

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-LD5-136SL-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-136SL-SLN-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

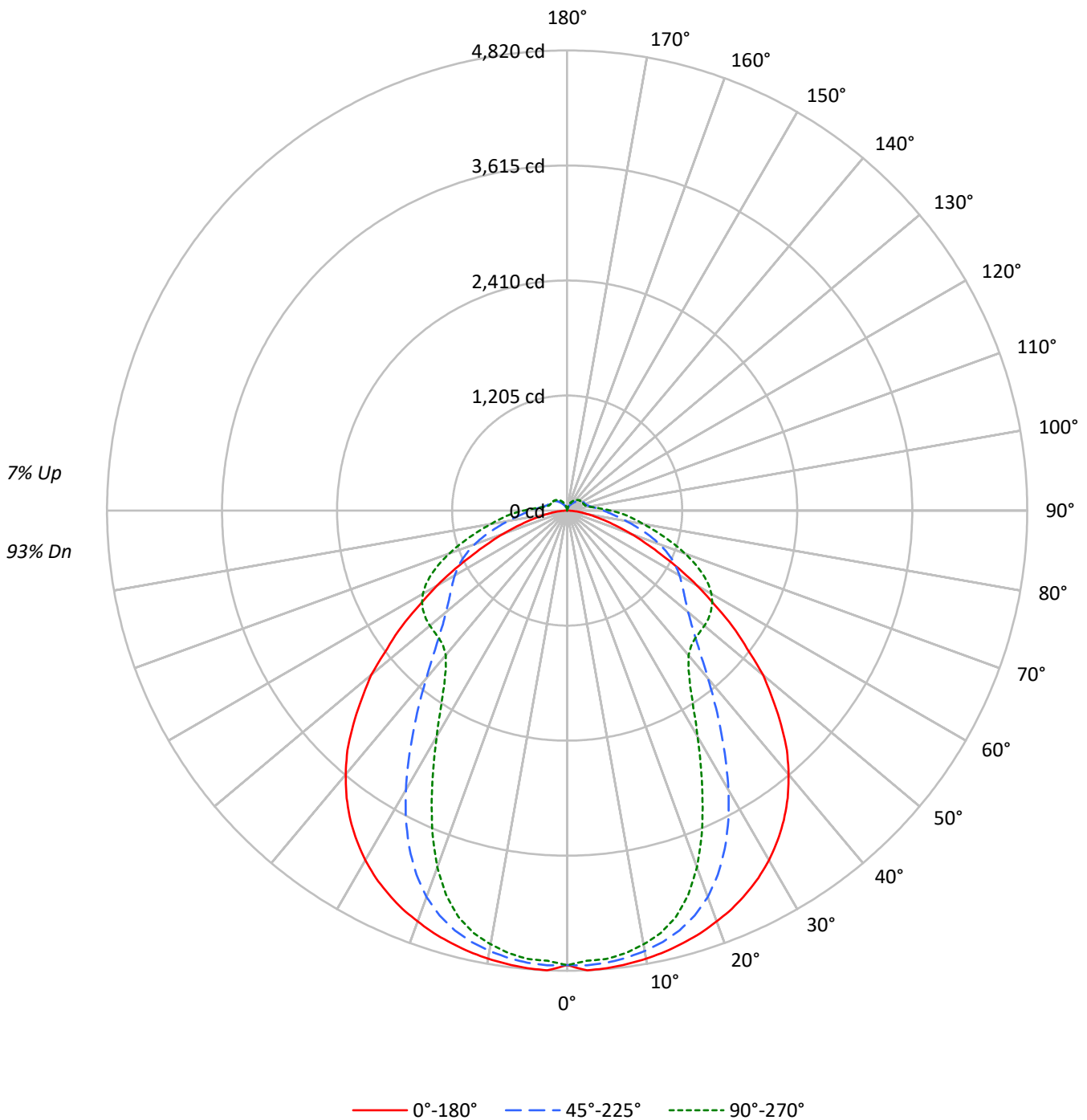
Lumens per Lamp: N/A
Luminaire Lumens: 11972.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 110
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#
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Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-SLN-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 | 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° | 19235 | 19235 | 19235 |
| 5° | 19483 | 18828 | 18516 |
| 10° | 19504 | 18324 | 17754 |
| 15° | 19538 | 17726 | 16741 |
| 20° | 19575 | 16828 | 15035 |
| 25° | 19614 | 15434 | 12732 |
| 30° | 19553 | 13593 | 10472 |
| 35° | 19311 | 11576 | 8776 |
| 40° | 18785 | 9814 | 7934 |
| 45° | 17833 | 8539 | 7873 |
| 50° | 16521 | 7816 | 8150 |
| 55° | 14599 | 7523 | 8435 |
| 60° | 12372 | 7428 | 8551 |
| 65° | 10009 | 7277 | 8285 |
| 70° | 8108 | 6917 | 7641 |
| 75° | 6195 | 6279 | 6780 |
| 80° | 4687 | 5661 | 6031 |
| 85° | 3336 | 5372 | 5548 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-SLN-UNV-L950-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 450.4 | 3.8 |
| 10°-20° | 1273.0 | 10.6 |
| 20°-30° | 1779.5 | 14.9 |
| 30°-40° | 1845.8 | 15.4 |
| 40°-50° | 1705.3 | 14.2 |
| 50°-60° | 1522.5 | 12.7 |
| 60°-70° | 1233.8 | 10.3 |
| 70°-80° | 820.7 | 6.9 |
| 80°-90° | 470.0 | 3.9 |
| 90°-100° | 260.0 | 2.2 |
| 100°-110° | 176.1 | 1.5 |
| 110°-120° | 146.6 | 1.2 |
| 120°-130° | 119.2 | 1.0 |
| 130°-140° | 85.9 | 0.7 |
| 140°-150° | 51.8 | 0.4 |
| 150°-160° | 24.9 | 0.2 |
| 160°-170° | 6.4 | 0.1 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3502.9 | 29.3 |
| 0°-40° | 5348.8 | 44.7 |
| 0°-60° | 8576.5 | 71.6 |
| 0°-90° | 11101.0 | 92.7 |
| 90°-120° | 582.7 | 4.9 |
| 90°-150° | 839.6 | 7.0 |
| 90°-180° | 871.0 | 7.3 |
| 0°-180° | 11972.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4760 | 4760 | 4760 | 4760 | 4760 | |
| 5° | 4810 | 4730 | 4754 | 4721 | 4715 | 458 |
| 15° | 4690 | 4591 | 4552 | 4448 | 4405 | 1325 |
| 25° | 4432 | 4235 | 3908 | 3498 | 3356 | 2042 |
| 35° | 3958 | 3523 | 2801 | 2352 | 2247 | 2469 |
| 45° | 3170 | 2512 | 1908 | 1839 | 1895 | 2437 |
| 55° | 2119 | 1601 | 1490 | 1732 | 1839 | 1884 |
| 65° | 1082 | 968 | 1212 | 1486 | 1564 | 1094 |
| 75° | 420 | 526 | 817 | 1001 | 1043 | 460 |
| 85° | 85 | 244 | 482 | 616 | 633 | 98 |
| 90° | 4 | 172 | 381 | 459 | 455 | 7 |
| 95° | 4 | 145 | 302 | 323 | 312 | 3 |
| 105° | 2 | 126 | 217 | 211 | 201 | 2 |
| 115° | 2 | 114 | 192 | 190 | 184 | 2 |
| 125° | 2 | 97 | 170 | 178 | 174 | 2 |
| 135° | 4 | 72 | 134 | 157 | 157 | 3 |
| 145° | 4 | 46 | 93 | 122 | 130 | 3 |
| 155° | 4 | 29 | 58 | 76 | 93 | 2 |
| 165° | 4 | 17 | 29 | 37 | 50 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-SLN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4760.5 | 4760.5 | 4760.5 | 4760.5 | 4760.5 |
| 2.5° | 4820.5 | 4741.9 | 4766.8 | 4746.1 | 4719.2 |
| 5° | 4810.2 | 4729.5 | 4754.3 | 4721.2 | 4715.0 |
| 7.5° | 4791.6 | 4710.9 | 4725.4 | 4686.1 | 4675.7 |
| 10° | 4766.8 | 4681.9 | 4684.0 | 4628.1 | 4613.7 |
| 12.5° | 4733.7 | 4640.5 | 4628.1 | 4551.6 | 4530.9 |
| 15° | 4690.2 | 4590.9 | 4551.6 | 4448.1 | 4404.7 |
| 17.5° | 4642.6 | 4526.8 | 4446.1 | 4286.8 | 4218.5 |
| 20° | 4578.5 | 4448.1 | 4307.5 | 4065.4 | 3974.4 |
| 22.5° | 4514.3 | 4353.0 | 4127.5 | 3804.7 | 3682.6 |
| 25° | 4431.6 | 4235.0 | 3908.2 | 3498.5 | 3355.8 |
| 27.5° | 4338.5 | 4096.4 | 3655.8 | 3184.0 | 3030.9 |
| 30° | 4228.8 | 3928.8 | 3378.5 | 2875.8 | 2731.0 |
| 32.5° | 4100.6 | 3740.6 | 3086.8 | 2598.5 | 2464.1 |
| 35° | 3957.8 | 3523.3 | 2801.3 | 2352.3 | 2246.8 |
| 37.5° | 3794.4 | 3285.4 | 2536.5 | 2153.7 | 2085.5 |
| 40° | 3608.2 | 3026.8 | 2292.3 | 2000.6 | 1977.9 |
| 42.5° | 3407.5 | 2774.4 | 2083.4 | 1901.3 | 1922.0 |
| 45° | 3169.6 | 2511.6 | 1907.5 | 1839.3 | 1895.1 |
| 47.5° | 2919.2 | 2255.1 | 1764.8 | 1804.1 | 1884.8 |
| 50° | 2677.2 | 2017.2 | 1653.1 | 1781.3 | 1876.5 |
| 52.5° | 2377.2 | 1804.1 | 1564.1 | 1760.6 | 1864.1 |
| 55° | 2118.6 | 1601.3 | 1489.6 | 1731.7 | 1839.3 |
| 57.5° | 1820.6 | 1419.3 | 1423.4 | 1694.4 | 1802.0 |
| 60° | 1572.4 | 1253.8 | 1359.3 | 1642.7 | 1746.2 |
| 62.5° | 1320.0 | 1104.8 | 1288.9 | 1574.4 | 1667.5 |
| 65° | 1082.0 | 968.2 | 1212.4 | 1485.5 | 1564.1 |
| 67.5° | 883.4 | 844.1 | 1125.5 | 1377.9 | 1444.1 |
| 70° | 715.8 | 730.3 | 1030.3 | 1257.9 | 1313.8 |
| 72.5° | 550.3 | 624.8 | 926.9 | 1129.6 | 1177.2 |
| 75° | 420.0 | 525.5 | 817.2 | 1001.3 | 1042.7 |
| 77.5° | 310.3 | 438.6 | 717.9 | 885.5 | 920.7 |
| 80° | 219.3 | 362.1 | 624.8 | 784.1 | 811.0 |
| 82.5° | 146.9 | 297.9 | 548.3 | 693.1 | 717.9 |
| 85° | 84.8 | 244.1 | 482.1 | 616.5 | 633.1 |
| 87.5° | 35.2 | 202.8 | 428.3 | 537.9 | 546.2 |
| 90° | 4.1 | 171.7 | 380.7 | 459.3 | 455.2 |
| 92.5° | 4.1 | 155.2 | 339.3 | 384.8 | 374.5 |
| 95° | 4.1 | 144.8 | 302.1 | 322.7 | 312.4 |
| 97.5° | 4.1 | 138.6 | 269.0 | 277.2 | 266.9 |
| 100° | 2.1 | 134.5 | 246.2 | 246.2 | 235.9 |
| 102.5° | 2.1 | 130.3 | 229.6 | 223.4 | 215.2 |
| 105° | 2.1 | 126.2 | 217.2 | 211.0 | 200.7 |
| 107.5° | 2.1 | 124.1 | 209.0 | 202.8 | 192.4 |
| 110° | 2.1 | 120.0 | 202.8 | 196.5 | 188.3 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-SLN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.1 | 117.9 | 198.6 | 194.5 | 184.1 |
| 115° | 2.1 | 113.8 | 192.4 | 190.3 | 184.1 |
| 117.5° | 2.1 | 109.7 | 188.3 | 188.3 | 182.1 |
| 120° | 2.1 | 105.5 | 182.1 | 186.2 | 180.0 |
| 122.5° | 2.1 | 101.4 | 175.9 | 182.1 | 175.9 |
| 125° | 2.1 | 97.2 | 169.7 | 177.9 | 173.8 |
| 127.5° | 4.1 | 91.0 | 161.4 | 173.8 | 169.7 |
| 130° | 2.1 | 84.8 | 153.1 | 169.7 | 167.6 |
| 132.5° | 4.1 | 78.6 | 144.8 | 163.4 | 163.4 |
| 135° | 4.1 | 72.4 | 134.5 | 157.2 | 157.2 |
| 137.5° | 4.1 | 64.1 | 124.1 | 149.0 | 151.0 |
| 140° | 4.1 | 57.9 | 113.8 | 140.7 | 144.8 |
| 142.5° | 4.1 | 51.7 | 103.4 | 132.4 | 138.6 |
| 145° | 4.1 | 45.5 | 93.1 | 122.1 | 130.3 |
| 147.5° | 4.1 | 41.4 | 82.8 | 109.7 | 122.1 |
| 150° | 4.1 | 35.2 | 74.5 | 99.3 | 111.7 |
| 152.5° | 4.1 | 31.0 | 66.2 | 89.0 | 103.4 |
| 155° | 4.1 | 29.0 | 57.9 | 76.5 | 93.1 |
| 157.5° | 4.1 | 24.8 | 49.7 | 66.2 | 82.8 |
| 160° | 4.1 | 20.7 | 41.4 | 57.9 | 70.3 |
| 162.5° | 4.1 | 18.6 | 35.2 | 47.6 | 62.1 |
| 165° | 4.1 | 16.6 | 29.0 | 37.2 | 49.7 |
| 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)