

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-LD5-92SL-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-LD5-92SL-LN-UNV-L850-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

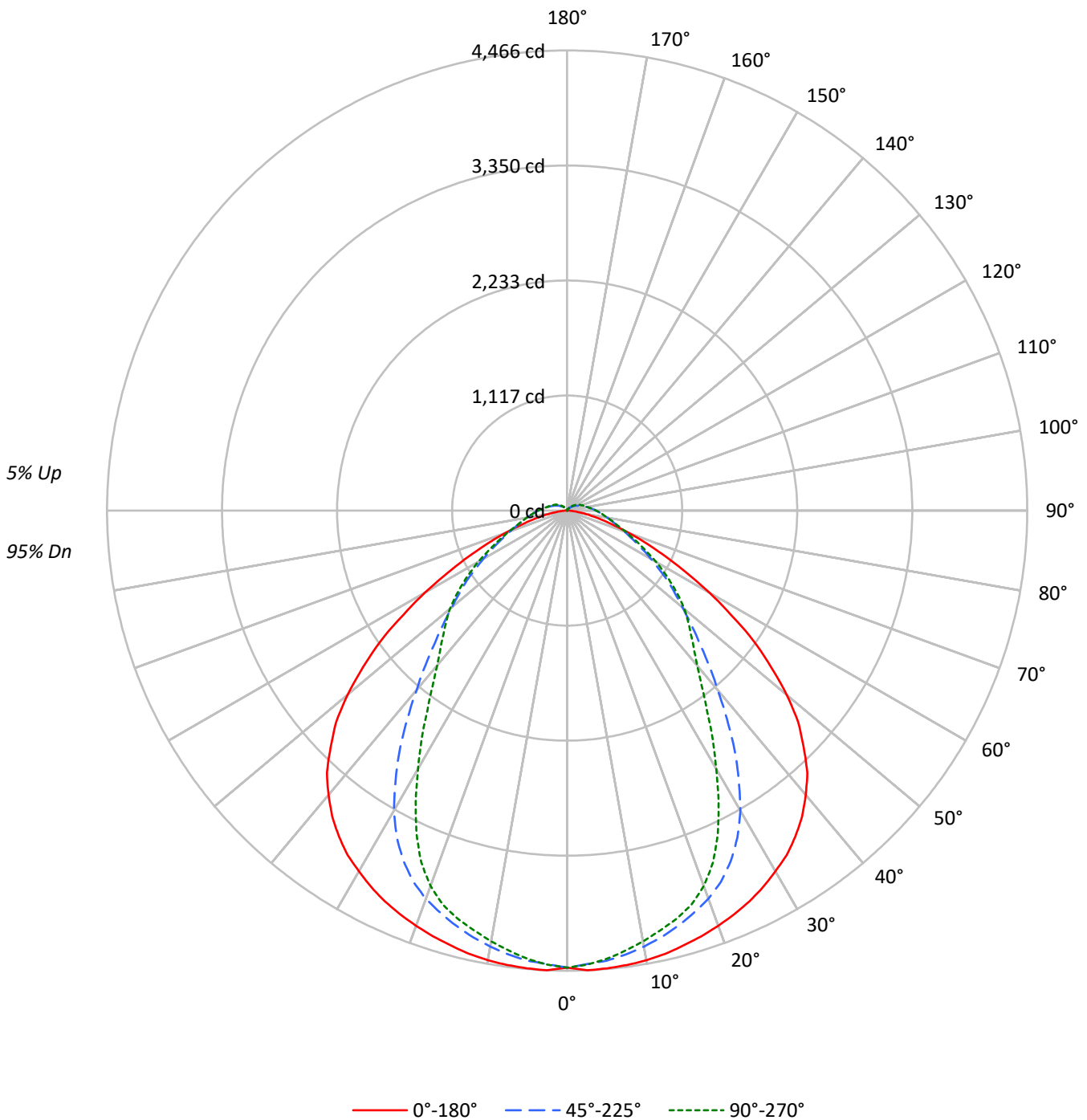
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10140.0 lumens
Efficiency: N/A
Efficacy: 150.4 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): 67.4
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

TEST NUMBER: P#
CATALOG NUMBER: 8SRL-LD5-92SL-LN-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-92SL-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 | 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° | 26039 | 26039 | 26039 |
| 5° | 26229 | 24783 | 24329 |
| 10° | 26309 | 23585 | 22647 |
| 15° | 26394 | 22420 | 21154 |
| 20° | 26567 | 21275 | 19492 |
| 25° | 26817 | 19822 | 17098 |
| 30° | 27050 | 17790 | 14161 |
| 35° | 27242 | 15139 | 11547 |
| 40° | 27099 | 12362 | 9630 |
| 45° | 26351 | 10136 | 8464 |
| 50° | 24744 | 8426 | 7559 |
| 55° | 21963 | 7204 | 6491 |
| 60° | 17998 | 5985 | 5423 |
| 65° | 13942 | 5021 | 4441 |
| 70° | 10304 | 4307 | 3679 |
| 75° | 7336 | 3817 | 3128 |
| 80° | 5089 | 3548 | 2793 |
| 85° | 3187 | 3393 | 2604 |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-92SL-LN-UNV-L850-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 417.8 | 4.1 |
| 10°-20° | 1186.8 | 11.7 |
| 20°-30° | 1733.9 | 17.1 |
| 30°-40° | 1851.9 | 18.3 |
| 40°-50° | 1632.0 | 16.1 |
| 50°-60° | 1239.2 | 12.2 |
| 60°-70° | 790.0 | 7.8 |
| 70°-80° | 471.2 | 4.6 |
| 80°-90° | 296.0 | 2.9 |
| 90°-100° | 195.9 | 1.9 |
| 100°-110° | 133.2 | 1.3 |
| 110°-120° | 89.5 | 0.9 |
| 120°-130° | 55.3 | 0.5 |
| 130°-140° | 29.3 | 0.3 |
| 140°-150° | 12.7 | 0.1 |
| 150°-160° | 4.0 | 0.0 |
| 160°-170° | 0.9 | 0.0 |
| 170°-180° | 0.2 | 0.0 |
| 0°-30° | 3338.5 | 32.9 |
| 0°-40° | 5190.4 | 51.2 |
| 0°-60° | 8061.7 | 79.5 |
| 0°-90° | 9619.0 | 94.9 |
| 90°-120° | 418.6 | 4.1 |
| 90°-150° | 515.9 | 5.1 |
| 90°-180° | 521.0 | 5.1 |
| 0°-180° | 10140.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4435 | 4435 | 4435 | 4435 | 4435 | |
| 5° | 4459 | 4426 | 4384 | 4398 | 4369 | 425 |
| 15° | 4369 | 4287 | 4170 | 4142 | 4102 | 1236 |
| 25° | 4184 | 3996 | 3755 | 3574 | 3460 | 1930 |
| 35° | 3861 | 3442 | 2833 | 2478 | 2363 | 2412 |
| 45° | 3246 | 2443 | 1816 | 1710 | 1699 | 2495 |
| 55° | 2215 | 1386 | 1194 | 1236 | 1238 | 1961 |
| 65° | 1052 | 713 | 739 | 783 | 777 | 1063 |
| 75° | 351 | 362 | 474 | 496 | 481 | 391 |
| 85° | 60 | 196 | 331 | 349 | 333 | 72 |
| 90° | 2 | 148 | 280 | 294 | 280 | 4 |
| 95° | 0 | 112 | 234 | 247 | 234 | 0 |
| 105° | 0 | 71 | 163 | 179 | 172 | 0 |
| 115° | 0 | 44 | 112 | 135 | 132 | 0 |
| 125° | 2 | 29 | 75 | 95 | 93 | 2 |
| 135° | 2 | 15 | 46 | 57 | 55 | 2 |
| 145° | 2 | 7 | 24 | 31 | 29 | 1 |
| 155° | 2 | 4 | 9 | 13 | 9 | 1 |
| 165° | 2 | 4 | 4 | 0 | 0 | 1 |
| 175° | 4 | 4 | 4 | 0 | 0 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-92SL-LN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4435.0 | 4435.0 | 4435.0 | 4435.0 | 4435.0 |
| 2.5° | 4465.9 | 4439.4 | 4406.3 | 4428.4 | 4410.8 |
| 5° | 4459.3 | 4426.2 | 4384.3 | 4397.5 | 4368.8 |
| 7.5° | 4448.3 | 4406.3 | 4346.8 | 4342.4 | 4309.3 |
| 10° | 4430.6 | 4375.5 | 4296.0 | 4280.6 | 4245.3 |
| 12.5° | 4406.3 | 4337.9 | 4238.7 | 4214.4 | 4172.5 |
| 15° | 4368.8 | 4287.2 | 4170.3 | 4141.6 | 4101.9 |
| 17.5° | 4331.3 | 4229.8 | 4093.0 | 4057.7 | 4011.4 |
| 20° | 4287.2 | 4163.6 | 4009.2 | 3934.2 | 3876.8 |
| 22.5° | 4240.9 | 4088.6 | 3898.9 | 3773.1 | 3698.1 |
| 25° | 4183.5 | 3995.9 | 3755.4 | 3574.5 | 3459.8 |
| 27.5° | 4119.5 | 3898.9 | 3578.9 | 3318.6 | 3181.7 |
| 30° | 4042.3 | 3768.7 | 3362.7 | 3036.1 | 2892.7 |
| 32.5° | 3965.1 | 3627.5 | 3097.9 | 2758.1 | 2627.9 |
| 35° | 3861.3 | 3442.1 | 2833.1 | 2477.9 | 2363.1 |
| 37.5° | 3744.4 | 3234.7 | 2544.1 | 2228.5 | 2144.7 |
| 40° | 3603.2 | 2992.0 | 2272.7 | 2021.1 | 1959.4 |
| 42.5° | 3450.9 | 2725.0 | 2036.6 | 1853.4 | 1820.3 |
| 45° | 3245.7 | 2442.6 | 1815.9 | 1710.0 | 1699.0 |
| 47.5° | 3042.7 | 2160.1 | 1628.4 | 1584.3 | 1590.9 |
| 50° | 2782.4 | 1879.9 | 1458.5 | 1473.9 | 1485.0 |
| 52.5° | 2495.5 | 1621.8 | 1319.5 | 1352.6 | 1361.4 |
| 55° | 2215.3 | 1385.7 | 1193.7 | 1235.6 | 1237.8 |
| 57.5° | 1888.7 | 1178.3 | 1056.9 | 1120.9 | 1114.3 |
| 60° | 1593.1 | 995.1 | 940.0 | 990.7 | 995.1 |
| 62.5° | 1301.8 | 845.1 | 836.3 | 880.4 | 878.2 |
| 65° | 1052.5 | 712.7 | 739.2 | 783.3 | 776.7 |
| 67.5° | 836.3 | 595.8 | 657.5 | 695.0 | 679.6 |
| 70° | 637.7 | 505.3 | 586.9 | 615.6 | 606.8 |
| 72.5° | 478.8 | 428.1 | 525.1 | 551.6 | 536.2 |
| 75° | 350.8 | 361.9 | 474.4 | 496.5 | 481.0 |
| 77.5° | 251.5 | 311.1 | 434.7 | 447.9 | 436.9 |
| 80° | 169.9 | 264.8 | 395.0 | 412.6 | 395.0 |
| 82.5° | 108.1 | 227.3 | 361.9 | 377.3 | 361.9 |
| 85° | 59.6 | 196.4 | 331.0 | 348.6 | 333.2 |
| 87.5° | 26.5 | 169.9 | 304.5 | 319.9 | 306.7 |
| 90° | 2.2 | 147.8 | 280.2 | 293.5 | 280.2 |
| 92.5° | 0.0 | 128.0 | 256.0 | 271.4 | 258.2 |
| 95° | 0.0 | 112.5 | 233.9 | 247.1 | 233.9 |
| 97.5° | 0.0 | 99.3 | 214.0 | 227.3 | 216.2 |
| 100° | 0.0 | 88.3 | 196.4 | 209.6 | 198.6 |
| 102.5° | 0.0 | 77.2 | 178.7 | 194.2 | 185.3 |
| 105° | 0.0 | 70.6 | 163.3 | 178.7 | 172.1 |
| 107.5° | 0.0 | 61.8 | 150.0 | 167.7 | 163.3 |
| 110° | 0.0 | 55.2 | 136.8 | 156.7 | 152.2 |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-92SL-LN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 50.7 | 123.6 | 145.6 | 141.2 |
| 115° | 0.0 | 44.1 | 112.5 | 134.6 | 132.4 |
| 117.5° | 0.0 | 39.7 | 103.7 | 123.6 | 123.6 |
| 120° | 2.2 | 35.3 | 94.9 | 114.7 | 112.5 |
| 122.5° | 2.2 | 30.9 | 83.8 | 103.7 | 101.5 |
| 125° | 2.2 | 28.7 | 75.0 | 94.9 | 92.7 |
| 127.5° | 2.2 | 24.3 | 68.4 | 83.8 | 81.6 |
| 130° | 2.2 | 22.1 | 59.6 | 75.0 | 72.8 |
| 132.5° | 2.2 | 17.7 | 53.0 | 66.2 | 64.0 |
| 135° | 2.2 | 15.4 | 46.3 | 57.4 | 55.2 |
| 137.5° | 2.2 | 13.2 | 39.7 | 50.7 | 48.5 |
| 140° | 2.2 | 11.0 | 35.3 | 44.1 | 41.9 |
| 142.5° | 2.2 | 8.8 | 28.7 | 37.5 | 35.3 |
| 145° | 2.2 | 6.6 | 24.3 | 30.9 | 28.7 |
| 147.5° | 2.2 | 4.4 | 19.9 | 26.5 | 24.3 |
| 150° | 2.2 | 4.4 | 15.4 | 22.1 | 19.9 |
| 152.5° | 2.2 | 4.4 | 13.2 | 17.7 | 13.2 |
| 155° | 2.2 | 4.4 | 8.8 | 13.2 | 8.8 |
| 157.5° | 2.2 | 4.4 | 6.6 | 8.8 | 6.6 |
| 160° | 2.2 | 4.4 | 6.6 | 6.6 | 2.2 |
| 162.5° | 2.2 | 4.4 | 4.4 | 2.2 | 0.0 |
| 165° | 2.2 | 4.4 | 4.4 | 0.0 | 0.0 |
| 167.5° | 2.2 | 4.4 | 4.4 | 0.0 | 0.0 |
| 170° | 2.2 | 4.4 | 4.4 | 0.0 | 0.0 |
| 172.5° | 2.2 | 4.4 | 4.4 | 0.0 | 0.0 |
| 175° | 4.4 | 4.4 | 4.4 | 0.0 | 0.0 |
| 177.5° | 2.2 | 4.4 | 2.2 | 0.0 | 0.0 |
| 180° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |

(END OF REPORT)