

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-LD5-200HL-SLN-UNV-L930-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-LD5-200HL-SLN-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

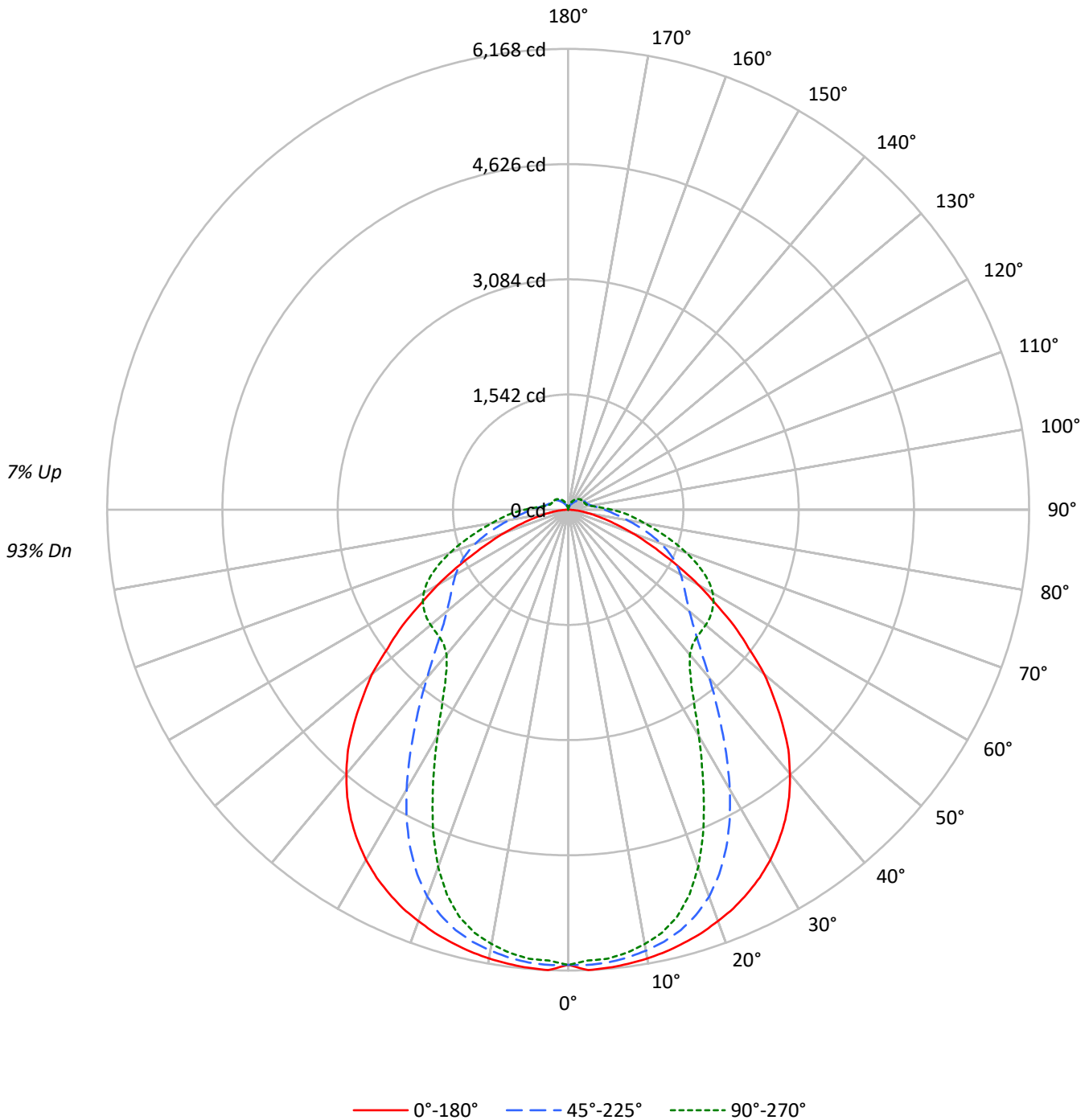
Lumens per Lamp: N/A
Luminaire Lumens: 15319.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 158
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-LD5-200HL-SLN-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L930-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° | 24612 | 24612 | 24612 |
| 5° | 24930 | 24092 | 23692 |
| 10° | 24956 | 23447 | 22717 |
| 15° | 24999 | 22682 | 21421 |
| 20° | 25048 | 21532 | 19238 |
| 25° | 25097 | 19749 | 16291 |
| 30° | 25020 | 17393 | 13399 |
| 35° | 24710 | 14813 | 11230 |
| 40° | 24037 | 12558 | 10151 |
| 45° | 22818 | 10926 | 10075 |
| 50° | 21139 | 10001 | 10428 |
| 55° | 18679 | 9626 | 10793 |
| 60° | 15831 | 9504 | 10942 |
| 65° | 12808 | 9311 | 10601 |
| 70° | 10376 | 8851 | 9776 |
| 75° | 7927 | 8034 | 8675 |
| 80° | 5998 | 7244 | 7717 |
| 85° | 4268 | 6873 | 7099 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L930-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 576.3 | 3.8 |
| 10°-20° | 1628.9 | 10.6 |
| 20°-30° | 2277.1 | 14.9 |
| 30°-40° | 2361.9 | 15.4 |
| 40°-50° | 2182.0 | 14.2 |
| 50°-60° | 1948.1 | 12.7 |
| 60°-70° | 1578.8 | 10.3 |
| 70°-80° | 1050.1 | 6.9 |
| 80°-90° | 601.3 | 3.9 |
| 90°-100° | 332.7 | 2.2 |
| 100°-110° | 225.3 | 1.5 |
| 110°-120° | 187.6 | 1.2 |
| 120°-130° | 152.5 | 1.0 |
| 130°-140° | 110.0 | 0.7 |
| 140°-150° | 66.3 | 0.4 |
| 150°-160° | 31.9 | 0.2 |
| 160°-170° | 8.3 | 0.1 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 4482.3 | 29.3 |
| 0°-40° | 6844.2 | 44.7 |
| 0°-60° | 10974.3 | 71.6 |
| 0°-90° | 14204.5 | 92.7 |
| 90°-120° | 745.5 | 4.9 |
| 90°-150° | 1074.3 | 7.0 |
| 90°-180° | 1114.0 | 7.3 |
| 0°-180° | 15319.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 6091 | 6091 | 6091 | 6091 | 6091 | |
| 5° | 6155 | 6052 | 6084 | 6041 | 6033 | 585 |
| 15° | 6001 | 5874 | 5824 | 5692 | 5636 | 1696 |
| 25° | 5670 | 5419 | 5001 | 4477 | 4294 | 2613 |
| 35° | 5064 | 4508 | 3584 | 3010 | 2875 | 3160 |
| 45° | 4056 | 3214 | 2441 | 2354 | 2425 | 3118 |
| 55° | 2711 | 2049 | 1906 | 2216 | 2354 | 2410 |
| 65° | 1384 | 1239 | 1551 | 1901 | 2001 | 1400 |
| 75° | 537 | 672 | 1046 | 1281 | 1334 | 589 |
| 85° | 108 | 312 | 617 | 789 | 810 | 125 |
| 90° | 5 | 220 | 487 | 588 | 582 | 8 |
| 95° | 5 | 185 | 386 | 413 | 400 | 4 |
| 105° | 3 | 162 | 278 | 270 | 257 | 3 |
| 115° | 3 | 146 | 246 | 244 | 236 | 3 |
| 125° | 3 | 124 | 217 | 228 | 222 | 3 |
| 135° | 5 | 93 | 172 | 201 | 201 | 4 |
| 145° | 5 | 58 | 119 | 156 | 167 | 3 |
| 155° | 5 | 37 | 74 | 98 | 119 | 2 |
| 165° | 5 | 21 | 37 | 48 | 64 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 6091.4 | 6091.4 | 6091.4 | 6091.4 | 6091.4 |
| 2.5° | 6168.2 | 6067.6 | 6099.4 | 6072.9 | 6038.5 |
| 5° | 6155.0 | 6051.7 | 6083.5 | 6041.1 | 6033.2 |
| 7.5° | 6131.2 | 6027.9 | 6046.4 | 5996.1 | 5982.9 |
| 10° | 6099.4 | 5990.8 | 5993.5 | 5922.0 | 5903.5 |
| 12.5° | 6057.0 | 5937.9 | 5922.0 | 5824.1 | 5797.6 |
| 15° | 6001.4 | 5874.4 | 5824.1 | 5691.7 | 5636.1 |
| 17.5° | 5940.6 | 5792.3 | 5689.1 | 5485.2 | 5397.9 |
| 20° | 5858.5 | 5691.7 | 5511.7 | 5202.0 | 5085.5 |
| 22.5° | 5776.4 | 5569.9 | 5281.4 | 4868.4 | 4712.2 |
| 25° | 5670.5 | 5419.0 | 5000.8 | 4476.6 | 4293.9 |
| 27.5° | 5551.4 | 5241.7 | 4677.8 | 4074.2 | 3878.3 |
| 30° | 5411.1 | 5027.2 | 4323.0 | 3679.8 | 3494.4 |
| 32.5° | 5247.0 | 4786.3 | 3949.8 | 3325.0 | 3152.9 |
| 35° | 5064.3 | 4508.4 | 3584.5 | 3010.0 | 2875.0 |
| 37.5° | 4855.2 | 4203.9 | 3245.6 | 2755.8 | 2668.5 |
| 40° | 4616.9 | 3873.0 | 2933.2 | 2559.9 | 2530.8 |
| 42.5° | 4360.1 | 3550.0 | 2665.8 | 2432.9 | 2459.3 |
| 45° | 4055.7 | 3213.8 | 2440.8 | 2353.5 | 2424.9 |
| 47.5° | 3735.3 | 2885.6 | 2258.2 | 2308.4 | 2411.7 |
| 50° | 3425.6 | 2581.1 | 2115.2 | 2279.3 | 2401.1 |
| 52.5° | 3041.8 | 2308.4 | 2001.4 | 2252.9 | 2385.2 |
| 55° | 2710.8 | 2049.0 | 1906.1 | 2215.8 | 2353.5 |
| 57.5° | 2329.6 | 1816.1 | 1821.3 | 2168.1 | 2305.8 |
| 60° | 2012.0 | 1604.3 | 1739.3 | 2102.0 | 2234.3 |
| 62.5° | 1689.0 | 1413.7 | 1649.3 | 2014.6 | 2133.7 |
| 65° | 1384.5 | 1238.9 | 1551.3 | 1900.8 | 2001.4 |
| 67.5° | 1130.4 | 1080.1 | 1440.1 | 1763.1 | 1847.8 |
| 70° | 916.0 | 934.5 | 1318.4 | 1609.6 | 1681.0 |
| 72.5° | 704.2 | 799.5 | 1186.0 | 1445.4 | 1506.3 |
| 75° | 537.4 | 672.4 | 1045.7 | 1281.3 | 1334.2 |
| 77.5° | 397.1 | 561.2 | 918.6 | 1133.0 | 1178.1 |
| 80° | 280.6 | 463.3 | 799.5 | 1003.3 | 1037.7 |
| 82.5° | 188.0 | 381.2 | 701.5 | 886.8 | 918.6 |
| 85° | 108.5 | 312.4 | 616.8 | 788.9 | 810.1 |
| 87.5° | 45.0 | 259.4 | 548.0 | 688.3 | 698.9 |
| 90° | 5.3 | 219.7 | 487.1 | 587.7 | 582.4 |
| 92.5° | 5.3 | 198.5 | 434.2 | 492.4 | 479.2 |
| 95° | 5.3 | 185.3 | 386.5 | 413.0 | 399.7 |
| 97.5° | 5.3 | 177.4 | 344.1 | 354.7 | 341.5 |
| 100° | 2.6 | 172.1 | 315.0 | 315.0 | 301.8 |
| 102.5° | 2.6 | 166.8 | 293.9 | 285.9 | 275.3 |
| 105° | 2.6 | 161.5 | 278.0 | 270.0 | 256.8 |
| 107.5° | 2.6 | 158.8 | 267.4 | 259.4 | 246.2 |
| 110° | 2.6 | 153.5 | 259.4 | 251.5 | 240.9 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.6 | 150.9 | 254.1 | 248.8 | 235.6 |
| 115° | 2.6 | 145.6 | 246.2 | 243.6 | 235.6 |
| 117.5° | 2.6 | 140.3 | 240.9 | 240.9 | 233.0 |
| 120° | 2.6 | 135.0 | 233.0 | 238.3 | 230.3 |
| 122.5° | 2.6 | 129.7 | 225.0 | 233.0 | 225.0 |
| 125° | 2.6 | 124.4 | 217.1 | 227.7 | 222.4 |
| 127.5° | 5.3 | 116.5 | 206.5 | 222.4 | 217.1 |
| 130° | 2.6 | 108.5 | 195.9 | 217.1 | 214.4 |
| 132.5° | 5.3 | 100.6 | 185.3 | 209.1 | 209.1 |
| 135° | 5.3 | 92.7 | 172.1 | 201.2 | 201.2 |
| 137.5° | 5.3 | 82.1 | 158.8 | 190.6 | 193.3 |
| 140° | 5.3 | 74.1 | 145.6 | 180.0 | 185.3 |
| 142.5° | 5.3 | 66.2 | 132.4 | 169.4 | 177.4 |
| 145° | 5.3 | 58.2 | 119.1 | 156.2 | 166.8 |
| 147.5° | 5.3 | 52.9 | 105.9 | 140.3 | 156.2 |
| 150° | 5.3 | 45.0 | 95.3 | 127.1 | 143.0 |
| 152.5° | 5.3 | 39.7 | 84.7 | 113.8 | 132.4 |
| 155° | 5.3 | 37.1 | 74.1 | 98.0 | 119.1 |
| 157.5° | 5.3 | 31.8 | 63.5 | 84.7 | 105.9 |
| 160° | 5.3 | 26.5 | 52.9 | 74.1 | 90.0 |
| 162.5° | 5.3 | 23.8 | 45.0 | 60.9 | 79.4 |
| 165° | 5.3 | 21.2 | 37.1 | 47.7 | 63.5 |
| 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)