

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: P284574

Luminaire Tested: **2SNLED-LD5-41HL-SLW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P284574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNLED-LD5-41HL-SLW-UNV-L850-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4119.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Semi-Direct

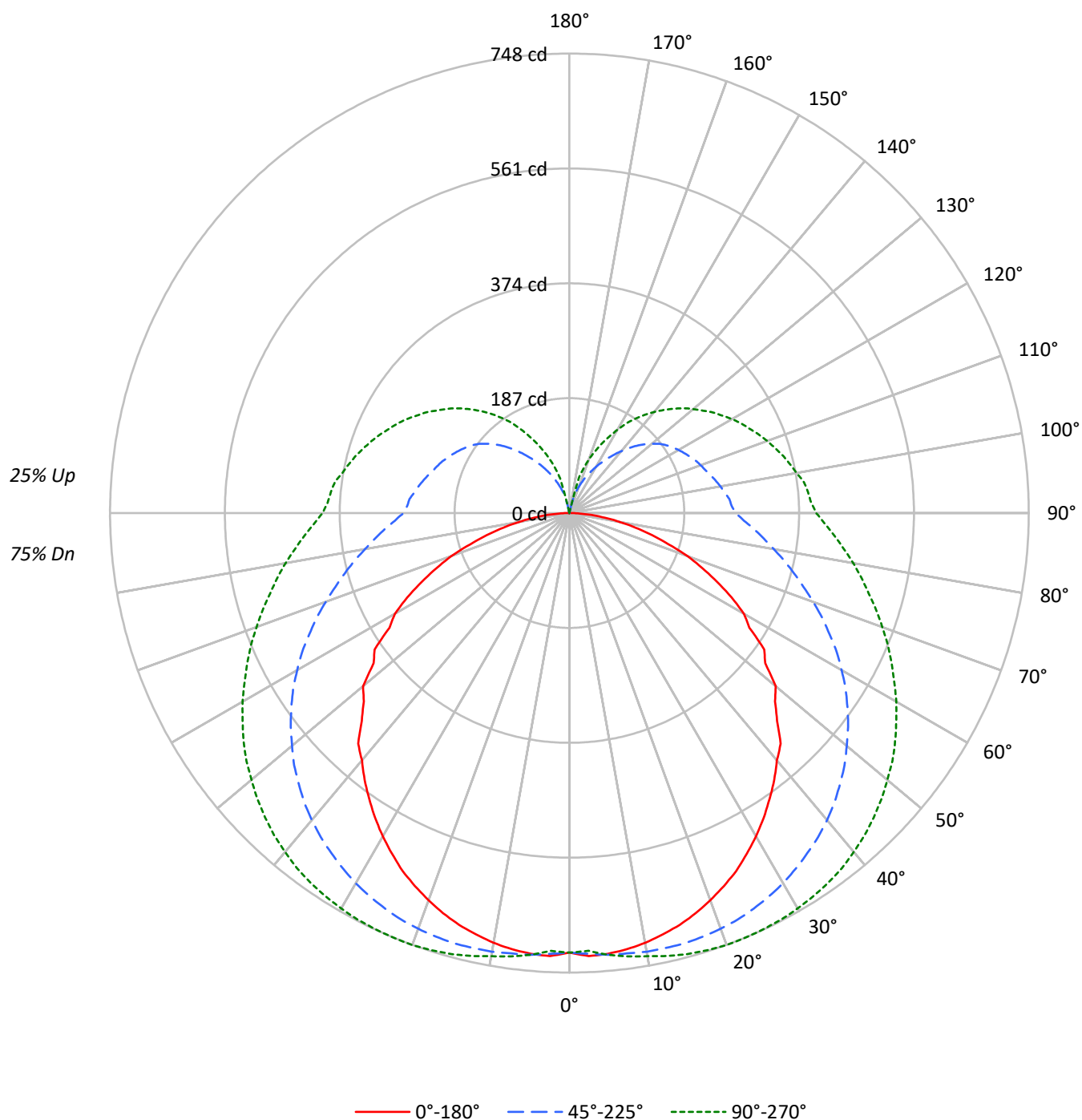
Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |  |    |    |    |  |    |    |    |  |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|----|----|----|--|----|----|----|--|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |  | 20 |    |    |  |    | 20 |    |  |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |  | 50 |    |    |  |    | 30 |    |  |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  |  | 50 | 30 | 10 |  | 50 | 30 | 10 |  | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |  |    |    |    |  |    |    |    |  |    |    |    |
| 0   | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 |  | 97 | 97 | 97 |  | 88 | 88 | 88 |  | 79 | 79 | 79 |
| 1   | 100 | 94  | 89  | 84  | 95  | 89  | 84  | 80  |  | 80 | 76 | 73 |  | 72 | 69 | 66 |  | 64 | 62 | 60 |
| 2   | 90  | 80  | 72  | 66  | 85  | 76  | 69  | 63  |  | 68 | 63 | 58 |  | 61 | 57 | 53 |  | 55 | 51 | 48 |
| 3   | 81  | 69  | 60  | 53  | 76  | 66  | 58  | 51  |  | 59 | 53 | 47 |  | 53 | 48 | 43 |  | 47 | 43 | 39 |
| 4   | 74  | 61  | 51  | 44  | 69  | 58  | 49  | 43  |  | 52 | 45 | 39 |  | 47 | 41 | 36 |  | 42 | 37 | 33 |
| 5   | 67  | 54  | 44  | 37  | 63  | 51  | 43  | 36  |  | 46 | 39 | 33 |  | 42 | 35 | 31 |  | 37 | 32 | 28 |
| 6   | 62  | 48  | 39  | 32  | 58  | 46  | 37  | 31  |  | 41 | 34 | 29 |  | 37 | 31 | 27 |  | 34 | 28 | 24 |
| 7   | 57  | 43  | 34  | 28  | 54  | 41  | 33  | 27  |  | 37 | 30 | 25 |  | 34 | 28 | 23 |  | 30 | 25 | 21 |
| 8   | 53  | 39  | 31  | 25  | 50  | 37  | 29  | 24  |  | 34 | 27 | 22 |  | 31 | 25 | 21 |  | 28 | 23 | 19 |
| 9   | 49  | 36  | 27  | 22  | 47  | 34  | 26  | 21  |  | 31 | 24 | 20 |  | 28 | 23 | 18 |  | 26 | 21 | 17 |
| 10  | 46  | 33  | 25  | 20  | 44  | 31  | 24  | 19  |  | 29 | 22 | 18 |  | 26 | 21 | 16 |  | 24 | 19 | 15 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11562 | 11562 | 11562 |
| 5°  | 11619 | 11403 | 11340 |
| 10° | 11532 | 11284 | 11277 |
| 15° | 11421 | 11203 | 11300 |
| 20° | 11279 | 11131 | 11323 |
| 25° | 11138 | 11070 | 11341 |
| 30° | 10948 | 11016 | 11401 |
| 35° | 10739 | 10956 | 11479 |
| 40° | 10535 | 10926 | 11554 |
| 45° | 10287 | 10877 | 11646 |
| 50° | 10261 | 10827 | 11738 |
| 55° | 10014 | 10799 | 11878 |
| 60° | 9570  | 10771 | 12039 |
| 65° | 8940  | 10744 | 12263 |
| 70° | 8235  | 10778 | 12608 |
| 75° | 7064  | 10965 | 13119 |
| 80° | 5724  | 11405 | 13963 |
| 85° | 3872  | 12334 | 15198 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 68.7   | 1.7       |
| 10°-20°   | 203.8  | 4.9       |
| 20°-30°   | 323.8  | 7.9       |
| 30°-40°   | 415.6  | 10.1      |
| 40°-50°   | 469.4  | 11.4      |
| 50°-60°   | 478.9  | 11.6      |
| 60°-70°   | 443.7  | 10.8      |
| 70°-80°   | 375.6  | 9.1       |
| 80°-90°   | 299.8  | 7.3       |
| 90°-100°  | 254.6  | 6.2       |
| 100°-110° | 226.8  | 5.5       |
| 110°-120° | 193.2  | 4.7       |
| 120°-130° | 153.5  | 3.7       |
| 130°-140° | 108.9  | 2.6       |
| 140°-150° | 65.0   | 1.6       |
| 150°-160° | 30.3   | 0.7       |
| 160°-170° | 7.2    | 0.2       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 596.4  | 14.5      |
| 0°-40°    | 1012.0 | 24.6      |
| 0°-60°    | 1960.3 | 47.6      |
| 0°-90°    | 3079.5 | 74.8      |
| 90°-120°  | 674.7  | 16.4      |
| 90°-150°  | 1002.0 | 24.3      |
| 90°-180°  | 1040.0 | 25.2      |
| 0°-180°   | 4119.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 715 | 715   | 715 | 715   | 715 |      |
| 5°   | 720 | 714   | 722 | 722   | 722 | 68   |
| 15°  | 694 | 700   | 725 | 738   | 743 | 196  |
| 25°  | 643 | 664   | 710 | 736   | 747 | 296  |
| 35°  | 568 | 610   | 676 | 717   | 735 | 356  |
| 45°  | 478 | 543   | 623 | 678   | 701 | 371  |
| 55°  | 387 | 452   | 553 | 620   | 648 | 340  |
| 65°  | 265 | 353   | 468 | 548   | 579 | 263  |
| 75°  | 140 | 247   | 378 | 471   | 504 | 148  |
| 85°  | 36  | 159   | 302 | 400   | 434 | 39   |
| 90°  | 2   | 130   | 270 | 368   | 402 | 3    |
| 95°  | 0   | 122   | 261 | 357   | 390 | 0    |
| 105° | 0   | 112   | 238 | 328   | 360 | 0    |
| 115° | 0   | 104   | 217 | 295   | 324 | 0    |
| 125° | 0   | 90    | 192 | 260   | 286 | 0    |
| 135° | 0   | 67    | 155 | 220   | 240 | 0    |
| 145° | 0   | 44    | 108 | 164   | 188 | 0    |
| 155° | 1   | 27    | 67  | 101   | 125 | 0    |
| 165° | 1   | 15    | 30  | 42    | 59  | 0    |
| 175° | 0   | 0     | 0   | 0     | 0   | 0    |
| 180° | 0   | 0     | 0   | 0     | 0   | 0    |



TEST NUMBER: P284574

CATALOG NUMBER: 2SNLED-LD5-41HL-SLW-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 715.4 | 715.4 | 715.4 | 715.4 | 715.4 |
| 2.5°   | 721.9 | 714.3 | 718.3 | 717.2 | 713.3 |
| 5°     | 720.1 | 714.3 | 721.9 | 721.9 | 721.9 |
| 7.5°   | 716.2 | 712.3 | 723.0 | 726.9 | 727.9 |
| 10°    | 710.4 | 710.4 | 725.1 | 730.8 | 732.6 |
| 12.5°  | 702.6 | 705.5 | 725.1 | 733.7 | 738.4 |
| 15°    | 694.0 | 699.7 | 725.1 | 738.4 | 743.3 |
| 17.5°  | 683.3 | 692.9 | 723.0 | 739.4 | 746.2 |
| 20°    | 670.7 | 685.4 | 720.1 | 739.4 | 748.3 |
| 22.5°  | 657.1 | 675.7 | 716.2 | 737.6 | 748.3 |
| 25°    | 642.8 | 663.9 | 710.4 | 735.5 | 747.3 |
| 27.5°  | 625.3 | 652.4 | 703.6 | 732.6 | 746.2 |
| 30°    | 607.8 | 638.9 | 695.8 | 728.7 | 743.3 |
| 32.5°  | 588.5 | 624.2 | 686.1 | 723.0 | 739.4 |
| 35°    | 568.1 | 609.9 | 675.7 | 717.2 | 734.7 |
| 37.5°  | 547.7 | 592.4 | 665.0 | 709.4 | 728.7 |
| 40°    | 525.5 | 574.9 | 652.4 | 699.7 | 720.1 |
| 42.5°  | 509.1 | 556.6 | 638.9 | 690.1 | 711.5 |
| 45°    | 478.2 | 543.0 | 623.2 | 677.5 | 700.8 |
| 47.5°  | 453.9 | 516.9 | 607.8 | 665.0 | 689.0 |
| 50°    | 438.5 | 495.5 | 589.5 | 650.4 | 675.7 |
| 52.5°  | 401.7 | 481.1 | 572.0 | 636.0 | 662.9 |
| 55°    | 387.1 | 452.1 | 552.7 | 620.3 | 647.5 |
| 57.5°  | 347.4 | 431.7 | 533.3 | 603.1 | 631.0 |
| 60°    | 328.1 | 403.5 | 511.9 | 585.6 | 614.6 |
| 62.5°  | 298.0 | 379.5 | 490.8 | 566.3 | 596.3 |
| 65°    | 265.1 | 353.4 | 467.5 | 547.7 | 578.8 |
| 67.5°  | 234.3 | 327.3 | 445.3 | 528.4 | 561.3 |
| 70°    | 204.2 | 300.1 | 422.1 | 509.1 | 542.0 |
| 72.5°  | 169.2 | 272.9 | 399.6 | 490.8 | 523.7 |
| 75°    | 139.5 | 246.8 | 378.5 | 471.4 | 504.4 |
| 77.5°  | 110.2 | 221.7 | 358.1 | 453.9 | 486.9 |
| 80°    | 83.3  | 197.5 | 337.7 | 435.7 | 469.4 |
| 82.5°  | 58.0  | 177.1 | 319.4 | 418.2 | 451.1 |
| 85°    | 35.8  | 158.8 | 301.9 | 399.6 | 433.6 |
| 87.5°  | 16.5  | 142.3 | 284.4 | 382.4 | 417.1 |
| 90°    | 1.8   | 129.8 | 270.1 | 367.8 | 401.7 |
| 92.5°  | 1.0   | 125.9 | 264.3 | 361.0 | 393.9 |
| 95°    | 0.0   | 122.0 | 261.4 | 357.0 | 390.0 |
| 97.5°  | 0.0   | 118.1 | 254.7 | 351.3 | 385.3 |
| 100°   | 0.0   | 116.2 | 249.7 | 342.7 | 375.6 |
| 102.5° | 0.0   | 113.4 | 243.9 | 334.8 | 367.8 |
| 105°   | 0.0   | 112.3 | 238.2 | 328.1 | 360.2 |
| 107.5° | 0.0   | 110.2 | 232.2 | 319.4 | 351.3 |
| 110°   | 0.0   | 108.4 | 227.5 | 311.6 | 342.7 |



TEST NUMBER: P284574

CATALOG NUMBER: 2SNLED-LD5-41HL-SLW-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 106.6 | 222.5 | 304.0 | 333.8 |
| 115°   | 0.0 | 104.5 | 216.8 | 295.1 | 324.1 |
| 117.5° | 0.0 | 101.6 | 211.0 | 286.5 | 315.5 |
| 120°   | 0.0 | 97.7  | 205.3 | 278.7 | 305.9 |
| 122.5° | 0.0 | 93.8  | 199.3 | 269.0 | 295.1 |
| 125°   | 0.0 | 90.1  | 192.5 | 260.4 | 285.5 |
| 127.5° | 0.0 | 84.1  | 184.9 | 250.7 | 274.0 |
| 130°   | 0.0 | 78.4  | 175.3 | 241.1 | 263.3 |
| 132.5° | 1.0 | 72.6  | 165.6 | 230.4 | 252.6 |
| 135°   | 0.0 | 66.9  | 154.9 | 219.7 | 240.0 |
| 137.5° | 0.0 | 61.9  | 143.1 | 208.2 | 227.5 |
| 140°   | 0.0 | 56.2  | 131.6 | 194.6 | 215.0 |
| 142.5° | 0.0 | 49.4  | 120.1 | 180.0 | 201.4 |
| 145°   | 0.0 | 43.6  | 108.4 | 164.5 | 187.8 |
| 147.5° | 1.0 | 38.7  | 97.7  | 148.1 | 173.2 |
| 150°   | 1.0 | 34.7  | 87.2  | 131.6 | 156.7 |
| 152.5° | 1.0 | 31.1  | 76.5  | 116.2 | 140.3 |
| 155°   | 1.0 | 27.2  | 66.9  | 100.6 | 124.8 |
| 157.5° | 1.0 | 23.2  | 56.2  | 85.1  | 108.4 |
| 160°   | 1.0 | 20.4  | 46.5  | 71.6  | 93.0  |
| 162.5° | 1.0 | 17.5  | 37.9  | 56.2  | 76.5  |
| 165°   | 1.0 | 14.6  | 30.0  | 41.5  | 59.0  |
| 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)