

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: P#

Luminaire Tested: **8SRL-LD5-82SL-LW-UNV-L835-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35653)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SRL-LD5-82SL-LW-UNV-L835-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

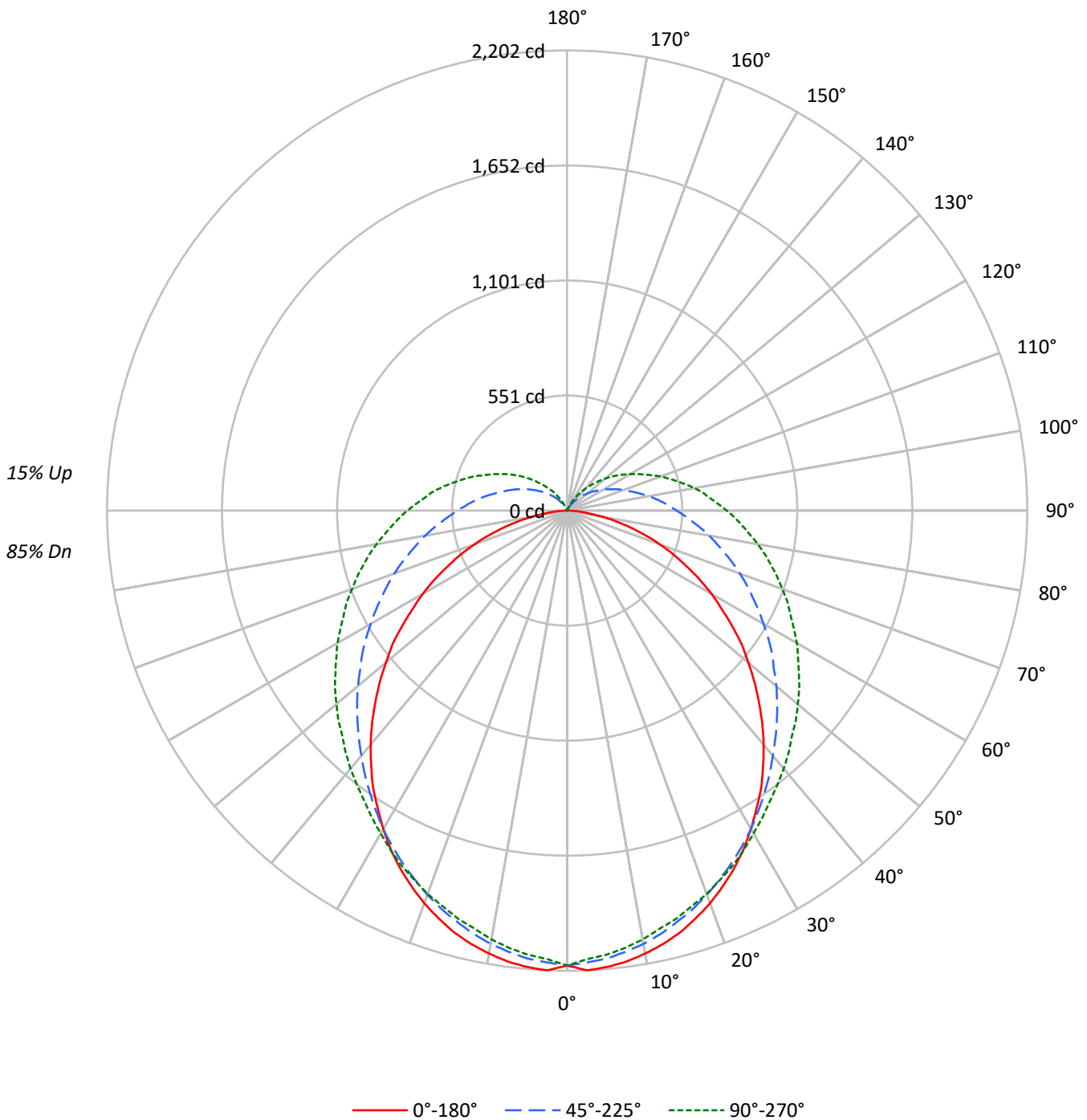
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8376.0 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 7.33' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 67.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P#  
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### Luminous Intensity Polar Plot





TEST NUMBER: P#

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF  | 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 | 50 | 30 | 10 | 0 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 0   | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 103 | 103 | 103 | 95 | 95 | 95 | 88 | 88 | 88 | 85 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 1   | 103 | 97  | 92  | 87  | 98  | 93  | 88  | 84  | 86  | 82  | 79  | 80 | 76 | 74 | 74 | 71 | 69 | 66 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 2   | 92  | 83  | 75  | 69  | 88  | 80  | 73  | 67  | 74  | 68  | 63  | 68 | 64 | 59 | 63 | 59 | 56 | 53 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 3   | 84  | 72  | 63  | 56  | 80  | 70  | 61  | 55  | 64  | 58  | 52  | 60 | 54 | 49 | 55 | 51 | 47 | 44 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 4   | 76  | 64  | 54  | 47  | 73  | 61  | 53  | 46  | 57  | 50  | 44  | 53 | 47 | 42 | 49 | 44 | 40 | 37 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 5   | 70  | 57  | 47  | 40  | 67  | 55  | 46  | 39  | 51  | 43  | 38  | 47 | 41 | 36 | 44 | 38 | 34 | 32 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 6   | 65  | 51  | 42  | 35  | 62  | 49  | 40  | 34  | 46  | 38  | 33  | 43 | 36 | 31 | 40 | 34 | 30 | 27 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 7   | 60  | 46  | 37  | 31  | 57  | 44  | 36  | 30  | 42  | 34  | 29  | 39 | 32 | 28 | 36 | 31 | 26 | 24 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 8   | 56  | 42  | 33  | 27  | 53  | 41  | 32  | 27  | 38  | 31  | 26  | 36 | 29 | 25 | 33 | 28 | 24 | 21 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 9   | 52  | 38  | 30  | 24  | 50  | 37  | 29  | 24  | 35  | 28  | 23  | 33 | 27 | 22 | 31 | 25 | 21 | 19 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 10  | 49  | 35  | 27  | 22  | 47  | 34  | 27  | 22  | 32  | 25  | 21  | 30 | 24 | 20 | 29 | 23 | 19 | 17 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12781 | 12781 | 12781 |
| 5°  | 12896 | 12164 | 11880 |
| 10° | 12779 | 11557 | 11114 |
| 15° | 12624 | 10949 | 10422 |
| 20° | 12388 | 10377 | 9817  |
| 25° | 12115 | 9828  | 9263  |
| 30° | 11771 | 9306  | 8733  |
| 35° | 11420 | 8799  | 8275  |
| 40° | 11001 | 8329  | 7925  |
| 45° | 10533 | 7921  | 7582  |
| 50° | 10068 | 7550  | 7334  |
| 55° | 9554  | 7227  | 7098  |
| 60° | 9020  | 6910  | 6917  |
| 65° | 8346  | 6651  | 6741  |
| 70° | 7609  | 6454  | 6636  |
| 75° | 6587  | 6274  | 6572  |
| 80° | 5137  | 6191  | 6551  |
| 85° | 3171  | 6170  | 6581  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 204.8  | 2.4       |
| 10°-20°   | 578.1  | 6.9       |
| 20°-30°   | 863.3  | 10.3      |
| 30°-40°   | 1034.6 | 12.4      |
| 40°-50°   | 1094.5 | 13.1      |
| 50°-60°   | 1057.0 | 12.6      |
| 60°-70°   | 940.2  | 11.2      |
| 70°-80°   | 773.0  | 9.2       |
| 80°-90°   | 591.2  | 7.1       |
| 90°-100°  | 444.6  | 5.3       |
| 100°-110° | 324.5  | 3.9       |
| 110°-120° | 222.3  | 2.7       |
| 120°-130° | 138.7  | 1.7       |
| 130°-140° | 74.0   | 0.9       |
| 140°-150° | 29.7   | 0.4       |
| 150°-160° | 5.7    | 0.1       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1646.2 | 19.7      |
| 0°-40°    | 2680.8 | 32.0      |
| 0°-60°    | 4832.2 | 57.7      |
| 0°-90°    | 7136.6 | 85.2      |
| 90°-120°  | 991.3  | 11.8      |
| 90°-150°  | 1233.7 | 14.7      |
| 90°-180°  | 1239.0 | 14.8      |
| 0°-180°   | 8376.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2177 | 2177  | 2177 | 2177  | 2177 |      |
| 5°   | 2192 | 2180  | 2152 | 2149  | 2133 | 208  |
| 15°  | 2090 | 2068  | 2037 | 2037  | 2021 | 588  |
| 25°  | 1890 | 1871  | 1862 | 1884  | 1874 | 870  |
| 35°  | 1619 | 1612  | 1647 | 1694  | 1694 | 1011 |
| 45°  | 1297 | 1335  | 1419 | 1500  | 1522 | 1002 |
| 55°  | 964  | 1051  | 1198 | 1316  | 1354 | 863  |
| 65°  | 630  | 774   | 979  | 1132  | 1179 | 626  |
| 75°  | 315  | 521   | 780  | 958   | 1010 | 335  |
| 85°  | 59   | 321   | 602  | 783   | 842  | 72   |
| 90°  | 0    | 246   | 524  | 705   | 764  | 3    |
| 95°  | 0    | 190   | 458  | 633   | 686  | 0    |
| 105° | 0    | 118   | 337  | 493   | 543  | 0    |
| 115° | 0    | 72    | 240  | 371   | 409  | 0    |
| 125° | 0    | 44    | 162  | 262   | 293  | 0    |
| 135° | 0    | 22    | 100  | 165   | 184  | 0    |
| 145° | 0    | 6     | 44   | 84    | 97   | 0    |
| 155° | 0    | 0     | 6    | 22    | 22   | 1    |
| 165° | 0    | 0     | 0    | 0     | 0    | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-82SL-LW-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2176.9 | 2176.9 | 2176.9 | 2176.9 | 2176.9 |
| 2.5°   | 2201.9 | 2189.4 | 2164.4 | 2161.3 | 2148.8 |
| 5°     | 2192.5 | 2180.0 | 2152.0 | 2148.8 | 2133.3 |
| 7.5°   | 2176.9 | 2161.3 | 2130.1 | 2127.0 | 2111.4 |
| 10°    | 2152.0 | 2136.4 | 2105.2 | 2102.1 | 2083.4 |
| 12.5°  | 2123.9 | 2108.3 | 2074.0 | 2070.9 | 2049.0 |
| 15°    | 2089.6 | 2067.8 | 2036.6 | 2036.6 | 2021.0 |
| 17.5°  | 2045.9 | 2027.2 | 1999.1 | 2002.3 | 1983.6 |
| 20°    | 1999.1 | 1980.4 | 1955.5 | 1964.8 | 1952.4 |
| 22.5°  | 1946.1 | 1924.3 | 1908.7 | 1921.2 | 1911.8 |
| 25°    | 1890.0 | 1871.3 | 1861.9 | 1883.8 | 1874.4 |
| 27.5°  | 1827.6 | 1808.9 | 1812.0 | 1833.9 | 1830.7 |
| 30°    | 1759.0 | 1746.5 | 1759.0 | 1787.1 | 1783.9 |
| 32.5°  | 1687.3 | 1681.0 | 1702.9 | 1740.3 | 1740.3 |
| 35°    | 1618.7 | 1612.4 | 1646.7 | 1693.5 | 1693.5 |
| 37.5°  | 1540.7 | 1543.8 | 1590.6 | 1643.6 | 1653.0 |
| 40°    | 1462.7 | 1475.2 | 1531.3 | 1596.8 | 1612.4 |
| 42.5°  | 1381.6 | 1403.5 | 1475.2 | 1546.9 | 1568.8 |
| 45°    | 1297.4 | 1334.8 | 1419.1 | 1500.1 | 1522.0 |
| 47.5°  | 1216.3 | 1263.1 | 1362.9 | 1456.5 | 1484.5 |
| 50°    | 1132.1 | 1188.3 | 1306.8 | 1409.7 | 1440.9 |
| 52.5°  | 1054.2 | 1119.6 | 1247.5 | 1362.9 | 1400.3 |
| 55°    | 963.7  | 1051.0 | 1197.6 | 1316.1 | 1353.6 |
| 57.5°  | 876.4  | 979.3  | 1141.5 | 1269.3 | 1309.9 |
| 60°    | 798.4  | 907.6  | 1085.3 | 1225.7 | 1269.3 |
| 62.5°  | 714.2  | 839.0  | 1032.3 | 1178.9 | 1222.6 |
| 65°    | 630.0  | 773.5  | 979.3  | 1132.1 | 1178.9 |
| 67.5°  | 552.0  | 704.8  | 929.4  | 1088.5 | 1141.5 |
| 70°    | 470.9  | 642.5  | 879.5  | 1044.8 | 1094.7 |
| 72.5°  | 393.0  | 580.1  | 829.6  | 998.0  | 1054.2 |
| 75°    | 315.0  | 520.8  | 779.7  | 957.5  | 1010.5 |
| 77.5°  | 240.1  | 464.7  | 732.9  | 913.8  | 969.9  |
| 80°    | 171.5  | 411.7  | 689.3  | 870.1  | 926.3  |
| 82.5°  | 109.2  | 361.8  | 645.6  | 826.5  | 882.6  |
| 85°    | 59.3   | 321.2  | 601.9  | 782.8  | 842.1  |
| 87.5°  | 21.8   | 277.6  | 561.4  | 745.4  | 804.6  |
| 90°    | 0.0    | 246.4  | 524.0  | 704.8  | 764.1  |
| 92.5°  | 0.0    | 215.2  | 489.7  | 667.4  | 723.6  |
| 95°    | 0.0    | 190.2  | 458.5  | 633.1  | 686.1  |
| 97.5°  | 0.0    | 168.4  | 427.3  | 598.8  | 654.9  |
| 100°   | 0.0    | 149.7  | 396.1  | 561.4  | 617.5  |
| 102.5° | 0.0    | 131.0  | 364.9  | 527.1  | 580.1  |
| 105°   | 0.0    | 118.5  | 336.8  | 492.8  | 542.7  |
| 107.5° | 0.0    | 106.0  | 311.9  | 464.7  | 508.4  |
| 110°   | 0.0    | 93.6   | 286.9  | 430.4  | 477.2  |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-82SL-LW-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 84.2  | 265.1 | 402.3 | 439.7 |
| 115°   | 0.0 | 71.7  | 240.1 | 371.1 | 408.6 |
| 117.5° | 0.0 | 65.5  | 221.4 | 343.1 | 377.4 |
| 120°   | 0.0 | 56.1  | 199.6 | 315.0 | 349.3 |
| 122.5° | 0.0 | 49.9  | 180.9 | 286.9 | 321.2 |
| 125°   | 0.0 | 43.7  | 162.2 | 262.0 | 293.2 |
| 127.5° | 0.0 | 37.4  | 146.6 | 237.0 | 265.1 |
| 130°   | 0.0 | 31.2  | 127.9 | 212.1 | 237.0 |
| 132.5° | 0.0 | 25.0  | 112.3 | 187.1 | 212.1 |
| 135°   | 0.0 | 21.8  | 99.8  | 165.3 | 184.0 |
| 137.5° | 0.0 | 15.6  | 84.2  | 143.5 | 162.2 |
| 140°   | 0.0 | 12.5  | 71.7  | 124.8 | 137.2 |
| 142.5° | 0.0 | 9.4   | 56.1  | 102.9 | 118.5 |
| 145°   | 0.0 | 6.2   | 43.7  | 84.2  | 96.7  |
| 147.5° | 0.0 | 3.1   | 31.2  | 68.6  | 74.9  |
| 150°   | 0.0 | 3.1   | 21.8  | 53.0  | 56.1  |
| 152.5° | 0.0 | 0.0   | 15.6  | 37.4  | 37.4  |
| 155°   | 0.0 | 0.0   | 6.2   | 21.8  | 21.8  |
| 157.5° | 3.1 | 0.0   | 3.1   | 9.4   | 9.4   |
| 160°   | 3.1 | 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)