

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: P290426

Luminaire Tested: **8SSRK-SLN-10-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290426
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-L840-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10784.9 lumens
Efficiency: N/A
Efficacy: 150.0 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

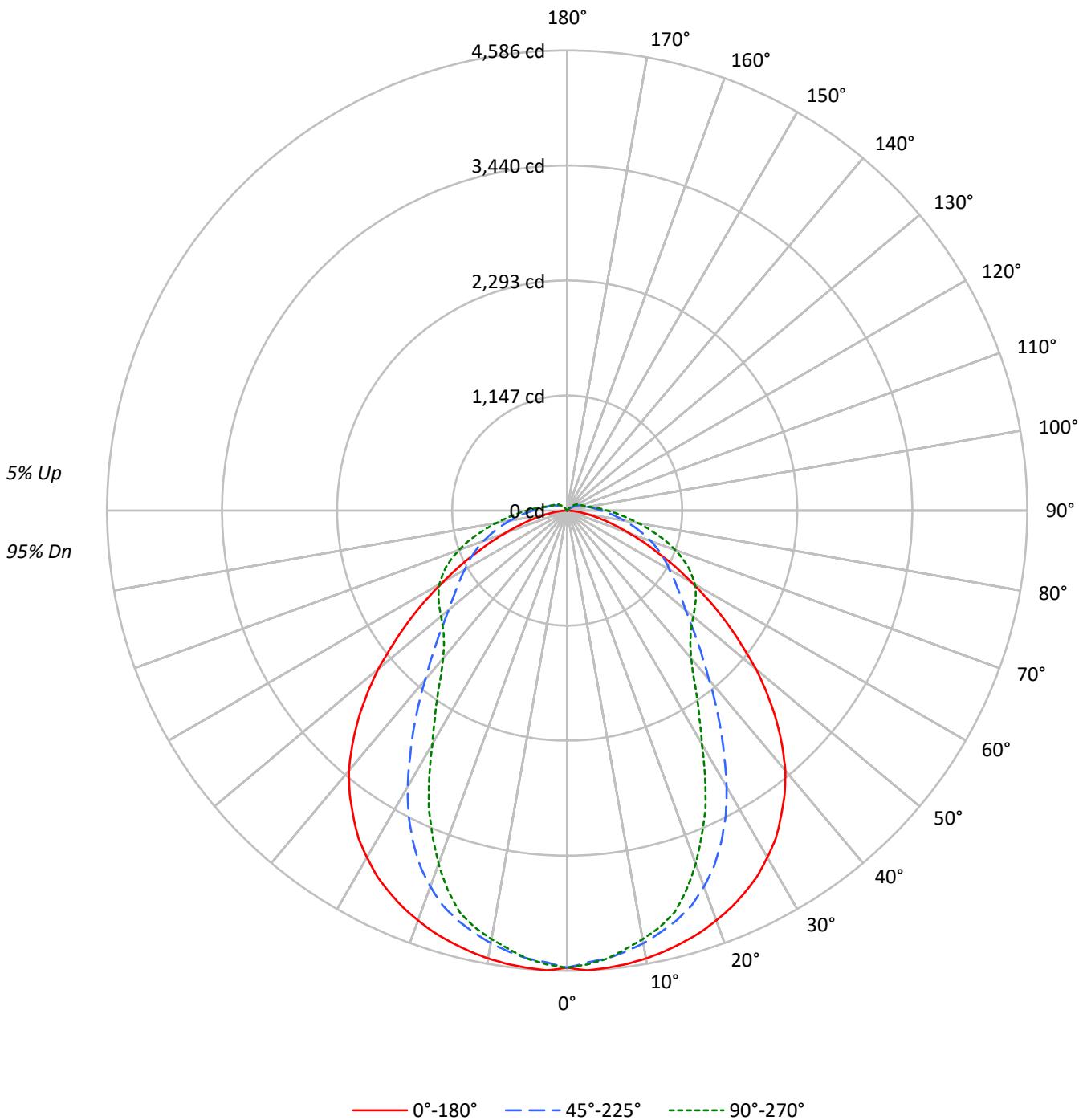
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P290426

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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 | 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° | 147097 | 147097 | 147097 |
| 5° | 148035 | 116338 | 107705 |
| 10° | 148046 | 95626 | 83398 |
| 15° | 148127 | 80196 | 66850 |
| 20° | 148262 | 67334 | 52426 |
| 25° | 148082 | 55699 | 40579 |
| 30° | 147040 | 44884 | 30281 |
| 35° | 144412 | 35211 | 23352 |
| 40° | 140147 | 27381 | 18579 |
| 45° | 131821 | 21749 | 15898 |
| 50° | 120446 | 17630 | 14295 |
| 55° | 105653 | 14916 | 13126 |
| 60° | 89318 | 12849 | 11987 |
| 65° | 73360 | 11161 | 10626 |
| 70° | 58752 | 9505 | 9017 |
| 75° | 45148 | 7845 | 7281 |
| 80° | 32530 | 6292 | 5625 |
| 85° | 20498 | 4920 | 4278 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 427.8 | 4.0 |
| 10°-20° | 1199.1 | 11.1 |
| 20°-30° | 1686.1 | 15.6 |
| 30°-40° | 1765.7 | 16.4 |
| 40°-50° | 1598.6 | 14.8 |
| 50°-60° | 1360.6 | 12.6 |
| 60°-70° | 1075.9 | 10.0 |
| 70°-80° | 732.5 | 6.8 |
| 80°-90° | 418.0 | 3.9 |
| 90°-100° | 231.8 | 2.1 |
| 100°-110° | 141.6 | 1.3 |
| 110°-120° | 86.1 | 0.8 |
| 120°-130° | 46.6 | 0.4 |
| 130°-140° | 14.1 | 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° | 3313.0 | 30.7 |
| 0°-40° | 5078.7 | 47.1 |
| 0°-60° | 8037.9 | 74.5 |
| 0°-90° | 10264.2 | 95.2 |
| 90°-120° | 459.6 | 4.3 |
| 90°-150° | 520.6 | 4.8 |
| 90°-180° | 521.0 | 4.8 |
| 0°-180° | 10784.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4555 | 4555 | 4555 | 4555 | 4555 | |
| 5° | 4575 | 4547 | 4482 | 4502 | 4486 | 435 |
| 15° | 4456 | 4371 | 4226 | 4183 | 4143 | 1259 |
| 25° | 4196 | 3988 | 3636 | 3354 | 3263 | 1933 |
| 35° | 3717 | 3298 | 2671 | 2338 | 2252 | 2322 |
| 45° | 2947 | 2340 | 1830 | 1734 | 1741 | 2263 |
| 55° | 1932 | 1475 | 1341 | 1495 | 1565 | 1728 |
| 65° | 1003 | 871 | 1037 | 1266 | 1332 | 1010 |
| 75° | 390 | 475 | 730 | 897 | 930 | 425 |
| 85° | 68 | 226 | 445 | 532 | 540 | 82 |
| 90° | 1 | 157 | 340 | 396 | 396 | 4 |
| 95° | 2 | 121 | 268 | 296 | 294 | 2 |
| 105° | 2 | 74 | 179 | 187 | 179 | 3 |
| 115° | 2 | 10 | 121 | 141 | 137 | 2 |
| 125° | 1 | 2 | 55 | 97 | 103 | 1 |
| 135° | 2 | 2 | 2 | 40 | 52 | 2 |
| 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: P290426

CATALOG NUMBER: 8SSRK-SLN-10-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4555.3 | 4555.3 | 4555.3 | 4555.3 | 4555.3 |
| 2.5° | 4586.5 | 4561.5 | 4509.2 | 4542.8 | 4527.9 |
| 5° | 4575.2 | 4546.6 | 4481.8 | 4501.7 | 4485.5 |
| 7.5° | 4557.8 | 4519.2 | 4435.7 | 4441.9 | 4410.8 |
| 10° | 4531.6 | 4481.8 | 4378.4 | 4367.2 | 4337.3 |
| 12.5° | 4498.0 | 4429.5 | 4304.9 | 4289.9 | 4255.0 |
| 15° | 4455.6 | 4370.9 | 4226.4 | 4182.8 | 4142.9 |
| 17.5° | 4408.3 | 4301.1 | 4125.4 | 4028.3 | 3959.7 |
| 20° | 4347.2 | 4211.4 | 3987.1 | 3846.3 | 3746.7 |
| 22.5° | 4278.7 | 4114.2 | 3831.4 | 3619.6 | 3506.2 |
| 25° | 4196.5 | 3988.4 | 3635.8 | 3354.2 | 3263.2 |
| 27.5° | 4105.5 | 3857.6 | 3422.7 | 3093.8 | 2972.9 |
| 30° | 3990.9 | 3691.8 | 3179.7 | 2827.1 | 2687.6 |
| 32.5° | 3871.3 | 3513.7 | 2915.6 | 2560.5 | 2452.1 |
| 35° | 3716.8 | 3298.1 | 2671.4 | 2337.5 | 2251.5 |
| 37.5° | 3561.0 | 3067.6 | 2428.4 | 2138.1 | 2062.1 |
| 40° | 3382.8 | 2834.6 | 2199.2 | 1973.6 | 1920.1 |
| 42.5° | 3171.0 | 2597.9 | 2004.8 | 1835.3 | 1816.6 |
| 45° | 2946.7 | 2339.9 | 1830.3 | 1734.4 | 1740.6 |
| 47.5° | 2702.5 | 2105.7 | 1672.1 | 1653.4 | 1684.6 |
| 50° | 2457.1 | 1887.7 | 1540.0 | 1592.4 | 1641.0 |
| 52.5° | 2184.2 | 1677.1 | 1435.4 | 1542.5 | 1601.1 |
| 55° | 1932.5 | 1475.2 | 1340.7 | 1495.2 | 1565.0 |
| 57.5° | 1682.1 | 1303.3 | 1258.4 | 1446.6 | 1520.1 |
| 60° | 1432.9 | 1146.3 | 1178.7 | 1394.3 | 1471.5 |
| 62.5° | 1216.1 | 996.8 | 1108.9 | 1335.7 | 1403.0 |
| 65° | 1003.0 | 870.9 | 1036.7 | 1265.9 | 1332.0 |
| 67.5° | 826.1 | 758.8 | 964.4 | 1182.4 | 1242.2 |
| 70° | 657.9 | 652.9 | 887.1 | 1090.2 | 1145.1 |
| 72.5° | 513.3 | 557.0 | 806.1 | 994.3 | 1046.6 |
| 75° | 390.0 | 474.7 | 730.1 | 897.1 | 929.5 |
| 77.5° | 285.3 | 397.5 | 652.9 | 798.7 | 821.1 |
| 80° | 195.6 | 330.2 | 579.4 | 700.2 | 716.4 |
| 82.5° | 123.4 | 272.9 | 508.4 | 611.8 | 623.0 |
| 85° | 68.5 | 225.5 | 444.8 | 532.0 | 539.5 |
| 87.5° | 26.2 | 185.7 | 387.5 | 462.3 | 468.5 |
| 90° | 1.2 | 157.0 | 340.2 | 396.2 | 396.2 |
| 92.5° | 1.2 | 137.1 | 301.5 | 343.9 | 346.4 |
| 95° | 2.5 | 120.9 | 267.9 | 296.5 | 294.1 |
| 97.5° | 2.5 | 109.6 | 236.7 | 260.4 | 252.9 |
| 100° | 2.5 | 99.7 | 213.1 | 229.3 | 221.8 |
| 102.5° | 2.5 | 88.5 | 194.4 | 204.3 | 195.6 |
| 105° | 2.5 | 73.5 | 179.4 | 186.9 | 179.4 |
| 107.5° | 2.5 | 58.6 | 163.2 | 173.2 | 165.7 |
| 110° | 2.5 | 43.6 | 148.3 | 160.7 | 154.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.2 | 27.4 | 134.6 | 149.5 | 145.8 |
| 115° | 2.5 | 10.0 | 120.9 | 140.8 | 137.1 |
| 117.5° | 1.2 | 5.0 | 103.4 | 130.8 | 129.6 |
| 120° | 1.2 | 3.7 | 87.2 | 122.1 | 122.1 |
| 122.5° | 1.2 | 3.7 | 72.3 | 109.6 | 114.6 |
| 125° | 1.2 | 2.5 | 54.8 | 97.2 | 103.4 |
| 127.5° | 1.2 | 2.5 | 38.6 | 84.7 | 92.2 |
| 130° | 1.2 | 2.5 | 19.9 | 69.8 | 79.7 |
| 132.5° | 1.2 | 2.5 | 2.5 | 54.8 | 66.0 |
| 135° | 2.5 | 2.5 | 2.5 | 39.9 | 52.3 |
| 137.5° | 2.5 | 2.5 | 2.5 | 21.2 | 37.4 |
| 140° | 2.5 | 2.5 | 1.2 | 1.2 | 17.4 |
| 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)