

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-LD5-60SL-LN-UNV-L850-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 (P35658)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SRL-LD5-60SL-LN-UNV-L850-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

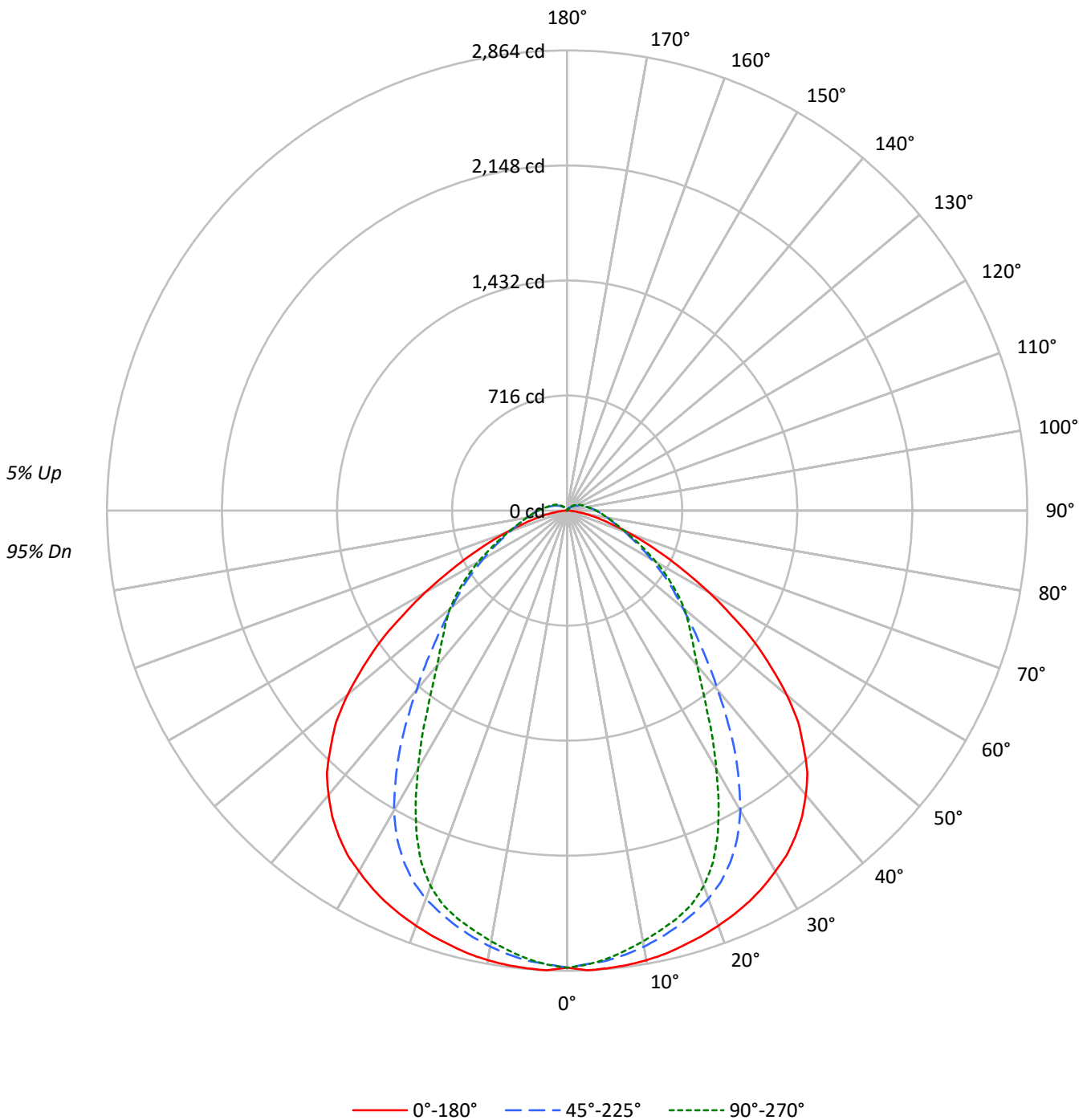
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6503.0 lumens
Efficiency: N/A
Efficacy: 161.4 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.04 / 1.14
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 7.33' x H: 0.17')
CIE Type: Direct

Input Watts (W): 40.3
Input Voltage (V): NR
Input Current (A_{in}): 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#
CATALOG NUMBER: 8SRL-LD5-60SL-LN-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-60SL-LN-UNV-L850-CD1-U

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 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 103 | 103 | 103 | 97 | 97 | 97 | 95 | | | | |
| 1 | 108 | 104 | 100 | 96 | 105 | 101 | 97 | 94 | 96 | 93 | 90 | 91 | 89 | 86 | 87 | 85 | 83 | 80 | | | | |
| 2 | 99 | 92 | 85 | 80 | 96 | 89 | 83 | 79 | 85 | 80 | 76 | 81 | 77 | 74 | 77 | 74 | 71 | 69 | | | | |
| 3 | 91 | 82 | 74 | 68 | 88 | 80 | 73 | 67 | 76 | 70 | 65 | 73 | 68 | 63 | 69 | 65 | 62 | 59 | | | | |
| 4 | 84 | 73 | 65 | 59 | 82 | 71 | 64 | 58 | 68 | 62 | 57 | 65 | 60 | 55 | 63 | 58 | 54 | 52 | | | | |
| 5 | 78 | 66 | 58 | 51 | 76 | 65 | 57 | 51 | 62 | 55 | 50 | 59 | 54 | 49 | 57 | 52 | 48 | 46 | | | | |
| 6 | 72 | 60 | 51 | 45 | 70 | 59 | 51 | 45 | 56 | 49 | 44 | 54 | 48 | 44 | 52 | 47 | 43 | 41 | | | | |
| 7 | 67 | 55 | 46 | 41 | 65 | 54 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 48 | 43 | 38 | 37 | | | | |
| 8 | 63 | 50 | 42 | 37 | 61 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 35 | 44 | 39 | 35 | 33 | | | | |
| 9 | 59 | 46 | 38 | 33 | 57 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 41 | 36 | 32 | 30 | | | | |
| 10 | 55 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 38 | 33 | 29 | 27 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16700 | 16700 | 16700 |
| 5° | 16821 | 15893 | 15603 |
| 10° | 16873 | 15125 | 14524 |
| 15° | 16927 | 14378 | 13566 |
| 20° | 17038 | 13644 | 12501 |
| 25° | 17199 | 12712 | 10965 |
| 30° | 17348 | 11409 | 9082 |
| 35° | 17471 | 9709 | 7405 |
| 40° | 17379 | 7928 | 6176 |
| 45° | 16900 | 6501 | 5428 |
| 50° | 15869 | 5404 | 4847 |
| 55° | 14085 | 4620 | 4163 |
| 60° | 11543 | 3838 | 3478 |
| 65° | 8942 | 3219 | 2848 |
| 70° | 6608 | 2762 | 2359 |
| 75° | 4705 | 2448 | 2006 |
| 80° | 3265 | 2275 | 1791 |
| 85° | 2043 | 2176 | 1670 |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-60SL-LN-UNV-L850-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 268.0 | 4.1 |
| 10°-20° | 761.1 | 11.7 |
| 20°-30° | 1112.0 | 17.1 |
| 30°-40° | 1187.7 | 18.3 |
| 40°-50° | 1046.6 | 16.1 |
| 50°-60° | 794.7 | 12.2 |
| 60°-70° | 506.7 | 7.8 |
| 70°-80° | 302.2 | 4.6 |
| 80°-90° | 189.9 | 2.9 |
| 90°-100° | 125.7 | 1.9 |
| 100°-110° | 85.4 | 1.3 |
| 110°-120° | 57.4 | 0.9 |
| 120°-130° | 35.5 | 0.5 |
| 130°-140° | 18.8 | 0.3 |
| 140°-150° | 8.1 | 0.1 |
| 150°-160° | 2.6 | 0.0 |
| 160°-170° | 0.5 | 0.0 |
| 170°-180° | 0.1 | 0.0 |
| 0°-30° | 2141.1 | 32.9 |
| 0°-40° | 3328.7 | 51.2 |
| 0°-60° | 5170.1 | 79.5 |
| 0°-90° | 6168.9 | 94.9 |
| 90°-120° | 268.5 | 4.1 |
| 90°-150° | 330.9 | 5.1 |
| 90°-180° | 334.0 | 5.1 |
| 0°-180° | 6503.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2844 | 2844 | 2844 | 2844 | 2844 | |
| 5° | 2860 | 2839 | 2812 | 2820 | 2802 | 272 |
| 15° | 2802 | 2750 | 2674 | 2656 | 2631 | 792 |
| 25° | 2683 | 2563 | 2408 | 2292 | 2219 | 1238 |
| 35° | 2476 | 2208 | 1817 | 1589 | 1516 | 1547 |
| 45° | 2082 | 1566 | 1165 | 1097 | 1090 | 1600 |
| 55° | 1421 | 889 | 766 | 792 | 794 | 1257 |
| 65° | 675 | 457 | 474 | 502 | 498 | 681 |
| 75° | 225 | 232 | 304 | 318 | 308 | 251 |
| 85° | 38 | 126 | 212 | 224 | 214 | 46 |
| 90° | 1 | 95 | 180 | 188 | 180 | 3 |
| 95° | 0 | 72 | 150 | 158 | 150 | 0 |
| 105° | 0 | 45 | 105 | 115 | 110 | 0 |
| 115° | 0 | 28 | 72 | 86 | 85 | 0 |
| 125° | 1 | 18 | 48 | 61 | 59 | 1 |
| 135° | 1 | 10 | 30 | 37 | 35 | 1 |
| 145° | 1 | 4 | 16 | 20 | 18 | 1 |
| 155° | 1 | 3 | 6 | 8 | 6 | 1 |
| 165° | 1 | 3 | 3 | 0 | 0 | 0 |
| 175° | 3 | 3 | 3 | 0 | 0 | 0 |
| 180° | 1 | 1 | 1 | 1 | 1 | |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-60SL-LN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2844.3 | 2844.3 | 2844.3 | 2844.3 | 2844.3 |
| 2.5° | 2864.1 | 2847.1 | 2825.9 | 2840.0 | 2828.7 |
| 5° | 2859.8 | 2838.6 | 2811.7 | 2820.2 | 2801.8 |
| 7.5° | 2852.8 | 2825.9 | 2787.7 | 2784.8 | 2763.6 |
| 10° | 2841.5 | 2806.1 | 2755.1 | 2745.2 | 2722.6 |
| 12.5° | 2825.9 | 2782.0 | 2718.3 | 2702.8 | 2675.9 |
| 15° | 2801.8 | 2749.5 | 2674.5 | 2656.1 | 2630.6 |
| 17.5° | 2777.8 | 2712.7 | 2624.9 | 2602.3 | 2572.6 |
| 20° | 2749.5 | 2670.2 | 2571.2 | 2523.1 | 2486.3 |
| 22.5° | 2719.8 | 2622.1 | 2500.4 | 2419.8 | 2371.6 |
| 25° | 2683.0 | 2562.7 | 2408.4 | 2292.4 | 2218.8 |
| 27.5° | 2641.9 | 2500.4 | 2295.2 | 2128.3 | 2040.5 |
| 30° | 2592.4 | 2416.9 | 2156.6 | 1947.1 | 1855.2 |
| 32.5° | 2542.9 | 2326.4 | 1986.8 | 1768.8 | 1685.3 |
| 35° | 2476.4 | 2207.5 | 1816.9 | 1589.1 | 1515.5 |
| 37.5° | 2401.4 | 2074.5 | 1631.6 | 1429.2 | 1375.4 |
| 40° | 2310.8 | 1918.8 | 1457.5 | 1296.2 | 1256.6 |
| 42.5° | 2213.2 | 1747.6 | 1306.1 | 1188.7 | 1167.4 |
| 45° | 2081.6 | 1566.5 | 1164.6 | 1096.7 | 1089.6 |
| 47.5° | 1951.4 | 1385.3 | 1044.3 | 1016.0 | 1020.3 |
| 50° | 1784.4 | 1205.6 | 935.4 | 945.3 | 952.3 |
| 52.5° | 1600.4 | 1040.1 | 846.2 | 867.4 | 873.1 |
| 55° | 1420.7 | 888.7 | 765.6 | 792.4 | 793.9 |
| 57.5° | 1211.3 | 755.6 | 677.8 | 718.9 | 714.6 |
| 60° | 1021.7 | 638.2 | 602.8 | 635.4 | 638.2 |
| 62.5° | 834.9 | 542.0 | 536.3 | 564.6 | 563.2 |
| 65° | 675.0 | 457.1 | 474.0 | 502.3 | 498.1 |
| 67.5° | 536.3 | 382.1 | 421.7 | 445.7 | 435.8 |
| 70° | 409.0 | 324.0 | 376.4 | 394.8 | 389.1 |
| 72.5° | 307.1 | 274.5 | 336.8 | 353.8 | 343.9 |
| 75° | 225.0 | 232.1 | 304.2 | 318.4 | 308.5 |
| 77.5° | 161.3 | 199.5 | 278.8 | 287.3 | 280.2 |
| 80° | 109.0 | 169.8 | 253.3 | 264.6 | 253.3 |
| 82.5° | 69.3 | 145.8 | 232.1 | 242.0 | 232.1 |
| 85° | 38.2 | 125.9 | 212.3 | 223.6 | 213.7 |
| 87.5° | 17.0 | 109.0 | 195.3 | 205.2 | 196.7 |
| 90° | 1.4 | 94.8 | 179.7 | 188.2 | 179.7 |
| 92.5° | 0.0 | 82.1 | 164.1 | 174.1 | 165.6 |
| 95° | 0.0 | 72.2 | 150.0 | 158.5 | 150.0 |
| 97.5° | 0.0 | 63.7 | 137.3 | 145.8 | 138.7 |
| 100° | 0.0 | 56.6 | 125.9 | 134.4 | 127.4 |
| 102.5° | 0.0 | 49.5 | 114.6 | 124.5 | 118.9 |
| 105° | 0.0 | 45.3 | 104.7 | 114.6 | 110.4 |
| 107.5° | 0.0 | 39.6 | 96.2 | 107.5 | 104.7 |
| 110° | 0.0 | 35.4 | 87.7 | 100.5 | 97.6 |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-60SL-LN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 32.5 | 79.2 | 93.4 | 90.6 |
| 115° | 0.0 | 28.3 | 72.2 | 86.3 | 84.9 |
| 117.5° | 0.0 | 25.5 | 66.5 | 79.2 | 79.2 |
| 120° | 1.4 | 22.6 | 60.8 | 73.6 | 72.2 |
| 122.5° | 1.4 | 19.8 | 53.8 | 66.5 | 65.1 |
| 125° | 1.4 | 18.4 | 48.1 | 60.8 | 59.4 |
| 127.5° | 1.4 | 15.6 | 43.9 | 53.8 | 52.4 |
| 130° | 1.4 | 14.2 | 38.2 | 48.1 | 46.7 |
| 132.5° | 1.4 | 11.3 | 34.0 | 42.5 | 41.0 |
| 135° | 1.4 | 9.9 | 29.7 | 36.8 | 35.4 |
| 137.5° | 1.4 | 8.5 | 25.5 | 32.5 | 31.1 |
| 140° | 1.4 | 7.1 | 22.6 | 28.3 | 26.9 |
| 142.5° | 1.4 | 5.7 | 18.4 | 24.1 | 22.6 |
| 145° | 1.4 | 4.2 | 15.6 | 19.8 | 18.4 |
| 147.5° | 1.4 | 2.8 | 12.7 | 17.0 | 15.6 |
| 150° | 1.4 | 2.8 | 9.9 | 14.2 | 12.7 |
| 152.5° | 1.4 | 2.8 | 8.5 | 11.3 | 8.5 |
| 155° | 1.4 | 2.8 | 5.7 | 8.5 | 5.7 |
| 157.5° | 1.4 | 2.8 | 4.2 | 5.7 | 4.2 |
| 160° | 1.4 | 2.8 | 4.2 | 4.2 | 1.4 |
| 162.5° | 1.4 | 2.8 | 2.8 | 1.4 | 0.0 |
| 165° | 1.4 | 2.8 | 2.8 | 0.0 | 0.0 |
| 167.5° | 1.4 | 2.8 | 2.8 | 0.0 | 0.0 |
| 170° | 1.4 | 2.8 | 2.8 | 0.0 | 0.0 |
| 172.5° | 1.4 | 2.8 | 2.8 | 0.0 | 0.0 |
| 175° | 2.8 | 2.8 | 2.8 | 0.0 | 0.0 |
| 177.5° | 1.4 | 2.8 | 1.4 | 0.0 | 0.0 |
| 180° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |

(END OF REPORT)