

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-LD5-105SL-SLC-UNV-L935-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-LD5-105SL-SLC-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

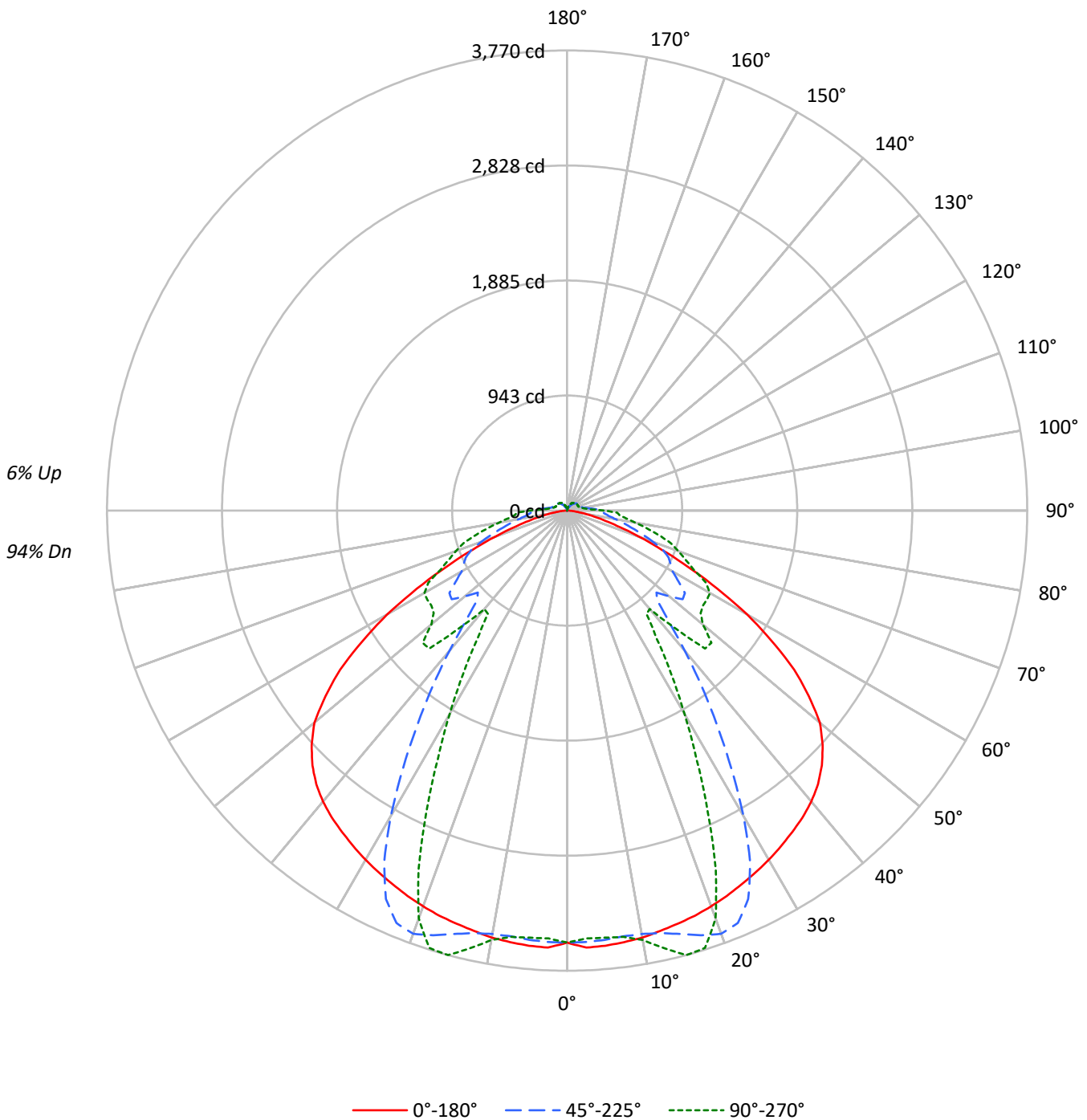
Lumens per Lamp: N/A
Luminaire Lumens: 9091.9 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 82
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-LD5-105SL-SLC-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-SLC-UNV-L935-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 | 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 | 64 | 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° | 14301 | 14301 | 14301 |
| 5° | 14495 | 13979 | 13795 |
| 10° | 14533 | 13779 | 13747 |
| 15° | 14594 | 13986 | 14328 |
| 20° | 14751 | 14415 | 13449 |
| 25° | 14958 | 13866 | 10356 |
| 30° | 15279 | 11624 | 7366 |
| 35° | 15687 | 8812 | 4988 |
| 40° | 16200 | 6413 | 4223 |
| 45° | 16608 | 4657 | 6639 |
| 50° | 16679 | 5164 | 6301 |
| 55° | 15644 | 5950 | 6223 |
| 60° | 13388 | 5454 | 6614 |
| 65° | 10131 | 5511 | 6050 |
| 70° | 7170 | 5028 | 5631 |
| 75° | 4762 | 4226 | 5053 |
| 80° | 3114 | 3634 | 4206 |
| 85° | 1786 | 3475 | 3776 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-SLC-UNV-L935-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 336.7 | 3.7 |
| 10°-20° | 1016.9 | 11.2 |
| 20°-30° | 1477.2 | 16.2 |
| 30°-40° | 1411.4 | 15.5 |
| 40°-50° | 1291.0 | 14.2 |
| 50°-60° | 1192.1 | 13.1 |
| 60°-70° | 946.9 | 10.4 |
| 70°-80° | 584.4 | 6.4 |
| 80°-90° | 318.2 | 3.5 |
| 90°-100° | 160.9 | 1.8 |
| 100°-110° | 101.1 | 1.1 |
| 110°-120° | 85.6 | 0.9 |
| 120°-130° | 69.9 | 0.8 |
| 130°-140° | 50.2 | 0.6 |
| 140°-150° | 30.9 | 0.3 |
| 150°-160° | 14.7 | 0.2 |
| 160°-170° | 3.8 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2830.8 | 31.1 |
| 0°-40° | 4242.2 | 46.7 |
| 0°-60° | 6725.4 | 74.0 |
| 0°-90° | 8574.9 | 94.3 |
| 90°-120° | 347.5 | 3.8 |
| 90°-150° | 498.5 | 5.5 |
| 90°-180° | 517.0 | 5.7 |
| 0°-180° | 9091.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3539 | 3539 | 3539 | 3539 | 3539 | |
| 5° | 3579 | 3524 | 3530 | 3511 | 3513 | 341 |
| 15° | 3503 | 3456 | 3591 | 3724 | 3770 | 992 |
| 25° | 3380 | 3445 | 3511 | 2972 | 2729 | 1562 |
| 35° | 3215 | 3163 | 2132 | 1468 | 1277 | 2016 |
| 45° | 2952 | 2059 | 1040 | 1327 | 1598 | 2269 |
| 55° | 2270 | 1056 | 1178 | 1268 | 1357 | 2000 |
| 65° | 1095 | 685 | 918 | 1116 | 1142 | 1108 |
| 75° | 323 | 365 | 550 | 729 | 777 | 366 |
| 85° | 45 | 155 | 312 | 425 | 431 | 58 |
| 90° | 2 | 116 | 279 | 331 | 306 | 2 |
| 95° | 0 | 108 | 193 | 171 | 161 | 0 |
| 105° | 0 | 97 | 119 | 108 | 106 | 0 |
| 115° | 0 | 80 | 114 | 102 | 97 | 1 |
| 125° | 2 | 64 | 102 | 99 | 94 | 1 |
| 135° | 2 | 45 | 82 | 89 | 86 | 1 |
| 145° | 2 | 28 | 56 | 72 | 77 | 1 |
| 155° | 3 | 17 | 34 | 45 | 55 | 1 |
| 165° | 3 | 9 | 17 | 22 | 30 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-SLC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3539.4 | 3539.4 | 3539.4 | 3539.4 | 3539.4 |
| 2.5° | 3583.3 | 3531.6 | 3537.9 | 3526.9 | 3508.1 |
| 5° | 3578.6 | 3523.8 | 3530.0 | 3511.2 | 3512.8 |
| 7.5° | 3566.1 | 3509.7 | 3517.5 | 3514.4 | 3522.2 |
| 10° | 3552.0 | 3492.4 | 3522.2 | 3548.8 | 3572.3 |
| 12.5° | 3526.9 | 3473.6 | 3545.7 | 3624.0 | 3672.6 |
| 15° | 3503.4 | 3456.4 | 3591.1 | 3724.3 | 3769.8 |
| 17.5° | 3479.9 | 3450.1 | 3647.5 | 3763.5 | 3757.2 |
| 20° | 3450.1 | 3447.0 | 3689.8 | 3650.7 | 3555.1 |
| 22.5° | 3417.2 | 3448.6 | 3656.9 | 3370.2 | 3182.2 |
| 25° | 3379.6 | 3445.4 | 3511.2 | 2972.2 | 2729.4 |
| 27.5° | 3342.0 | 3431.3 | 3246.4 | 2536.7 | 2296.9 |
| 30° | 3304.4 | 3393.7 | 2889.2 | 2138.7 | 1920.9 |
| 32.5° | 3260.5 | 3312.2 | 2500.6 | 1786.2 | 1585.6 |
| 35° | 3215.1 | 3163.4 | 2132.4 | 1468.1 | 1277.0 |
| 37.5° | 3168.1 | 2948.7 | 1801.8 | 1189.2 | 1067.0 |
| 40° | 3111.7 | 2679.2 | 1497.9 | 1020.0 | 1052.9 |
| 42.5° | 3041.2 | 2375.3 | 1229.9 | 1070.1 | 1298.9 |
| 45° | 2951.9 | 2058.8 | 1040.4 | 1327.1 | 1598.1 |
| 47.5° | 2839.1 | 1754.8 | 993.4 | 1519.8 | 1604.4 |
| 50° | 2702.8 | 1475.9 | 1092.1 | 1457.1 | 1450.9 |
| 52.5° | 2495.9 | 1244.0 | 1192.3 | 1328.7 | 1378.8 |
| 55° | 2270.3 | 1056.0 | 1178.2 | 1267.6 | 1356.9 |
| 57.5° | 1985.2 | 929.1 | 1081.1 | 1255.0 | 1358.4 |
| 60° | 1701.6 | 844.5 | 998.1 | 1253.4 | 1350.6 |
| 62.5° | 1388.2 | 767.7 | 955.8 | 1223.7 | 1281.7 |
| 65° | 1095.2 | 684.7 | 918.2 | 1115.6 | 1142.2 |
| 67.5° | 839.8 | 600.1 | 852.3 | 994.9 | 1048.2 |
| 70° | 633.0 | 517.0 | 748.9 | 902.5 | 968.3 |
| 72.5° | 455.9 | 438.7 | 642.4 | 821.0 | 889.9 |
| 75° | 322.8 | 365.1 | 550.0 | 728.6 | 777.1 |
| 77.5° | 222.5 | 297.7 | 471.6 | 626.7 | 665.9 |
| 80° | 145.7 | 238.2 | 401.1 | 539.0 | 565.6 |
| 82.5° | 87.7 | 191.2 | 347.8 | 471.6 | 485.7 |
| 85° | 45.4 | 155.1 | 311.8 | 424.6 | 430.9 |
| 87.5° | 14.1 | 130.0 | 291.4 | 402.7 | 410.5 |
| 90° | 1.6 | 115.9 | 278.9 | 330.6 | 305.5 |
| 92.5° | 0.0 | 109.7 | 241.3 | 225.6 | 202.1 |
| 95° | 0.0 | 108.1 | 192.7 | 170.8 | 161.4 |
| 97.5° | 0.0 | 105.0 | 158.2 | 142.6 | 137.9 |
| 100° | 0.0 | 101.8 | 136.3 | 125.3 | 123.8 |
| 102.5° | 0.0 | 100.3 | 123.8 | 114.4 | 112.8 |
| 105° | 0.0 | 97.1 | 119.1 | 108.1 | 106.5 |
| 107.5° | 0.0 | 92.4 | 115.9 | 105.0 | 101.8 |
| 110° | 0.0 | 87.7 | 115.9 | 103.4 | 98.7 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-105SL-SLC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|------|
| 112.5° | 0.0 | 83.0 | 115.9 | 101.8 | 97.1 |
| 115° | 0.0 | 79.9 | 114.4 | 101.8 | 97.1 |
| 117.5° | 1.6 | 76.8 | 112.8 | 101.8 | 97.1 |
| 120° | 0.0 | 73.6 | 109.7 | 101.8 | 95.6 |
| 122.5° | 1.6 | 68.9 | 106.5 | 100.3 | 95.6 |
| 125° | 1.6 | 64.2 | 101.8 | 98.7 | 94.0 |
| 127.5° | 1.6 | 59.5 | 97.1 | 95.6 | 90.9 |
| 130° | 1.6 | 54.8 | 92.4 | 94.0 | 89.3 |
| 132.5° | 1.6 | 50.1 | 86.2 | 90.9 | 87.7 |
| 135° | 1.6 | 45.4 | 81.5 | 89.3 | 86.2 |
| 137.5° | 1.6 | 40.7 | 75.2 | 84.6 | 84.6 |
| 140° | 1.6 | 36.0 | 68.9 | 81.5 | 83.0 |
| 142.5° | 1.6 | 32.9 | 62.7 | 78.3 | 79.9 |
| 145° | 1.6 | 28.2 | 56.4 | 72.1 | 76.8 |
| 147.5° | 1.6 | 25.1 | 50.1 | 65.8 | 72.1 |
| 150° | 1.6 | 21.9 | 43.9 | 59.5 | 65.8 |
| 152.5° | 1.6 | 18.8 | 39.2 | 51.7 | 61.1 |
| 155° | 3.1 | 17.2 | 34.5 | 45.4 | 54.8 |
| 157.5° | 3.1 | 14.1 | 28.2 | 39.2 | 47.0 |
| 160° | 3.1 | 12.5 | 25.1 | 32.9 | 42.3 |
| 162.5° | 3.1 | 11.0 | 20.4 | 28.2 | 36.0 |
| 165° | 3.1 | 9.4 | 17.2 | 21.9 | 29.8 |
| 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)