70° | 526.2 | 14.0 |
| 70°-80° | 323.4 | 8.6 |
| 80°-90° | 71.4 | 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° | 944.9 | 25.2 |
| 0°-40° | 1550.9 | 41.4 |
| 0°-60° | 2827.6 | 75.4 |
| 0°-90° | 3748.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3748.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1218 | 1218 | 1218 | 1218 | 1218 | |
| 5° | 1218 | 1216 | 1206 | 1214 | 1214 | 116 |
| 15° | 1176 | 1173 | 1164 | 1169 | 1166 | 332 |
| 25° | 1094 | 1087 | 1077 | 1084 | 1084 | 504 |
| 35° | 975 | 963 | 958 | 975 | 977 | 610 |
| 45° | 828 | 810 | 824 | 866 | 881 | 639 |
| 55° | 655 | 637 | 696 | 765 | 780 | 585 |
| 65° | 462 | 460 | 554 | 592 | 597 | 457 |
| 75° | 251 | 293 | 336 | 321 | 314 | 267 |
| 85° | 54 | 72 | 49 | 34 | 32 | 68 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 4RSRK-TS-100-HE-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1217.6 |
| 2.5° | 1222.2 | 1218.9 | 1209.7 | 1217.6 | 1216.9 |
| 5° | 1218.2 | 1215.6 | 1206.4 | 1214.3 | 1213.6 |
| 7.5° | 1212.3 | 1209.7 | 1200.5 | 1208.4 | 1206.4 |
| 10° | 1202.5 | 1200.5 | 1192.0 | 1197.9 | 1195.3 |
| 12.5° | 1190.7 | 1188.7 | 1178.8 | 1185.4 | 1182.1 |
| 15° | 1175.6 | 1172.9 | 1163.7 | 1169.0 | 1165.7 |
| 17.5° | 1158.5 | 1155.2 | 1146.0 | 1151.3 | 1148.0 |
| 20° | 1139.4 | 1134.8 | 1125.0 | 1132.2 | 1128.9 |
| 22.5° | 1116.5 | 1113.2 | 1101.3 | 1109.2 | 1105.9 |
| 25° | 1093.5 | 1086.9 | 1077.0 | 1084.3 | 1083.6 |
| 27.5° | 1065.9 | 1059.3 | 1049.5 | 1058.0 | 1056.7 |
| 30° | 1037.0 | 1029.8 | 1021.2 | 1029.8 | 1029.8 |
| 32.5° | 1006.8 | 997.6 | 991.0 | 1000.9 | 1004.1 |
| 35° | 975.3 | 962.8 | 958.2 | 974.6 | 976.6 |
| 37.5° | 940.4 | 928.0 | 924.0 | 945.7 | 951.0 |
| 40° | 905.6 | 889.9 | 890.5 | 918.1 | 926.0 |
| 42.5° | 866.9 | 851.1 | 858.4 | 890.5 | 905.0 |
| 45° | 828.1 | 810.4 | 823.5 | 865.6 | 880.7 |
| 47.5° | 787.4 | 770.4 | 792.0 | 841.3 | 860.3 |
| 50° | 743.4 | 726.4 | 758.5 | 818.3 | 840.0 |
| 52.5° | 698.8 | 681.0 | 726.4 | 794.7 | 814.4 |
| 55° | 654.8 | 637.0 | 696.1 | 765.1 | 779.5 |
| 57.5° | 607.5 | 592.4 | 664.6 | 726.4 | 740.8 |
| 60° | 560.9 | 547.7 | 634.4 | 686.9 | 700.7 |
| 62.5° | 512.9 | 503.1 | 597.6 | 641.6 | 649.5 |
| 65° | 462.3 | 459.7 | 554.3 | 591.7 | 597.0 |
| 67.5° | 411.8 | 418.3 | 509.6 | 533.9 | 534.6 |
| 70° | 359.9 | 377.6 | 458.4 | 468.9 | 464.3 |
| 72.5° | 307.4 | 338.2 | 401.9 | 396.7 | 392.7 |
| 75° | 250.9 | 292.9 | 335.6 | 321.1 | 313.9 |
| 77.5° | 199.6 | 246.9 | 264.7 | 244.3 | 233.1 |
| 80° | 149.1 | 195.1 | 193.7 | 167.5 | 161.6 |
| 82.5° | 100.5 | 135.9 | 116.2 | 94.6 | 82.7 |
| 85° | 53.9 | 72.2 | 49.3 | 34.2 | 32.2 |
| 87.5° | 20.4 | 17.1 | 13.1 | 11.8 | 11.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)