

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: P289684

Luminaire Tested: **8SSRK-40-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-40-L930-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 90 CRI 3000K CCT LEDs
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3474.7 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

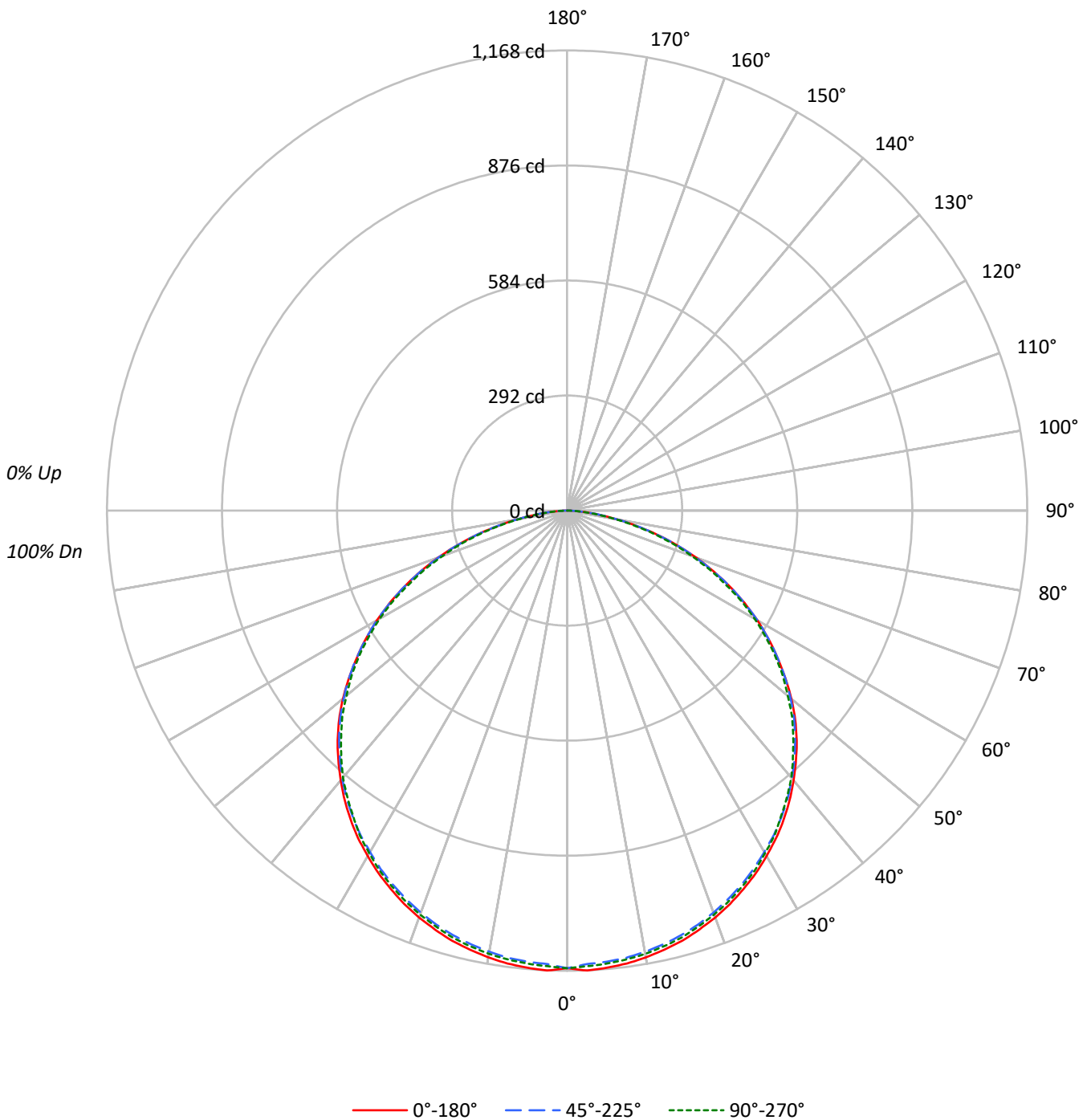
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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 | 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 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 | | | | | 84 | | | |
| 2 | 99 | 90 | 83 | 78 | 96 | 88 | 82 | 77 | 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 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | 49 | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 | | | | | 42 | | | |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 46 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 | | | | | 37 | | | |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | 33 | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 | | | | | 29 | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 23 | | | | | 23 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 37513 | 37513 | 37513 |
| 5° | 37685 | 29836 | 27719 |
| 10° | 37626 | 24837 | 21970 |
| 15° | 37577 | 21180 | 18110 |
| 20° | 37482 | 18340 | 15266 |
| 25° | 37394 | 16047 | 13087 |
| 30° | 37297 | 14123 | 11315 |
| 35° | 37226 | 12508 | 9822 |
| 40° | 37050 | 11055 | 8565 |
| 45° | 36866 | 9725 | 7412 |
| 50° | 36426 | 8476 | 6367 |
| 55° | 35641 | 7260 | 5413 |
| 60° | 34751 | 6077 | 4483 |
| 65° | 33264 | 4901 | 3540 |
| 70° | 31131 | 3703 | 2643 |
| 75° | 27367 | 2532 | 1789 |
| 80° | 21653 | 1414 | 966 |
| 85° | 13945 | 511 | 318 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.1 | 3.2 |
| 10°-20° | 317.2 | 9.1 |
| 20°-30° | 486.1 | 14.0 |
| 30°-40° | 595.8 | 17.1 |
| 40°-50° | 631.2 | 18.2 |
| 50°-60° | 582.0 | 16.8 |
| 60°-70° | 447.3 | 12.9 |
| 70°-80° | 247.9 | 7.1 |
| 80°-90° | 57.0 | 1.6 |
| 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° | 913.4 | 26.3 |
| 0°-40° | 1509.2 | 43.4 |
| 0°-60° | 2722.5 | 78.4 |
| 0°-90° | 3474.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3474.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1162 | 1162 | 1162 | 1162 | 1162 | |
| 5° | 1165 | 1160 | 1149 | 1160 | 1154 | 111 |
| 15° | 1130 | 1125 | 1116 | 1126 | 1122 | 319 |
| 25° | 1060 | 1056 | 1048 | 1058 | 1052 | 489 |
| 35° | 958 | 954 | 949 | 952 | 947 | 599 |
| 45° | 824 | 821 | 818 | 817 | 812 | 635 |
| 55° | 652 | 657 | 653 | 650 | 645 | 583 |
| 65° | 455 | 456 | 455 | 449 | 444 | 450 |
| 75° | 236 | 237 | 236 | 232 | 228 | 250 |
| 85° | 47 | 47 | 46 | 44 | 40 | 58 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1161.7 | 1161.7 | 1161.7 | 1161.7 | 1161.7 |
| 2.5° | 1168.5 | 1162.8 | 1152.1 | 1162.8 | 1157.5 |
| 5° | 1164.7 | 1159.7 | 1149.4 | 1160.5 | 1154.4 |
| 7.5° | 1159.4 | 1155.2 | 1144.9 | 1155.5 | 1149.4 |
| 10° | 1151.7 | 1147.1 | 1137.2 | 1148.7 | 1142.6 |
| 12.5° | 1141.4 | 1137.2 | 1127.7 | 1138.4 | 1133.0 |
| 15° | 1130.3 | 1125.0 | 1116.2 | 1126.1 | 1122.3 |
| 17.5° | 1115.1 | 1110.9 | 1102.1 | 1111.6 | 1107.4 |
| 20° | 1099.0 | 1094.8 | 1086.0 | 1095.6 | 1091.0 |
| 22.5° | 1080.7 | 1076.5 | 1067.3 | 1077.6 | 1073.1 |
| 25° | 1059.7 | 1055.9 | 1047.5 | 1058.2 | 1052.4 |
| 27.5° | 1037.5 | 1034.5 | 1025.3 | 1034.1 | 1030.7 |
| 30° | 1012.3 | 1010.4 | 1000.5 | 1007.4 | 1004.3 |
| 32.5° | 986.8 | 983.3 | 976.4 | 981.8 | 978.7 |
| 35° | 958.1 | 953.5 | 949.0 | 952.4 | 947.0 |
| 37.5° | 927.6 | 924.5 | 919.5 | 922.6 | 916.5 |
| 40° | 894.3 | 891.7 | 887.9 | 888.6 | 885.2 |
| 42.5° | 860.0 | 856.9 | 853.9 | 852.3 | 848.5 |
| 45° | 824.1 | 821.4 | 818.4 | 817.2 | 811.5 |
| 47.5° | 785.1 | 783.2 | 781.3 | 778.6 | 774.4 |
| 50° | 743.1 | 743.9 | 740.4 | 738.2 | 730.9 |
| 52.5° | 698.1 | 702.6 | 697.7 | 694.2 | 690.0 |
| 55° | 651.9 | 656.8 | 652.6 | 649.9 | 645.4 |
| 57.5° | 606.0 | 608.3 | 605.6 | 603.7 | 597.6 |
| 60° | 557.5 | 559.4 | 557.5 | 553.3 | 550.3 |
| 62.5° | 507.5 | 509.8 | 506.0 | 502.9 | 498.7 |
| 65° | 454.8 | 456.0 | 455.2 | 449.1 | 443.7 |
| 67.5° | 401.7 | 403.6 | 401.3 | 397.1 | 391.8 |
| 70° | 348.6 | 347.5 | 345.6 | 342.5 | 335.7 |
| 72.5° | 292.5 | 292.5 | 292.1 | 286.4 | 283.0 |
| 75° | 236.4 | 236.8 | 235.6 | 231.8 | 228.4 |
| 77.5° | 180.2 | 184.4 | 181.4 | 177.6 | 173.8 |
| 80° | 130.2 | 132.9 | 130.2 | 125.3 | 123.0 |
| 82.5° | 83.2 | 87.1 | 84.8 | 79.8 | 79.0 |
| 85° | 46.6 | 47.4 | 46.2 | 43.9 | 40.1 |
| 87.5° | 17.6 | 18.3 | 18.7 | 15.3 | 13.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)