

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-LD5-130HL-SLN-UNV-L940-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-LD5-130HL-SLN-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

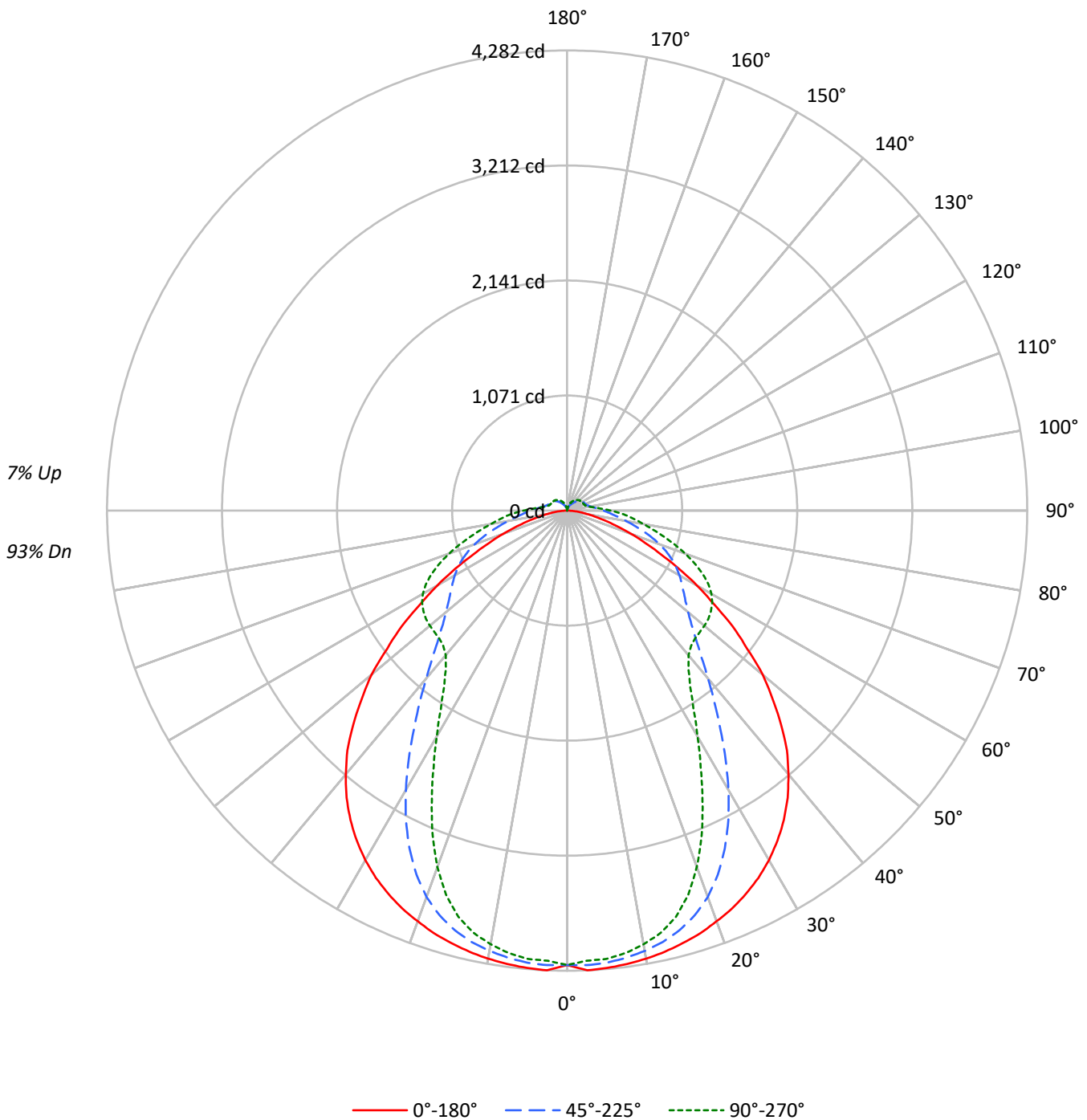
Lumens per Lamp: N/A
Luminaire Lumens: 10634.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 86
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



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Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-SLN-UNV-L940-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° | 17085 | 17085 | 17085 |
| 5° | 17306 | 16724 | 16447 |
| 10° | 17324 | 16276 | 15770 |
| 15° | 17354 | 15745 | 14870 |
| 20° | 17388 | 14947 | 13355 |
| 25° | 17422 | 13709 | 11309 |
| 30° | 17368 | 12074 | 9301 |
| 35° | 17153 | 10283 | 7795 |
| 40° | 16686 | 8718 | 7047 |
| 45° | 15840 | 7585 | 6993 |
| 50° | 14675 | 6942 | 7239 |
| 55° | 12967 | 6682 | 7492 |
| 60° | 10989 | 6598 | 7595 |
| 65° | 8891 | 6464 | 7359 |
| 70° | 7202 | 6144 | 6786 |
| 75° | 5502 | 5577 | 6022 |
| 80° | 4164 | 5029 | 5357 |
| 85° | 2962 | 4772 | 4927 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-SLN-UNV-L940-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 400.1 | 3.8 |
| 10°-20° | 1130.7 | 10.6 |
| 20°-30° | 1580.7 | 14.9 |
| 30°-40° | 1639.5 | 15.4 |
| 40°-50° | 1514.7 | 14.2 |
| 50°-60° | 1352.3 | 12.7 |
| 60°-70° | 1096.0 | 10.3 |
| 70°-80° | 729.0 | 6.9 |
| 80°-90° | 417.4 | 3.9 |
| 90°-100° | 230.9 | 2.2 |
| 100°-110° | 156.4 | 1.5 |
| 110°-120° | 130.2 | 1.2 |
| 120°-130° | 105.9 | 1.0 |
| 130°-140° | 76.4 | 0.7 |
| 140°-150° | 46.0 | 0.4 |
| 150°-160° | 22.1 | 0.2 |
| 160°-170° | 5.7 | 0.1 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3111.5 | 29.3 |
| 0°-40° | 4751.0 | 44.7 |
| 0°-60° | 7618.0 | 71.6 |
| 0°-90° | 9860.3 | 92.7 |
| 90°-120° | 517.5 | 4.9 |
| 90°-150° | 745.8 | 7.0 |
| 90°-180° | 774.0 | 7.3 |
| 0°-180° | 10634.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4228 | 4228 | 4228 | 4228 | 4228 | |
| 5° | 4273 | 4201 | 4223 | 4194 | 4188 | 406 |
| 15° | 4166 | 4078 | 4043 | 3951 | 3912 | 1177 |
| 25° | 3936 | 3762 | 3471 | 3108 | 2981 | 1814 |
| 35° | 3516 | 3130 | 2488 | 2089 | 1996 | 2193 |
| 45° | 2815 | 2231 | 1694 | 1634 | 1683 | 2165 |
| 55° | 1882 | 1422 | 1323 | 1538 | 1634 | 1673 |
| 65° | 961 | 860 | 1077 | 1320 | 1389 | 971 |
| 75° | 373 | 467 | 726 | 889 | 926 | 409 |
| 85° | 75 | 217 | 428 | 548 | 562 | 87 |
| 90° | 4 | 152 | 338 | 408 | 404 | 6 |
| 95° | 4 | 129 | 268 | 287 | 278 | 3 |
| 105° | 2 | 112 | 193 | 187 | 178 | 2 |
| 115° | 2 | 101 | 171 | 169 | 164 | 2 |
| 125° | 2 | 86 | 151 | 158 | 154 | 2 |
| 135° | 4 | 64 | 119 | 140 | 140 | 3 |
| 145° | 4 | 40 | 83 | 108 | 116 | 2 |
| 155° | 4 | 26 | 52 | 68 | 83 | 2 |
| 165° | 4 | 15 | 26 | 33 | 44 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-SLN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4228.5 | 4228.5 | 4228.5 | 4228.5 | 4228.5 |
| 2.5° | 4281.8 | 4212.0 | 4234.0 | 4215.6 | 4191.8 |
| 5° | 4272.6 | 4200.9 | 4223.0 | 4193.6 | 4188.1 |
| 7.5° | 4256.1 | 4184.4 | 4197.3 | 4162.3 | 4153.2 |
| 10° | 4234.0 | 4158.7 | 4160.5 | 4110.9 | 4098.0 |
| 12.5° | 4204.6 | 4121.9 | 4110.9 | 4042.9 | 4024.5 |
| 15° | 4166.0 | 4077.8 | 4042.9 | 3951.0 | 3912.4 |
| 17.5° | 4123.8 | 4020.8 | 3949.2 | 3807.7 | 3747.0 |
| 20° | 4066.8 | 3951.0 | 3826.1 | 3611.0 | 3530.2 |
| 22.5° | 4009.8 | 3866.5 | 3666.2 | 3379.5 | 3271.1 |
| 25° | 3936.3 | 3761.7 | 3471.4 | 3107.5 | 2980.7 |
| 27.5° | 3853.6 | 3638.6 | 3247.2 | 2828.2 | 2692.2 |
| 30° | 3756.2 | 3489.8 | 3000.9 | 2554.4 | 2425.7 |
| 32.5° | 3642.3 | 3322.5 | 2741.8 | 2308.1 | 2188.7 |
| 35° | 3515.5 | 3129.6 | 2488.2 | 2089.4 | 1995.7 |
| 37.5° | 3370.3 | 2918.2 | 2253.0 | 1913.0 | 1852.4 |
| 40° | 3204.9 | 2688.5 | 2036.2 | 1777.0 | 1756.8 |
| 42.5° | 3026.7 | 2464.3 | 1850.5 | 1688.8 | 1707.2 |
| 45° | 2815.3 | 2230.9 | 1694.3 | 1633.7 | 1683.3 |
| 47.5° | 2593.0 | 2003.1 | 1567.5 | 1602.5 | 1674.1 |
| 50° | 2378.0 | 1791.7 | 1468.3 | 1582.2 | 1666.8 |
| 52.5° | 2111.5 | 1602.5 | 1389.3 | 1563.9 | 1655.8 |
| 55° | 1881.8 | 1422.4 | 1323.1 | 1538.1 | 1633.7 |
| 57.5° | 1617.2 | 1260.6 | 1264.3 | 1505.1 | 1600.6 |
| 60° | 1396.6 | 1113.6 | 1207.4 | 1459.1 | 1551.0 |
| 62.5° | 1172.4 | 981.3 | 1144.9 | 1398.5 | 1481.2 |
| 65° | 961.1 | 860.0 | 1076.9 | 1319.5 | 1389.3 |
| 67.5° | 784.7 | 749.8 | 999.7 | 1223.9 | 1282.7 |
| 70° | 635.8 | 648.7 | 915.2 | 1117.3 | 1166.9 |
| 72.5° | 488.8 | 555.0 | 823.3 | 1003.4 | 1045.6 |
| 75° | 373.0 | 466.8 | 725.9 | 889.4 | 926.2 |
| 77.5° | 275.7 | 389.6 | 637.7 | 786.5 | 817.8 |
| 80° | 194.8 | 321.6 | 555.0 | 696.5 | 720.4 |
| 82.5° | 130.5 | 264.6 | 487.0 | 615.6 | 637.7 |
| 85° | 75.3 | 216.8 | 428.2 | 547.6 | 562.3 |
| 87.5° | 31.2 | 180.1 | 380.4 | 477.8 | 485.1 |
| 90° | 3.7 | 152.5 | 338.1 | 408.0 | 404.3 |
| 92.5° | 3.7 | 137.8 | 301.4 | 341.8 | 332.6 |
| 95° | 3.7 | 128.6 | 268.3 | 286.7 | 277.5 |
| 97.5° | 3.7 | 123.1 | 238.9 | 246.2 | 237.1 |
| 100° | 1.8 | 119.4 | 218.7 | 218.7 | 209.5 |
| 102.5° | 1.8 | 115.8 | 204.0 | 198.5 | 191.1 |
| 105° | 1.8 | 112.1 | 193.0 | 187.4 | 178.3 |
| 107.5° | 1.8 | 110.3 | 185.6 | 180.1 | 170.9 |
| 110° | 1.8 | 106.6 | 180.1 | 174.6 | 167.2 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-SLN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.8 | 104.7 | 176.4 | 172.7 | 163.6 |
| 115° | 1.8 | 101.1 | 170.9 | 169.1 | 163.6 |
| 117.5° | 1.8 | 97.4 | 167.2 | 167.2 | 161.7 |
| 120° | 1.8 | 93.7 | 161.7 | 165.4 | 159.9 |
| 122.5° | 1.8 | 90.0 | 156.2 | 161.7 | 156.2 |
| 125° | 1.8 | 86.4 | 150.7 | 158.0 | 154.4 |
| 127.5° | 3.7 | 80.9 | 143.3 | 154.4 | 150.7 |
| 130° | 1.8 | 75.3 | 136.0 | 150.7 | 148.9 |
| 132.5° | 3.7 | 69.8 | 128.6 | 145.2 | 145.2 |
| 135° | 3.7 | 64.3 | 119.4 | 139.7 | 139.7 |
| 137.5° | 3.7 | 57.0 | 110.3 | 132.3 | 134.2 |
| 140° | 3.7 | 51.5 | 101.1 | 125.0 | 128.6 |
| 142.5° | 3.7 | 45.9 | 91.9 | 117.6 | 123.1 |
| 145° | 3.7 | 40.4 | 82.7 | 108.4 | 115.8 |
| 147.5° | 3.7 | 36.8 | 73.5 | 97.4 | 108.4 |
| 150° | 3.7 | 31.2 | 66.2 | 88.2 | 99.2 |
| 152.5° | 3.7 | 27.6 | 58.8 | 79.0 | 91.9 |
| 155° | 3.7 | 25.7 | 51.5 | 68.0 | 82.7 |
| 157.5° | 3.7 | 22.1 | 44.1 | 58.8 | 73.5 |
| 160° | 3.7 | 18.4 | 36.8 | 51.5 | 62.5 |
| 162.5° | 3.7 | 16.5 | 31.2 | 42.3 | 55.1 |
| 165° | 3.7 | 14.7 | 25.7 | 33.1 | 44.1 |
| 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)