

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-LD5-134SL-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-LD5-134SL-SLC-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

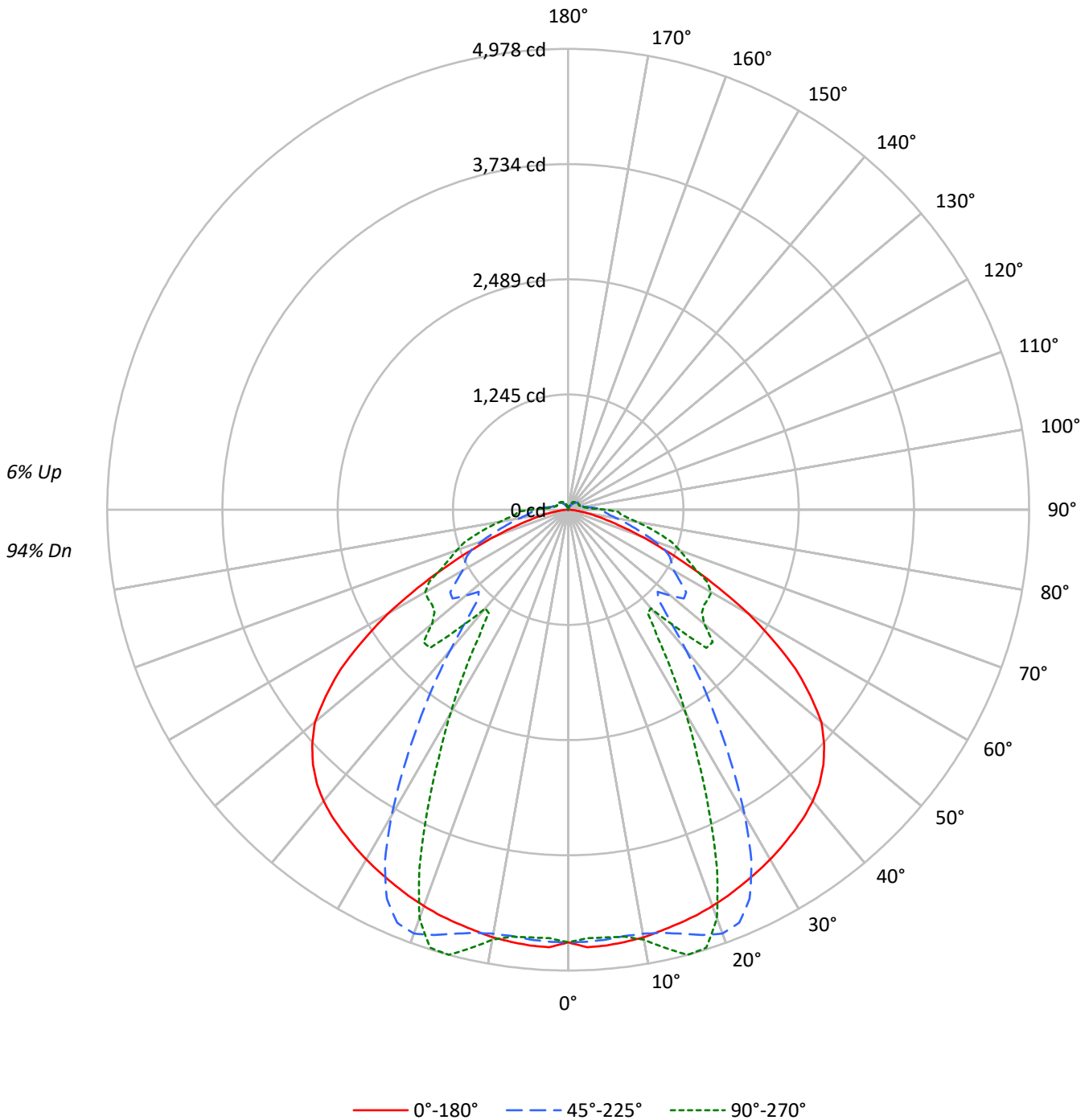
Lumens per Lamp: N/A
Luminaire Lumens: 12005.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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#
CATALOG NUMBER: 8SNLED-LD5-134SL-SLC-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-134SL-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° | 18883 | 18883 | 18883 |
| 5° | 19139 | 18458 | 18214 |
| 10° | 19189 | 18194 | 18151 |
| 15° | 19269 | 18467 | 18918 |
| 20° | 19477 | 19033 | 17758 |
| 25° | 19750 | 18309 | 13674 |
| 30° | 20174 | 15349 | 9726 |
| 35° | 20713 | 11636 | 6586 |
| 40° | 21390 | 8468 | 5576 |
| 45° | 21929 | 6149 | 8767 |
| 50° | 22022 | 6818 | 8320 |
| 55° | 20656 | 7857 | 8216 |
| 60° | 17677 | 7201 | 8733 |
| 65° | 13377 | 7276 | 7989 |
| 70° | 9467 | 6639 | 7435 |
| 75° | 6287 | 5580 | 6672 |
| 80° | 4112 | 4799 | 5554 |
| 85° | 2360 | 4588 | 4985 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-134SL-SLC-UNV-L950-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 444.6 | 3.7 |
| 10°-20° | 1342.7 | 11.2 |
| 20°-30° | 1950.5 | 16.2 |
| 30°-40° | 1863.6 | 15.5 |
| 40°-50° | 1704.7 | 14.2 |
| 50°-60° | 1574.0 | 13.1 |
| 60°-70° | 1250.3 | 10.4 |
| 70°-80° | 771.7 | 6.4 |
| 80°-90° | 420.2 | 3.5 |
| 90°-100° | 212.4 | 1.8 |
| 100°-110° | 133.5 | 1.1 |
| 110°-120° | 113.1 | 0.9 |
| 120°-130° | 92.3 | 0.8 |
| 130°-140° | 66.2 | 0.6 |
| 140°-150° | 40.8 | 0.3 |
| 150°-160° | 19.4 | 0.2 |
| 160°-170° | 5.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3737.8 | 31.1 |
| 0°-40° | 5601.4 | 46.7 |
| 0°-60° | 8880.1 | 74.0 |
| 0°-90° | 11322.3 | 94.3 |
| 90°-120° | 458.9 | 3.8 |
| 90°-150° | 658.3 | 5.5 |
| 90°-180° | 683.0 | 5.7 |
| 0°-180° | 12005.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4673 | 4673 | 4673 | 4673 | 4673 | |
| 5° | 4725 | 4653 | 4661 | 4636 | 4638 | 450 |
| 15° | 4626 | 4564 | 4742 | 4918 | 4978 | 1309 |
| 25° | 4462 | 4549 | 4636 | 3924 | 3604 | 2063 |
| 35° | 4245 | 4177 | 2816 | 1938 | 1686 | 2662 |
| 45° | 3898 | 2718 | 1374 | 1752 | 2110 | 2995 |
| 55° | 2998 | 1394 | 1556 | 1674 | 1792 | 2640 |
| 65° | 1446 | 904 | 1212 | 1473 | 1508 | 1462 |
| 75° | 426 | 482 | 726 | 962 | 1026 | 483 |
| 85° | 60 | 205 | 412 | 561 | 569 | 76 |
| 90° | 2 | 153 | 368 | 436 | 403 | 3 |
| 95° | 0 | 143 | 254 | 226 | 213 | 0 |
| 105° | 0 | 128 | 157 | 143 | 141 | 0 |
| 115° | 0 | 106 | 151 | 134 | 128 | 1 |
| 125° | 2 | 85 | 134 | 130 | 124 | 2 |
| 135° | 2 | 60 | 108 | 118 | 114 | 2 |
| 145° | 2 | 37 | 74 | 95 | 101 | 1 |
| 155° | 4 | 23 | 46 | 60 | 72 | 2 |
| 165° | 4 | 12 | 23 | 29 | 39 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-134SL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4673.4 | 4673.4 | 4673.4 | 4673.4 | 4673.4 |
| 2.5° | 4731.4 | 4663.1 | 4671.4 | 4656.9 | 4632.1 |
| 5° | 4725.2 | 4652.7 | 4661.0 | 4636.2 | 4638.3 |
| 7.5° | 4708.6 | 4634.1 | 4644.5 | 4640.3 | 4650.7 |
| 10° | 4690.0 | 4611.4 | 4650.7 | 4685.8 | 4716.9 |
| 12.5° | 4656.9 | 4586.5 | 4681.7 | 4785.1 | 4849.3 |
| 15° | 4625.8 | 4563.8 | 4741.7 | 4917.6 | 4977.5 |
| 17.5° | 4594.8 | 4555.5 | 4816.2 | 4969.3 | 4961.0 |
| 20° | 4555.5 | 4551.4 | 4872.0 | 4820.3 | 4694.1 |
| 22.5° | 4512.1 | 4553.4 | 4828.6 | 4450.0 | 4201.7 |
| 25° | 4462.4 | 4549.3 | 4636.2 | 3924.5 | 3603.9 |
| 27.5° | 4412.8 | 4530.7 | 4286.6 | 3349.4 | 3032.9 |
| 30° | 4363.1 | 4481.0 | 3814.9 | 2823.9 | 2536.4 |
| 32.5° | 4305.2 | 4373.5 | 3301.8 | 2358.4 | 2093.6 |
| 35° | 4245.2 | 4176.9 | 2815.6 | 1938.5 | 1686.1 |
| 37.5° | 4183.1 | 3893.5 | 2379.1 | 1570.2 | 1408.9 |
| 40° | 4108.6 | 3537.7 | 1977.8 | 1346.8 | 1390.2 |
| 42.5° | 4015.6 | 3136.3 | 1624.0 | 1413.0 | 1715.0 |
| 45° | 3897.6 | 2718.4 | 1373.7 | 1752.3 | 2110.2 |
| 47.5° | 3748.7 | 2317.1 | 1311.6 | 2006.7 | 2118.5 |
| 50° | 3568.7 | 1948.8 | 1442.0 | 1924.0 | 1915.7 |
| 52.5° | 3295.6 | 1642.6 | 1574.4 | 1754.3 | 1820.5 |
| 55° | 2997.7 | 1394.4 | 1555.7 | 1673.7 | 1791.6 |
| 57.5° | 2621.2 | 1226.8 | 1427.5 | 1657.1 | 1793.7 |
| 60° | 2246.7 | 1115.1 | 1317.8 | 1655.0 | 1783.3 |
| 62.5° | 1833.0 | 1013.7 | 1262.0 | 1615.7 | 1692.3 |
| 65° | 1446.1 | 904.1 | 1212.3 | 1473.0 | 1508.2 |
| 67.5° | 1108.9 | 792.4 | 1125.4 | 1313.7 | 1384.0 |
| 70° | 835.8 | 682.7 | 988.9 | 1191.6 | 1278.5 |
| 72.5° | 602.0 | 579.3 | 848.2 | 1084.1 | 1175.1 |
| 75° | 426.2 | 482.0 | 726.2 | 962.0 | 1026.1 |
| 77.5° | 293.8 | 393.1 | 622.7 | 827.5 | 879.2 |
| 80° | 192.4 | 314.5 | 529.6 | 711.7 | 746.8 |
| 82.5° | 115.9 | 252.4 | 459.3 | 622.7 | 641.3 |
| 85° | 60.0 | 204.8 | 411.7 | 560.6 | 568.9 |
| 87.5° | 18.6 | 171.7 | 384.8 | 531.7 | 542.0 |
| 90° | 2.1 | 153.1 | 368.2 | 436.5 | 403.4 |
| 92.5° | 0.0 | 144.8 | 318.6 | 297.9 | 266.9 |
| 95° | 0.0 | 142.7 | 254.5 | 225.5 | 213.1 |
| 97.5° | 0.0 | 138.6 | 208.9 | 188.3 | 182.1 |
| 100° | 0.0 | 134.5 | 180.0 | 165.5 | 163.4 |
| 102.5° | 0.0 | 132.4 | 163.4 | 151.0 | 149.0 |
| 105° | 0.0 | 128.3 | 157.2 | 142.7 | 140.7 |
| 107.5° | 0.0 | 122.1 | 153.1 | 138.6 | 134.5 |
| 110° | 0.0 | 115.9 | 153.1 | 136.5 | 130.3 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-134SL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 109.6 | 153.1 | 134.5 | 128.3 |
| 115° | 0.0 | 105.5 | 151.0 | 134.5 | 128.3 |
| 117.5° | 2.1 | 101.4 | 149.0 | 134.5 | 128.3 |
| 120° | 0.0 | 97.2 | 144.8 | 134.5 | 126.2 |
| 122.5° | 2.1 | 91.0 | 140.7 | 132.4 | 126.2 |
| 125° | 2.1 | 84.8 | 134.5 | 130.3 | 124.1 |
| 127.5° | 2.1 | 78.6 | 128.3 | 126.2 | 120.0 |
| 130° | 2.1 | 72.4 | 122.1 | 124.1 | 117.9 |
| 132.5° | 2.1 | 66.2 | 113.8 | 120.0 | 115.9 |
| 135° | 2.1 | 60.0 | 107.6 | 117.9 | 113.8 |
| 137.5° | 2.1 | 53.8 | 99.3 | 111.7 | 111.7 |
| 140° | 2.1 | 47.6 | 91.0 | 107.6 | 109.6 |
| 142.5° | 2.1 | 43.4 | 82.8 | 103.4 | 105.5 |
| 145° | 2.1 | 37.2 | 74.5 | 95.2 | 101.4 |
| 147.5° | 2.1 | 33.1 | 66.2 | 86.9 | 95.2 |
| 150° | 2.1 | 29.0 | 57.9 | 78.6 | 86.9 |
| 152.5° | 2.1 | 24.8 | 51.7 | 68.3 | 80.7 |
| 155° | 4.1 | 22.8 | 45.5 | 60.0 | 72.4 |
| 157.5° | 4.1 | 18.6 | 37.2 | 51.7 | 62.1 |
| 160° | 4.1 | 16.6 | 33.1 | 43.4 | 55.9 |
| 162.5° | 4.1 | 14.5 | 26.9 | 37.2 | 47.6 |
| 165° | 4.1 | 12.4 | 22.8 | 29.0 | 39.3 |
| 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)