

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: P290307

Luminaire Tested: **8SSRK-SLC-40-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLC-40-L850-CD1-U  
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

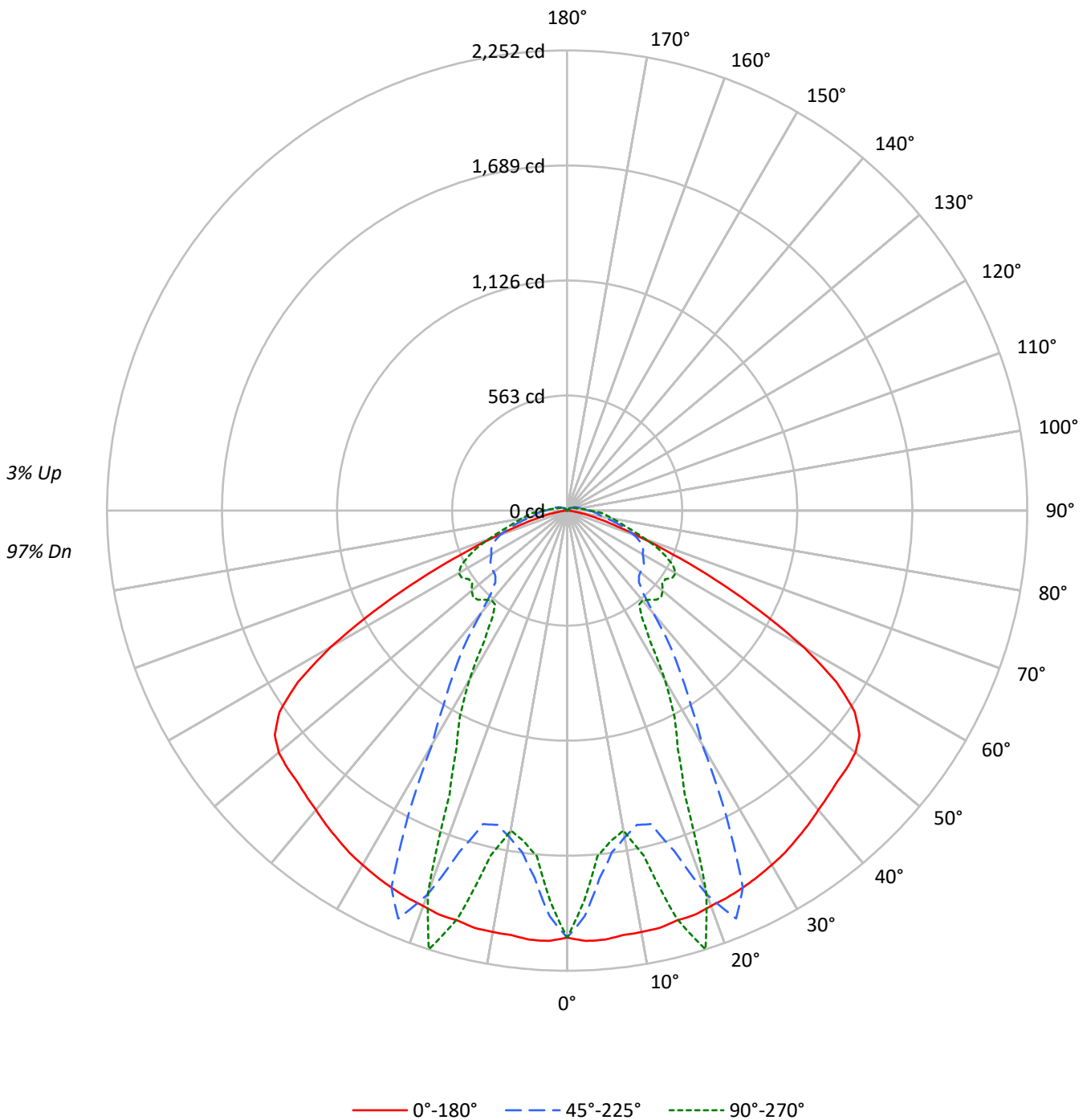
Lumens per Lamp: N/A  
Luminaire Lumens: 4393.8 lumens  
Efficiency: N/A  
Efficacy: 162.6 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

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 | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1   | 108 | 103 | 99  | 95  | 105 | 101 | 97  | 93  | 96  | 93  | 90  | 91  | 89  | 87  | 87 | 85 | 83 | 81 |
| 2   | 99  | 91  | 84  | 79  | 96  | 89  | 83  | 78  | 85  | 80  | 75  | 81  | 77  | 73  | 77 | 74 | 71 | 69 |
| 3   | 91  | 81  | 73  | 67  | 88  | 79  | 72  | 66  | 75  | 69  | 64  | 72  | 67  | 63  | 69 | 65 | 61 | 59 |
| 4   | 84  | 72  | 64  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 65  | 59  | 54  | 62 | 57 | 53 | 51 |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 61  | 54  | 49  | 59  | 53  | 48  | 57 | 51 | 47 | 45 |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 47  | 43  | 52 | 46 | 42 | 40 |
| 7   | 67  | 54  | 45  | 40  | 65  | 53  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  | 48 | 42 | 38 | 36 |
| 8   | 62  | 49  | 41  | 36  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 39  | 35  | 44 | 38 | 34 | 32 |
| 9   | 58  | 46  | 38  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 42  | 36  | 32  | 41 | 35 | 31 | 29 |
| 10  | 55  | 42  | 35  | 30  | 54  | 42  | 34  | 30  | 40  | 34  | 29  | 39  | 33  | 29  | 38 | 33 | 29 | 27 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 67476 | 67476 | 67476 |
| 5°  | 68213 | 46929 | 40784 |
| 10° | 68427 | 35456 | 30563 |
| 15° | 69043 | 30142 | 33321 |
| 20° | 70230 | 33781 | 27852 |
| 25° | 71830 | 31161 | 15910 |
| 30° | 73769 | 18663 | 10777 |
| 35° | 76173 | 12710 | 6596  |
| 40° | 79250 | 8175  | 5546  |
| 45° | 83731 | 5913  | 5639  |
| 50° | 90284 | 5360  | 5318  |
| 55° | 93986 | 5104  | 4918  |
| 60° | 83265 | 4659  | 4997  |
| 65° | 58293 | 4385  | 4275  |
| 70° | 33872 | 3728  | 3215  |
| 75° | 19263 | 2816  | 2287  |
| 80° | 10943 | 1987  | 1769  |
| 85° | 5297  | 1596  | 1448  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 173.6  | 4.0       |
| 10°-20°   | 521.4  | 11.9      |
| 20°-30°   | 767.4  | 17.5      |
| 30°-40°   | 749.7  | 17.1      |
| 40°-50°   | 621.5  | 14.1      |
| 50°-60°   | 570.6  | 13.0      |
| 60°-70°   | 452.1  | 10.3      |
| 70°-80°   | 251.1  | 5.7       |
| 80°-90°   | 133.0  | 3.0       |
| 90°-100°  | 69.9   | 1.6       |
| 100°-110° | 42.1   | 1.0       |
| 110°-120° | 24.0   | 0.5       |
| 120°-130° | 13.3   | 0.3       |
| 130°-140° | 4.2    | 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°    | 1462.3 | 33.3      |
| 0°-40°    | 2212.0 | 50.3      |
| 0°-60°    | 3404.1 | 77.5      |
| 0°-90°    | 4240.2 | 96.5      |
| 90°-120°  | 136.0  | 3.1       |
| 90°-150°  | 153.6  | 3.5       |
| 90°-180°  | 154.0  | 3.5       |
| 0°-180°   | 4393.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2090 | 2090  | 2090 | 2090  | 2090 |      |
| 5°   | 2108 | 1990  | 1808 | 1731  | 1698 | 200  |
| 15°  | 2077 | 1659  | 1588 | 1945  | 2065 | 589  |
| 25°  | 2036 | 1584  | 2034 | 1387  | 1279 | 941  |
| 35°  | 1960 | 1890  | 964  | 689   | 636  | 1230 |
| 45°  | 1872 | 855   | 498  | 568   | 617  | 1452 |
| 55°  | 1719 | 381   | 459  | 550   | 586  | 1493 |
| 65°  | 797  | 247   | 407  | 517   | 536  | 807  |
| 75°  | 166  | 151   | 262  | 280   | 292  | 197  |
| 85°  | 18   | 74    | 144  | 175   | 183  | 24   |
| 90°  | 0    | 54    | 106  | 115   | 114  | 1    |
| 95°  | 1    | 43    | 82   | 85    | 82   | 1    |
| 105° | 1    | 28    | 57   | 50    | 45   | 1    |
| 115° | 1    | 3     | 37   | 35    | 33   | 1    |
| 125° | 1    | 1     | 17   | 28    | 27   | 1    |
| 135° | 1    | 1     | 1    | 12    | 15   | 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    |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2089.6 | 2089.6 | 2089.6 | 2089.6 | 2089.6 |
| 2.5°   | 2108.2 | 2070.4 | 1986.5 | 1929.6 | 1910.5 |
| 5°     | 2108.2 | 1990.0 | 1807.9 | 1730.8 | 1698.5 |
| 7.5°   | 2095.5 | 1887.9 | 1685.7 | 1652.3 | 1631.2 |
| 10°    | 2094.5 | 1778.9 | 1623.4 | 1595.4 | 1589.5 |
| 12.5°  | 2092.0 | 1718.6 | 1575.3 | 1674.4 | 1727.9 |
| 15°    | 2076.8 | 1658.7 | 1588.5 | 1945.3 | 2065.0 |
| 17.5°  | 2074.4 | 1614.1 | 1749.5 | 2201.0 | 2251.5 |
| 20°    | 2059.2 | 1578.7 | 2000.3 | 2168.6 | 1990.5 |
| 22.5°  | 2049.3 | 1554.2 | 2161.7 | 1744.6 | 1502.2 |
| 25°    | 2035.6 | 1583.6 | 2034.1 | 1386.8 | 1279.4 |
| 27.5°  | 2019.9 | 1678.3 | 1686.2 | 1207.2 | 1136.1 |
| 30°    | 2002.2 | 1826.5 | 1322.1 | 1055.1 | 956.5  |
| 32.5°  | 1984.6 | 1935.0 | 1125.3 | 866.2  | 750.3  |
| 35°    | 1960.5 | 1890.3 | 964.3  | 689.0  | 636.0  |
| 37.5°  | 1937.9 | 1684.2 | 817.6  | 594.8  | 579.6  |
| 40°    | 1912.9 | 1356.9 | 656.6  | 557.5  | 573.2  |
| 42.5°  | 1891.8 | 1075.7 | 551.6  | 553.6  | 592.3  |
| 45°    | 1871.7 | 854.9  | 497.6  | 567.8  | 617.4  |
| 47.5°  | 1859.9 | 679.7  | 476.0  | 585.0  | 624.7  |
| 50°    | 1841.8 | 544.7  | 468.2  | 588.4  | 610.5  |
| 52.5°  | 1803.5 | 449.0  | 465.7  | 570.2  | 585.5  |
| 55°    | 1719.1 | 380.8  | 458.8  | 549.6  | 586.4  |
| 57.5°  | 1563.5 | 338.6  | 443.1  | 554.0  | 610.5  |
| 60°    | 1335.8 | 305.7  | 427.4  | 568.3  | 613.4  |
| 62.5°  | 1062.9 | 275.8  | 419.1  | 556.5  | 584.5  |
| 65°    | 797.0  | 247.3  | 407.3  | 516.8  | 535.9  |
| 67.5°  | 558.0  | 222.8  | 380.8  | 467.2  | 477.5  |
| 70°    | 379.3  | 199.2  | 347.9  | 403.9  | 408.3  |
| 72.5°  | 255.2  | 175.7  | 307.2  | 338.6  | 345.5  |
| 75°    | 166.4  | 150.7  | 262.1  | 279.7  | 292.0  |
| 77.5°  | 106.0  | 128.1  | 217.4  | 240.0  | 255.7  |
| 80°    | 65.8   | 106.0  | 183.0  | 215.4  | 225.3  |
| 82.5°  | 36.8   | 88.3   | 158.5  | 192.4  | 197.8  |
| 85°    | 17.7   | 74.1   | 144.3  | 175.2  | 182.6  |
| 87.5°  | 4.4    | 62.8   | 127.1  | 145.3  | 145.3  |
| 90°    | 0.5    | 54.0   | 105.5  | 115.3  | 114.3  |
| 92.5°  | 0.5    | 47.6   | 91.8   | 98.1   | 96.2   |
| 95°    | 1.0    | 42.7   | 82.0   | 85.4   | 81.5   |
| 97.5°  | 1.0    | 40.2   | 75.6   | 73.1   | 67.2   |
| 100°   | 1.0    | 37.3   | 68.7   | 62.3   | 55.9   |
| 102.5° | 1.0    | 33.4   | 62.8   | 55.0   | 49.6   |
| 105°   | 1.0    | 28.5   | 57.4   | 49.6   | 44.7   |
| 107.5° | 1.0    | 22.6   | 51.5   | 45.1   | 41.2   |
| 110°   | 1.0    | 16.2   | 46.1   | 41.7   | 38.8   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 1.0 | 9.8   | 41.7 | 38.8  | 36.3 |
| 115°   | 1.0 | 3.4   | 37.3 | 35.3  | 32.9 |
| 117.5° | 1.0 | 1.5   | 32.9 | 33.9  | 30.9 |
| 120°   | 1.0 | 1.5   | 27.5 | 31.9  | 29.4 |
| 122.5° | 1.0 | 1.5   | 22.6 | 29.9  | 28.5 |
| 125°   | 1.0 | 1.0   | 17.2 | 27.5  | 27.0 |
| 127.5° | 1.0 | 1.0   | 11.8 | 24.0  | 25.0 |
| 130°   | 1.0 | 1.0   | 5.9  | 19.6  | 22.1 |
| 132.5° | 1.0 | 1.0   | 1.0  | 16.2  | 18.2 |
| 135°   | 1.0 | 1.0   | 1.0  | 11.8  | 14.7 |
| 137.5° | 1.0 | 1.0   | 1.0  | 5.9   | 10.8 |
| 140°   | 1.0 | 1.0   | 1.0  | 1.0   | 4.4  |
| 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)