

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: **8SNLED-LD5-91SL-SLN-UNV-L935-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 (P27402)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-91SL-SLN-UNV-L935-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

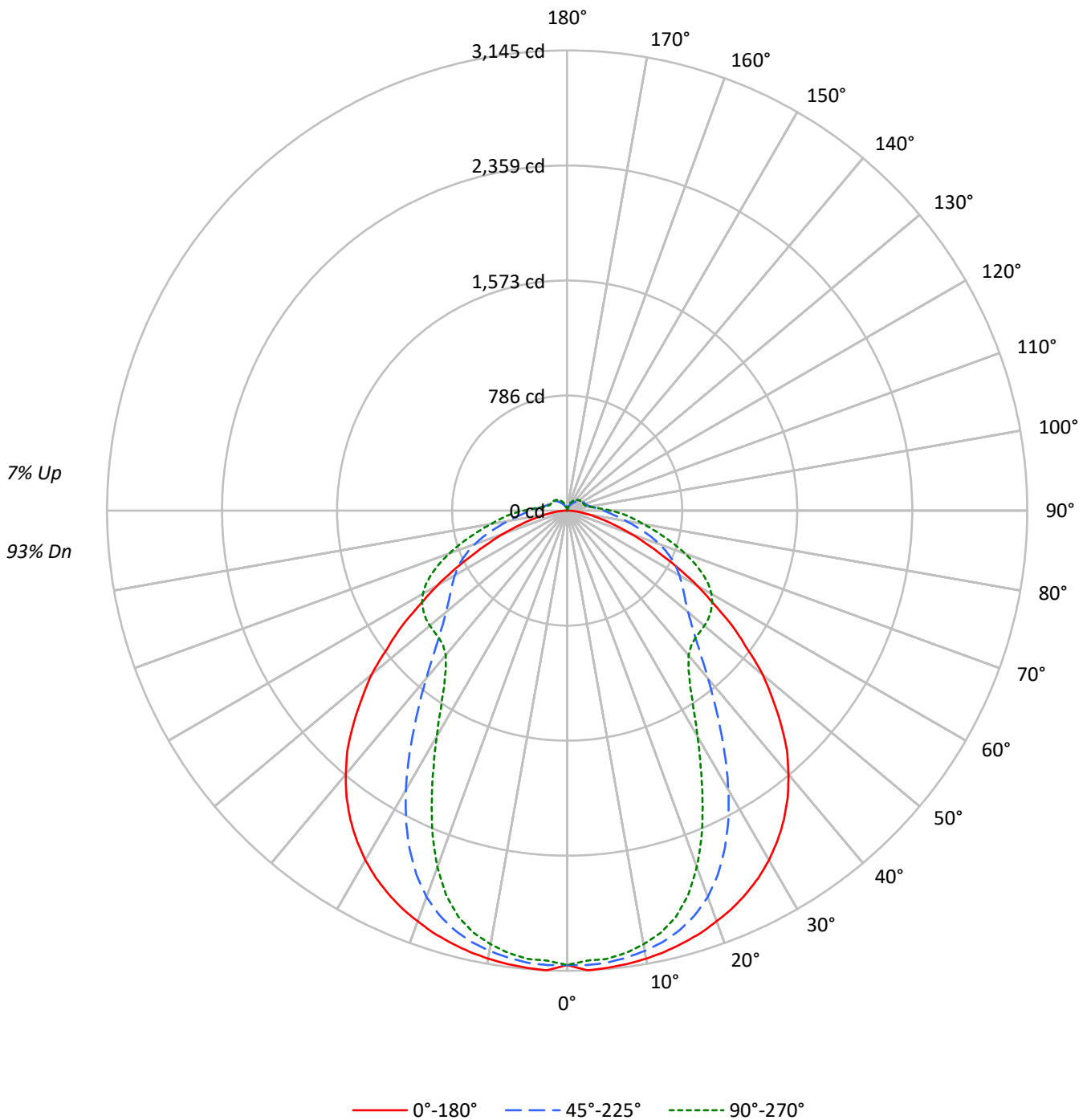
Lumens per Lamp: N/A  
Luminaire Lumens: 7810.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 69  
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



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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   | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 93 |
| 1   | 107 | 102 | 97  | 93  | 103 | 99  | 94  | 91  | 93  | 90  | 87  | 88  | 85  | 83  | 83 | 81 | 79 | 76 |
| 2   | 97  | 89  | 82  | 76  | 94  | 86  | 80  | 75  | 81  | 76  | 72  | 77  | 73  | 69  | 73 | 70 | 66 | 64 |
| 3   | 89  | 78  | 70  | 64  | 86  | 76  | 69  | 63  | 72  | 66  | 61  | 68  | 63  | 59  | 65 | 61 | 57 | 54 |
| 4   | 82  | 70  | 61  | 55  | 79  | 68  | 60  | 54  | 65  | 58  | 52  | 61  | 55  | 51  | 58 | 53 | 49 | 47 |
| 5   | 75  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 58  | 51  | 46  | 55  | 49  | 44  | 53 | 48 | 43 | 41 |
| 6   | 70  | 57  | 48  | 42  | 67  | 55  | 47  | 41  | 53  | 46  | 40  | 51  | 44  | 39  | 48 | 43 | 39 | 36 |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 42  | 37  | 48  | 41  | 36  | 46  | 40  | 35  | 44 | 39 | 35 | 32 |
| 8   | 61  | 47  | 39  | 33  | 59  | 46  | 39  | 33  | 44  | 37  | 32  | 43  | 36  | 32  | 41 | 35 | 31 | 29 |
| 9   | 57  | 44  | 36  | 30  | 55  | 43  | 35  | 30  | 41  | 34  | 29  | 40  | 33  | 29  | 38 | 33 | 28 | 27 |
| 10  | 53  | 40  | 33  | 28  | 52  | 40  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 35 | 30 | 26 | 24 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12548 | 12548 | 12548 |
| 5°  | 12710 | 12282 | 12079 |
| 10° | 12723 | 11954 | 11582 |
| 15° | 12745 | 11564 | 10921 |
| 20° | 12770 | 10978 | 9808  |
| 25° | 12795 | 10068 | 8306  |
| 30° | 12756 | 8867  | 6832  |
| 35° | 12598 | 7552  | 5725  |
| 40° | 12254 | 6402  | 5176  |
| 45° | 11633 | 5571  | 5136  |
| 50° | 10778 | 5099  | 5316  |
| 55° | 9524  | 4908  | 5502  |
| 60° | 8070  | 4845  | 5578  |
| 65° | 6530  | 4747  | 5404  |
| 70° | 5290  | 4512  | 4984  |
| 75° | 4042  | 4096  | 4423  |
| 80° | 3059  | 3693  | 3935  |
| 85° | 2175  | 3505  | 3619  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 293.8  | 3.8       |
| 10°-20°   | 830.5  | 10.6      |
| 20°-30°   | 1160.9 | 14.9      |
| 30°-40°   | 1204.2 | 15.4      |
| 40°-50°   | 1112.4 | 14.2      |
| 50°-60°   | 993.2  | 12.7      |
| 60°-70°   | 804.9  | 10.3      |
| 70°-80°   | 535.4  | 6.9       |
| 80°-90°   | 306.6  | 3.9       |
| 90°-100°  | 169.6  | 2.2       |
| 100°-110° | 114.9  | 1.5       |
| 110°-120° | 95.6   | 1.2       |
| 120°-130° | 77.7   | 1.0       |
| 130°-140° | 56.1   | 0.7       |
| 140°-150° | 33.8   | 0.4       |
| 150°-160° | 16.3   | 0.2       |
| 160°-170° | 4.2    | 0.1       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2285.2 | 29.3      |
| 0°-40°    | 3489.3 | 44.7      |
| 0°-60°    | 5595.0 | 71.6      |
| 0°-90°    | 7241.8 | 92.7      |
| 90°-120°  | 380.1  | 4.9       |
| 90°-150°  | 547.7  | 7.0       |
| 90°-180°  | 568.0  | 7.3       |
| 0°-180°   | 7810.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3106 | 3106  | 3106 | 3106  | 3106 |      |
| 5°   | 3138 | 3085  | 3102 | 3080  | 3076 | 298  |
| 15°  | 3060 | 2995  | 2969 | 2902  | 2873 | 865  |
| 25°  | 2891 | 2763  | 2550 | 2282  | 2189 | 1332 |
| 35°  | 2582 | 2298  | 1827 | 1535  | 1466 | 1611 |
| 45°  | 2068 | 1638  | 1244 | 1200  | 1236 | 1590 |
| 55°  | 1382 | 1045  | 972  | 1130  | 1200 | 1229 |
| 65°  | 706  | 632   | 791  | 969   | 1020 | 714  |
| 75°  | 274  | 343   | 533  | 653   | 680  | 300  |
| 85°  | 55   | 159   | 314  | 402   | 413  | 64   |
| 90°  | 3    | 112   | 248  | 300   | 297  | 4    |
| 95°  | 3    | 94    | 197  | 210   | 204  | 2    |
| 105° | 1    | 82    | 142  | 138   | 131  | 1    |
| 115° | 1    | 74    | 126  | 124   | 120  | 1    |
| 125° | 1    | 63    | 111  | 116   | 113  | 1    |
| 135° | 3    | 47    | 88   | 103   | 103  | 2    |
| 145° | 3    | 30    | 61   | 80    | 85   | 2    |
| 155° | 3    | 19    | 38   | 50    | 61   | 1    |
| 165° | 3    | 11    | 19   | 24    | 32   | 1    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-SLN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3105.6 | 3105.6 | 3105.6 | 3105.6 | 3105.6 |
| 2.5°   | 3144.7 | 3093.4 | 3109.6 | 3096.1 | 3078.6 |
| 5°     | 3138.0 | 3085.3 | 3101.5 | 3079.9 | 3075.9 |
| 7.5°   | 3125.8 | 3073.2 | 3082.6 | 3057.0 | 3050.2 |
| 10°    | 3109.6 | 3054.3 | 3055.6 | 3019.2 | 3009.7 |
| 12.5°  | 3088.0 | 3027.3 | 3019.2 | 2969.3 | 2955.8 |
| 15°    | 3059.7 | 2994.9 | 2969.3 | 2901.8 | 2873.4 |
| 17.5°  | 3028.6 | 2953.1 | 2900.4 | 2796.5 | 2752.0 |
| 20°    | 2986.8 | 2901.8 | 2810.0 | 2652.1 | 2592.7 |
| 22.5°  | 2945.0 | 2839.7 | 2692.6 | 2482.0 | 2402.4 |
| 25°    | 2891.0 | 2762.8 | 2549.5 | 2282.3 | 2189.1 |
| 27.5°  | 2830.2 | 2672.3 | 2384.8 | 2077.1 | 1977.3 |
| 30°    | 2758.7 | 2563.0 | 2204.0 | 1876.0 | 1781.6 |
| 32.5°  | 2675.0 | 2440.2 | 2013.7 | 1695.2 | 1607.4 |
| 35°    | 2581.9 | 2298.5 | 1827.4 | 1534.6 | 1465.7 |
| 37.5°  | 2475.3 | 2143.3 | 1654.7 | 1405.0 | 1360.5 |
| 40°    | 2353.8 | 1974.6 | 1495.4 | 1305.1 | 1290.3 |
| 42.5°  | 2222.9 | 1809.9 | 1359.1 | 1240.3 | 1253.8 |
| 45°    | 2067.7 | 1638.5 | 1244.4 | 1199.8 | 1236.3 |
| 47.5°  | 1904.4 | 1471.1 | 1151.3 | 1176.9 | 1229.5 |
| 50°    | 1746.5 | 1315.9 | 1078.4 | 1162.1 | 1224.1 |
| 52.5°  | 1550.8 | 1176.9 | 1020.3 | 1148.6 | 1216.0 |
| 55°    | 1382.1 | 1044.6 | 971.8  | 1129.7 | 1199.8 |
| 57.5°  | 1187.7 | 925.9  | 928.6  | 1105.4 | 1175.6 |
| 60°    | 1025.7 | 817.9  | 886.7  | 1071.6 | 1139.1 |
| 62.5°  | 861.1  | 720.7  | 840.8  | 1027.1 | 1087.8 |
| 65°    | 705.9  | 631.6  | 790.9  | 969.1  | 1020.3 |
| 67.5°  | 576.3  | 550.7  | 734.2  | 898.9  | 942.1  |
| 70°    | 467.0  | 476.4  | 672.1  | 820.6  | 857.0  |
| 72.5°  | 359.0  | 407.6  | 604.6  | 736.9  | 768.0  |
| 75°    | 274.0  | 342.8  | 533.1  | 653.2  | 680.2  |
| 77.5°  | 202.4  | 286.1  | 468.3  | 577.7  | 600.6  |
| 80°    | 143.1  | 236.2  | 407.6  | 511.5  | 529.1  |
| 82.5°  | 95.8   | 194.4  | 357.7  | 452.1  | 468.3  |
| 85°    | 55.3   | 159.3  | 314.5  | 402.2  | 413.0  |
| 87.5°  | 22.9   | 132.3  | 279.4  | 350.9  | 356.3  |
| 90°    | 2.7    | 112.0  | 248.3  | 299.6  | 296.9  |
| 92.5°  | 2.7    | 101.2  | 221.3  | 251.0  | 244.3  |
| 95°    | 2.7    | 94.5   | 197.1  | 210.5  | 203.8  |
| 97.5°  | 2.7    | 90.4   | 175.5  | 180.9  | 174.1  |
| 100°   | 1.3    | 87.7   | 160.6  | 160.6  | 153.9  |
| 102.5° | 1.3    | 85.0   | 149.8  | 145.8  | 140.4  |
| 105°   | 1.3    | 82.3   | 141.7  | 137.7  | 130.9  |
| 107.5° | 1.3    | 81.0   | 136.3  | 132.3  | 125.5  |
| 110°   | 1.3    | 78.3   | 132.3  | 128.2  | 122.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.3 | 76.9  | 129.6 | 126.9 | 120.1 |
| 115°   | 1.3 | 74.2  | 125.5 | 124.2 | 120.1 |
| 117.5° | 1.3 | 71.5  | 122.8 | 122.8 | 118.8 |
| 120°   | 1.3 | 68.8  | 118.8 | 121.5 | 117.4 |
| 122.5° | 1.3 | 66.1  | 114.7 | 118.8 | 114.7 |
| 125°   | 1.3 | 63.4  | 110.7 | 116.1 | 113.4 |
| 127.5° | 2.7 | 59.4  | 105.3 | 113.4 | 110.7 |
| 130°   | 1.3 | 55.3  | 99.9  | 110.7 | 109.3 |
| 132.5° | 2.7 | 51.3  | 94.5  | 106.6 | 106.6 |
| 135°   | 2.7 | 47.2  | 87.7  | 102.6 | 102.6 |
| 137.5° | 2.7 | 41.8  | 81.0  | 97.2  | 98.5  |
| 140°   | 2.7 | 37.8  | 74.2  | 91.8  | 94.5  |
| 142.5° | 2.7 | 33.7  | 67.5  | 86.4  | 90.4  |
| 145°   | 2.7 | 29.7  | 60.7  | 79.6  | 85.0  |
| 147.5° | 2.7 | 27.0  | 54.0  | 71.5  | 79.6  |
| 150°   | 2.7 | 22.9  | 48.6  | 64.8  | 72.9  |
| 152.5° | 2.7 | 20.2  | 43.2  | 58.0  | 67.5  |
| 155°   | 2.7 | 18.9  | 37.8  | 49.9  | 60.7  |
| 157.5° | 2.7 | 16.2  | 32.4  | 43.2  | 54.0  |
| 160°   | 2.7 | 13.5  | 27.0  | 37.8  | 45.9  |
| 162.5° | 2.7 | 12.1  | 22.9  | 31.0  | 40.5  |
| 165°   | 2.7 | 10.8  | 18.9  | 24.3  | 32.4  |
| 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)