

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: **8SNLED-LD5-120SL-SLN-UNV-L840-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: 8SNLED-LD5-120SL-SLN-UNV-L840-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

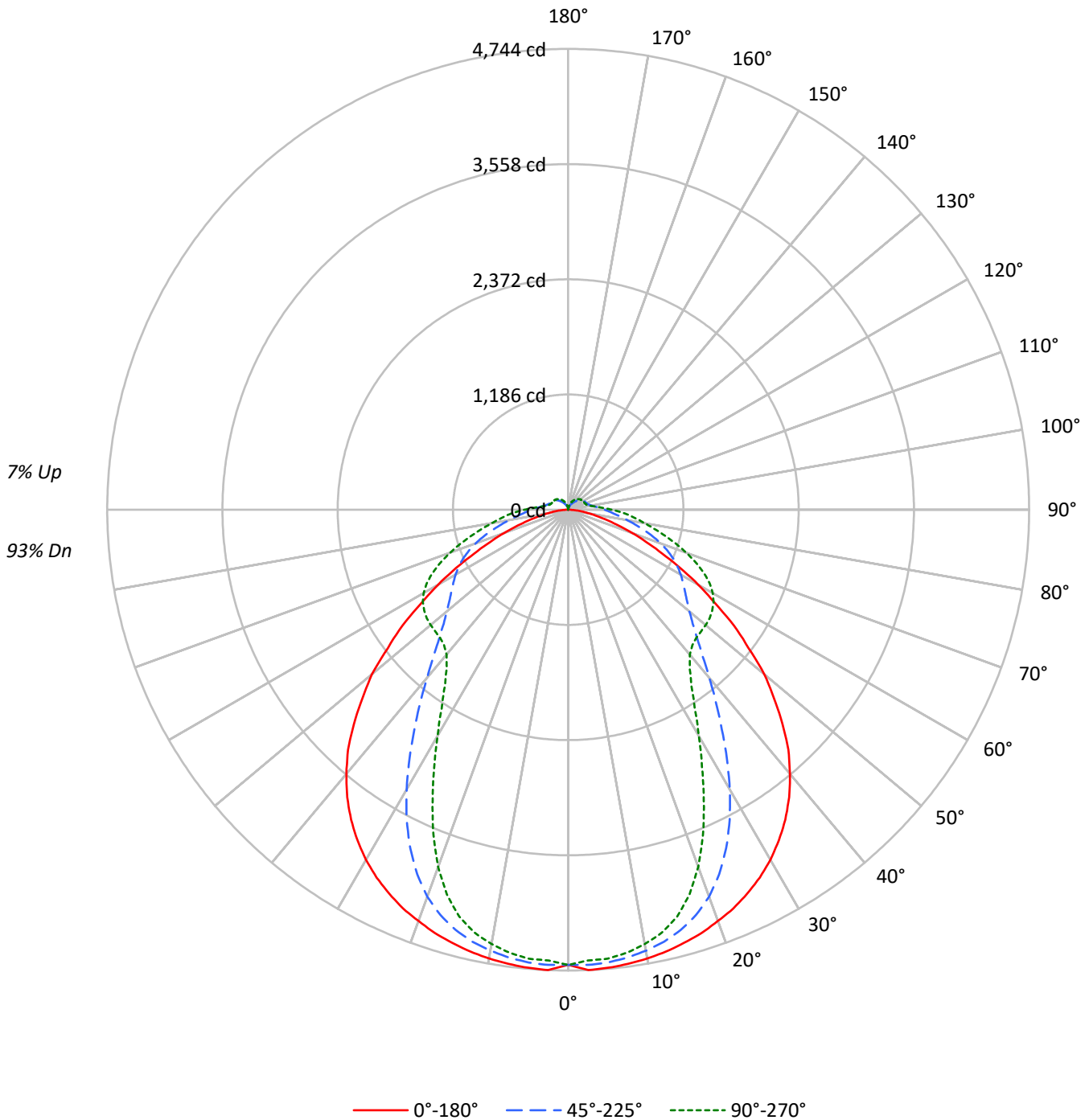
Lumens per Lamp: N/A
Luminaire Lumens: 11782.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 92
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#

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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 | 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° | 18930 | 18930 | 18930 |
| 5° | 19174 | 18529 | 18222 |
| 10° | 19194 | 18034 | 17472 |
| 15° | 19228 | 17445 | 16476 |
| 20° | 19265 | 16561 | 14796 |
| 25° | 19303 | 15189 | 12530 |
| 30° | 19243 | 13377 | 10306 |
| 35° | 19004 | 11393 | 8637 |
| 40° | 18487 | 9659 | 7808 |
| 45° | 17550 | 8404 | 7748 |
| 50° | 16259 | 7692 | 8020 |
| 55° | 14366 | 7404 | 8301 |
| 60° | 12175 | 7310 | 8415 |
| 65° | 9851 | 7161 | 8153 |
| 70° | 7980 | 6808 | 7519 |
| 75° | 6097 | 6179 | 6673 |
| 80° | 4613 | 5572 | 5935 |
| 85° | 3284 | 5287 | 5459 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 443.2 | 3.8 |
| 10°-20° | 1252.8 | 10.6 |
| 20°-30° | 1751.3 | 14.9 |
| 30°-40° | 1816.6 | 15.4 |
| 40°-50° | 1678.2 | 14.2 |
| 50°-60° | 1498.3 | 12.7 |
| 60°-70° | 1214.3 | 10.3 |
| 70°-80° | 807.6 | 6.9 |
| 80°-90° | 462.5 | 3.9 |
| 90°-100° | 255.9 | 2.2 |
| 100°-110° | 173.3 | 1.5 |
| 110°-120° | 144.3 | 1.2 |
| 120°-130° | 117.3 | 1.0 |
| 130°-140° | 84.6 | 0.7 |
| 140°-150° | 51.0 | 0.4 |
| 150°-160° | 24.5 | 0.2 |
| 160°-170° | 6.3 | 0.1 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3447.3 | 29.3 |
| 0°-40° | 5263.9 | 44.7 |
| 0°-60° | 8440.4 | 71.6 |
| 0°-90° | 10924.8 | 92.7 |
| 90°-120° | 573.4 | 4.9 |
| 90°-150° | 826.3 | 7.0 |
| 90°-180° | 857.0 | 7.3 |
| 0°-180° | 11782.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4685 | 4685 | 4685 | 4685 | 4685 | |
| 5° | 4734 | 4654 | 4679 | 4646 | 4640 | 450 |
| 15° | 4616 | 4518 | 4479 | 4378 | 4335 | 1304 |
| 25° | 4361 | 4168 | 3846 | 3443 | 3302 | 2010 |
| 35° | 3895 | 3467 | 2757 | 2315 | 2211 | 2430 |
| 45° | 3119 | 2472 | 1877 | 1810 | 1865 | 2398 |
| 55° | 2085 | 1576 | 1466 | 1704 | 1810 | 1854 |
| 65° | 1065 | 953 | 1193 | 1462 | 1539 | 1076 |
| 75° | 413 | 517 | 804 | 986 | 1026 | 453 |
| 85° | 84 | 240 | 474 | 607 | 623 | 96 |
| 90° | 4 | 169 | 375 | 452 | 448 | 6 |
| 95° | 4 | 142 | 297 | 318 | 307 | 3 |
| 105° | 2 | 124 | 214 | 208 | 198 | 2 |
| 115° | 2 | 112 | 189 | 187 | 181 | 2 |
| 125° | 2 | 96 | 167 | 175 | 171 | 2 |
| 135° | 4 | 71 | 132 | 155 | 155 | 3 |
| 145° | 4 | 45 | 92 | 120 | 128 | 3 |
| 155° | 4 | 28 | 57 | 75 | 92 | 2 |
| 165° | 4 | 16 | 28 | 37 | 49 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-120SL-SLN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4685.0 | 4685.0 | 4685.0 | 4685.0 | 4685.0 |
| 2.5° | 4744.0 | 4666.7 | 4691.1 | 4670.7 | 4644.3 |
| 5° | 4733.9 | 4654.5 | 4678.9 | 4646.3 | 4640.2 |
| 7.5° | 4715.5 | 4636.1 | 4650.4 | 4611.7 | 4601.5 |
| 10° | 4691.1 | 4607.6 | 4609.7 | 4554.7 | 4540.4 |
| 12.5° | 4658.5 | 4566.9 | 4554.7 | 4479.4 | 4459.0 |
| 15° | 4615.8 | 4518.0 | 4479.4 | 4377.5 | 4334.8 |
| 17.5° | 4568.9 | 4454.9 | 4375.5 | 4218.7 | 4151.5 |
| 20° | 4505.8 | 4377.5 | 4239.1 | 4000.9 | 3911.3 |
| 22.5° | 4442.7 | 4283.9 | 4062.0 | 3744.3 | 3624.2 |
| 25° | 4361.3 | 4167.8 | 3846.1 | 3443.0 | 3302.5 |
| 27.5° | 4269.6 | 4031.4 | 3597.7 | 3133.5 | 2982.8 |
| 30° | 4161.7 | 3866.5 | 3324.9 | 2830.1 | 2687.6 |
| 32.5° | 4035.5 | 3681.2 | 3037.8 | 2557.3 | 2425.0 |
| 35° | 3895.0 | 3467.4 | 2756.8 | 2315.0 | 2211.2 |
| 37.5° | 3734.2 | 3233.3 | 2496.2 | 2119.5 | 2052.4 |
| 40° | 3550.9 | 2978.8 | 2256.0 | 1968.9 | 1946.5 |
| 42.5° | 3353.4 | 2730.4 | 2050.3 | 1871.1 | 1891.5 |
| 45° | 3119.3 | 2471.8 | 1877.3 | 1810.1 | 1865.0 |
| 47.5° | 2872.9 | 2219.3 | 1736.8 | 1775.5 | 1854.9 |
| 50° | 2634.7 | 1985.2 | 1626.8 | 1753.1 | 1846.7 |
| 52.5° | 2339.4 | 1775.5 | 1539.3 | 1732.7 | 1834.5 |
| 55° | 2084.9 | 1575.9 | 1466.0 | 1704.2 | 1810.1 |
| 57.5° | 1791.7 | 1396.7 | 1400.8 | 1667.5 | 1773.4 |
| 60° | 1547.4 | 1233.9 | 1337.7 | 1616.6 | 1718.4 |
| 62.5° | 1299.0 | 1087.3 | 1268.5 | 1549.4 | 1641.1 |
| 65° | 1064.9 | 952.9 | 1193.1 | 1461.9 | 1539.3 |
| 67.5° | 869.4 | 830.7 | 1107.6 | 1356.0 | 1421.2 |
| 70° | 704.5 | 718.7 | 1014.0 | 1237.9 | 1292.9 |
| 72.5° | 541.6 | 614.9 | 912.2 | 1111.7 | 1158.5 |
| 75° | 413.3 | 517.2 | 804.2 | 985.5 | 1026.2 |
| 77.5° | 305.4 | 431.6 | 706.5 | 871.4 | 906.1 |
| 80° | 215.8 | 356.3 | 614.9 | 771.7 | 798.1 |
| 82.5° | 144.6 | 293.2 | 539.6 | 682.1 | 706.5 |
| 85° | 83.5 | 240.3 | 474.4 | 606.7 | 623.0 |
| 87.5° | 34.6 | 199.5 | 421.5 | 529.4 | 537.5 |
| 90° | 4.1 | 169.0 | 374.6 | 452.0 | 447.9 |
| 92.5° | 4.1 | 152.7 | 333.9 | 378.7 | 368.5 |
| 95° | 4.1 | 142.5 | 297.3 | 317.6 | 307.4 |
| 97.5° | 4.1 | 136.4 | 264.7 | 272.8 | 262.7 |
| 100° | 2.0 | 132.3 | 242.3 | 242.3 | 232.1 |
| 102.5° | 2.0 | 128.3 | 226.0 | 219.9 | 211.8 |
| 105° | 2.0 | 124.2 | 213.8 | 207.7 | 197.5 |
| 107.5° | 2.0 | 122.2 | 205.6 | 199.5 | 189.4 |
| 110° | 2.0 | 118.1 | 199.5 | 193.4 | 185.3 |



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.0 | 116.1 | 195.5 | 191.4 | 181.2 |
| 115° | 2.0 | 112.0 | 189.4 | 187.3 | 181.2 |
| 117.5° | 2.0 | 107.9 | 185.3 | 185.3 | 179.2 |
| 120° | 2.0 | 103.8 | 179.2 | 183.2 | 177.1 |
| 122.5° | 2.0 | 99.8 | 173.1 | 179.2 | 173.1 |
| 125° | 2.0 | 95.7 | 167.0 | 175.1 | 171.0 |
| 127.5° | 4.1 | 89.6 | 158.8 | 171.0 | 167.0 |
| 130° | 2.0 | 83.5 | 150.7 | 167.0 | 164.9 |
| 132.5° | 4.1 | 77.4 | 142.5 | 160.8 | 160.8 |
| 135° | 4.1 | 71.3 | 132.3 | 154.7 | 154.7 |
| 137.5° | 4.1 | 63.1 | 122.2 | 146.6 | 148.6 |
| 140° | 4.1 | 57.0 | 112.0 | 138.5 | 142.5 |
| 142.5° | 4.1 | 50.9 | 101.8 | 130.3 | 136.4 |
| 145° | 4.1 | 44.8 | 91.6 | 120.1 | 128.3 |
| 147.5° | 4.1 | 40.7 | 81.4 | 107.9 | 120.1 |
| 150° | 4.1 | 34.6 | 73.3 | 97.7 | 109.9 |
| 152.5° | 4.1 | 30.5 | 65.2 | 87.6 | 101.8 |
| 155° | 4.1 | 28.5 | 57.0 | 75.3 | 91.6 |
| 157.5° | 4.1 | 24.4 | 48.9 | 65.2 | 81.4 |
| 160° | 4.1 | 20.4 | 40.7 | 57.0 | 69.2 |
| 162.5° | 4.1 | 18.3 | 34.6 | 46.8 | 61.1 |
| 165° | 4.1 | 16.3 | 28.5 | 36.6 | 48.9 |
| 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)