

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: P218548

Luminaire Tested: **4SNLED-LD5-18SL-RW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35689)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-18SL-RW-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1805.0 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.19 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Direct

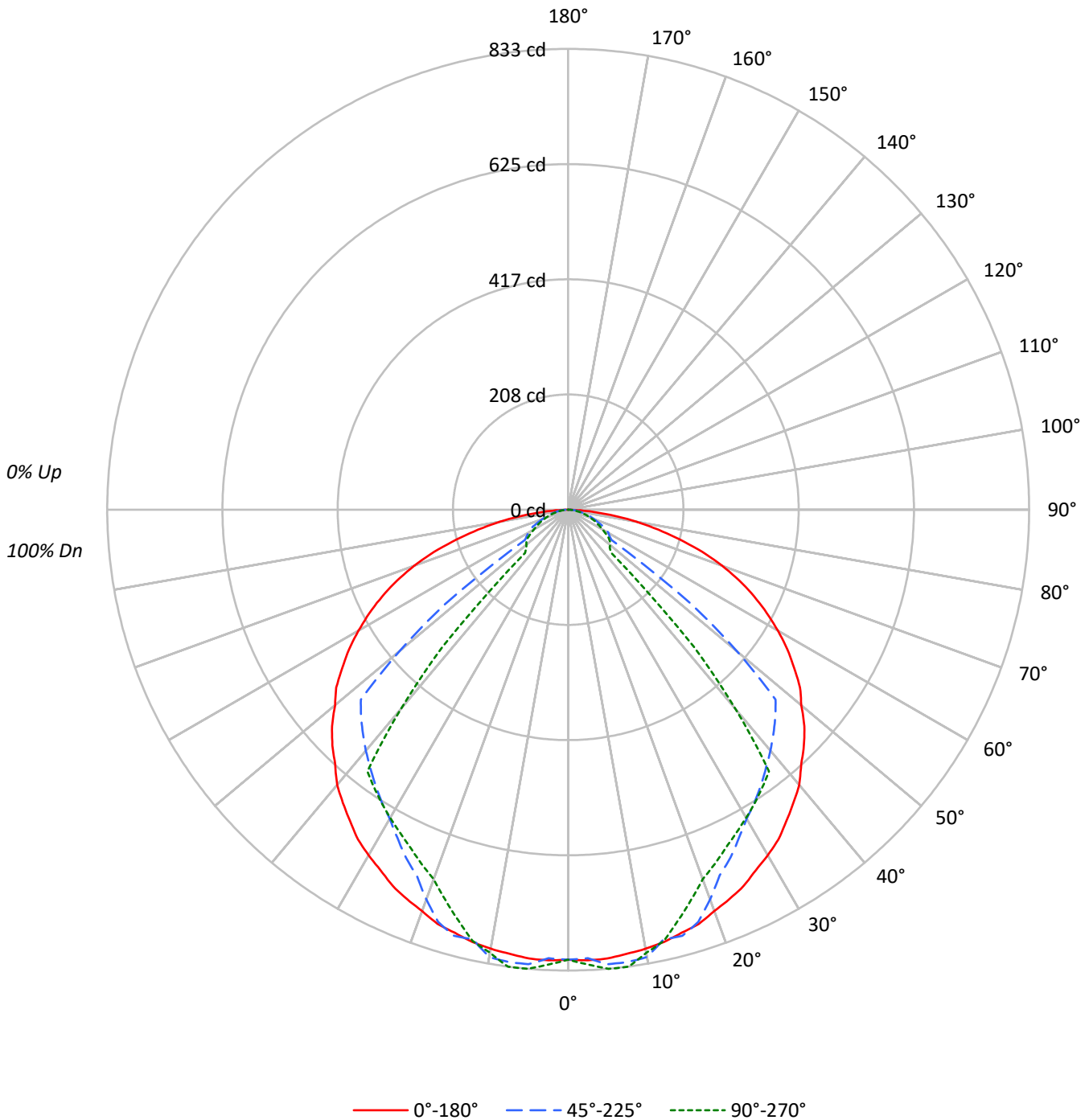
Input Watts (W): 14.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218548

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Luminous Intensity Polar Plot





TEST NUMBER: P218548

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | | | | 87 |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 87 | 83 | 89 | 85 | 81 | 86 | 82 | 79 | 83 | 80 | 77 | 75 | | | | 75 |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 71 | 80 | 74 | 70 | 77 | 72 | 68 | 75 | 71 | 67 | 65 | | | | 65 |
| 4 | 87 | 76 | 68 | 62 | 84 | 74 | 67 | 61 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 57 | | | | 57 |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 59 | 53 | 63 | 57 | 53 | 62 | 56 | 52 | 50 | | | | 50 |
| 6 | 74 | 62 | 54 | 48 | 73 | 61 | 53 | 48 | 59 | 53 | 47 | 58 | 52 | 47 | 56 | 51 | 47 | 45 | | | | 45 |
| 7 | 69 | 57 | 49 | 43 | 68 | 56 | 48 | 43 | 54 | 48 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 40 | | | | 40 |
| 8 | 65 | 52 | 44 | 39 | 63 | 51 | 44 | 39 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 36 | | | | 36 |
| 9 | 61 | 48 | 40 | 35 | 59 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 34 | 33 | | | | 33 |
| 10 | 57 | 44 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 30 | | | | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13107 | 13107 | 13107 |
| 5° | 13125 | 12532 | 12393 |
| 10° | 13090 | 11889 | 11314 |
| 15° | 13063 | 11110 | 10107 |
| 20° | 13040 | 10134 | 8936 |
| 25° | 13087 | 9183 | 8174 |
| 30° | 13103 | 8419 | 7585 |
| 35° | 13136 | 7881 | 7081 |
| 40° | 13202 | 7393 | 5395 |
| 45° | 13180 | 6943 | 1256 |
| 50° | 13129 | 5316 | 1131 |
| 55° | 13203 | 1302 | 1034 |
| 60° | 13158 | 1187 | 845 |
| 65° | 12980 | 1002 | 696 |
| 70° | 12494 | 777 | 544 |
| 75° | 11258 | 578 | 396 |
| 80° | 9326 | 389 | 249 |
| 85° | 5532 | 222 | 112 |



TEST NUMBER: P218548

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L830-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.5 | 4.4 |
| 10°-20° | 222.6 | 12.3 |
| 20°-30° | 327.9 | 18.2 |
| 30°-40° | 394.6 | 21.9 |
| 40°-50° | 338.0 | 18.7 |
| 50°-60° | 218.7 | 12.1 |
| 60°-70° | 145.4 | 8.1 |
| 70°-80° | 62.0 | 3.4 |
| 80°-90° | 17.3 | 1.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 629.0 | 34.8 |
| 0°-40° | 1023.6 | 56.7 |
| 0°-60° | 1580.3 | 87.6 |
| 0°-90° | 1805.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1805.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 813 | 813 | 813 | 813 | 813 | |
| 5° | 814 | 817 | 825 | 834 | 833 | 77 |
| 15° | 792 | 813 | 797 | 780 | 768 | 224 |
| 25° | 750 | 755 | 694 | 679 | 674 | 346 |
| 35° | 687 | 661 | 607 | 612 | 612 | 431 |
| 45° | 602 | 536 | 529 | 323 | 110 | 465 |
| 55° | 498 | 423 | 95 | 90 | 89 | 445 |
| 65° | 371 | 266 | 68 | 58 | 57 | 366 |
| 75° | 209 | 49 | 35 | 31 | 30 | 221 |
| 85° | 44 | 13 | 11 | 8 | 8 | 57 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P218548

CATALOG NUMBER: 4SNLED-LD5-18SL-RW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 813.4 | 813.4 | 813.4 | 813.4 | 813.4 |
| 2.5° | 815.3 | 812.5 | 811.6 | 821.9 | 822.9 |
| 5° | 814.4 | 817.2 | 824.7 | 834.2 | 833.2 |
| 7.5° | 809.7 | 819.1 | 824.7 | 838.9 | 833.2 |
| 10° | 805.9 | 822.9 | 821.0 | 821.9 | 813.4 |
| 12.5° | 800.3 | 816.3 | 795.6 | 809.7 | 798.4 |
| 15° | 791.8 | 813.4 | 797.4 | 780.5 | 768.2 |
| 17.5° | 785.2 | 807.8 | 781.4 | 740.9 | 739.1 |
| 20° | 772.0 | 784.3 | 749.4 | 720.2 | 710.8 |
| 22.5° | 761.7 | 775.8 | 715.5 | 695.8 | 692.9 |
| 25° | 750.4 | 755.1 | 693.9 | 678.8 | 674.1 |
| 27.5° | 734.4 | 743.8 | 668.5 | 660.9 | 658.1 |
| 30° | 721.2 | 721.2 | 644.9 | 644.9 | 643.0 |
| 32.5° | 707.1 | 691.0 | 627.0 | 628.0 | 628.0 |
| 35° | 687.3 | 660.9 | 607.3 | 612.0 | 612.0 |
| 37.5° | 668.5 | 624.2 | 587.5 | 595.0 | 596.0 |
| 40° | 649.6 | 596.0 | 568.7 | 577.1 | 471.7 |
| 42.5° | 623.3 | 564.9 | 548.9 | 444.4 | 336.1 |
| 45° | 602.5 | 535.7 | 529.1 | 322.9 | 110.2 |
| 47.5° | 579.0 | 507.5 | 508.4 | 102.6 | 101.7 |
| 50° | 549.8 | 478.3 | 398.2 | 97.0 | 98.9 |
| 52.5° | 528.2 | 451.9 | 280.6 | 94.1 | 95.1 |
| 55° | 498.0 | 422.7 | 95.1 | 90.4 | 89.4 |
| 57.5° | 469.8 | 395.4 | 88.5 | 83.8 | 80.0 |
| 60° | 437.8 | 366.2 | 83.8 | 74.4 | 71.6 |
| 62.5° | 404.8 | 337.1 | 77.2 | 65.9 | 64.0 |
| 65° | 370.9 | 266.4 | 67.8 | 58.4 | 57.4 |
| 67.5° | 335.2 | 175.1 | 57.4 | 51.8 | 50.8 |
| 70° | 295.6 | 68.7 | 49.9 | 45.2 | 43.3 |
| 72.5° | 254.2 | 59.3 | 42.4 | 38.6 | 36.7 |
| 75° | 209.0 | 49.0 | 34.8 | 31.1 | 30.1 |
| 77.5° | 166.6 | 36.7 | 28.2 | 24.5 | 23.5 |
| 80° | 124.3 | 27.3 | 21.7 | 18.8 | 17.9 |
| 82.5° | 84.7 | 19.8 | 16.0 | 13.2 | 12.2 |
| 85° | 44.2 | 13.2 | 11.3 | 8.5 | 7.5 |
| 87.5° | 16.9 | 8.5 | 6.6 | 3.8 | 3.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)