

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: P290359

Luminaire Tested: **4SSRK-SLN-30-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-SLN-30-L950-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2897.3 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

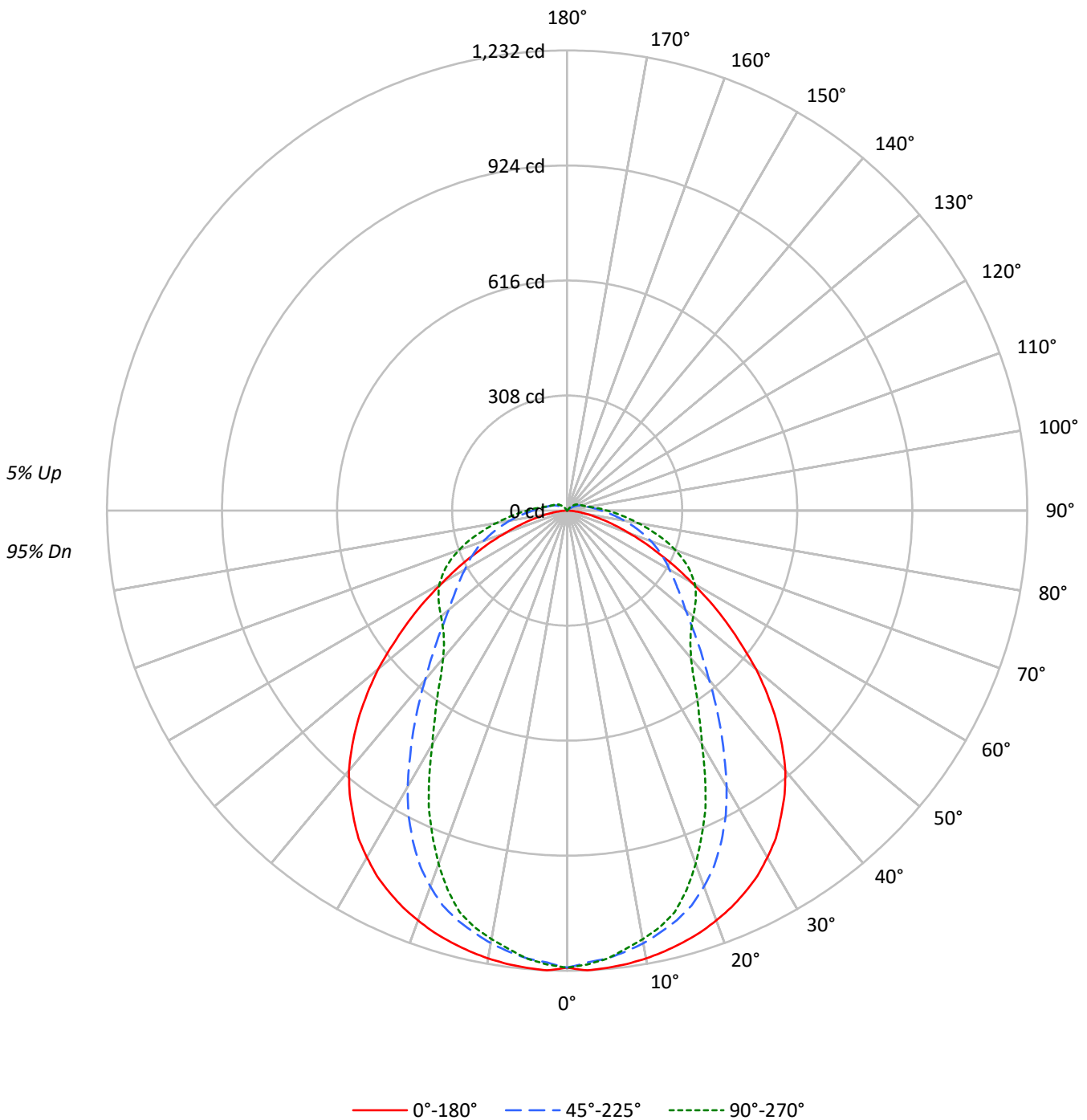
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 108 | 108 | 108 | 103 | 103 | 103 | 98 | 98 | 98 | 95 |
| 1 | 107 | 102 | 98 | 94 | 104 | 100 | 96 | 92 | 94 | 91 | 88 | 90 | 87 | 85 | 85 | 83 | 81 | 79 |
| 2 | 98 | 90 | 83 | 77 | 95 | 87 | 81 | 76 | 83 | 78 | 73 | 79 | 75 | 71 | 75 | 72 | 69 | 66 |
| 3 | 90 | 79 | 71 | 65 | 87 | 77 | 70 | 64 | 74 | 67 | 62 | 70 | 65 | 60 | 67 | 63 | 59 | 56 |
| 4 | 82 | 71 | 62 | 56 | 80 | 69 | 61 | 55 | 66 | 59 | 54 | 63 | 57 | 52 | 60 | 55 | 51 | 49 |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 52 | 47 | 57 | 51 | 46 | 55 | 49 | 45 | 43 |
| 6 | 71 | 58 | 49 | 43 | 68 | 56 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 50 | 45 | 40 | 38 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 42 | 37 | 48 | 41 | 37 | 46 | 40 | 36 | 34 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 37 | 31 | 56 | 44 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 34 | 28 | 53 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 37 | 31 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 79030 | 79030 | 79030 |
| 5° | 79393 | 62442 | 57869 |
| 10° | 79254 | 51289 | 44809 |
| 15° | 79149 | 42992 | 35919 |
| 20° | 79068 | 36082 | 28167 |
| 25° | 78800 | 29837 | 21801 |
| 30° | 78073 | 24038 | 16270 |
| 35° | 76491 | 18852 | 12546 |
| 40° | 74030 | 14658 | 9982 |
| 45° | 69408 | 11641 | 8542 |
| 50° | 63185 | 9434 | 7680 |
| 55° | 55177 | 7981 | 7052 |
| 60° | 46370 | 6873 | 6440 |
| 65° | 37806 | 5970 | 5709 |
| 70° | 29939 | 5083 | 4844 |
| 75° | 22631 | 4195 | 3912 |
| 80° | 15824 | 3363 | 3023 |
| 85° | 9236 | 2630 | 2298 |



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CATALOG NUMBER: 4SSRK-SLN-30-L950-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 114.9 | 4.0 |
| 10°-20° | 322.1 | 11.1 |
| 20°-30° | 453.0 | 15.6 |
| 30°-40° | 474.3 | 16.4 |
| 40°-50° | 429.4 | 14.8 |
| 50°-60° | 365.5 | 12.6 |
| 60°-70° | 289.0 | 10.0 |
| 70°-80° | 196.8 | 6.8 |
| 80°-90° | 112.3 | 3.9 |
| 90°-100° | 62.3 | 2.1 |
| 100°-110° | 38.0 | 1.3 |
| 110°-120° | 23.1 | 0.8 |
| 120°-130° | 12.5 | 0.4 |
| 130°-140° | 3.8 | 0.1 |
| 140°-150° | 0.1 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 890.0 | 30.7 |
| 0°-40° | 1364.4 | 47.1 |
| 0°-60° | 2159.3 | 74.5 |
| 0°-90° | 2757.4 | 95.2 |
| 90°-120° | 123.5 | 4.3 |
| 90°-150° | 139.9 | 4.8 |
| 90°-180° | 140.0 | 4.8 |
| 0°-180° | 2897.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1224 | 1224 | 1224 | 1224 | 1224 | |
| 5° | 1229 | 1221 | 1204 | 1209 | 1205 | 117 |
| 15° | 1197 | 1174 | 1135 | 1124 | 1113 | 338 |
| 25° | 1127 | 1071 | 977 | 901 | 877 | 519 |
| 35° | 998 | 886 | 718 | 628 | 605 | 624 |
| 45° | 792 | 629 | 492 | 466 | 468 | 608 |
| 55° | 519 | 396 | 360 | 402 | 420 | 464 |
| 65° | 270 | 234 | 278 | 340 | 358 | 271 |
| 75° | 105 | 128 | 196 | 241 | 250 | 114 |
| 85° | 18 | 61 | 120 | 143 | 145 | 22 |
| 90° | 0 | 42 | 91 | 106 | 106 | 1 |
| 95° | 1 | 32 | 72 | 80 | 79 | 1 |
| 105° | 1 | 20 | 48 | 50 | 48 | 1 |
| 115° | 1 | 3 | 32 | 38 | 37 | 0 |
| 125° | 0 | 1 | 15 | 26 | 28 | 0 |
| 135° | 1 | 1 | 1 | 11 | 14 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P290359

CATALOG NUMBER: 4SSRK-SLN-30-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1223.7 | 1223.7 | 1223.7 | 1223.7 | 1223.7 |
| 2.5° | 1232.1 | 1225.4 | 1211.4 | 1220.4 | 1216.4 |
| 5° | 1229.1 | 1221.4 | 1204.0 | 1209.4 | 1205.0 |
| 7.5° | 1224.4 | 1214.0 | 1191.6 | 1193.3 | 1184.9 |
| 10° | 1217.4 | 1204.0 | 1176.2 | 1173.2 | 1165.2 |
| 12.5° | 1208.4 | 1189.9 | 1156.5 | 1152.5 | 1143.1 |
| 15° | 1197.0 | 1174.2 | 1135.4 | 1123.7 | 1113.0 |
| 17.5° | 1184.3 | 1155.5 | 1108.3 | 1082.2 | 1063.8 |
| 20° | 1167.9 | 1131.4 | 1071.1 | 1033.3 | 1006.5 |
| 22.5° | 1149.4 | 1105.3 | 1029.3 | 972.4 | 941.9 |
| 25° | 1127.3 | 1071.4 | 976.7 | 901.1 | 876.6 |
| 27.5° | 1102.9 | 1036.3 | 919.5 | 831.1 | 798.7 |
| 30° | 1072.1 | 991.8 | 854.2 | 759.5 | 722.0 |
| 32.5° | 1040.0 | 943.9 | 783.3 | 687.9 | 658.7 |
| 35° | 998.5 | 886.0 | 717.6 | 627.9 | 604.8 |
| 37.5° | 956.6 | 824.1 | 652.4 | 574.4 | 554.0 |
| 40° | 908.8 | 761.5 | 590.8 | 530.2 | 515.8 |
| 42.5° | 851.9 | 697.9 | 538.6 | 493.0 | 488.0 |
| 45° | 791.6 | 628.6 | 491.7 | 465.9 | 467.6 |
| 47.5° | 726.0 | 565.7 | 449.2 | 444.2 | 452.5 |
| 50° | 660.1 | 507.1 | 413.7 | 427.8 | 440.8 |
| 52.5° | 586.8 | 450.5 | 385.6 | 414.4 | 430.1 |
| 55° | 519.2 | 396.3 | 360.2 | 401.7 | 420.4 |
| 57.5° | 451.9 | 350.1 | 338.1 | 388.6 | 408.4 |
| 60° | 384.9 | 307.9 | 316.6 | 374.6 | 395.3 |
| 62.5° | 326.7 | 267.8 | 297.9 | 358.8 | 376.9 |
| 65° | 269.5 | 234.0 | 278.5 | 340.1 | 357.8 |
| 67.5° | 221.9 | 203.8 | 259.1 | 317.7 | 333.7 |
| 70° | 176.7 | 175.4 | 238.3 | 292.9 | 307.6 |
| 72.5° | 137.9 | 149.6 | 216.6 | 267.1 | 281.2 |
| 75° | 104.8 | 127.5 | 196.1 | 241.0 | 249.7 |
| 77.5° | 76.7 | 106.8 | 175.4 | 214.6 | 220.6 |
| 80° | 52.6 | 88.7 | 155.6 | 188.1 | 192.5 |
| 82.5° | 33.1 | 73.3 | 136.6 | 164.3 | 167.4 |
| 85° | 18.4 | 60.6 | 119.5 | 142.9 | 144.9 |
| 87.5° | 7.0 | 49.9 | 104.1 | 124.2 | 125.9 |
| 90° | 0.3 | 42.2 | 91.4 | 106.4 | 106.4 |
| 92.5° | 0.3 | 36.8 | 81.0 | 92.4 | 93.1 |
| 95° | 0.7 | 32.5 | 72.0 | 79.7 | 79.0 |
| 97.5° | 0.7 | 29.5 | 63.6 | 70.0 | 67.9 |
| 100° | 0.7 | 26.8 | 57.2 | 61.6 | 59.6 |
| 102.5° | 0.7 | 23.8 | 52.2 | 54.9 | 52.6 |
| 105° | 0.7 | 19.7 | 48.2 | 50.2 | 48.2 |
| 107.5° | 0.7 | 15.7 | 43.8 | 46.5 | 44.5 |
| 110° | 0.7 | 11.7 | 39.8 | 43.2 | 41.5 |



TEST NUMBER: P290359

CATALOG NUMBER: 4SSRK-SLN-30-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.3 | 7.4 | 36.2 | 40.2 | 39.2 |
| 115° | 0.7 | 2.7 | 32.5 | 37.8 | 36.8 |
| 117.5° | 0.3 | 1.3 | 27.8 | 35.1 | 34.8 |
| 120° | 0.3 | 1.0 | 23.4 | 32.8 | 32.8 |
| 122.5° | 0.3 | 1.0 | 19.4 | 29.5 | 30.8 |
| 125° | 0.3 | 0.7 | 14.7 | 26.1 | 27.8 |
| 127.5° | 0.3 | 0.7 | 10.4 | 22.8 | 24.8 |
| 130° | 0.3 | 0.7 | 5.4 | 18.7 | 21.4 |
| 132.5° | 0.3 | 0.7 | 0.7 | 14.7 | 17.7 |
| 135° | 0.7 | 0.7 | 0.7 | 10.7 | 14.1 |
| 137.5° | 0.7 | 0.7 | 0.7 | 5.7 | 10.0 |
| 140° | 0.7 | 0.7 | 0.3 | 0.3 | 4.7 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)