

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-LD5-94SL-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-LD5-94SL-LC-UNV-L830-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

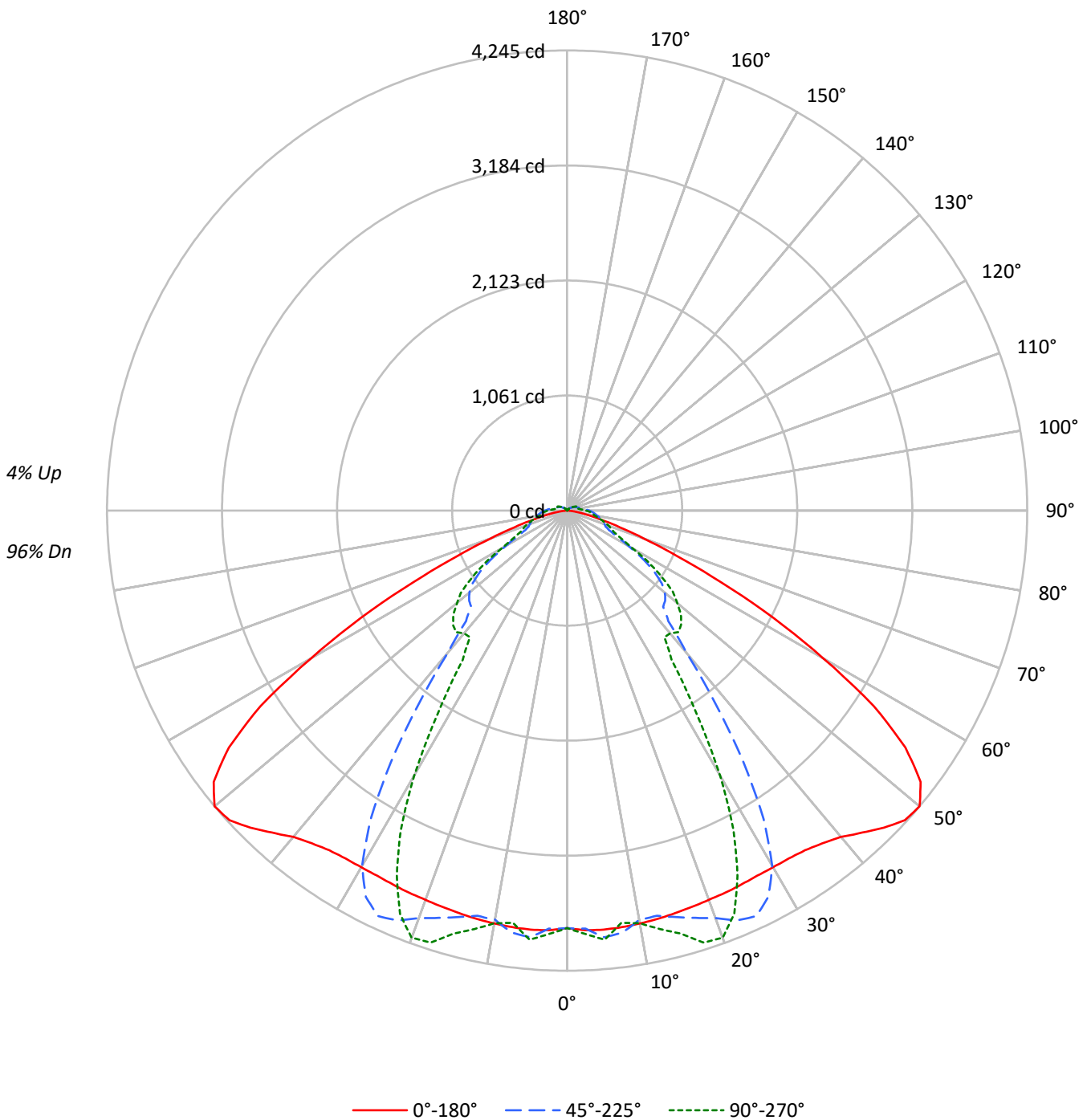
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9291.0 lumens
Efficiency: N/A
Efficacy: 137.8 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): 67.4
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-LD5-94SL-LC-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-94SL-LC-UNV-L830-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 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 96 | | | | |
| 1 | 109 | 105 | 101 | 97 | 106 | 102 | 99 | 95 | 97 | 94 | 92 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | |
| 2 | 100 | 93 | 87 | 82 | 98 | 91 | 85 | 81 | 87 | 82 | 78 | 83 | 79 | 76 | 80 | 77 | 74 | 72 | | | | |
| 3 | 93 | 83 | 76 | 70 | 90 | 81 | 75 | 69 | 78 | 72 | 67 | 75 | 70 | 66 | 72 | 68 | 64 | 62 | | | | |
| 4 | 86 | 75 | 67 | 61 | 83 | 73 | 66 | 60 | 70 | 64 | 59 | 68 | 62 | 58 | 65 | 60 | 57 | 54 | | | | |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 59 | 54 | 50 | 48 | | | | |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 54 | 49 | 45 | 43 | | | | |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 47 | 42 | 53 | 46 | 41 | 52 | 45 | 41 | 50 | 45 | 40 | 38 | | | | |
| 8 | 64 | 51 | 43 | 38 | 62 | 51 | 43 | 38 | 49 | 42 | 37 | 48 | 41 | 37 | 46 | 41 | 37 | 35 | | | | |
| 9 | 60 | 47 | 40 | 35 | 58 | 47 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 37 | 33 | 32 | | | | |
| 10 | 56 | 44 | 36 | 32 | 55 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 40 | 34 | 31 | 29 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 22619 | 22619 | 22619 |
| 5° | 22824 | 22337 | 22127 |
| 10° | 22971 | 21041 | 20626 |
| 15° | 23227 | 20872 | 20828 |
| 20° | 23677 | 21232 | 21084 |
| 25° | 24391 | 21789 | 18373 |
| 30° | 25422 | 20015 | 13824 |
| 35° | 26985 | 15154 | 8212 |
| 40° | 29556 | 9292 | 7266 |
| 45° | 33578 | 6991 | 7414 |
| 50° | 37750 | 6801 | 6748 |
| 55° | 37763 | 5908 | 5580 |
| 60° | 30853 | 4177 | 3780 |
| 65° | 20686 | 2894 | 2742 |
| 70° | 12071 | 2690 | 2475 |
| 75° | 6754 | 2647 | 2101 |
| 80° | 3858 | 2545 | 1794 |
| 85° | 1909 | 2518 | 1765 |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-94SL-LC-UNV-L830-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 372.5 | 4.0 |
| 10°-20° | 1117.0 | 12.0 |
| 20°-30° | 1777.7 | 19.1 |
| 30°-40° | 1811.7 | 19.5 |
| 40°-50° | 1530.2 | 16.5 |
| 50°-60° | 1179.5 | 12.7 |
| 60°-70° | 609.3 | 6.6 |
| 70°-80° | 336.7 | 3.6 |
| 80°-90° | 214.3 | 2.3 |
| 90°-100° | 131.8 | 1.4 |
| 100°-110° | 85.0 | 0.9 |
| 110°-120° | 61.7 | 0.7 |
| 120°-130° | 35.6 | 0.4 |
| 130°-140° | 17.2 | 0.2 |
| 140°-150° | 7.2 | 0.1 |
| 150°-160° | 2.5 | 0.0 |
| 160°-170° | 0.9 | 0.0 |
| 170°-180° | 0.3 | 0.0 |
| 0°-30° | 3267.1 | 35.2 |
| 0°-40° | 5078.9 | 54.7 |
| 0°-60° | 7788.5 | 83.8 |
| 0°-90° | 8948.7 | 96.3 |
| 90°-120° | 278.5 | 3.0 |
| 90°-150° | 338.5 | 3.6 |
| 90°-180° | 342.0 | 3.7 |
| 0°-180° | 9291.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3852 | 3852 | 3852 | 3852 | 3852 | |
| 5° | 3880 | 3894 | 3952 | 3989 | 3973 | 370 |
| 15° | 3845 | 3847 | 3882 | 4021 | 4039 | 1089 |
| 25° | 3805 | 3831 | 4128 | 3926 | 3718 | 1762 |
| 35° | 3825 | 4005 | 2836 | 1928 | 1680 | 2414 |
| 45° | 4136 | 2414 | 1252 | 1445 | 1488 | 3194 |
| 55° | 3809 | 888 | 979 | 1064 | 1064 | 3298 |
| 65° | 1562 | 406 | 426 | 480 | 480 | 1611 |
| 75° | 323 | 268 | 329 | 331 | 323 | 389 |
| 85° | 36 | 174 | 246 | 238 | 226 | 49 |
| 90° | 0 | 135 | 204 | 188 | 174 | 2 |
| 95° | 0 | 105 | 162 | 143 | 131 | 0 |
| 105° | 0 | 63 | 107 | 99 | 93 | 0 |
| 115° | 2 | 38 | 77 | 93 | 91 | 1 |
| 125° | 2 | 20 | 50 | 60 | 54 | 2 |
| 135° | 2 | 10 | 28 | 34 | 28 | 2 |
| 145° | 2 | 4 | 14 | 18 | 14 | 1 |
| 155° | 2 | 2 | 6 | 8 | 4 | 1 |
| 165° | 2 | 4 | 4 | 4 | 0 | 1 |
| 175° | 4 | 4 | 4 | 4 | 0 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-94SL-LC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3852.5 | 3852.5 | 3852.5 | 3852.5 | 3852.5 |
| 2.5° | 3874.3 | 3860.5 | 3860.5 | 3910.0 | 3910.0 |
| 5° | 3880.3 | 3894.1 | 3951.6 | 3989.3 | 3973.4 |
| 7.5° | 3876.3 | 3939.7 | 3925.9 | 3870.4 | 3834.7 |
| 10° | 3868.4 | 3963.5 | 3832.7 | 3870.4 | 3866.4 |
| 12.5° | 3858.5 | 3927.8 | 3828.7 | 3961.5 | 3953.6 |
| 15° | 3844.6 | 3846.6 | 3882.3 | 4021.0 | 4038.8 |
| 17.5° | 3832.7 | 3795.1 | 3939.7 | 4126.0 | 4177.5 |
| 20° | 3820.8 | 3779.2 | 4001.2 | 4215.2 | 4193.4 |
| 22.5° | 3814.9 | 3793.1 | 4092.3 | 4147.8 | 4026.9 |
| 25° | 3805.0 | 3830.7 | 4128.0 | 3925.9 | 3717.8 |
| 27.5° | 3797.0 | 3874.3 | 4019.0 | 3547.3 | 3325.4 |
| 30° | 3799.0 | 3935.8 | 3783.2 | 3103.4 | 2824.0 |
| 32.5° | 3805.0 | 3995.2 | 3372.9 | 2508.9 | 2219.6 |
| 35° | 3824.8 | 4005.1 | 2835.9 | 1928.2 | 1680.5 |
| 37.5° | 3868.4 | 3896.1 | 2251.3 | 1525.9 | 1472.4 |
| 40° | 3929.8 | 3567.2 | 1708.3 | 1424.9 | 1478.4 |
| 42.5° | 4028.9 | 3014.2 | 1381.3 | 1440.7 | 1520.0 |
| 45° | 4135.9 | 2413.8 | 1252.5 | 1444.7 | 1488.3 |
| 47.5° | 4227.1 | 1781.6 | 1226.7 | 1391.2 | 1422.9 |
| 50° | 4244.9 | 1341.6 | 1177.2 | 1306.0 | 1325.8 |
| 52.5° | 4110.2 | 1060.2 | 1097.9 | 1193.0 | 1228.7 |
| 55° | 3808.9 | 887.8 | 979.0 | 1064.2 | 1064.2 |
| 57.5° | 3355.1 | 753.1 | 822.4 | 903.7 | 895.8 |
| 60° | 2730.9 | 620.3 | 656.0 | 705.5 | 693.6 |
| 62.5° | 2148.2 | 497.4 | 509.3 | 562.8 | 570.7 |
| 65° | 1561.6 | 406.3 | 426.1 | 479.6 | 479.6 |
| 67.5° | 1095.9 | 346.8 | 384.5 | 434.0 | 438.0 |
| 70° | 747.1 | 313.1 | 366.6 | 406.3 | 408.2 |
| 72.5° | 509.3 | 289.3 | 348.8 | 370.6 | 364.6 |
| 75° | 323.0 | 267.5 | 329.0 | 331.0 | 323.0 |
| 77.5° | 210.1 | 243.8 | 309.2 | 293.3 | 287.4 |
| 80° | 128.8 | 220.0 | 283.4 | 263.6 | 253.7 |
| 82.5° | 73.3 | 196.2 | 263.6 | 249.7 | 239.8 |
| 85° | 35.7 | 174.4 | 245.7 | 237.8 | 225.9 |
| 87.5° | 13.9 | 154.6 | 225.9 | 214.0 | 202.1 |
| 90° | 0.0 | 134.8 | 204.1 | 188.3 | 174.4 |
| 92.5° | 0.0 | 118.9 | 182.3 | 162.5 | 150.6 |
| 95° | 0.0 | 105.0 | 162.5 | 142.7 | 130.8 |
| 97.5° | 0.0 | 93.1 | 144.7 | 126.8 | 113.0 |
| 100° | 0.0 | 83.2 | 130.8 | 113.0 | 103.1 |
| 102.5° | 0.0 | 73.3 | 116.9 | 105.0 | 99.1 |
| 105° | 0.0 | 63.4 | 107.0 | 99.1 | 93.1 |
| 107.5° | 0.0 | 55.5 | 97.1 | 95.1 | 91.2 |
| 110° | 0.0 | 49.5 | 91.2 | 93.1 | 95.1 |



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-94SL-LC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 43.6 | 83.2 | 95.1 | 97.1 |
| 115° | 2.0 | 37.7 | 77.3 | 93.1 | 91.2 |
| 117.5° | 2.0 | 31.7 | 69.4 | 83.2 | 79.3 |
| 120° | 2.0 | 27.7 | 63.4 | 75.3 | 69.4 |
| 122.5° | 2.0 | 23.8 | 55.5 | 65.4 | 61.4 |
| 125° | 2.0 | 19.8 | 49.5 | 59.5 | 53.5 |
| 127.5° | 2.0 | 17.8 | 43.6 | 51.5 | 47.6 |
| 130° | 2.0 | 15.9 | 37.7 | 45.6 | 41.6 |
| 132.5° | 2.0 | 11.9 | 33.7 | 39.6 | 33.7 |
| 135° | 2.0 | 9.9 | 27.7 | 33.7 | 27.7 |
| 137.5° | 2.0 | 7.9 | 23.8 | 27.7 | 23.8 |
| 140° | 2.0 | 5.9 | 19.8 | 23.8 | 19.8 |
| 142.5° | 2.0 | 5.9 | 15.9 | 21.8 | 15.9 |
| 145° | 2.0 | 4.0 | 13.9 | 17.8 | 13.9 |
| 147.5° | 2.0 | 4.0 | 11.9 | 15.9 | 11.9 |
| 150° | 2.0 | 4.0 | 9.9 | 13.9 | 7.9 |
| 152.5° | 2.0 | 2.0 | 7.9 | 11.9 | 5.9 |
| 155° | 2.0 | 2.0 | 5.9 | 7.9 | 4.0 |
| 157.5° | 2.0 | 2.0 | 5.9 | 5.9 | 4.0 |
| 160° | 2.0 | 2.0 | 5.9 | 5.9 | 2.0 |
| 162.5° | 2.0 | 2.0 | 4.0 | 4.0 | 0.0 |
| 165° | 2.0 | 4.0 | 4.0 | 4.0 | 0.0 |
| 167.5° | 2.0 | 4.0 | 4.0 | 4.0 | 0.0 |
| 170° | 2.0 | 4.0 | 4.0 | 4.0 | 0.0 |
| 172.5° | 2.0 | 4.0 | 4.0 | 4.0 | 0.0 |
| 175° | 4.0 | 4.0 | 4.0 | 4.0 | 0.0 |
| 177.5° | 4.0 | 4.0 | 4.0 | 4.0 | 0.0 |
| 180° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |

(END OF REPORT)