

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-LD5-127SL-SLC-UNV-L950-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-127SL-SLC-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

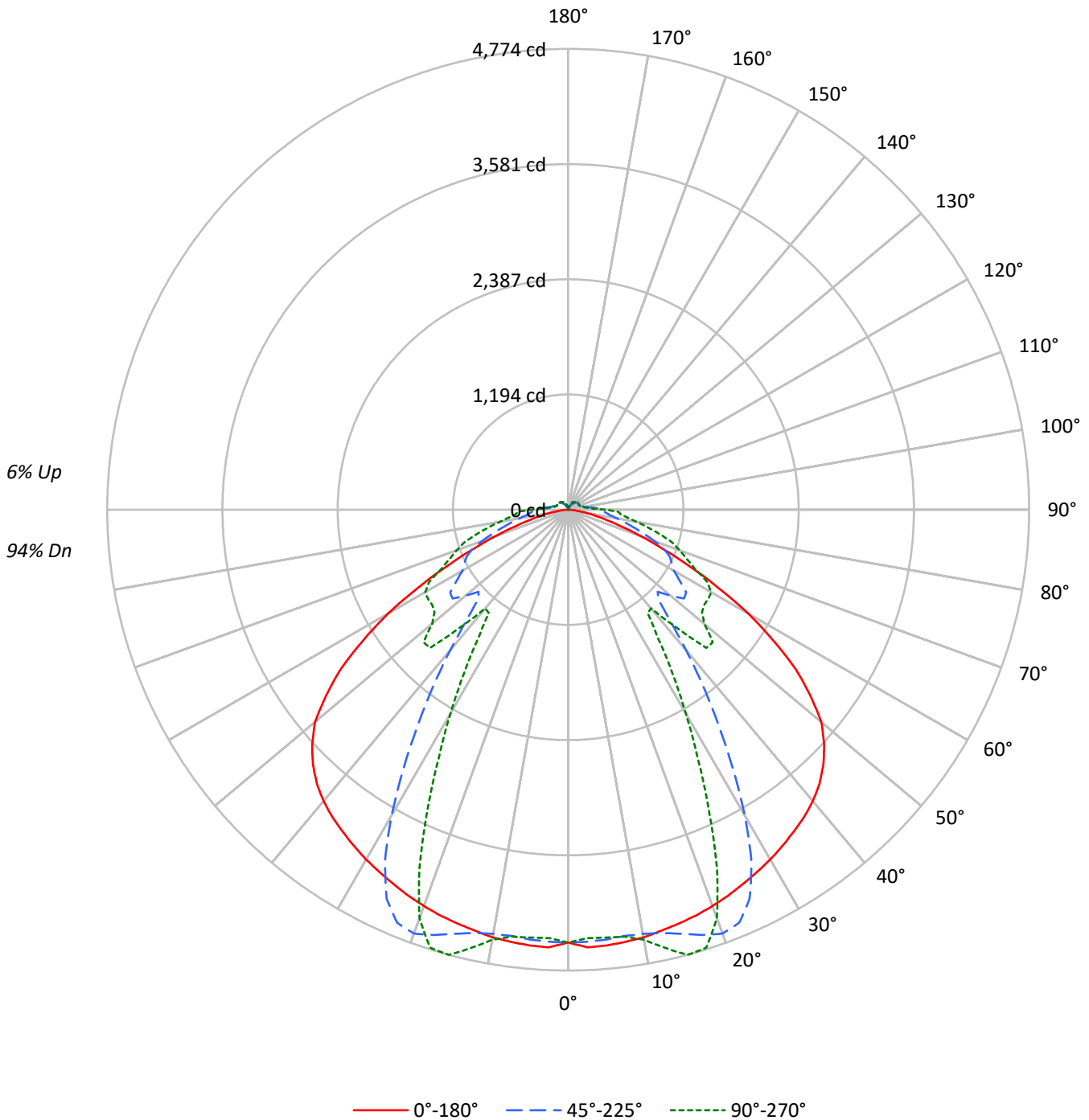
Lumens per Lamp: N/A
Luminaire Lumens: 11514.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 103
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



TEST NUMBER: P#
CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L950-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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 94 |
| 1 | 107 | 102 | 98 | 94 | 104 | 99 | 95 | 92 | 94 | 91 | 88 | 89 | 87 | 84 | 85 | 83 | 81 | 78 |
| 2 | 98 | 90 | 83 | 77 | 95 | 87 | 81 | 76 | 83 | 78 | 73 | 79 | 74 | 71 | 75 | 71 | 68 | 66 |
| 3 | 89 | 79 | 71 | 65 | 87 | 77 | 70 | 64 | 73 | 67 | 62 | 70 | 65 | 60 | 67 | 62 | 59 | 56 |
| 4 | 82 | 71 | 62 | 56 | 80 | 69 | 61 | 55 | 66 | 59 | 53 | 63 | 57 | 52 | 60 | 55 | 51 | 49 |
| 5 | 76 | 63 | 55 | 48 | 74 | 62 | 54 | 48 | 59 | 52 | 47 | 57 | 51 | 46 | 54 | 49 | 45 | 43 |
| 6 | 70 | 58 | 49 | 43 | 68 | 56 | 48 | 42 | 54 | 47 | 41 | 52 | 45 | 41 | 50 | 44 | 40 | 38 |
| 7 | 66 | 52 | 44 | 38 | 64 | 51 | 43 | 38 | 49 | 42 | 37 | 47 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 61 | 48 | 40 | 34 | 59 | 47 | 39 | 34 | 45 | 38 | 33 | 44 | 37 | 33 | 42 | 37 | 32 | 30 |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 42 | 35 | 30 | 41 | 34 | 30 | 39 | 34 | 29 | 28 |
| 10 | 54 | 41 | 33 | 28 | 52 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18111 | 18111 | 18111 |
| 5° | 18356 | 17703 | 17470 |
| 10° | 18405 | 17450 | 17409 |
| 15° | 18482 | 17712 | 18145 |
| 20° | 18681 | 18255 | 17031 |
| 25° | 18943 | 17560 | 13114 |
| 30° | 19349 | 14721 | 9328 |
| 35° | 19866 | 11160 | 6316 |
| 40° | 20516 | 8121 | 5348 |
| 45° | 21032 | 5898 | 8409 |
| 50° | 21121 | 6539 | 7980 |
| 55° | 19811 | 7536 | 7880 |
| 60° | 16954 | 6906 | 8376 |
| 65° | 12831 | 6979 | 7662 |
| 70° | 9080 | 6367 | 7131 |
| 75° | 6029 | 5351 | 6399 |
| 80° | 3944 | 4603 | 5327 |
| 85° | 2262 | 4401 | 4782 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L950-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 426.4 | 3.7 |
| 10°-20° | 1287.8 | 11.2 |
| 20°-30° | 1870.7 | 16.2 |
| 30°-40° | 1787.4 | 15.5 |
| 40°-50° | 1635.0 | 14.2 |
| 50°-60° | 1509.6 | 13.1 |
| 60°-70° | 1199.1 | 10.4 |
| 70°-80° | 740.1 | 6.4 |
| 80°-90° | 403.0 | 3.5 |
| 90°-100° | 203.7 | 1.8 |
| 100°-110° | 128.0 | 1.1 |
| 110°-120° | 108.4 | 0.9 |
| 120°-130° | 88.6 | 0.8 |
| 130°-140° | 63.5 | 0.6 |
| 140°-150° | 39.2 | 0.3 |
| 150°-160° | 18.6 | 0.2 |
| 160°-170° | 4.8 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3584.9 | 31.1 |
| 0°-40° | 5372.3 | 46.7 |
| 0°-60° | 8516.9 | 74.0 |
| 0°-90° | 10859.2 | 94.3 |
| 90°-120° | 440.1 | 3.8 |
| 90°-150° | 631.4 | 5.5 |
| 90°-180° | 655.0 | 5.7 |
| 0°-180° | 11514.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4482 | 4482 | 4482 | 4482 | 4482 | |
| 5° | 4532 | 4462 | 4470 | 4447 | 4449 | 431 |
| 15° | 4437 | 4377 | 4548 | 4716 | 4774 | 1256 |
| 25° | 4280 | 4363 | 4447 | 3764 | 3456 | 1978 |
| 35° | 4072 | 4006 | 2700 | 1859 | 1617 | 2553 |
| 45° | 3738 | 2607 | 1318 | 1681 | 2024 | 2873 |
| 55° | 2875 | 1337 | 1492 | 1605 | 1718 | 2532 |
| 65° | 1387 | 867 | 1163 | 1413 | 1446 | 1403 |
| 75° | 409 | 462 | 696 | 923 | 984 | 463 |
| 85° | 58 | 196 | 395 | 538 | 546 | 73 |
| 90° | 2 | 147 | 353 | 419 | 387 | 3 |
| 95° | 0 | 137 | 244 | 216 | 204 | 0 |
| 105° | 0 | 123 | 151 | 137 | 135 | 0 |
| 115° | 0 | 101 | 145 | 129 | 123 | 1 |
| 125° | 2 | 81 | 129 | 125 | 119 | 2 |
| 135° | 2 | 58 | 103 | 113 | 109 | 2 |
| 145° | 2 | 36 | 71 | 91 | 97 | 1 |
| 155° | 4 | 22 | 44 | 58 | 69 | 1 |
| 165° | 4 | 12 | 22 | 28 | 38 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4482.3 | 4482.3 | 4482.3 | 4482.3 | 4482.3 |
| 2.5° | 4537.8 | 4472.4 | 4480.3 | 4466.4 | 4442.6 |
| 5° | 4531.9 | 4462.4 | 4470.4 | 4446.6 | 4448.6 |
| 7.5° | 4516.0 | 4444.6 | 4454.5 | 4450.5 | 4460.5 |
| 10° | 4498.2 | 4422.8 | 4460.5 | 4494.2 | 4524.0 |
| 12.5° | 4466.4 | 4399.0 | 4490.2 | 4589.4 | 4650.9 |
| 15° | 4436.7 | 4377.1 | 4547.8 | 4716.4 | 4774.0 |
| 17.5° | 4406.9 | 4369.2 | 4619.2 | 4766.0 | 4758.1 |
| 20° | 4369.2 | 4365.2 | 4672.8 | 4623.2 | 4502.1 |
| 22.5° | 4327.5 | 4367.2 | 4631.1 | 4268.0 | 4029.9 |
| 25° | 4279.9 | 4363.2 | 4446.6 | 3764.0 | 3456.5 |
| 27.5° | 4232.3 | 4345.4 | 4111.2 | 3212.4 | 2908.8 |
| 30° | 4184.7 | 4297.8 | 3658.9 | 2708.4 | 2432.6 |
| 32.5° | 4129.1 | 4194.6 | 3166.8 | 2262.0 | 2008.0 |
| 35° | 4071.6 | 4006.1 | 2700.5 | 1859.2 | 1617.1 |
| 37.5° | 4012.0 | 3734.2 | 2281.8 | 1506.0 | 1351.2 |
| 40° | 3940.6 | 3393.0 | 1896.9 | 1291.7 | 1333.4 |
| 42.5° | 3851.3 | 3008.0 | 1557.6 | 1355.2 | 1644.9 |
| 45° | 3738.2 | 2607.2 | 1317.5 | 1680.6 | 2023.9 |
| 47.5° | 3595.4 | 2222.3 | 1258.0 | 1924.7 | 2031.8 |
| 50° | 3422.7 | 1869.1 | 1383.0 | 1845.3 | 1837.4 |
| 52.5° | 3160.8 | 1575.4 | 1510.0 | 1682.6 | 1746.1 |
| 55° | 2875.1 | 1337.3 | 1492.1 | 1605.2 | 1718.3 |
| 57.5° | 2514.0 | 1176.6 | 1369.1 | 1589.3 | 1720.3 |
| 60° | 2154.8 | 1069.5 | 1263.9 | 1587.4 | 1710.4 |
| 62.5° | 1758.0 | 972.3 | 1210.4 | 1549.7 | 1623.1 |
| 65° | 1387.0 | 867.1 | 1162.7 | 1412.7 | 1446.5 |
| 67.5° | 1063.5 | 759.9 | 1079.4 | 1260.0 | 1327.4 |
| 70° | 801.6 | 654.8 | 948.4 | 1142.9 | 1226.2 |
| 72.5° | 577.4 | 555.6 | 813.5 | 1039.7 | 1127.0 |
| 75° | 408.7 | 462.3 | 696.5 | 922.6 | 984.2 |
| 77.5° | 281.8 | 377.0 | 597.2 | 793.7 | 843.3 |
| 80° | 184.5 | 301.6 | 508.0 | 682.6 | 716.3 |
| 82.5° | 111.1 | 242.1 | 440.5 | 597.2 | 615.1 |
| 85° | 57.5 | 196.4 | 394.9 | 537.7 | 545.7 |
| 87.5° | 17.9 | 164.7 | 369.1 | 509.9 | 519.9 |
| 90° | 2.0 | 146.8 | 353.2 | 418.7 | 386.9 |
| 92.5° | 0.0 | 138.9 | 305.6 | 285.7 | 256.0 |
| 95° | 0.0 | 136.9 | 244.1 | 216.3 | 204.4 |
| 97.5° | 0.0 | 132.9 | 200.4 | 180.6 | 174.6 |
| 100° | 0.0 | 129.0 | 172.6 | 158.7 | 156.8 |
| 102.5° | 0.0 | 127.0 | 156.8 | 144.8 | 142.9 |
| 105° | 0.0 | 123.0 | 150.8 | 136.9 | 134.9 |
| 107.5° | 0.0 | 117.1 | 146.8 | 132.9 | 129.0 |
| 110° | 0.0 | 111.1 | 146.8 | 131.0 | 125.0 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 105.2 | 146.8 | 129.0 | 123.0 |
| 115° | 0.0 | 101.2 | 144.8 | 129.0 | 123.0 |
| 117.5° | 2.0 | 97.2 | 142.9 | 129.0 | 123.0 |
| 120° | 0.0 | 93.3 | 138.9 | 129.0 | 121.0 |
| 122.5° | 2.0 | 87.3 | 134.9 | 127.0 | 121.0 |
| 125° | 2.0 | 81.4 | 129.0 | 125.0 | 119.1 |
| 127.5° | 2.0 | 75.4 | 123.0 | 121.0 | 115.1 |
| 130° | 2.0 | 69.4 | 117.1 | 119.1 | 113.1 |
| 132.5° | 2.0 | 63.5 | 109.1 | 115.1 | 111.1 |
| 135° | 2.0 | 57.5 | 103.2 | 113.1 | 109.1 |
| 137.5° | 2.0 | 51.6 | 95.2 | 107.1 | 107.1 |
| 140° | 2.0 | 45.6 | 87.3 | 103.2 | 105.2 |
| 142.5° | 2.0 | 41.7 | 79.4 | 99.2 | 101.2 |
| 145° | 2.0 | 35.7 | 71.4 | 91.3 | 97.2 |
| 147.5° | 2.0 | 31.7 | 63.5 | 83.3 | 91.3 |
| 150° | 2.0 | 27.8 | 55.6 | 75.4 | 83.3 |
| 152.5° | 2.0 | 23.8 | 49.6 | 65.5 | 77.4 |
| 155° | 4.0 | 21.8 | 43.7 | 57.5 | 69.4 |
| 157.5° | 4.0 | 17.9 | 35.7 | 49.6 | 59.5 |
| 160° | 4.0 | 15.9 | 31.7 | 41.7 | 53.6 |
| 162.5° | 4.0 | 13.9 | 25.8 | 35.7 | 45.6 |
| 165° | 4.0 | 11.9 | 21.8 | 27.8 | 37.7 |
| 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)