

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-LD5-68SL-LC-UNV-L830-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 (P35657)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SRL-LD5-68SL-LC-UNV-L830-CD1-U  
Description: SRL LINEAR LED

Light Source: -  
Ballast/Driver: -

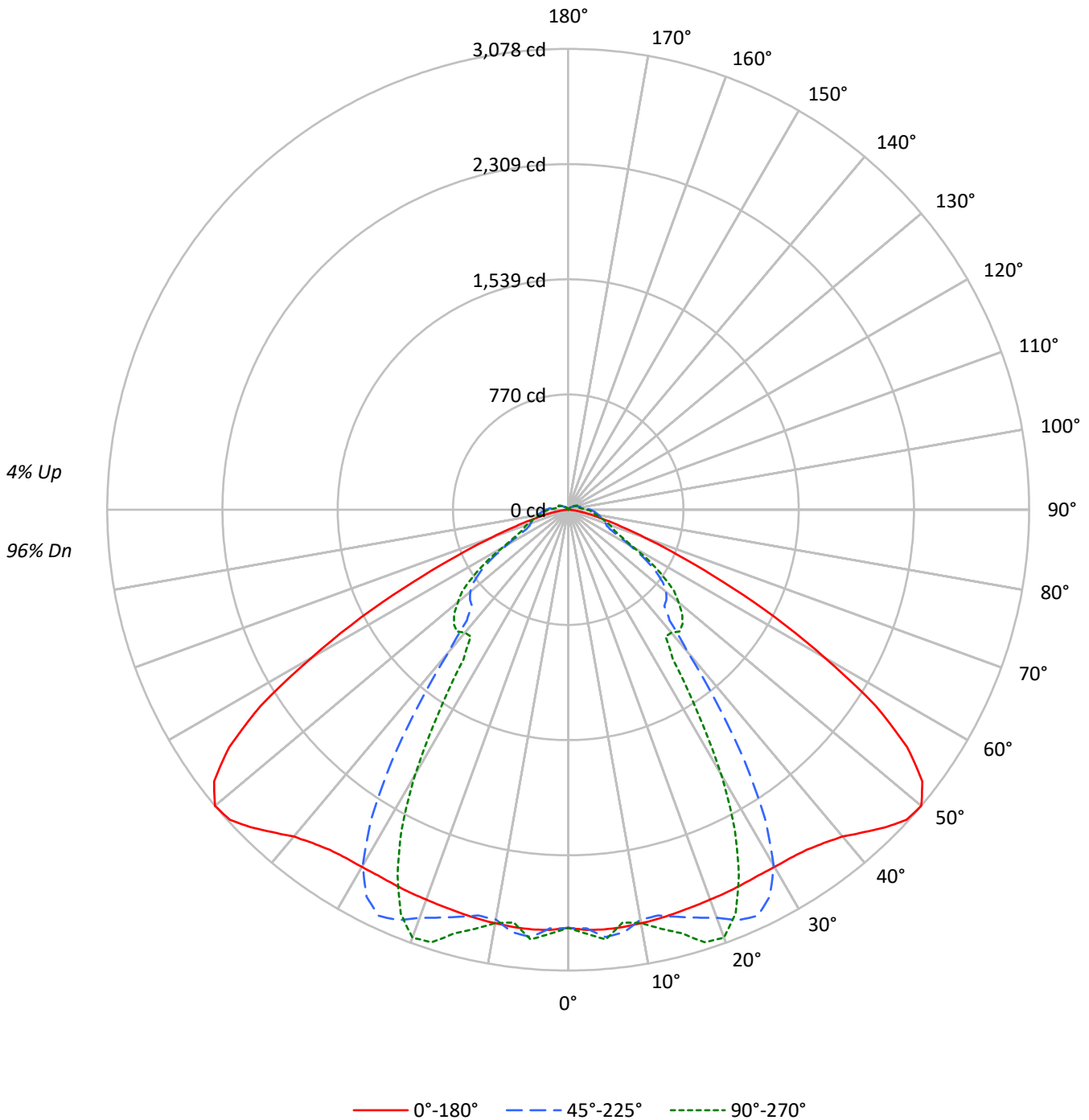
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6737.0 lumens  
Efficiency: N/A  
Efficacy: 145.8 lumens/watt  
Spacing Criteria (0/90/45): 1.54 / 1.13 / 1.12  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 7.33' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 46.2  
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: P#

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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 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 99 | 96 |   |
| 1   | 109 | 105 | 101 | 97  | 106 | 102 | 99  | 95  | 97  | 94  | 92  | 93  | 90  | 88  | 89 | 87 | 85 | 89 | 87 | 85 | 83 |   |
| 2   | 100 | 93  | 87  | 82  | 98  | 91  | 85  | 81  | 87  | 82  | 78  | 83  | 79  | 76  | 80 | 77 | 74 | 80 | 77 | 74 | 72 |   |
| 3   | 93  | 83  | 76  | 70  | 90  | 81  | 75  | 69  | 78  | 72  | 67  | 75  | 70  | 66  | 72 | 68 | 64 | 72 | 68 | 64 | 62 |   |
| 4   | 86  | 75  | 67  | 61  | 83  | 73  | 66  | 60  | 70  | 64  | 59  | 68  | 62  | 58  | 65 | 60 | 57 | 65 | 60 | 57 | 54 |   |
| 5   | 79  | 67  | 59  | 53  | 77  | 66  | 59  | 53  | 64  | 57  | 52  | 61  | 56  | 51  | 59 | 54 | 50 | 59 | 54 | 50 | 48 |   |
| 6   | 74  | 61  | 53  | 47  | 72  | 60  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 46  | 54 | 49 | 45 | 54 | 49 | 45 | 43 |   |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 47  | 42  | 53  | 46  | 41  | 52  | 45  | 41  | 50 | 45 | 40 | 50 | 45 | 40 | 38 |   |
| 8   | 64  | 51  | 43  | 38  | 62  | 51  | 43  | 38  | 49  | 42  | 37  | 48  | 41  | 37  | 46 | 41 | 37 | 46 | 41 | 37 | 35 |   |
| 9   | 60  | 47  | 40  | 35  | 58  | 47  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 43 | 37 | 33 | 43 | 37 | 33 | 32 |   |
| 10  | 56  | 44  | 36  | 32  | 55  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 40 | 34 | 31 | 40 | 34 | 31 | 29 |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16401 | 16401 | 16401 |
| 5°  | 16549 | 16197 | 16045 |
| 10° | 16656 | 15257 | 14956 |
| 15° | 16843 | 15134 | 15103 |
| 20° | 17168 | 15396 | 15289 |
| 25° | 17686 | 15799 | 13322 |
| 30° | 18434 | 14513 | 10024 |
| 35° | 19567 | 10988 | 5955  |
| 40° | 21432 | 6738  | 5269  |
| 45° | 24348 | 5070  | 5376  |
| 50° | 27373 | 4932  | 4893  |
| 55° | 27382 | 4284  | 4047  |
| 60° | 22372 | 3028  | 2741  |
| 65° | 14999 | 2099  | 1989  |
| 70° | 8752  | 1950  | 1794  |
| 75° | 4897  | 1919  | 1523  |
| 80° | 2797  | 1846  | 1301  |
| 85° | 1385  | 1827  | 1280  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 270.1  | 4.0       |
| 10°-20°   | 809.9  | 12.0      |
| 20°-30°   | 1289.0 | 19.1      |
| 30°-40°   | 1313.7 | 19.5      |
| 40°-50°   | 1109.6 | 16.5      |
| 50°-60°   | 855.3  | 12.7      |
| 60°-70°   | 441.8  | 6.6       |
| 70°-80°   | 244.1  | 3.6       |
| 80°-90°   | 155.4  | 2.3       |
| 90°-100°  | 95.6   | 1.4       |
| 100°-110° | 61.6   | 0.9       |
| 110°-120° | 44.7   | 0.7       |
| 120°-130° | 25.8   | 0.4       |
| 130°-140° | 12.5   | 0.2       |
| 140°-150° | 5.2    | 0.1       |
| 150°-160° | 1.8    | 0.0       |
| 160°-170° | 0.7    | 0.0       |
| 170°-180° | 0.2    | 0.0       |
| 0°-30°    | 2369.0 | 35.2      |
| 0°-40°    | 3682.7 | 54.7      |
| 0°-60°    | 5647.6 | 83.8      |
| 0°-90°    | 6488.8 | 96.3      |
| 90°-120°  | 201.9  | 3.0       |
| 90°-150°  | 245.4  | 3.6       |
| 90°-180°  | 248.0  | 3.7       |
| 0°-180°   | 6737.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2794 | 2794  | 2794 | 2794  | 2794 |      |
| 5°   | 2814 | 2824  | 2865 | 2893  | 2881 | 268  |
| 15°  | 2788 | 2789  | 2815 | 2916  | 2929 | 790  |
| 25°  | 2759 | 2778  | 2993 | 2847  | 2696 | 1277 |
| 35°  | 2773 | 2904  | 2056 | 1398  | 1219 | 1751 |
| 45°  | 2999 | 1750  | 908  | 1048  | 1079 | 2316 |
| 55°  | 2762 | 644   | 710  | 772   | 772  | 2391 |
| 65°  | 1132 | 295   | 309  | 348   | 348  | 1168 |
| 75°  | 234  | 194   | 238  | 240   | 234  | 282  |
| 85°  | 26   | 126   | 178  | 172   | 164  | 36   |
| 90°  | 0    | 98    | 148  | 136   | 126  | 1    |
| 95°  | 0    | 76    | 118  | 104   | 95   | 0    |
| 105° | 0    | 46    | 78   | 72    | 68   | 0    |
| 115° | 1    | 27    | 56   | 68    | 66   | 1    |
| 125° | 1    | 14    | 36   | 43    | 39   | 1    |
| 135° | 1    | 7     | 20   | 24    | 20   | 1    |
| 145° | 1    | 3     | 10   | 13    | 10   | 1    |
| 155° | 1    | 1     | 4    | 6     | 3    | 1    |
| 165° | 1    | 3     | 3    | 3     | 0    | 0    |
| 175° | 3    | 3     | 3    | 3     | 0    | 0    |
| 180° | 1    | 1     | 1    | 1     | 1    |      |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-68SL-LC-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2793.5 | 2793.5 | 2793.5 | 2793.5 | 2793.5 |
| 2.5°   | 2809.3 | 2799.3 | 2799.3 | 2835.2 | 2835.2 |
| 5°     | 2813.6 | 2823.7 | 2865.4 | 2892.7 | 2881.2 |
| 7.5°   | 2810.8 | 2856.7 | 2846.7 | 2806.4 | 2780.6 |
| 10°    | 2805.0 | 2874.0 | 2779.1 | 2806.4 | 2803.6 |
| 12.5°  | 2797.8 | 2848.1 | 2776.3 | 2872.5 | 2866.8 |
| 15°    | 2787.8 | 2789.2 | 2815.1 | 2915.7 | 2928.6 |
| 17.5°  | 2779.1 | 2751.8 | 2856.7 | 2991.8 | 3029.2 |
| 20°    | 2770.5 | 2740.3 | 2901.3 | 3056.5 | 3040.7 |
| 22.5°  | 2766.2 | 2750.4 | 2967.4 | 3007.6 | 2920.0 |
| 25°    | 2759.0 | 2777.7 | 2993.2 | 2846.7 | 2695.8 |
| 27.5°  | 2753.3 | 2809.3 | 2914.2 | 2572.2 | 2411.3 |
| 30°    | 2754.7 | 2853.9 | 2743.2 | 2250.3 | 2047.7 |
| 32.5°  | 2759.0 | 2897.0 | 2445.8 | 1819.2 | 1609.4 |
| 35°    | 2773.4 | 2904.2 | 2056.3 | 1398.2 | 1218.6 |
| 37.5°  | 2805.0 | 2825.1 | 1632.4 | 1106.5 | 1067.7 |
| 40°    | 2849.6 | 2586.6 | 1238.7 | 1033.2 | 1072.0 |
| 42.5°  | 2921.4 | 2185.7 | 1001.6 | 1044.7 | 1102.2 |
| 45°    | 2999.0 | 1750.3 | 908.2  | 1047.6 | 1079.2 |
| 47.5°  | 3065.1 | 1291.9 | 889.5  | 1008.8 | 1031.8 |
| 50°    | 3078.0 | 972.8  | 853.6  | 947.0  | 961.3  |
| 52.5°  | 2980.3 | 768.8  | 796.1  | 865.1  | 890.9  |
| 55°    | 2761.9 | 643.8  | 709.9  | 771.7  | 771.7  |
| 57.5°  | 2432.8 | 546.1  | 596.4  | 655.3  | 649.5  |
| 60°    | 1980.2 | 449.8  | 475.6  | 511.6  | 502.9  |
| 62.5°  | 1557.7 | 360.7  | 369.3  | 408.1  | 413.9  |
| 65°    | 1132.3 | 294.6  | 309.0  | 347.8  | 347.8  |
| 67.5°  | 794.7  | 251.5  | 278.8  | 314.7  | 317.6  |
| 70°    | 541.7  | 227.0  | 265.8  | 294.6  | 296.0  |
| 72.5°  | 369.3  | 209.8  | 252.9  | 268.7  | 264.4  |
| 75°    | 234.2  | 194.0  | 238.5  | 240.0  | 234.2  |
| 77.5°  | 152.3  | 176.7  | 224.2  | 212.7  | 208.4  |
| 80°    | 93.4   | 159.5  | 205.5  | 191.1  | 183.9  |
| 82.5°  | 53.2   | 142.3  | 191.1  | 181.1  | 173.9  |
| 85°    | 25.9   | 126.5  | 178.2  | 172.4  | 163.8  |
| 87.5°  | 10.1   | 112.1  | 163.8  | 155.2  | 146.6  |
| 90°    | 0.0    | 97.7   | 148.0  | 136.5  | 126.5  |
| 92.5°  | 0.0    | 86.2   | 132.2  | 117.8  | 109.2  |
| 95°    | 0.0    | 76.2   | 117.8  | 103.5  | 94.8   |
| 97.5°  | 0.0    | 67.5   | 104.9  | 92.0   | 81.9   |
| 100°   | 0.0    | 60.4   | 94.8   | 81.9   | 74.7   |
| 102.5° | 0.0    | 53.2   | 84.8   | 76.2   | 71.8   |
| 105°   | 0.0    | 46.0   | 77.6   | 71.8   | 67.5   |
| 107.5° | 0.0    | 40.2   | 70.4   | 69.0   | 66.1   |
| 110°   | 0.0    | 35.9   | 66.1   | 67.5   | 69.0   |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-68SL-LC-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 31.6  | 60.4 | 69.0  | 70.4 |
| 115°   | 1.4 | 27.3  | 56.0 | 67.5  | 66.1 |
| 117.5° | 1.4 | 23.0  | 50.3 | 60.4  | 57.5 |
| 120°   | 1.4 | 20.1  | 46.0 | 54.6  | 50.3 |
| 122.5° | 1.4 | 17.2  | 40.2 | 47.4  | 44.5 |
| 125°   | 1.4 | 14.4  | 35.9 | 43.1  | 38.8 |
| 127.5° | 1.4 | 12.9  | 31.6 | 37.4  | 34.5 |
| 130°   | 1.4 | 11.5  | 27.3 | 33.1  | 30.2 |
| 132.5° | 1.4 | 8.6   | 24.4 | 28.7  | 24.4 |
| 135°   | 1.4 | 7.2   | 20.1 | 24.4  | 20.1 |
| 137.5° | 1.4 | 5.7   | 17.2 | 20.1  | 17.2 |
| 140°   | 1.4 | 4.3   | 14.4 | 17.2  | 14.4 |
| 142.5° | 1.4 | 4.3   | 11.5 | 15.8  | 11.5 |
| 145°   | 1.4 | 2.9   | 10.1 | 12.9  | 10.1 |
| 147.5° | 1.4 | 2.9   | 8.6  | 11.5  | 8.6  |
| 150°   | 1.4 | 2.9   | 7.2  | 10.1  | 5.7  |
| 152.5° | 1.4 | 1.4   | 5.7  | 8.6   | 4.3  |
| 155°   | 1.4 | 1.4   | 4.3  | 5.7   | 2.9  |
| 157.5° | 1.4 | 1.4   | 4.3  | 4.3   | 2.9  |
| 160°   | 1.4 | 1.4   | 4.3  | 4.3   | 1.4  |
| 162.5° | 1.4 | 1.4   | 2.9  | 2.9   | 0.0  |
| 165°   | 1.4 | 2.9   | 2.9  | 2.9   | 0.0  |
| 167.5° | 1.4 | 2.9   | 2.9  | 2.9   | 0.0  |
| 170°   | 1.4 | 2.9   | 2.9  | 2.9   | 0.0  |
| 172.5° | 1.4 | 2.9   | 2.9  | 2.9   | 0.0  |
| 175°   | 2.9 | 2.9   | 2.9  | 2.9   | 0.0  |
| 177.5° | 2.9 | 2.9   | 2.9  | 2.9   | 0.0  |
| 180°   | 1.4 | 1.4   | 1.4  | 1.4   | 1.4  |

(END OF REPORT)