

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: P218609

Luminaire Tested: **4SNLED-LD5-48HL-RW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35747)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-48HL-RW-UNV-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4942.0 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 0.85 / 0.95
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Direct

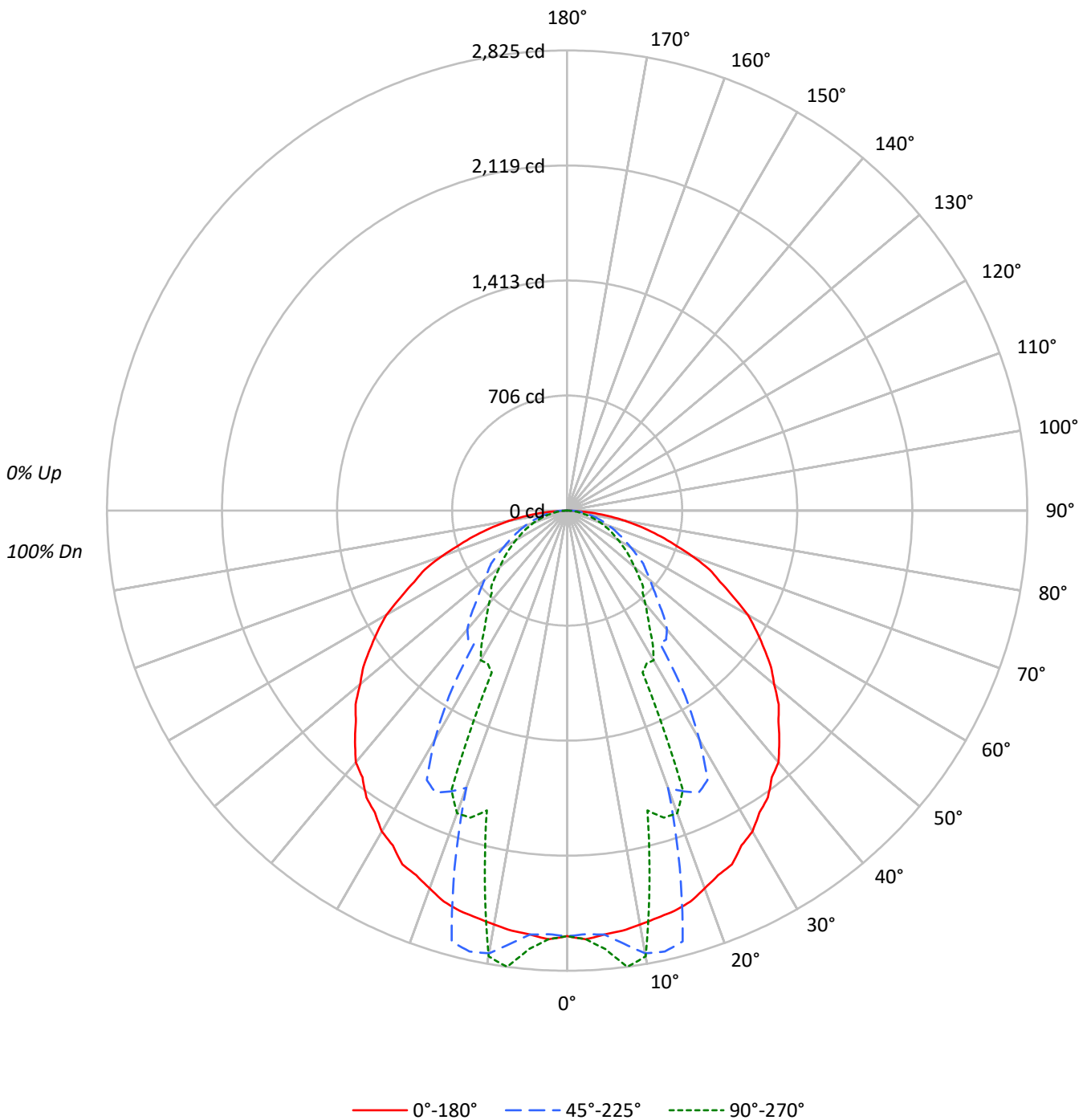
Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 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 |
| 1 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 88 | 85 |
| 2 | 101 | 93 | 87 | 81 | 98 | 91 | 85 | 80 | 88 | 83 | 79 | 84 | 80 | 77 | 81 | 78 | 75 | 73 |
| 3 | 93 | 83 | 75 | 69 | 90 | 81 | 74 | 69 | 78 | 72 | 67 | 76 | 71 | 66 | 73 | 69 | 65 | 63 |
| 4 | 86 | 74 | 66 | 60 | 83 | 73 | 65 | 60 | 71 | 64 | 59 | 68 | 63 | 58 | 66 | 61 | 57 | 55 |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | 49 |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 52 | 47 | 59 | 52 | 46 | 57 | 51 | 46 | 55 | 50 | 46 | 44 |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 39 |
| 8 | 64 | 52 | 44 | 38 | 63 | 51 | 43 | 38 | 50 | 43 | 38 | 49 | 42 | 38 | 47 | 42 | 37 | 36 |
| 9 | 61 | 48 | 40 | 35 | 59 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 33 |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 42099 | 42099 | 42099 |
| 5° | 42106 | 39690 | 40192 |
| 10° | 41922 | 39970 | 38653 |
| 15° | 41985 | 38162 | 25068 |
| 20° | 41691 | 24502 | 24852 |
| 25° | 41784 | 25284 | 13294 |
| 30° | 41330 | 21247 | 12525 |
| 35° | 41061 | 12910 | 10221 |
| 40° | 40999 | 12385 | 8555 |
| 45° | 40132 | 10348 | 7519 |
| 50° | 39605 | 8849 | 6205 |
| 55° | 39122 | 7809 | 5232 |
| 60° | 38490 | 6382 | 4288 |
| 65° | 36286 | 5272 | 3513 |
| 70° | 34509 | 4267 | 2753 |
| 75° | 31048 | 3311 | 1960 |
| 80° | 26876 | 2373 | 1267 |
| 85° | 18736 | 1507 | 549 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 255.0 | 5.2 |
| 10°-20° | 683.0 | 13.8 |
| 20°-30° | 883.6 | 17.9 |
| 30°-40° | 839.1 | 17.0 |
| 40°-50° | 807.7 | 16.3 |
| 50°-60° | 641.7 | 13.0 |
| 60°-70° | 467.0 | 9.4 |
| 70°-80° | 271.7 | 5.5 |
| 80°-90° | 93.2 | 1.9 |
| 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° | 1821.7 | 36.9 |
| 0°-40° | 2660.8 | 53.8 |
| 0°-60° | 4110.2 | 83.2 |
| 0°-90° | 4942.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4942.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2613 | 2613 | 2613 | 2613 | 2613 | |
| 5° | 2613 | 2607 | 2612 | 2674 | 2702 | 249 |
| 15° | 2545 | 2665 | 2739 | 2139 | 1905 | 718 |
| 25° | 2396 | 2541 | 1911 | 1543 | 1096 | 1098 |
| 35° | 2148 | 1654 | 995 | 924 | 883 | 1341 |
| 45° | 1835 | 1560 | 789 | 668 | 660 | 1422 |
| 55° | 1476 | 888 | 570 | 464 | 452 | 1321 |
| 65° | 1037 | 549 | 357 | 300 | 290 | 1036 |
| 75° | 576 | 290 | 199 | 163 | 149 | 612 |
| 85° | 150 | 121 | 77 | 50 | 37 | 175 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P218609

CATALOG NUMBER: 4SNLED-LD5-48HL-RW-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2612.6 | 2612.6 | 2612.6 | 2612.6 | 2612.6 |
| 2.5° | 2634.5 | 2614.1 | 2602.9 | 2604.4 | 2633.7 |
| 5° | 2612.6 | 2606.6 | 2611.9 | 2673.6 | 2702.2 |
| 7.5° | 2601.4 | 2588.6 | 2681.9 | 2788.0 | 2824.8 |
| 10° | 2581.0 | 2616.4 | 2760.1 | 2803.8 | 2778.9 |
| 12.5° | 2560.0 | 2637.5 | 2772.2 | 2488.5 | 2332.7 |
| 15° | 2544.9 | 2664.6 | 2739.1 | 2138.6 | 1905.3 |
| 17.5° | 2517.1 | 2681.9 | 2301.1 | 1899.3 | 1976.8 |
| 20° | 2468.2 | 2673.6 | 1812.0 | 1980.6 | 1976.8 |
| 22.5° | 2423.0 | 2626.9 | 1865.4 | 1942.2 | 1855.6 |
| 25° | 2395.9 | 2541.2 | 1910.6 | 1542.6 | 1096.4 |
| 27.5° | 2317.7 | 2331.2 | 1866.2 | 1070.8 | 1058.0 |
| 30° | 2274.8 | 2126.5 | 1627.6 | 1051.2 | 1061.8 |
| 32.5° | 2198.0 | 1891.0 | 1348.5 | 1012.8 | 979.0 |
| 35° | 2148.4 | 1654.0 | 994.8 | 924.1 | 883.4 |
| 37.5° | 2064.1 | 1666.0 | 997.8 | 847.3 | 808.9 |
| 40° | 2017.4 | 1676.5 | 952.7 | 773.6 | 748.0 |
| 42.5° | 1927.9 | 1636.7 | 877.4 | 713.4 | 685.5 |
| 45° | 1834.6 | 1559.9 | 788.6 | 668.2 | 659.9 |
| 47.5° | 1760.8 | 1343.9 | 723.1 | 625.3 | 595.2 |
| 50° | 1658.5 | 1068.5 | 662.9 | 568.1 | 542.5 |
| 52.5° | 1578.0 | 909.8 | 614.0 | 518.5 | 494.4 |
| 55° | 1475.6 | 887.9 | 570.4 | 464.3 | 452.2 |
| 57.5° | 1379.3 | 812.7 | 505.7 | 421.4 | 402.6 |
| 60° | 1280.7 | 719.4 | 450.7 | 380.0 | 363.5 |
| 62.5° | 1152.1 | 622.3 | 402.6 | 337.9 | 322.1 |
| 65° | 1036.9 | 549.3 | 356.7 | 300.2 | 289.7 |
| 67.5° | 947.4 | 492.9 | 315.3 | 263.4 | 249.1 |
| 70° | 816.5 | 429.7 | 273.9 | 228.0 | 219.0 |
| 72.5° | 687.0 | 350.7 | 235.5 | 196.4 | 179.8 |
| 75° | 576.4 | 289.7 | 199.4 | 163.3 | 149.0 |
| 77.5° | 468.0 | 242.3 | 165.5 | 133.9 | 118.9 |
| 80° | 358.2 | 197.2 | 132.4 | 104.6 | 91.1 |
| 82.5° | 253.6 | 157.3 | 103.8 | 76.0 | 64.0 |
| 85° | 149.7 | 121.2 | 76.8 | 50.4 | 36.9 |
| 87.5° | 59.4 | 91.1 | 50.4 | 24.8 | 12.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)