

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-LD5-37SL-LW-UNV-L835-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-LD5-37SL-LW-UNV-L835-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

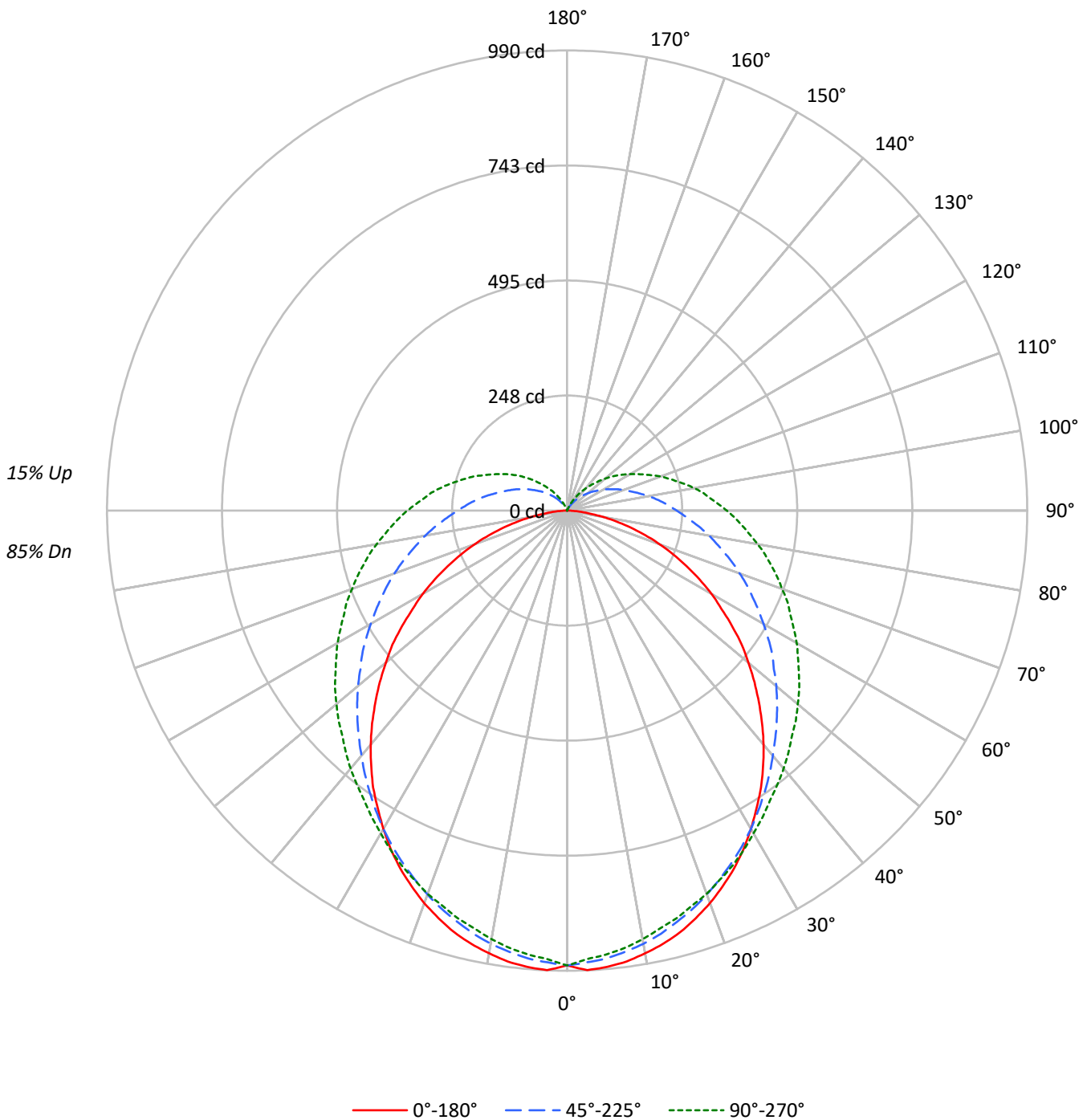
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3765.0 lumens
Efficiency: N/A
Efficacy: 127.2 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): 29.6
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#
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Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-37SL-LW-UNV-L835-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 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 | 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° | 11490 | 11490 | 11490 |
| 5° | 11570 | 10921 | 10680 |
| 10° | 11442 | 10363 | 9992 |
| 15° | 11281 | 9805 | 9369 |
| 20° | 11046 | 9283 | 8825 |
| 25° | 10778 | 8781 | 8327 |
| 30° | 10447 | 8306 | 7851 |
| 35° | 10108 | 7845 | 7439 |
| 40° | 9708 | 7417 | 7125 |
| 45° | 9264 | 7045 | 6816 |
| 50° | 8819 | 6706 | 6594 |
| 55° | 8328 | 6410 | 6380 |
| 60° | 7814 | 6120 | 6219 |
| 65° | 7170 | 5881 | 6060 |
| 70° | 6461 | 5694 | 5966 |
| 75° | 5493 | 5523 | 5908 |
| 80° | 4145 | 5433 | 5890 |
| 85° | 2358 | 5397 | 5916 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.1 | 2.4 |
| 10°-20° | 259.8 | 6.9 |
| 20°-30° | 388.1 | 10.3 |
| 30°-40° | 465.1 | 12.4 |
| 40°-50° | 492.0 | 13.1 |
| 50°-60° | 475.1 | 12.6 |
| 60°-70° | 422.6 | 11.2 |
| 70°-80° | 347.5 | 9.2 |
| 80°-90° | 265.7 | 7.1 |
| 90°-100° | 199.8 | 5.3 |
| 100°-110° | 145.9 | 3.9 |
| 110°-120° | 99.9 | 2.7 |
| 120°-130° | 62.3 | 1.7 |
| 130°-140° | 33.3 | 0.9 |
| 140°-150° | 13.3 | 0.4 |
| 150°-160° | 2.5 | 0.1 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 739.9 | 19.7 |
| 0°-40° | 1205.0 | 32.0 |
| 0°-60° | 2172.1 | 57.7 |
| 0°-90° | 3207.9 | 85.2 |
| 90°-120° | 445.6 | 11.8 |
| 90°-150° | 554.5 | 14.7 |
| 90°-180° | 557.0 | 14.8 |
| 0°-180° | 3765.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 978 | 978 | 978 | 978 | 978 | |
| 5° | 986 | 980 | 967 | 966 | 959 | 93 |
| 15° | 939 | 930 | 915 | 915 | 908 | 265 |
| 25° | 850 | 841 | 837 | 847 | 842 | 391 |
| 35° | 728 | 725 | 740 | 761 | 761 | 454 |
| 45° | 583 | 600 | 638 | 674 | 684 | 450 |
| 55° | 433 | 472 | 538 | 592 | 608 | 388 |
| 65° | 283 | 348 | 440 | 509 | 530 | 281 |
| 75° | 142 | 234 | 350 | 430 | 454 | 150 |
| 85° | 27 | 144 | 271 | 352 | 378 | 32 |
| 90° | 0 | 111 | 236 | 317 | 344 | 1 |
| 95° | 0 | 86 | 206 | 285 | 308 | 0 |
| 105° | 0 | 53 | 151 | 222 | 244 | 0 |
| 115° | 0 | 32 | 108 | 167 | 184 | 0 |
| 125° | 0 | 20 | 73 | 118 | 132 | 0 |
| 135° | 0 | 10 | 45 | 74 | 83 | 0 |
| 145° | 0 | 3 | 20 | 38 | 44 | 0 |
| 155° | 0 | 0 | 3 | 10 | 10 | 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-LD5-37SL-LW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 978.5 | 978.5 | 978.5 | 978.5 | 978.5 |
| 2.5° | 989.7 | 984.1 | 972.9 | 971.5 | 965.9 |
| 5° | 985.5 | 979.9 | 967.3 | 965.9 | 958.9 |
| 7.5° | 978.5 | 971.5 | 957.5 | 956.1 | 949.1 |
| 10° | 967.3 | 960.3 | 946.3 | 944.9 | 936.5 |
| 12.5° | 954.7 | 947.7 | 932.3 | 930.9 | 921.0 |
| 15° | 939.3 | 929.5 | 915.4 | 915.4 | 908.4 |
| 17.5° | 919.6 | 911.2 | 898.6 | 900.0 | 891.6 |
| 20° | 898.6 | 890.2 | 879.0 | 883.2 | 877.6 |
| 22.5° | 874.8 | 865.0 | 858.0 | 863.6 | 859.4 |
| 25° | 849.5 | 841.1 | 836.9 | 846.7 | 842.5 |
| 27.5° | 821.5 | 813.1 | 814.5 | 824.3 | 822.9 |
| 30° | 790.7 | 785.1 | 790.7 | 803.3 | 801.9 |
| 32.5° | 758.4 | 755.6 | 765.4 | 782.3 | 782.3 |
| 35° | 727.6 | 724.8 | 740.2 | 761.2 | 761.2 |
| 37.5° | 692.5 | 693.9 | 715.0 | 738.8 | 743.0 |
| 40° | 657.5 | 663.1 | 688.3 | 717.8 | 724.8 |
| 42.5° | 621.0 | 630.9 | 663.1 | 695.3 | 705.2 |
| 45° | 583.2 | 600.0 | 637.9 | 674.3 | 684.1 |
| 47.5° | 546.7 | 567.8 | 612.6 | 654.7 | 667.3 |
| 50° | 508.9 | 534.1 | 587.4 | 633.7 | 647.7 |
| 52.5° | 473.8 | 503.3 | 560.8 | 612.6 | 629.5 |
| 55° | 433.2 | 472.4 | 538.3 | 591.6 | 608.4 |
| 57.5° | 393.9 | 440.2 | 513.1 | 570.6 | 588.8 |
| 60° | 358.9 | 408.0 | 487.9 | 550.9 | 570.6 |
| 62.5° | 321.0 | 377.1 | 464.0 | 529.9 | 549.5 |
| 65° | 283.2 | 347.7 | 440.2 | 508.9 | 529.9 |
| 67.5° | 248.1 | 316.8 | 417.8 | 489.3 | 513.1 |
| 70° | 211.7 | 288.8 | 395.3 | 469.6 | 492.1 |
| 72.5° | 176.6 | 260.8 | 372.9 | 448.6 | 473.8 |
| 75° | 141.6 | 234.1 | 350.5 | 430.4 | 454.2 |
| 77.5° | 107.9 | 208.9 | 329.4 | 410.8 | 436.0 |
| 80° | 77.1 | 185.0 | 309.8 | 391.1 | 416.4 |
| 82.5° | 49.1 | 162.6 | 290.2 | 371.5 | 396.7 |
| 85° | 26.6 | 144.4 | 270.6 | 351.9 | 378.5 |
| 87.5° | 9.8 | 124.8 | 252.3 | 335.1 | 361.7 |
| 90° | 0.0 | 110.7 | 235.5 | 316.8 | 343.5 |
| 92.5° | 0.0 | 96.7 | 220.1 | 300.0 | 325.2 |
| 95° | 0.0 | 85.5 | 206.1 | 284.6 | 308.4 |
| 97.5° | 0.0 | 75.7 | 192.1 | 269.2 | 294.4 |
| 100° | 0.0 | 67.3 | 178.0 | 252.3 | 277.6 |
| 102.5° | 0.0 | 58.9 | 164.0 | 236.9 | 260.8 |
| 105° | 0.0 | 53.3 | 151.4 | 221.5 | 243.9 |
| 107.5° | 0.0 | 47.7 | 140.2 | 208.9 | 228.5 |
| 110° | 0.0 | 42.1 | 129.0 | 193.5 | 214.5 |



TEST NUMBER: P#

CATALOG NUMBER: 4SRL-LD5-37SL-LW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 37.9 | 119.2 | 180.8 | 197.7 |
| 115° | 0.0 | 32.2 | 107.9 | 166.8 | 183.6 |
| 117.5° | 0.0 | 29.4 | 99.5 | 154.2 | 169.6 |
| 120° | 0.0 | 25.2 | 89.7 | 141.6 | 157.0 |
| 122.5° | 0.0 | 22.4 | 81.3 | 129.0 | 144.4 |
| 125° | 0.0 | 19.6 | 72.9 | 117.8 | 131.8 |
| 127.5° | 0.0 | 16.8 | 65.9 | 106.5 | 119.2 |
| 130° | 0.0 | 14.0 | 57.5 | 95.3 | 106.5 |
| 132.5° | 0.0 | 11.2 | 50.5 | 84.1 | 95.3 |
| 135° | 0.0 | 9.8 | 44.9 | 74.3 | 82.7 |
| 137.5° | 0.0 | 7.0 | 37.9 | 64.5 | 72.9 |
| 140° | 0.0 | 5.6 | 32.2 | 56.1 | 61.7 |
| 142.5° | 0.0 | 4.2 | 25.2 | 46.3 | 53.3 |
| 145° | 0.0 | 2.8 | 19.6 | 37.9 | 43.5 |
| 147.5° | 0.0 | 1.4 | 14.0 | 30.8 | 33.6 |
| 150° | 0.0 | 1.4 | 9.8 | 23.8 | 25.2 |
| 152.5° | 0.0 | 0.0 | 7.0 | 16.8 | 16.8 |
| 155° | 0.0 | 0.0 | 2.8 | 9.8 | 9.8 |
| 157.5° | 1.4 | 0.0 | 1.4 | 4.2 | 4.2 |
| 160° | 1.4 | 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)