

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-LD5-98SL-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-LD5-98SL-SLC-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

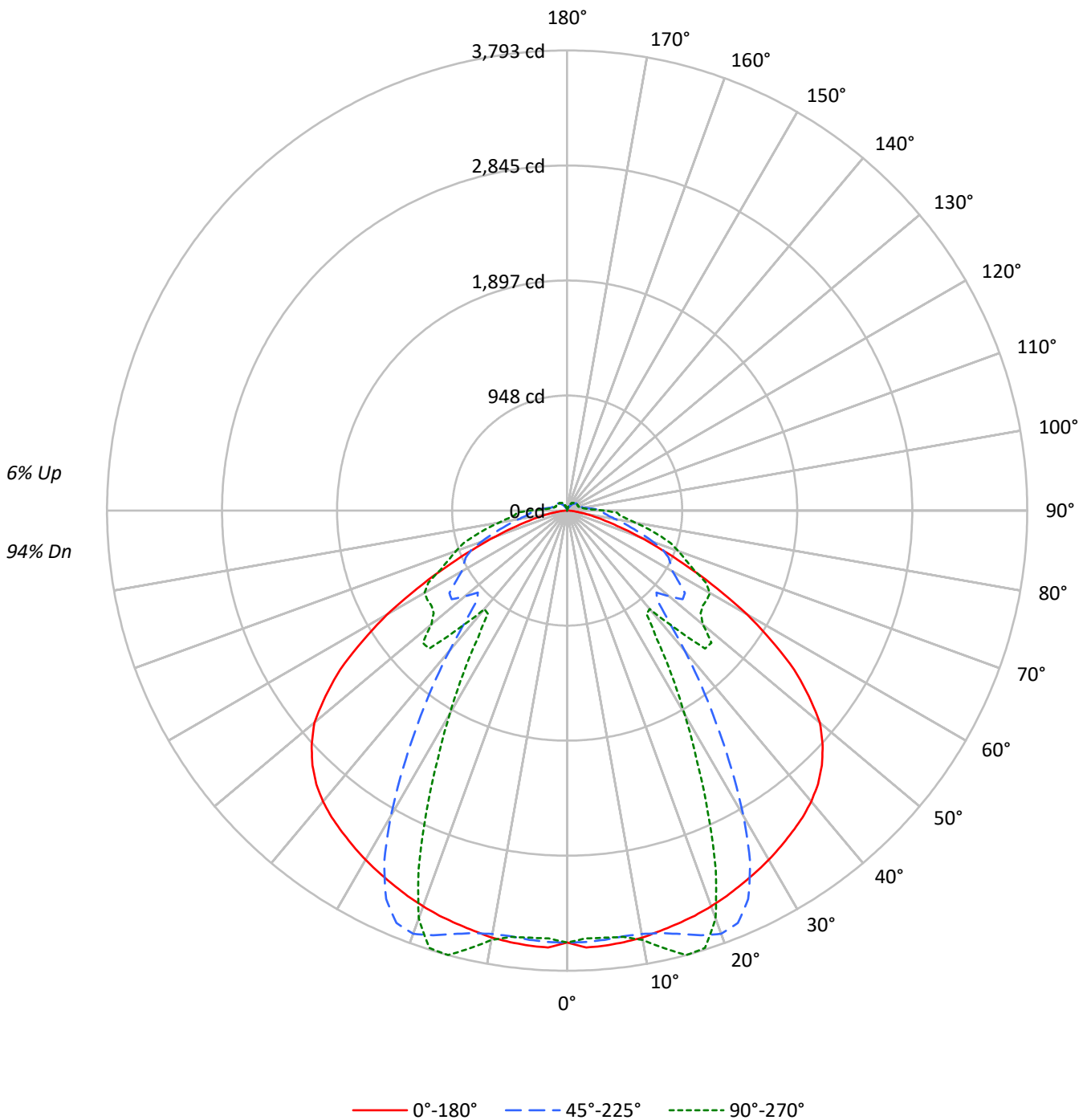
Lumens per Lamp: N/A
Luminaire Lumens: 9147.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 75
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-LD5-98SL-SLC-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-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 | 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° | 14387 | 14387 | 14387 |
| 5° | 14582 | 14064 | 13878 |
| 10° | 14621 | 13863 | 13830 |
| 15° | 14682 | 14071 | 14415 |
| 20° | 14840 | 14502 | 13530 |
| 25° | 15049 | 13950 | 10418 |
| 30° | 15372 | 11695 | 7410 |
| 35° | 15782 | 8866 | 5018 |
| 40° | 16298 | 6451 | 4249 |
| 45° | 16708 | 4686 | 6680 |
| 50° | 16780 | 5195 | 6339 |
| 55° | 15738 | 5987 | 6260 |
| 60° | 13469 | 5487 | 6654 |
| 65° | 10192 | 5544 | 6087 |
| 70° | 7213 | 5059 | 5665 |
| 75° | 4790 | 4251 | 5083 |
| 80° | 3133 | 3656 | 4231 |
| 85° | 1798 | 3496 | 3799 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLC-UNV-L950-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 338.8 | 3.7 |
| 10°-20° | 1023.0 | 11.2 |
| 20°-30° | 1486.2 | 16.2 |
| 30°-40° | 1419.9 | 15.5 |
| 40°-50° | 1298.9 | 14.2 |
| 50°-60° | 1199.3 | 13.1 |
| 60°-70° | 952.6 | 10.4 |
| 70°-80° | 588.0 | 6.4 |
| 80°-90° | 320.2 | 3.5 |
| 90°-100° | 161.8 | 1.8 |
| 100°-110° | 101.7 | 1.1 |
| 110°-120° | 86.1 | 0.9 |
| 120°-130° | 70.4 | 0.8 |
| 130°-140° | 50.5 | 0.6 |
| 140°-150° | 31.1 | 0.3 |
| 150°-160° | 14.8 | 0.2 |
| 160°-170° | 3.8 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2848.0 | 31.1 |
| 0°-40° | 4267.9 | 46.7 |
| 0°-60° | 6766.1 | 74.0 |
| 0°-90° | 8626.8 | 94.3 |
| 90°-120° | 349.6 | 3.8 |
| 90°-150° | 501.6 | 5.5 |
| 90°-180° | 520.0 | 5.7 |
| 0°-180° | 9147.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3561 | 3561 | 3561 | 3561 | 3561 | |
| 5° | 3600 | 3545 | 3551 | 3532 | 3534 | 343 |
| 15° | 3525 | 3477 | 3613 | 3747 | 3793 | 997 |
| 25° | 3400 | 3466 | 3532 | 2990 | 2746 | 1571 |
| 35° | 3234 | 3182 | 2145 | 1477 | 1285 | 2028 |
| 45° | 2970 | 2071 | 1047 | 1335 | 1608 | 2282 |
| 55° | 2284 | 1062 | 1185 | 1275 | 1365 | 2012 |
| 65° | 1102 | 689 | 924 | 1122 | 1149 | 1114 |
| 75° | 325 | 367 | 553 | 733 | 782 | 368 |
| 85° | 46 | 156 | 314 | 427 | 434 | 58 |
| 90° | 2 | 117 | 281 | 333 | 307 | 2 |
| 95° | 0 | 109 | 194 | 172 | 162 | 0 |
| 105° | 0 | 98 | 120 | 109 | 107 | 0 |
| 115° | 0 | 80 | 115 | 102 | 98 | 1 |
| 125° | 2 | 65 | 102 | 99 | 95 | 1 |
| 135° | 2 | 46 | 82 | 90 | 87 | 1 |
| 145° | 2 | 28 | 57 | 72 | 77 | 1 |
| 155° | 3 | 17 | 35 | 46 | 55 | 1 |
| 165° | 3 | 10 | 17 | 22 | 30 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3560.8 | 3560.8 | 3560.8 | 3560.8 | 3560.8 |
| 2.5° | 3605.0 | 3553.0 | 3559.3 | 3548.2 | 3529.3 |
| 5° | 3600.2 | 3545.1 | 3551.4 | 3532.5 | 3534.0 |
| 7.5° | 3587.6 | 3530.9 | 3538.8 | 3535.6 | 3543.5 |
| 10° | 3573.5 | 3513.6 | 3543.5 | 3570.3 | 3593.9 |
| 12.5° | 3548.2 | 3494.6 | 3567.1 | 3646.0 | 3694.8 |
| 15° | 3524.6 | 3477.3 | 3612.9 | 3746.8 | 3792.6 |
| 17.5° | 3500.9 | 3471.0 | 3669.6 | 3786.2 | 3779.9 |
| 20° | 3471.0 | 3467.8 | 3712.2 | 3672.8 | 3576.6 |
| 22.5° | 3437.9 | 3469.4 | 3679.1 | 3390.6 | 3201.4 |
| 25° | 3400.1 | 3466.3 | 3532.5 | 2990.2 | 2745.9 |
| 27.5° | 3362.2 | 3452.1 | 3266.1 | 2552.0 | 2310.8 |
| 30° | 3324.4 | 3414.2 | 2906.7 | 2151.6 | 1932.5 |
| 32.5° | 3280.3 | 3332.3 | 2515.8 | 1797.0 | 1595.2 |
| 35° | 3234.5 | 3182.5 | 2145.3 | 1477.0 | 1284.7 |
| 37.5° | 3187.3 | 2966.6 | 1812.7 | 1196.4 | 1073.5 |
| 40° | 3130.5 | 2695.5 | 1506.9 | 1026.2 | 1059.3 |
| 42.5° | 3059.6 | 2389.7 | 1237.4 | 1076.6 | 1306.7 |
| 45° | 2969.7 | 2071.2 | 1046.7 | 1335.1 | 1607.8 |
| 47.5° | 2856.2 | 1765.4 | 999.4 | 1529.0 | 1614.1 |
| 50° | 2719.1 | 1484.9 | 1098.7 | 1465.9 | 1459.6 |
| 52.5° | 2511.0 | 1251.6 | 1199.6 | 1336.7 | 1387.1 |
| 55° | 2284.0 | 1062.4 | 1185.4 | 1275.2 | 1365.1 |
| 57.5° | 1997.2 | 934.7 | 1087.6 | 1262.6 | 1366.6 |
| 60° | 1711.9 | 849.6 | 1004.1 | 1261.0 | 1358.8 |
| 62.5° | 1396.6 | 772.4 | 961.5 | 1231.1 | 1289.4 |
| 65° | 1101.8 | 688.8 | 923.7 | 1122.3 | 1149.1 |
| 67.5° | 844.9 | 603.7 | 857.5 | 1000.9 | 1054.5 |
| 70° | 636.8 | 520.2 | 753.5 | 907.9 | 974.1 |
| 72.5° | 458.7 | 441.4 | 646.3 | 826.0 | 895.3 |
| 75° | 324.7 | 367.3 | 553.3 | 733.0 | 781.8 |
| 77.5° | 223.8 | 299.5 | 474.5 | 630.5 | 669.9 |
| 80° | 146.6 | 239.6 | 403.5 | 542.2 | 569.0 |
| 82.5° | 88.3 | 192.3 | 349.9 | 474.5 | 488.6 |
| 85° | 45.7 | 156.1 | 313.7 | 427.2 | 433.5 |
| 87.5° | 14.2 | 130.8 | 293.2 | 405.1 | 413.0 |
| 90° | 1.6 | 116.6 | 280.6 | 332.6 | 307.4 |
| 92.5° | 0.0 | 110.3 | 242.7 | 227.0 | 203.3 |
| 95° | 0.0 | 108.8 | 193.9 | 171.8 | 162.4 |
| 97.5° | 0.0 | 105.6 | 159.2 | 143.4 | 138.7 |
| 100° | 0.0 | 102.5 | 137.1 | 126.1 | 124.5 |
| 102.5° | 0.0 | 100.9 | 124.5 | 115.1 | 113.5 |
| 105° | 0.0 | 97.7 | 119.8 | 108.8 | 107.2 |
| 107.5° | 0.0 | 93.0 | 116.6 | 105.6 | 102.5 |
| 110° | 0.0 | 88.3 | 116.6 | 104.0 | 99.3 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|------|
| 112.5° | 0.0 | 83.5 | 116.6 | 102.5 | 97.7 |
| 115° | 0.0 | 80.4 | 115.1 | 102.5 | 97.7 |
| 117.5° | 1.6 | 77.2 | 113.5 | 102.5 | 97.7 |
| 120° | 0.0 | 74.1 | 110.3 | 102.5 | 96.2 |
| 122.5° | 1.6 | 69.4 | 107.2 | 100.9 | 96.2 |
| 125° | 1.6 | 64.6 | 102.5 | 99.3 | 94.6 |
| 127.5° | 1.6 | 59.9 | 97.7 | 96.2 | 91.4 |
| 130° | 1.6 | 55.2 | 93.0 | 94.6 | 89.8 |
| 132.5° | 1.6 | 50.4 | 86.7 | 91.4 | 88.3 |
| 135° | 1.6 | 45.7 | 82.0 | 89.8 | 86.7 |
| 137.5° | 1.6 | 41.0 | 75.7 | 85.1 | 85.1 |
| 140° | 1.6 | 36.3 | 69.4 | 82.0 | 83.5 |
| 142.5° | 1.6 | 33.1 | 63.1 | 78.8 | 80.4 |
| 145° | 1.6 | 28.4 | 56.7 | 72.5 | 77.2 |
| 147.5° | 1.6 | 25.2 | 50.4 | 66.2 | 72.5 |
| 150° | 1.6 | 22.1 | 44.1 | 59.9 | 66.2 |
| 152.5° | 1.6 | 18.9 | 39.4 | 52.0 | 61.5 |
| 155° | 3.2 | 17.3 | 34.7 | 45.7 | 55.2 |
| 157.5° | 3.2 | 14.2 | 28.4 | 39.4 | 47.3 |
| 160° | 3.2 | 12.6 | 25.2 | 33.1 | 42.6 |
| 162.5° | 3.2 | 11.0 | 20.5 | 28.4 | 36.3 |
| 165° | 3.2 | 9.5 | 17.3 | 22.1 | 29.9 |
| 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)