

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: P289661

Luminaire Tested: **4SSRK-40-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289661
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: 4SSRK-40-L935-CD1-U
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 90 CRI 3500K CCT LEDs
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3712.6 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

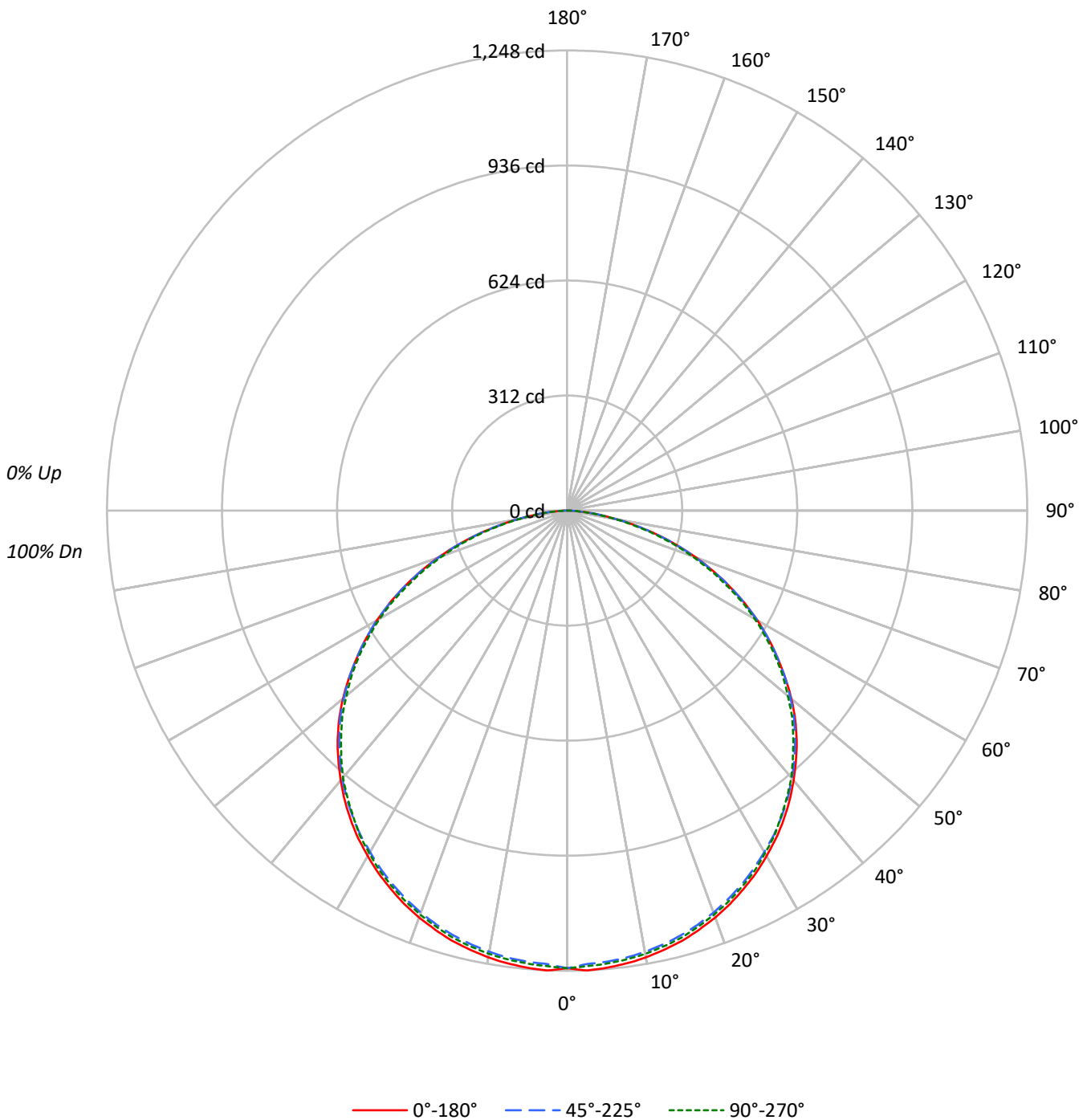
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 |
| 2 | 99 | 90 | 83 | 78 | 96 | 88 | 82 | 77 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 64 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 46 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 80160 | 80160 | 80160 |
| 5° | 80381 | 63692 | 59232 |
| 10° | 80113 | 52985 | 46947 |
| 15° | 79857 | 45158 | 38701 |
| 20° | 79501 | 39091 | 32622 |
| 25° | 79142 | 34190 | 27967 |
| 30° | 78764 | 30083 | 24181 |
| 35° | 78422 | 26636 | 20990 |
| 40° | 77842 | 23535 | 18304 |
| 45° | 77203 | 20701 | 15837 |
| 50° | 76002 | 18041 | 13605 |
| 55° | 74019 | 15451 | 11566 |
| 60° | 71765 | 12932 | 9578 |
| 65° | 68163 | 10427 | 7564 |
| 70° | 63113 | 7878 | 5648 |
| 75° | 54549 | 5384 | 3822 |
| 80° | 41846 | 3006 | 2063 |
| 85° | 24997 | 1087 | 679 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 117.6 | 3.2 |
| 10°-20° | 338.9 | 9.1 |
| 20°-30° | 519.4 | 14.0 |
| 30°-40° | 636.6 | 17.1 |
| 40°-50° | 674.4 | 18.2 |
| 50°-60° | 621.9 | 16.8 |
| 60°-70° | 477.9 | 12.9 |
| 70°-80° | 264.9 | 7.1 |
| 80°-90° | 60.9 | 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° | 975.9 | 26.3 |
| 0°-40° | 1612.5 | 43.4 |
| 0°-60° | 2908.8 | 78.4 |
| 0°-90° | 3712.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3712.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1241 | 1241 | 1241 | 1241 | 1241 | |
| 5° | 1244 | 1239 | 1228 | 1240 | 1233 | 118 |
| 15° | 1208 | 1202 | 1193 | 1203 | 1199 | 341 |
| 25° | 1132 | 1128 | 1119 | 1131 | 1124 | 522 |
| 35° | 1024 | 1019 | 1014 | 1018 | 1012 | 640 |
| 45° | 880 | 878 | 874 | 873 | 867 | 678 |
| 55° | 696 | 702 | 697 | 694 | 690 | 623 |
| 65° | 486 | 487 | 486 | 480 | 474 | 480 |
| 75° | 253 | 253 | 252 | 248 | 244 | 267 |
| 85° | 50 | 51 | 49 | 47 | 43 | 62 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P289661

CATALOG NUMBER: 4SSRK-40-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1241.2 | 1241.2 | 1241.2 | 1241.2 | 1241.2 |
| 2.5° | 1248.5 | 1242.4 | 1231.0 | 1242.4 | 1236.7 |
| 5° | 1244.4 | 1239.1 | 1228.1 | 1240.0 | 1233.4 |
| 7.5° | 1238.7 | 1234.2 | 1223.2 | 1234.7 | 1228.1 |
| 10° | 1230.6 | 1225.7 | 1215.1 | 1227.3 | 1220.8 |
| 12.5° | 1219.6 | 1215.1 | 1204.9 | 1216.3 | 1210.6 |
| 15° | 1207.7 | 1202.0 | 1192.6 | 1203.2 | 1199.2 |
| 17.5° | 1191.4 | 1186.9 | 1177.5 | 1187.7 | 1183.2 |
| 20° | 1174.3 | 1169.8 | 1160.4 | 1170.6 | 1165.7 |
| 22.5° | 1154.7 | 1150.2 | 1140.4 | 1151.4 | 1146.5 |
| 25° | 1132.2 | 1128.2 | 1119.2 | 1130.6 | 1124.5 |
| 27.5° | 1108.6 | 1105.3 | 1095.5 | 1104.9 | 1101.2 |
| 30° | 1081.6 | 1079.6 | 1069.0 | 1076.3 | 1073.1 |
| 32.5° | 1054.3 | 1050.6 | 1043.3 | 1049.0 | 1045.7 |
| 35° | 1023.7 | 1018.8 | 1013.9 | 1017.6 | 1011.9 |
| 37.5° | 991.1 | 987.8 | 982.5 | 985.8 | 979.2 |
| 40° | 955.6 | 952.7 | 948.6 | 949.4 | 945.8 |
| 42.5° | 918.8 | 915.6 | 912.3 | 910.7 | 906.6 |
| 45° | 880.5 | 877.6 | 874.4 | 873.2 | 867.0 |
| 47.5° | 838.9 | 836.8 | 834.8 | 831.9 | 827.5 |
| 50° | 794.0 | 794.8 | 791.1 | 788.7 | 780.9 |
| 52.5° | 745.9 | 750.7 | 745.4 | 741.8 | 737.3 |
| 55° | 696.5 | 701.8 | 697.3 | 694.4 | 689.5 |
| 57.5° | 647.5 | 650.0 | 647.1 | 645.1 | 638.5 |
| 60° | 595.7 | 597.7 | 595.7 | 591.2 | 587.9 |
| 62.5° | 542.3 | 544.7 | 540.6 | 537.4 | 532.9 |
| 65° | 485.9 | 487.2 | 486.4 | 479.8 | 474.1 |
| 67.5° | 429.2 | 431.3 | 428.8 | 424.3 | 418.6 |
| 70° | 372.5 | 371.3 | 369.3 | 366.0 | 358.6 |
| 72.5° | 312.5 | 312.5 | 312.1 | 306.0 | 302.3 |
| 75° | 252.6 | 253.0 | 251.7 | 247.7 | 244.0 |
| 77.5° | 192.6 | 197.1 | 193.8 | 189.7 | 185.6 |
| 80° | 139.1 | 142.0 | 139.1 | 133.8 | 131.4 |
| 82.5° | 88.9 | 93.0 | 90.6 | 85.3 | 84.5 |
| 85° | 49.8 | 50.6 | 49.4 | 46.9 | 42.8 |
| 87.5° | 18.8 | 19.6 | 20.0 | 16.3 | 14.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)