

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: P290422

Luminaire Tested: **8SSRK-SLN-10-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290422
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: 8SSRK-SLN-10-L940-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9124.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

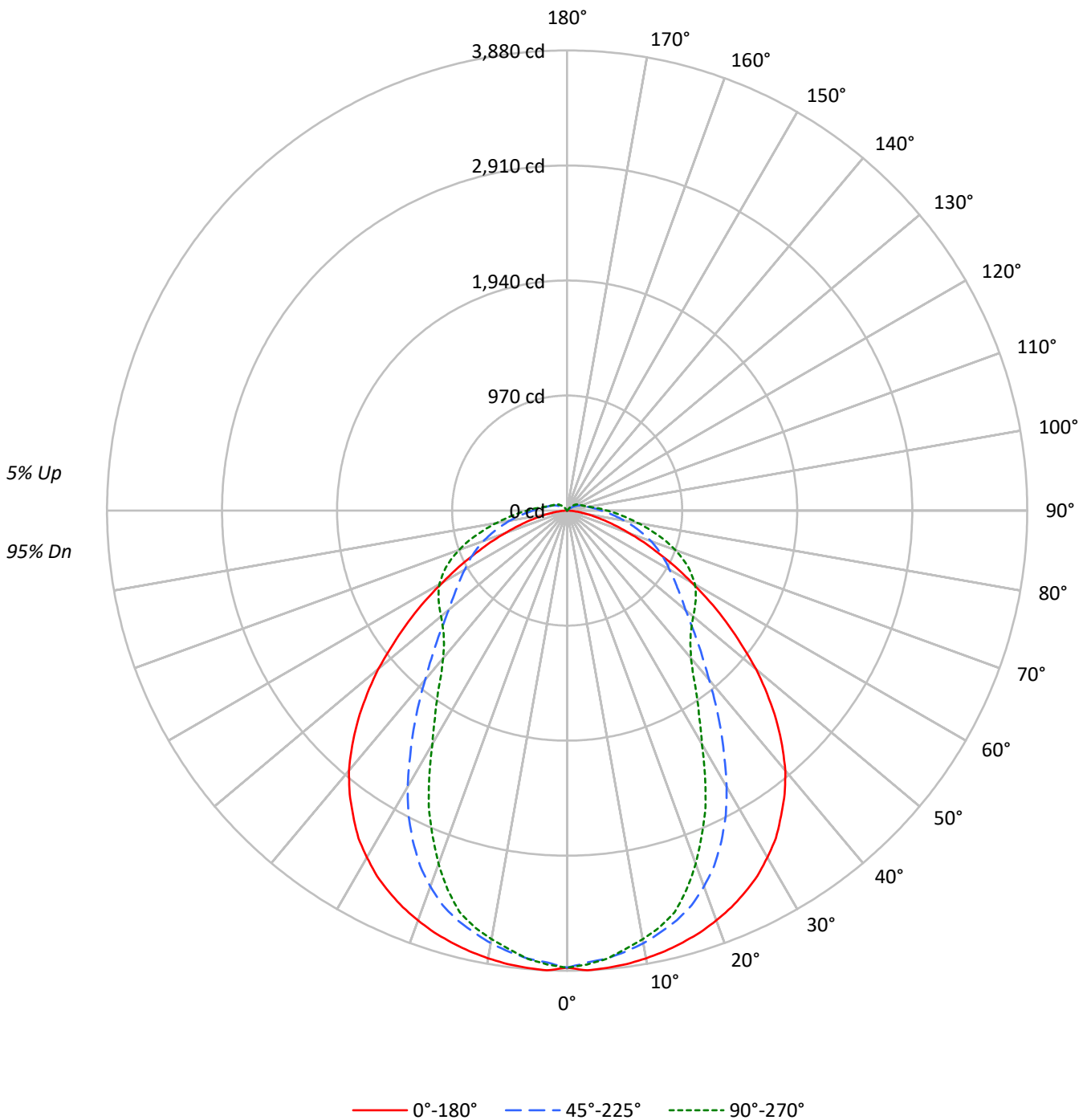
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290422

CATALOG NUMBER: 8SSRK-SLN-10-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290422

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 70 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 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° | 124445 | 124445 | 124445 |
| 5° | 125240 | 98422 | 91120 |
| 10° | 125249 | 80899 | 70553 |
| 15° | 125317 | 67845 | 56555 |
| 20° | 125432 | 56965 | 44352 |
| 25° | 125276 | 47121 | 34330 |
| 30° | 124396 | 37973 | 25618 |
| 35° | 122172 | 29788 | 19756 |
| 40° | 118567 | 23164 | 15718 |
| 45° | 111520 | 18400 | 13450 |
| 50° | 101897 | 14915 | 12093 |
| 55° | 89383 | 12618 | 11104 |
| 60° | 75561 | 10871 | 10141 |
| 65° | 62060 | 9442 | 8989 |
| 70° | 49706 | 8042 | 7628 |
| 75° | 38191 | 6638 | 6160 |
| 80° | 27524 | 5323 | 4759 |
| 85° | 17356 | 4162 | 3619 |



TEST NUMBER: P290422

CATALOG NUMBER: 8SSRK-SLN-10-L940-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 361.9 | 4.0 |
| 10°-20° | 1014.4 | 11.1 |
| 20°-30° | 1426.5 | 15.6 |
| 30°-40° | 1493.8 | 16.4 |
| 40°-50° | 1352.4 | 14.8 |
| 50°-60° | 1151.1 | 12.6 |
| 60°-70° | 910.2 | 10.0 |
| 70°-80° | 619.7 | 6.8 |
| 80°-90° | 353.6 | 3.9 |
| 90°-100° | 196.1 | 2.1 |
| 100°-110° | 119.8 | 1.3 |
| 110°-120° | 72.8 | 0.8 |
| 120°-130° | 39.5 | 0.4 |
| 130°-140° | 11.9 | 0.1 |
| 140°-150° | 0.3 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2802.8 | 30.7 |
| 0°-40° | 4296.6 | 47.1 |
| 0°-60° | 6800.0 | 74.5 |
| 0°-90° | 8683.5 | 95.2 |
| 90°-120° | 388.8 | 4.3 |
| 90°-150° | 440.5 | 4.8 |
| 90°-180° | 440.0 | 4.8 |
| 0°-180° | 9124.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3854 | 3854 | 3854 | 3854 | 3854 | |
| 5° | 3871 | 3846 | 3792 | 3808 | 3795 | 368 |
| 15° | 3770 | 3698 | 3576 | 3539 | 3505 | 1065 |
| 25° | 3550 | 3374 | 3076 | 2838 | 2761 | 1636 |
| 35° | 3144 | 2790 | 2260 | 1978 | 1905 | 1965 |
| 45° | 2493 | 1980 | 1548 | 1467 | 1473 | 1915 |
| 55° | 1635 | 1248 | 1134 | 1265 | 1324 | 1462 |
| 65° | 848 | 737 | 877 | 1071 | 1127 | 855 |
| 75° | 330 | 402 | 618 | 759 | 786 | 360 |
| 85° | 58 | 191 | 376 | 450 | 456 | 70 |
| 90° | 1 | 133 | 288 | 335 | 335 | 3 |
| 95° | 2 | 102 | 227 | 251 | 249 | 2 |
| 105° | 2 | 62 | 152 | 158 | 152 | 2 |
| 115° | 2 | 8 | 102 | 119 | 116 | 1 |
| 125° | 1 | 2 | 46 | 82 | 88 | 1 |
| 135° | 2 | 2 | 2 | 34 | 44 | 1 |
| 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: P290422

CATALOG NUMBER: 8SSRK-SLN-10-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3853.8 | 3853.8 | 3853.8 | 3853.8 | 3853.8 |
| 2.5° | 3880.1 | 3859.1 | 3814.8 | 3843.2 | 3830.6 |
| 5° | 3870.7 | 3846.4 | 3791.6 | 3808.5 | 3794.8 |
| 7.5° | 3855.9 | 3823.2 | 3752.6 | 3757.9 | 3731.5 |
| 10° | 3833.8 | 3791.6 | 3704.1 | 3694.6 | 3669.3 |
| 12.5° | 3805.3 | 3747.3 | 3641.9 | 3629.3 | 3599.7 |
| 15° | 3769.5 | 3697.8 | 3575.5 | 3538.6 | 3504.9 |
| 17.5° | 3729.4 | 3638.7 | 3490.1 | 3407.9 | 3349.9 |
| 20° | 3677.8 | 3562.9 | 3373.1 | 3254.0 | 3169.7 |
| 22.5° | 3619.8 | 3480.6 | 3241.4 | 3062.2 | 2966.2 |
| 25° | 3550.2 | 3374.2 | 3075.9 | 2837.6 | 2760.7 |
| 27.5° | 3473.3 | 3263.5 | 2895.6 | 2617.3 | 2515.1 |
| 30° | 3376.3 | 3123.3 | 2690.1 | 2391.8 | 2273.7 |
| 32.5° | 3275.1 | 2972.6 | 2466.6 | 2166.2 | 2074.5 |
| 35° | 3144.4 | 2790.2 | 2260.0 | 1977.5 | 1904.8 |
| 37.5° | 3012.6 | 2595.2 | 2054.4 | 1808.8 | 1744.5 |
| 40° | 2861.9 | 2398.1 | 1860.5 | 1669.7 | 1624.4 |
| 42.5° | 2682.7 | 2197.8 | 1696.0 | 1552.7 | 1536.9 |
| 45° | 2492.9 | 1979.6 | 1548.5 | 1467.3 | 1472.6 |
| 47.5° | 2286.3 | 1781.4 | 1414.6 | 1398.8 | 1425.1 |
| 50° | 2078.7 | 1597.0 | 1302.9 | 1347.1 | 1388.2 |
| 52.5° | 1847.8 | 1418.8 | 1214.3 | 1305.0 | 1354.5 |
| 55° | 1634.9 | 1248.1 | 1134.2 | 1264.9 | 1323.9 |
| 57.5° | 1423.0 | 1102.6 | 1064.6 | 1223.8 | 1286.0 |
| 60° | 1212.2 | 969.8 | 997.2 | 1179.5 | 1244.9 |
| 62.5° | 1028.8 | 843.3 | 938.1 | 1130.0 | 1186.9 |
| 65° | 848.5 | 736.8 | 877.0 | 1071.0 | 1126.8 |
| 67.5° | 698.9 | 641.9 | 815.9 | 1000.3 | 1050.9 |
| 70° | 556.6 | 552.3 | 750.5 | 922.3 | 968.7 |
| 72.5° | 434.3 | 471.2 | 682.0 | 841.2 | 885.4 |
| 75° | 329.9 | 401.6 | 617.7 | 759.0 | 786.4 |
| 77.5° | 241.4 | 336.3 | 552.3 | 675.7 | 694.7 |
| 80° | 165.5 | 279.3 | 490.2 | 592.4 | 606.1 |
| 82.5° | 104.4 | 230.8 | 430.1 | 517.6 | 527.0 |
| 85° | 58.0 | 190.8 | 376.3 | 450.1 | 456.4 |
| 87.5° | 22.1 | 157.1 | 327.8 | 391.1 | 396.3 |
| 90° | 1.1 | 132.8 | 287.8 | 335.2 | 335.2 |
| 92.5° | 1.1 | 116.0 | 255.1 | 290.9 | 293.0 |
| 95° | 2.1 | 102.2 | 226.6 | 250.9 | 248.8 |
| 97.5° | 2.1 | 92.8 | 200.3 | 220.3 | 214.0 |
| 100° | 2.1 | 84.3 | 180.3 | 194.0 | 187.6 |
| 102.5° | 2.1 | 74.8 | 164.4 | 172.9 | 165.5 |
| 105° | 2.1 | 62.2 | 151.8 | 158.1 | 151.8 |
| 107.5° | 2.1 | 49.5 | 138.1 | 146.5 | 140.2 |
| 110° | 2.1 | 36.9 | 125.4 | 136.0 | 130.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.1 | 23.2 | 113.8 | 126.5 | 123.3 |
| 115° | 2.1 | 8.4 | 102.2 | 119.1 | 116.0 |
| 117.5° | 1.1 | 4.2 | 87.5 | 110.7 | 109.6 |
| 120° | 1.1 | 3.2 | 73.8 | 103.3 | 103.3 |
| 122.5° | 1.1 | 3.2 | 61.1 | 92.8 | 97.0 |
| 125° | 1.1 | 2.1 | 46.4 | 82.2 | 87.5 |
| 127.5° | 1.1 | 2.1 | 32.7 | 71.7 | 78.0 |
| 130° | 1.1 | 2.1 | 16.9 | 59.0 | 67.5 |
| 132.5° | 1.1 | 2.1 | 2.1 | 46.4 | 55.9 |
| 135° | 2.1 | 2.1 | 2.1 | 33.7 | 44.3 |
| 137.5° | 2.1 | 2.1 | 2.1 | 17.9 | 31.6 |
| 140° | 2.1 | 2.1 | 1.1 | 1.1 | 14.8 |
| 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)