

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: **4SRL-LD5-34SL-LW-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 (P35653)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SRL-LD5-34SL-LW-UNV-L830-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

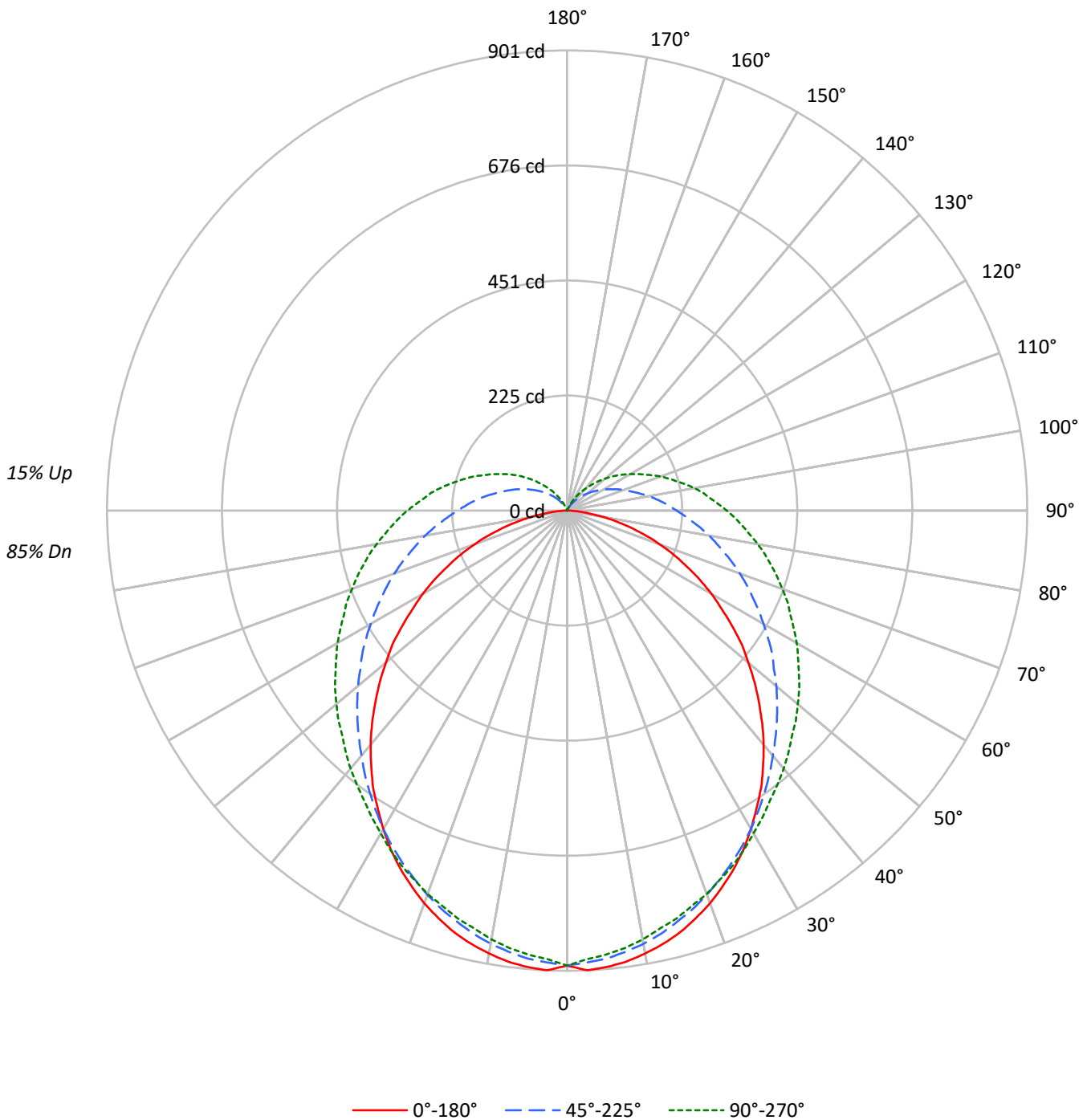
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3427.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 3.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 26.8
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: 4SRL-LD5-34SL-LW-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-34SL-LW-UNV-L830-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF | 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 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 103 | 103 | 103 | 95 | 95 | 95 | 88 | 88 | 88 | 85 | | | | | | | | | | | | | | | | | | | | |
| 1 | 103 | 97 | 92 | 87 | 98 | 93 | 88 | 84 | 86 | 82 | 79 | 80 | 76 | 74 | 74 | 71 | 69 | 66 | | | | | | | | | | | | | | | | | | | | |
| 2 | 92 | 83 | 75 | 69 | 88 | 80 | 73 | 67 | 74 | 68 | 63 | 68 | 64 | 59 | 63 | 59 | 56 | 53 | | | | | | | | | | | | | | | | | | | | |
| 3 | 84 | 72 | 63 | 56 | 80 | 70 | 61 | 55 | 64 | 58 | 52 | 60 | 54 | 49 | 55 | 51 | 47 | 44 | | | | | | | | | | | | | | | | | | | | |
| 4 | 76 | 64 | 54 | 47 | 73 | 61 | 53 | 46 | 57 | 50 | 44 | 53 | 47 | 42 | 49 | 44 | 40 | 37 | | | | | | | | | | | | | | | | | | | | |
| 5 | 70 | 57 | 47 | 40 | 67 | 55 | 46 | 39 | 51 | 43 | 38 | 47 | 41 | 36 | 44 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | | |
| 6 | 65 | 51 | 42 | 35 | 62 | 49 | 40 | 34 | 46 | 38 | 33 | 43 | 36 | 31 | 40 | 34 | 30 | 27 | | | | | | | | | | | | | | | | | | | | |
| 7 | 60 | 46 | 37 | 31 | 57 | 44 | 36 | 30 | 42 | 34 | 29 | 39 | 32 | 28 | 36 | 31 | 26 | 24 | | | | | | | | | | | | | | | | | | | | |
| 8 | 56 | 42 | 33 | 27 | 53 | 41 | 32 | 27 | 38 | 31 | 26 | 36 | 29 | 25 | 33 | 28 | 24 | 21 | | | | | | | | | | | | | | | | | | | | |
| 9 | 52 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 35 | 28 | 23 | 33 | 27 | 22 | 31 | 25 | 21 | 19 | | | | | | | | | | | | | | | | | | | | |
| 10 | 49 | 35 | 27 | 22 | 47 | 34 | 27 | 22 | 32 | 25 | 21 | 30 | 24 | 20 | 29 | 23 | 19 | 17 | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10459 | 10459 | 10459 |
| 5° | 10532 | 9941 | 9721 |
| 10° | 10415 | 9432 | 9095 |
| 15° | 10268 | 8926 | 8529 |
| 20° | 10054 | 8449 | 8033 |
| 25° | 9811 | 7993 | 7580 |
| 30° | 9509 | 7560 | 7146 |
| 35° | 9201 | 7140 | 6772 |
| 40° | 8837 | 6751 | 6485 |
| 45° | 8431 | 6413 | 6204 |
| 50° | 8027 | 6104 | 6001 |
| 55° | 7580 | 5835 | 5808 |
| 60° | 7113 | 5571 | 5660 |
| 65° | 6527 | 5353 | 5515 |
| 70° | 5881 | 5183 | 5431 |
| 75° | 5000 | 5027 | 5377 |
| 80° | 3774 | 4946 | 5361 |
| 85° | 2146 | 4912 | 5384 |



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-34SL-LW-UNV-L830-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.8 | 2.4 |
| 10°-20° | 236.5 | 6.9 |
| 20°-30° | 353.2 | 10.3 |
| 30°-40° | 423.3 | 12.4 |
| 40°-50° | 447.8 | 13.1 |
| 50°-60° | 432.4 | 12.6 |
| 60°-70° | 384.7 | 11.2 |
| 70°-80° | 316.3 | 9.2 |
| 80°-90° | 241.9 | 7.1 |
| 90°-100° | 181.9 | 5.3 |
| 100°-110° | 132.8 | 3.9 |
| 110°-120° | 90.9 | 2.7 |
| 120°-130° | 56.8 | 1.7 |
| 130°-140° | 30.3 | 0.9 |
| 140°-150° | 12.1 | 0.4 |
| 150°-160° | 2.3 | 0.1 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 673.5 | 19.7 |
| 0°-40° | 1096.8 | 32.0 |
| 0°-60° | 1977.1 | 57.7 |
| 0°-90° | 2919.9 | 85.2 |
| 90°-120° | 405.6 | 11.8 |
| 90°-150° | 504.8 | 14.7 |
| 90°-180° | 507.0 | 14.8 |
| 0°-180° | 3427.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 891 | 891 | 891 | 891 | 891 | |
| 5° | 897 | 892 | 880 | 879 | 873 | 85 |
| 15° | 855 | 846 | 833 | 833 | 827 | 241 |
| 25° | 773 | 766 | 762 | 771 | 767 | 356 |
| 35° | 662 | 660 | 674 | 693 | 693 | 413 |
| 45° | 531 | 546 | 581 | 614 | 623 | 410 |
| 55° | 394 | 430 | 490 | 538 | 554 | 353 |
| 65° | 258 | 316 | 401 | 463 | 482 | 256 |
| 75° | 129 | 213 | 319 | 392 | 413 | 137 |
| 85° | 24 | 131 | 246 | 320 | 344 | 29 |
| 90° | 0 | 101 | 214 | 288 | 313 | 1 |
| 95° | 0 | 78 | 188 | 259 | 281 | 0 |
| 105° | 0 | 48 | 138 | 202 | 222 | 0 |
| 115° | 0 | 29 | 98 | 152 | 167 | 0 |
| 125° | 0 | 18 | 66 | 107 | 120 | 0 |
| 135° | 0 | 9 | 41 | 68 | 75 | 0 |
| 145° | 0 | 3 | 18 | 34 | 40 | 0 |
| 155° | 0 | 0 | 3 | 9 | 9 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-34SL-LW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 890.7 | 890.7 | 890.7 | 890.7 | 890.7 |
| 2.5° | 900.9 | 895.8 | 885.6 | 884.3 | 879.2 |
| 5° | 897.1 | 892.0 | 880.5 | 879.2 | 872.8 |
| 7.5° | 890.7 | 884.3 | 871.5 | 870.3 | 863.9 |
| 10° | 880.5 | 874.1 | 861.3 | 860.1 | 852.4 |
| 12.5° | 869.0 | 862.6 | 848.6 | 847.3 | 838.4 |
| 15° | 854.9 | 846.0 | 833.3 | 833.3 | 826.9 |
| 17.5° | 837.1 | 829.4 | 817.9 | 819.2 | 811.6 |
| 20° | 817.9 | 810.3 | 800.1 | 803.9 | 798.8 |
| 22.5° | 796.2 | 787.3 | 780.9 | 786.0 | 782.2 |
| 25° | 773.3 | 765.6 | 761.8 | 770.7 | 766.9 |
| 27.5° | 747.8 | 740.1 | 741.4 | 750.3 | 749.0 |
| 30° | 719.7 | 714.6 | 719.7 | 731.2 | 729.9 |
| 32.5° | 690.3 | 687.8 | 696.7 | 712.0 | 712.0 |
| 35° | 662.3 | 659.7 | 673.7 | 692.9 | 692.9 |
| 37.5° | 630.4 | 631.6 | 650.8 | 672.5 | 676.3 |
| 40° | 598.5 | 603.6 | 626.5 | 653.3 | 659.7 |
| 42.5° | 565.3 | 574.2 | 603.6 | 632.9 | 641.8 |
| 45° | 530.8 | 546.1 | 580.6 | 613.8 | 622.7 |
| 47.5° | 497.7 | 516.8 | 557.6 | 595.9 | 607.4 |
| 50° | 463.2 | 486.2 | 534.7 | 576.8 | 589.5 |
| 52.5° | 431.3 | 458.1 | 510.4 | 557.6 | 572.9 |
| 55° | 394.3 | 430.0 | 490.0 | 538.5 | 553.8 |
| 57.5° | 358.6 | 400.7 | 467.0 | 519.3 | 535.9 |
| 60° | 326.7 | 371.3 | 444.1 | 501.5 | 519.3 |
| 62.5° | 292.2 | 343.3 | 422.4 | 482.3 | 500.2 |
| 65° | 257.8 | 316.5 | 400.7 | 463.2 | 482.3 |
| 67.5° | 225.9 | 288.4 | 380.3 | 445.3 | 467.0 |
| 70° | 192.7 | 262.9 | 359.8 | 427.5 | 447.9 |
| 72.5° | 160.8 | 237.3 | 339.4 | 408.3 | 431.3 |
| 75° | 128.9 | 213.1 | 319.0 | 391.7 | 413.4 |
| 77.5° | 98.3 | 190.1 | 299.9 | 373.9 | 396.8 |
| 80° | 70.2 | 168.4 | 282.0 | 356.0 | 379.0 |
| 82.5° | 44.7 | 148.0 | 264.1 | 338.2 | 361.1 |
| 85° | 24.2 | 131.4 | 246.3 | 320.3 | 344.5 |
| 87.5° | 8.9 | 113.6 | 229.7 | 305.0 | 329.2 |
| 90° | 0.0 | 100.8 | 214.4 | 288.4 | 312.6 |
| 92.5° | 0.0 | 88.0 | 200.3 | 273.1 | 296.0 |
| 95° | 0.0 | 77.8 | 187.6 | 259.0 | 280.7 |
| 97.5° | 0.0 | 68.9 | 174.8 | 245.0 | 268.0 |
| 100° | 0.0 | 61.2 | 162.1 | 229.7 | 252.7 |
| 102.5° | 0.0 | 53.6 | 149.3 | 215.7 | 237.3 |
| 105° | 0.0 | 48.5 | 137.8 | 201.6 | 222.0 |
| 107.5° | 0.0 | 43.4 | 127.6 | 190.1 | 208.0 |
| 110° | 0.0 | 38.3 | 117.4 | 176.1 | 195.2 |



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-34SL-LW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 34.5 | 108.5 | 164.6 | 179.9 |
| 115° | 0.0 | 29.3 | 98.3 | 151.8 | 167.2 |
| 117.5° | 0.0 | 26.8 | 90.6 | 140.4 | 154.4 |
| 120° | 0.0 | 23.0 | 81.7 | 128.9 | 142.9 |
| 122.5° | 0.0 | 20.4 | 74.0 | 117.4 | 131.4 |
| 125° | 0.0 | 17.9 | 66.4 | 107.2 | 119.9 |
| 127.5° | 0.0 | 15.3 | 60.0 | 97.0 | 108.5 |
| 130° | 0.0 | 12.8 | 52.3 | 86.8 | 97.0 |
| 132.5° | 0.0 | 10.2 | 45.9 | 76.6 | 86.8 |
| 135° | 0.0 | 8.9 | 40.8 | 67.6 | 75.3 |
| 137.5° | 0.0 | 6.4 | 34.5 | 58.7 | 66.4 |
| 140° | 0.0 | 5.1 | 29.3 | 51.0 | 56.1 |
| 142.5° | 0.0 | 3.8 | 23.0 | 42.1 | 48.5 |
| 145° | 0.0 | 2.6 | 17.9 | 34.5 | 39.6 |
| 147.5° | 0.0 | 1.3 | 12.8 | 28.1 | 30.6 |
| 150° | 0.0 | 1.3 | 8.9 | 21.7 | 23.0 |
| 152.5° | 0.0 | 0.0 | 6.4 | 15.3 | 15.3 |
| 155° | 0.0 | 0.0 | 2.6 | 8.9 | 8.9 |
| 157.5° | 1.3 | 0.0 | 1.3 | 3.8 | 3.8 |
| 160° | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)