

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-LD5-108SL-SLN-UNV-L940-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-LD5-108SL-SLN-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

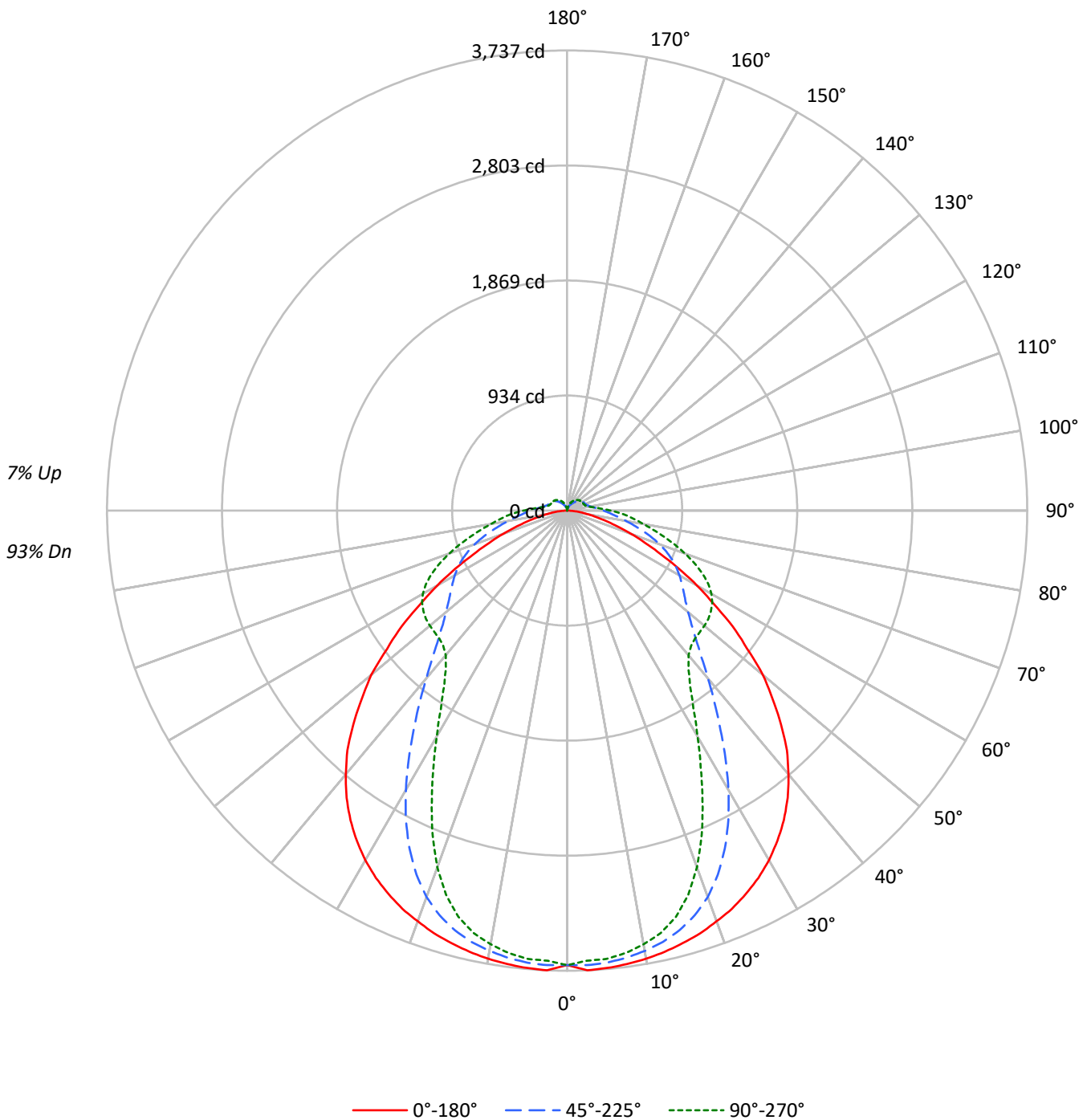
Lumens per Lamp: N/A  
Luminaire Lumens: 9281.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 82  
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   | 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°  | 14911 | 14911 | 14911 |
| 5°  | 15104 | 14596 | 14354 |
| 10° | 15120 | 14206 | 13763 |
| 15° | 15146 | 13742 | 12978 |
| 20° | 15175 | 13046 | 11655 |
| 25° | 15205 | 11965 | 9870  |
| 30° | 15158 | 10538 | 8118  |
| 35° | 14970 | 8974  | 6803  |
| 40° | 14562 | 7608  | 6150  |
| 45° | 13824 | 6620  | 6104  |
| 50° | 12807 | 6059  | 6318  |
| 55° | 11317 | 5832  | 6539  |
| 60° | 9590  | 5758  | 6629  |
| 65° | 7759  | 5641  | 6422  |
| 70° | 6286  | 5362  | 5923  |
| 75° | 4803  | 4867  | 5256  |
| 80° | 3634  | 4389  | 4675  |
| 85° | 2588  | 4164  | 4301  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 349.2  | 3.8       |
| 10°-20°   | 986.9  | 10.6      |
| 20°-30°   | 1379.5 | 14.9      |
| 30°-40°   | 1430.9 | 15.4      |
| 40°-50°   | 1322.0 | 14.2      |
| 50°-60°   | 1180.3 | 12.7      |
| 60°-70°   | 956.5  | 10.3      |
| 70°-80°   | 636.2  | 6.9       |
| 80°-90°   | 364.3  | 3.9       |
| 90°-100°  | 201.6  | 2.2       |
| 100°-110° | 136.5  | 1.5       |
| 110°-120° | 113.6  | 1.2       |
| 120°-130° | 92.4   | 1.0       |
| 130°-140° | 66.6   | 0.7       |
| 140°-150° | 40.2   | 0.4       |
| 150°-160° | 19.3   | 0.2       |
| 160°-170° | 5.0    | 0.1       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2715.6 | 29.3      |
| 0°-40°    | 4146.5 | 44.7      |
| 0°-60°    | 6648.8 | 71.6      |
| 0°-90°    | 8605.8 | 92.7      |
| 90°-120°  | 451.7  | 4.9       |
| 90°-150°  | 650.9  | 7.0       |
| 90°-180°  | 675.0  | 7.3       |
| 0°-180°   | 9281.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3690 | 3690  | 3690 | 3690  | 3690 |      |
| 5°   | 3729 | 3666  | 3686 | 3660  | 3655 | 355  |
| 15°  | 3636 | 3559  | 3528 | 3448  | 3415 | 1027 |
| 25°  | 3436 | 3283  | 3030 | 2712  | 2602 | 1583 |
| 35°  | 3068 | 2731  | 2172 | 1824  | 1742 | 1914 |
| 45°  | 2457 | 1947  | 1479 | 1426  | 1469 | 1889 |
| 55°  | 1642 | 1241  | 1155 | 1342  | 1426 | 1460 |
| 65°  | 839  | 751   | 940  | 1152  | 1212 | 848  |
| 75°  | 326  | 407   | 634  | 776   | 808  | 357  |
| 85°  | 66   | 189   | 374  | 478   | 491  | 76   |
| 90°  | 3    | 133   | 295  | 356   | 353  | 5    |
| 95°  | 3    | 112   | 234  | 250   | 242  | 2    |
| 105° | 2    | 98    | 168  | 164   | 156  | 2    |
| 115° | 2    | 88    | 149  | 148   | 143  | 2    |
| 125° | 2    | 75    | 132  | 138   | 135  | 2    |
| 135° | 3    | 56    | 104  | 122   | 122  | 2    |
| 145° | 3    | 35    | 72   | 95    | 101  | 2    |
| 155° | 3    | 22    | 45   | 59    | 72   | 1    |
| 165° | 3    | 13    | 22   | 29    | 38   | 1    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-108SL-SLN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3690.5 | 3690.5 | 3690.5 | 3690.5 | 3690.5 |
| 2.5°   | 3737.0 | 3676.1 | 3695.3 | 3679.3 | 3658.4 |
| 5°     | 3729.0 | 3666.4 | 3685.7 | 3660.0 | 3655.2 |
| 7.5°   | 3714.6 | 3652.0 | 3663.2 | 3632.8 | 3624.7 |
| 10°    | 3695.3 | 3629.5 | 3631.2 | 3587.8 | 3576.6 |
| 12.5°  | 3669.6 | 3597.5 | 3587.8 | 3528.5 | 3512.5 |
| 15°    | 3636.0 | 3559.0 | 3528.5 | 3448.3 | 3414.6 |
| 17.5°  | 3599.1 | 3509.3 | 3446.7 | 3323.2 | 3270.3 |
| 20°    | 3549.4 | 3448.3 | 3339.3 | 3151.6 | 3081.0 |
| 22.5°  | 3499.6 | 3374.5 | 3199.7 | 2949.5 | 2854.9 |
| 25°    | 3435.5 | 3283.1 | 3029.7 | 2712.1 | 2601.5 |
| 27.5°  | 3363.3 | 3175.7 | 2834.0 | 2468.4 | 2349.7 |
| 30°    | 3278.3 | 3045.7 | 2619.1 | 2229.4 | 2117.1 |
| 32.5°  | 3178.9 | 2899.8 | 2393.0 | 2014.5 | 1910.2 |
| 35°    | 3068.2 | 2731.4 | 2171.6 | 1823.6 | 1741.8 |
| 37.5°  | 2941.5 | 2546.9 | 1966.3 | 1669.6 | 1616.7 |
| 40°    | 2797.1 | 2346.5 | 1777.1 | 1550.9 | 1533.3 |
| 42.5°  | 2641.6 | 2150.8 | 1615.1 | 1474.0 | 1490.0 |
| 45°    | 2457.1 | 1947.1 | 1478.8 | 1425.8 | 1469.1 |
| 47.5°  | 2263.1 | 1748.2 | 1368.1 | 1398.6 | 1461.1 |
| 50°    | 2075.4 | 1563.8 | 1281.5 | 1380.9 | 1454.7 |
| 52.5°  | 1842.8 | 1398.6 | 1212.5 | 1364.9 | 1445.1 |
| 55°    | 1642.4 | 1241.4 | 1154.8 | 1342.4 | 1425.8 |
| 57.5°  | 1411.4 | 1100.3 | 1103.5 | 1313.6 | 1397.0 |
| 60°    | 1218.9 | 971.9  | 1053.7 | 1273.5 | 1353.7 |
| 62.5°  | 1023.3 | 856.5  | 999.2  | 1220.5 | 1292.7 |
| 65°    | 838.8  | 750.6  | 939.9  | 1151.6 | 1212.5 |
| 67.5°  | 684.9  | 654.4  | 872.5  | 1068.2 | 1119.5 |
| 70°    | 554.9  | 566.2  | 798.7  | 975.2  | 1018.5 |
| 72.5°  | 426.6  | 484.4  | 718.5  | 875.7  | 912.6  |
| 75°    | 325.6  | 407.4  | 633.5  | 776.3  | 808.3  |
| 77.5°  | 240.6  | 340.0  | 556.5  | 686.5  | 713.7  |
| 80°    | 170.0  | 280.7  | 484.4  | 607.9  | 628.7  |
| 82.5°  | 113.9  | 231.0  | 425.0  | 537.3  | 556.5  |
| 85°    | 65.8   | 189.3  | 373.7  | 478.0  | 490.8  |
| 87.5°  | 27.3   | 157.2  | 332.0  | 417.0  | 423.4  |
| 90°    | 3.2    | 133.1  | 295.1  | 356.1  | 352.9  |
| 92.5°  | 3.2    | 120.3  | 263.0  | 298.3  | 290.3  |
| 95°    | 3.2    | 112.3  | 234.2  | 250.2  | 242.2  |
| 97.5°  | 3.2    | 107.5  | 208.5  | 214.9  | 206.9  |
| 100°   | 1.6    | 104.3  | 190.9  | 190.9  | 182.8  |
| 102.5° | 1.6    | 101.0  | 178.0  | 173.2  | 166.8  |
| 105°   | 1.6    | 97.8   | 168.4  | 163.6  | 155.6  |
| 107.5° | 1.6    | 96.2   | 162.0  | 157.2  | 149.2  |
| 110°   | 1.6    | 93.0   | 157.2  | 152.4  | 146.0  |



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.6 | 91.4  | 154.0 | 150.8 | 142.7 |
| 115°   | 1.6 | 88.2  | 149.2 | 147.6 | 142.7 |
| 117.5° | 1.6 | 85.0  | 146.0 | 146.0 | 141.1 |
| 120°   | 1.6 | 81.8  | 141.1 | 144.3 | 139.5 |
| 122.5° | 1.6 | 78.6  | 136.3 | 141.1 | 136.3 |
| 125°   | 1.6 | 75.4  | 131.5 | 137.9 | 134.7 |
| 127.5° | 3.2 | 70.6  | 125.1 | 134.7 | 131.5 |
| 130°   | 1.6 | 65.8  | 118.7 | 131.5 | 129.9 |
| 132.5° | 3.2 | 60.9  | 112.3 | 126.7 | 126.7 |
| 135°   | 3.2 | 56.1  | 104.3 | 121.9 | 121.9 |
| 137.5° | 3.2 | 49.7  | 96.2  | 115.5 | 117.1 |
| 140°   | 3.2 | 44.9  | 88.2  | 109.1 | 112.3 |
| 142.5° | 3.2 | 40.1  | 80.2  | 102.6 | 107.5 |
| 145°   | 3.2 | 35.3  | 72.2  | 94.6  | 101.0 |
| 147.5° | 3.2 | 32.1  | 64.2  | 85.0  | 94.6  |
| 150°   | 3.2 | 27.3  | 57.7  | 77.0  | 86.6  |
| 152.5° | 3.2 | 24.1  | 51.3  | 69.0  | 80.2  |
| 155°   | 3.2 | 22.5  | 44.9  | 59.3  | 72.2  |
| 157.5° | 3.2 | 19.2  | 38.5  | 51.3  | 64.2  |
| 160°   | 3.2 | 16.0  | 32.1  | 44.9  | 54.5  |
| 162.5° | 3.2 | 14.4  | 27.3  | 36.9  | 48.1  |
| 165°   | 3.2 | 12.8  | 22.5  | 28.9  | 38.5  |
| 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)