

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: **2SNLED-LD5-18SL-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-18SL-SLN-UNV-L835-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

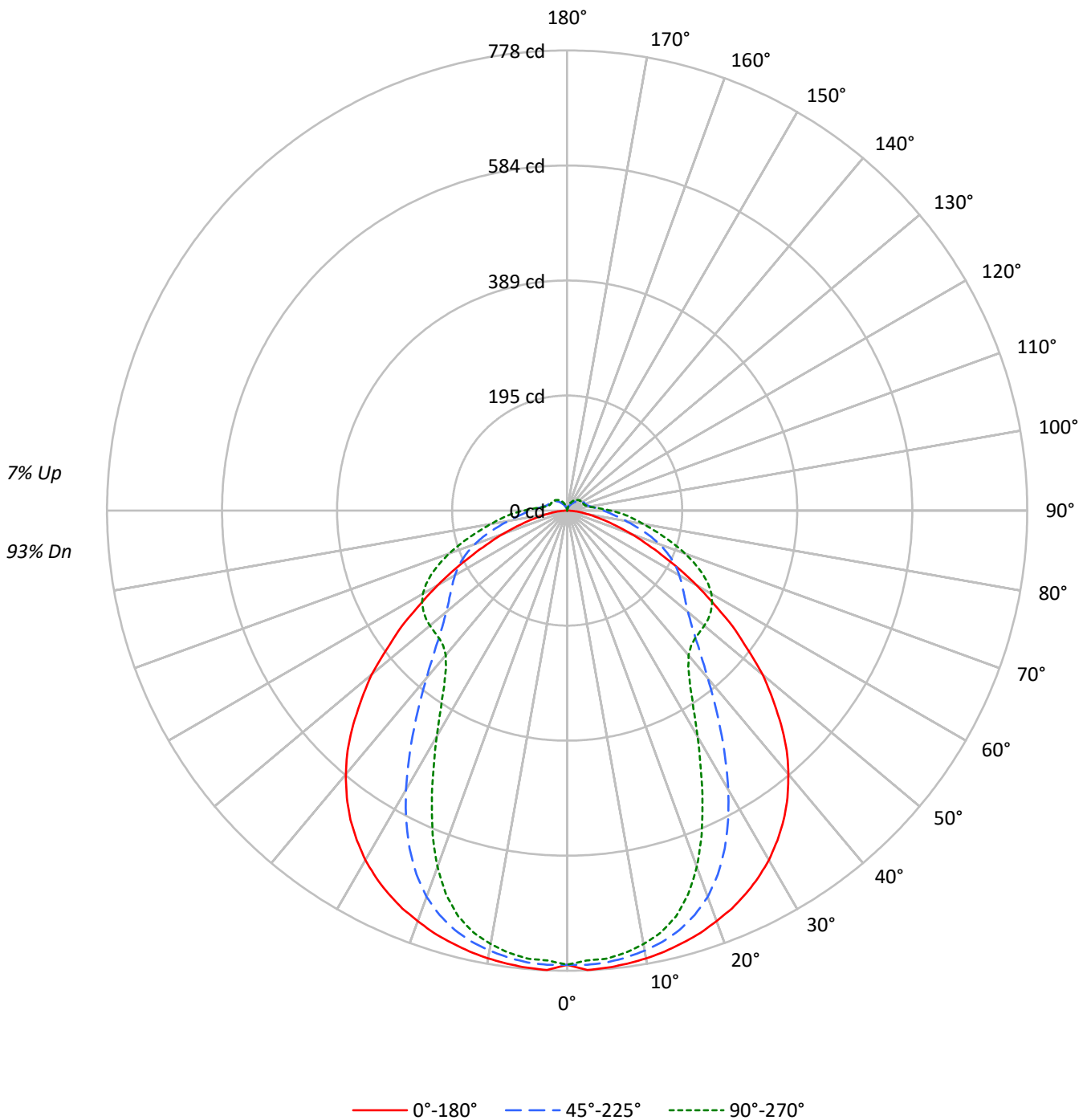
Lumens per Lamp: N/A
Luminaire Lumens: 1931.0 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 14
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



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Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-18SL-SLN-UNV-L835-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 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 93 |
| 1 | 107 | 102 | 97 | 93 | 103 | 99 | 94 | 91 | 93 | 90 | 87 | 88 | 85 | 83 | 83 | 81 | 79 | 76 |
| 2 | 97 | 89 | 82 | 76 | 94 | 86 | 80 | 75 | 81 | 76 | 72 | 77 | 73 | 69 | 73 | 70 | 66 | 64 |
| 3 | 89 | 78 | 70 | 64 | 86 | 76 | 69 | 63 | 72 | 66 | 61 | 68 | 63 | 59 | 65 | 61 | 57 | 54 |
| 4 | 82 | 70 | 61 | 55 | 79 | 68 | 60 | 54 | 65 | 58 | 52 | 61 | 55 | 51 | 58 | 53 | 49 | 47 |
| 5 | 75 | 63 | 54 | 47 | 73 | 61 | 53 | 47 | 58 | 51 | 46 | 55 | 49 | 44 | 53 | 48 | 43 | 41 |
| 6 | 70 | 57 | 48 | 42 | 67 | 55 | 47 | 41 | 53 | 46 | 40 | 51 | 44 | 39 | 48 | 43 | 39 | 36 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 42 | 37 | 48 | 41 | 36 | 46 | 40 | 35 | 44 | 39 | 35 | 32 |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 39 | 33 | 44 | 37 | 32 | 43 | 36 | 32 | 41 | 35 | 31 | 29 |
| 9 | 57 | 44 | 36 | 30 | 55 | 43 | 35 | 30 | 41 | 34 | 29 | 40 | 33 | 29 | 38 | 33 | 28 | 27 |
| 10 | 53 | 40 | 33 | 28 | 52 | 40 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 35 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12409 | 12409 | 12409 |
| 5° | 12520 | 12112 | 11946 |
| 10° | 12480 | 11757 | 11455 |
| 15° | 12449 | 11342 | 10800 |
| 20° | 12419 | 10740 | 9700 |
| 25° | 12386 | 9823 | 8215 |
| 30° | 12286 | 8627 | 6756 |
| 35° | 12068 | 7326 | 5662 |
| 40° | 11667 | 6191 | 5118 |
| 45° | 10997 | 5370 | 5080 |
| 50° | 10104 | 4897 | 5259 |
| 55° | 8839 | 4695 | 5443 |
| 60° | 7397 | 4612 | 5516 |
| 65° | 5885 | 4493 | 5346 |
| 70° | 4658 | 4244 | 4929 |
| 75° | 3428 | 3818 | 4375 |
| 80° | 2433 | 3404 | 3891 |
| 85° | 1482 | 3178 | 3579 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.6 | 3.8 |
| 10°-20° | 205.3 | 10.6 |
| 20°-30° | 287.0 | 14.9 |
| 30°-40° | 297.7 | 15.4 |
| 40°-50° | 275.0 | 14.2 |
| 50°-60° | 245.6 | 12.7 |
| 60°-70° | 199.0 | 10.3 |
| 70°-80° | 132.4 | 6.9 |
| 80°-90° | 75.8 | 3.9 |
| 90°-100° | 41.9 | 2.2 |
| 100°-110° | 28.4 | 1.5 |
| 110°-120° | 23.6 | 1.2 |
| 120°-130° | 19.2 | 1.0 |
| 130°-140° | 13.9 | 0.7 |
| 140°-150° | 8.4 | 0.4 |
| 150°-160° | 4.0 | 0.2 |
| 160°-170° | 1.0 | 0.1 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 565.0 | 29.3 |
| 0°-40° | 862.7 | 44.7 |
| 0°-60° | 1383.3 | 71.6 |
| 0°-90° | 1790.5 | 92.7 |
| 90°-120° | 94.0 | 4.9 |
| 90°-150° | 135.4 | 7.0 |
| 90°-180° | 140.0 | 7.3 |
| 0°-180° | 1931.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 768 | 768 | 768 | 768 | 768 | |
| 5° | 776 | 763 | 767 | 762 | 760 | 74 |
| 15° | 756 | 740 | 734 | 718 | 710 | 214 |
| 25° | 715 | 683 | 630 | 564 | 541 | 329 |
| 35° | 638 | 568 | 452 | 379 | 362 | 398 |
| 45° | 511 | 405 | 308 | 297 | 306 | 393 |
| 55° | 342 | 258 | 240 | 279 | 297 | 304 |
| 65° | 174 | 156 | 196 | 240 | 252 | 176 |
| 75° | 68 | 85 | 132 | 162 | 168 | 74 |
| 85° | 14 | 39 | 78 | 99 | 102 | 16 |
| 90° | 1 | 28 | 61 | 74 | 73 | 1 |
| 95° | 1 | 23 | 49 | 52 | 50 | 1 |
| 105° | 0 | 20 | 35 | 34 | 32 | 0 |
| 115° | 0 | 18 | 31 | 31 | 30 | 0 |
| 125° | 0 | 16 | 27 | 29 | 28 | 0 |
| 135° | 1 | 12 | 22 | 25 | 25 | 1 |
| 145° | 1 | 7 | 15 | 20 | 21 | 0 |
| 155° | 1 | 5 | 9 | 12 | 15 | 0 |
| 165° | 1 | 3 | 5 | 6 | 8 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-18SL-SLN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 767.8 | 767.8 | 767.8 | 767.8 | 767.8 |
| 2.5° | 777.5 | 764.8 | 768.8 | 765.5 | 761.2 |
| 5° | 775.9 | 762.8 | 766.8 | 761.5 | 760.5 |
| 7.5° | 772.8 | 759.8 | 762.2 | 755.8 | 754.2 |
| 10° | 768.8 | 755.2 | 755.5 | 746.5 | 744.2 |
| 12.5° | 763.5 | 748.5 | 746.5 | 734.1 | 730.8 |
| 15° | 756.5 | 740.5 | 734.1 | 717.5 | 710.4 |
| 17.5° | 748.8 | 730.1 | 717.1 | 691.4 | 680.4 |
| 20° | 738.5 | 717.5 | 694.8 | 655.7 | 641.0 |
| 22.5° | 728.1 | 702.1 | 665.7 | 613.7 | 594.0 |
| 25° | 714.8 | 683.1 | 630.4 | 564.3 | 541.3 |
| 27.5° | 699.8 | 660.7 | 589.6 | 513.6 | 488.9 |
| 30° | 682.1 | 633.7 | 544.9 | 463.8 | 440.5 |
| 32.5° | 661.4 | 603.3 | 497.9 | 419.1 | 397.4 |
| 35° | 638.4 | 568.3 | 451.8 | 379.4 | 362.4 |
| 37.5° | 612.0 | 529.9 | 409.1 | 347.4 | 336.4 |
| 40° | 582.0 | 488.2 | 369.7 | 322.7 | 319.0 |
| 42.5° | 549.6 | 447.5 | 336.0 | 306.7 | 310.0 |
| 45° | 511.2 | 405.1 | 307.7 | 296.7 | 305.7 |
| 47.5° | 470.9 | 363.7 | 284.6 | 291.0 | 304.0 |
| 50° | 431.8 | 325.4 | 266.6 | 287.3 | 302.7 |
| 52.5° | 383.4 | 291.0 | 252.3 | 284.0 | 300.7 |
| 55° | 341.7 | 258.3 | 240.3 | 279.3 | 296.7 |
| 57.5° | 293.7 | 228.9 | 229.6 | 273.3 | 290.7 |
| 60° | 253.6 | 202.2 | 219.2 | 265.0 | 281.6 |
| 62.5° | 212.9 | 178.2 | 207.9 | 253.9 | 269.0 |
| 65° | 174.5 | 156.2 | 195.5 | 239.6 | 252.3 |
| 67.5° | 142.5 | 136.1 | 181.5 | 222.2 | 232.9 |
| 70° | 115.5 | 117.8 | 166.2 | 202.9 | 211.9 |
| 72.5° | 88.8 | 100.8 | 149.5 | 182.2 | 189.9 |
| 75° | 67.7 | 84.8 | 131.8 | 161.5 | 168.2 |
| 77.5° | 50.1 | 70.7 | 115.8 | 142.8 | 148.5 |
| 80° | 35.4 | 58.4 | 100.8 | 126.5 | 130.8 |
| 82.5° | 23.7 | 48.1 | 88.4 | 111.8 | 115.8 |
| 85° | 13.7 | 39.4 | 77.8 | 99.4 | 102.1 |
| 87.5° | 5.7 | 32.7 | 69.1 | 86.8 | 88.1 |
| 90° | 0.7 | 27.7 | 61.4 | 74.1 | 73.4 |
| 92.5° | 0.7 | 25.0 | 54.7 | 62.1 | 60.4 |
| 95° | 0.7 | 23.4 | 48.7 | 52.1 | 50.4 |
| 97.5° | 0.7 | 22.4 | 43.4 | 44.7 | 43.0 |
| 100° | 0.3 | 21.7 | 39.7 | 39.7 | 38.0 |
| 102.5° | 0.3 | 21.0 | 37.0 | 36.0 | 34.7 |
| 105° | 0.3 | 20.4 | 35.0 | 34.0 | 32.4 |
| 107.5° | 0.3 | 20.0 | 33.7 | 32.7 | 31.0 |
| 110° | 0.3 | 19.4 | 32.7 | 31.7 | 30.4 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-18SL-SLN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.3 | 19.0 | 32.0 | 31.4 | 29.7 |
| 115° | 0.3 | 18.4 | 31.0 | 30.7 | 29.7 |
| 117.5° | 0.3 | 17.7 | 30.4 | 30.4 | 29.4 |
| 120° | 0.3 | 17.0 | 29.4 | 30.0 | 29.0 |
| 122.5° | 0.3 | 16.4 | 28.4 | 29.4 | 28.4 |
| 125° | 0.3 | 15.7 | 27.4 | 28.7 | 28.0 |
| 127.5° | 0.7 | 14.7 | 26.0 | 28.0 | 27.4 |
| 130° | 0.3 | 13.7 | 24.7 | 27.4 | 27.0 |
| 132.5° | 0.7 | 12.7 | 23.4 | 26.4 | 26.4 |
| 135° | 0.7 | 11.7 | 21.7 | 25.4 | 25.4 |
| 137.5° | 0.7 | 10.3 | 20.0 | 24.0 | 24.4 |
| 140° | 0.7 | 9.3 | 18.4 | 22.7 | 23.4 |
| 142.5° | 0.7 | 8.3 | 16.7 | 21.4 | 22.4 |
| 145° | 0.7 | 7.3 | 15.0 | 19.7 | 21.0 |
| 147.5° | 0.7 | 6.7 | 13.3 | 17.7 | 19.7 |
| 150° | 0.7 | 5.7 | 12.0 | 16.0 | 18.0 |
| 152.5° | 0.7 | 5.0 | 10.7 | 14.3 | 16.7 |
| 155° | 0.7 | 4.7 | 9.3 | 12.3 | 15.0 |
| 157.5° | 0.7 | 4.0 | 8.0 | 10.7 | 13.3 |
| 160° | 0.7 | 3.3 | 6.7 | 9.3 | 11.3 |
| 162.5° | 0.7 | 3.0 | 5.7 | 7.7 | 10.0 |
| 165° | 0.7 | 2.7 | 4.7 | 6.0 | 8.0 |
| 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)