

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-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-LD5-130HL-SLC-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

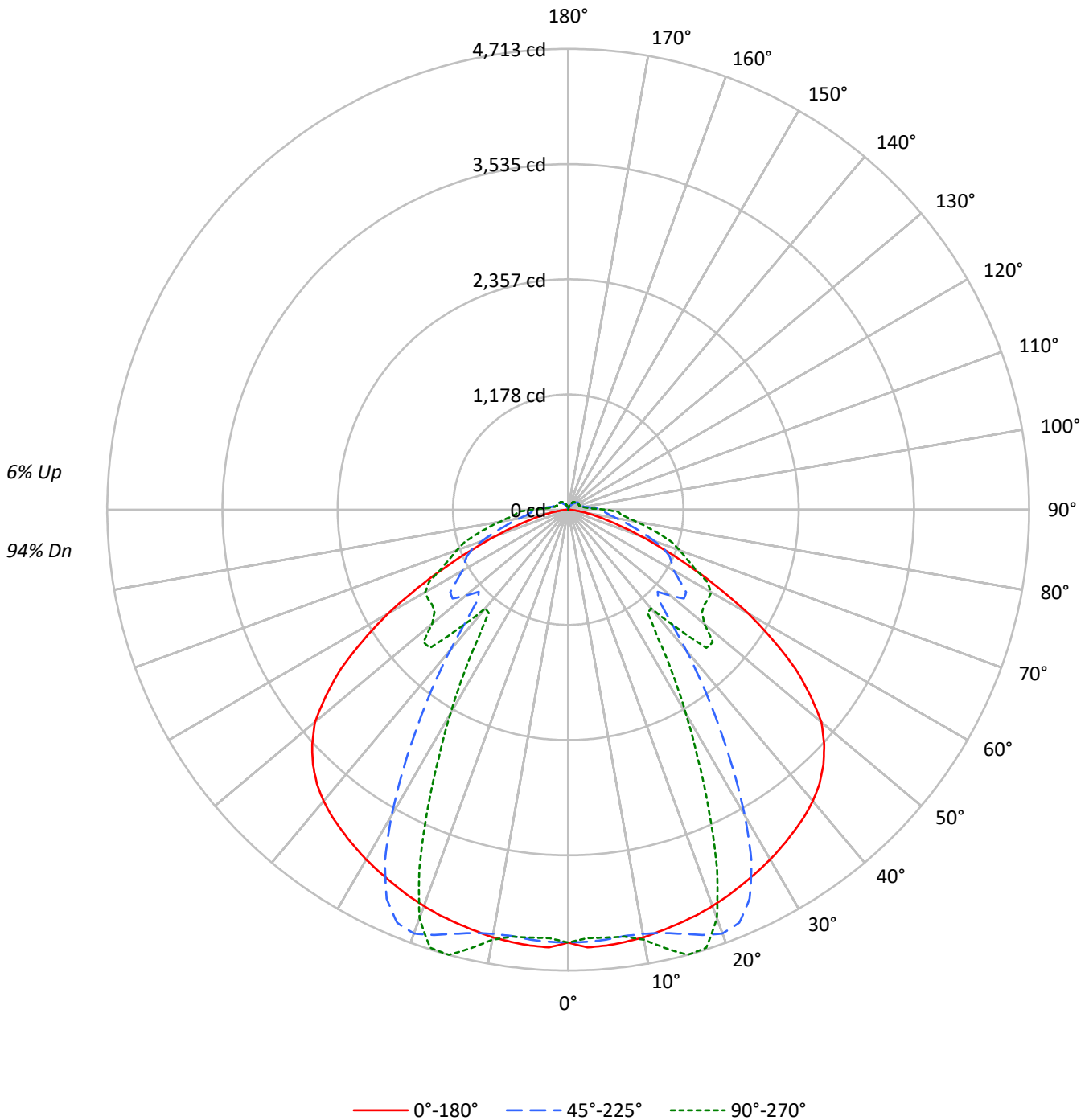
Lumens per Lamp: N/A
Luminaire Lumens: 11367.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P#
CATALOG NUMBER: 8SNLED-LD5-130HL-SLC-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-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 | 64 | 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° | 17880 | 17880 | 17880 |
| 5° | 18122 | 17477 | 17246 |
| 10° | 18169 | 17227 | 17187 |
| 15° | 18245 | 17485 | 17913 |
| 20° | 18442 | 18022 | 16814 |
| 25° | 18701 | 17336 | 12947 |
| 30° | 19102 | 14533 | 9209 |
| 35° | 19612 | 11017 | 6236 |
| 40° | 20254 | 8018 | 5280 |
| 45° | 20764 | 5823 | 8301 |
| 50° | 20852 | 6455 | 7878 |
| 55° | 19558 | 7440 | 7780 |
| 60° | 16738 | 6818 | 8269 |
| 65° | 12666 | 6890 | 7564 |
| 70° | 8964 | 6286 | 7040 |
| 75° | 5952 | 5283 | 6318 |
| 80° | 3894 | 4544 | 5258 |
| 85° | 2234 | 4344 | 4720 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-SLC-UNV-L950-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 421.0 | 3.7 |
| 10°-20° | 1271.3 | 11.2 |
| 20°-30° | 1846.9 | 16.2 |
| 30°-40° | 1764.6 | 15.5 |
| 40°-50° | 1614.1 | 14.2 |
| 50°-60° | 1490.3 | 13.1 |
| 60°-70° | 1183.8 | 10.4 |
| 70°-80° | 730.7 | 6.4 |
| 80°-90° | 397.9 | 3.5 |
| 90°-100° | 201.1 | 1.8 |
| 100°-110° | 126.4 | 1.1 |
| 110°-120° | 107.0 | 0.9 |
| 120°-130° | 87.4 | 0.8 |
| 130°-140° | 62.7 | 0.6 |
| 140°-150° | 38.7 | 0.3 |
| 150°-160° | 18.4 | 0.2 |
| 160°-170° | 4.8 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3539.2 | 31.1 |
| 0°-40° | 5303.7 | 46.7 |
| 0°-60° | 8408.2 | 74.0 |
| 0°-90° | 10720.5 | 94.3 |
| 90°-120° | 434.5 | 3.8 |
| 90°-150° | 623.3 | 5.5 |
| 90°-180° | 646.0 | 5.7 |
| 0°-180° | 11367.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4425 | 4425 | 4425 | 4425 | 4425 | |
| 5° | 4474 | 4406 | 4413 | 4390 | 4392 | 426 |
| 15° | 4380 | 4321 | 4490 | 4656 | 4713 | 1240 |
| 25° | 4225 | 4308 | 4390 | 3716 | 3412 | 1953 |
| 35° | 4020 | 3955 | 2666 | 1836 | 1596 | 2521 |
| 45° | 3690 | 2574 | 1301 | 1659 | 1998 | 2836 |
| 55° | 2838 | 1320 | 1473 | 1585 | 1696 | 2500 |
| 65° | 1369 | 856 | 1148 | 1395 | 1428 | 1385 |
| 75° | 404 | 456 | 688 | 911 | 972 | 457 |
| 85° | 57 | 194 | 390 | 531 | 539 | 72 |
| 90° | 2 | 145 | 349 | 413 | 382 | 3 |
| 95° | 0 | 135 | 241 | 214 | 202 | 0 |
| 105° | 0 | 121 | 149 | 135 | 133 | 0 |
| 115° | 0 | 100 | 143 | 127 | 121 | 1 |
| 125° | 2 | 80 | 127 | 123 | 118 | 2 |
| 135° | 2 | 57 | 102 | 112 | 108 | 2 |
| 145° | 2 | 35 | 70 | 90 | 96 | 1 |
| 155° | 4 | 22 | 43 | 57 | 69 | 1 |
| 165° | 4 | 12 | 22 | 27 | 37 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4425.1 | 4425.1 | 4425.1 | 4425.1 | 4425.1 |
| 2.5° | 4479.9 | 4415.3 | 4423.1 | 4409.4 | 4385.9 |
| 5° | 4474.0 | 4405.5 | 4413.3 | 4389.8 | 4391.8 |
| 7.5° | 4458.4 | 4387.8 | 4397.6 | 4393.7 | 4403.5 |
| 10° | 4440.7 | 4366.3 | 4403.5 | 4436.8 | 4466.2 |
| 12.5° | 4409.4 | 4342.8 | 4432.9 | 4530.8 | 4591.6 |
| 15° | 4380.0 | 4321.2 | 4489.7 | 4656.2 | 4713.0 |
| 17.5° | 4350.6 | 4313.4 | 4560.2 | 4705.2 | 4697.3 |
| 20° | 4313.4 | 4309.5 | 4613.1 | 4564.1 | 4444.7 |
| 22.5° | 4272.3 | 4311.5 | 4572.0 | 4213.5 | 3978.4 |
| 25° | 4225.3 | 4307.5 | 4389.8 | 3716.0 | 3412.3 |
| 27.5° | 4178.2 | 4289.9 | 4058.8 | 3171.4 | 2871.7 |
| 30° | 4131.2 | 4242.9 | 3612.1 | 2673.8 | 2401.6 |
| 32.5° | 4076.4 | 4141.0 | 3126.3 | 2233.1 | 1982.4 |
| 35° | 4019.6 | 3954.9 | 2666.0 | 1835.5 | 1596.5 |
| 37.5° | 3960.8 | 3686.6 | 2252.7 | 1486.8 | 1334.0 |
| 40° | 3890.3 | 3349.7 | 1872.7 | 1275.2 | 1316.4 |
| 42.5° | 3802.1 | 2969.6 | 1537.7 | 1337.9 | 1623.9 |
| 45° | 3690.5 | 2573.9 | 1300.7 | 1659.2 | 1998.0 |
| 47.5° | 3549.5 | 2193.9 | 1241.9 | 1900.1 | 2005.9 |
| 50° | 3379.0 | 1845.2 | 1365.3 | 1821.7 | 1813.9 |
| 52.5° | 3120.5 | 1555.3 | 1490.7 | 1661.1 | 1723.8 |
| 55° | 2838.4 | 1320.3 | 1473.1 | 1584.7 | 1696.4 |
| 57.5° | 2481.9 | 1161.6 | 1351.6 | 1569.0 | 1698.3 |
| 60° | 2127.3 | 1055.8 | 1247.8 | 1567.1 | 1688.5 |
| 62.5° | 1735.5 | 959.8 | 1194.9 | 1529.9 | 1602.3 |
| 65° | 1369.2 | 856.0 | 1147.9 | 1394.7 | 1428.0 |
| 67.5° | 1049.9 | 750.2 | 1065.6 | 1243.9 | 1310.5 |
| 70° | 791.4 | 646.4 | 936.3 | 1128.3 | 1210.6 |
| 72.5° | 570.0 | 548.5 | 803.1 | 1026.4 | 1112.6 |
| 75° | 403.5 | 456.4 | 687.6 | 910.9 | 971.6 |
| 77.5° | 278.2 | 372.2 | 589.6 | 783.5 | 832.5 |
| 80° | 182.2 | 297.7 | 501.5 | 673.8 | 707.1 |
| 82.5° | 109.7 | 239.0 | 434.9 | 589.6 | 607.2 |
| 85° | 56.8 | 193.9 | 389.8 | 530.9 | 538.7 |
| 87.5° | 17.6 | 162.6 | 364.3 | 503.4 | 513.2 |
| 90° | 2.0 | 145.0 | 348.7 | 413.3 | 382.0 |
| 92.5° | 0.0 | 137.1 | 301.7 | 282.1 | 252.7 |
| 95° | 0.0 | 135.2 | 240.9 | 213.5 | 201.8 |
| 97.5° | 0.0 | 131.2 | 197.8 | 178.3 | 172.4 |
| 100° | 0.0 | 127.3 | 170.4 | 156.7 | 154.7 |
| 102.5° | 0.0 | 125.4 | 154.7 | 143.0 | 141.0 |
| 105° | 0.0 | 121.4 | 148.9 | 135.2 | 133.2 |
| 107.5° | 0.0 | 115.6 | 145.0 | 131.2 | 127.3 |
| 110° | 0.0 | 109.7 | 145.0 | 129.3 | 123.4 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 103.8 | 145.0 | 127.3 | 121.4 |
| 115° | 0.0 | 99.9 | 143.0 | 127.3 | 121.4 |
| 117.5° | 2.0 | 96.0 | 141.0 | 127.3 | 121.4 |
| 120° | 0.0 | 92.1 | 137.1 | 127.3 | 119.5 |
| 122.5° | 2.0 | 86.2 | 133.2 | 125.4 | 119.5 |
| 125° | 2.0 | 80.3 | 127.3 | 123.4 | 117.5 |
| 127.5° | 2.0 | 74.4 | 121.4 | 119.5 | 113.6 |
| 130° | 2.0 | 68.6 | 115.6 | 117.5 | 111.7 |
| 132.5° | 2.0 | 62.7 | 107.7 | 113.6 | 109.7 |
| 135° | 2.0 | 56.8 | 101.9 | 111.7 | 107.7 |
| 137.5° | 2.0 | 50.9 | 94.0 | 105.8 | 105.8 |
| 140° | 2.0 | 45.1 | 86.2 | 101.9 | 103.8 |
| 142.5° | 2.0 | 41.1 | 78.4 | 97.9 | 99.9 |
| 145° | 2.0 | 35.3 | 70.5 | 90.1 | 96.0 |
| 147.5° | 2.0 | 31.3 | 62.7 | 82.3 | 90.1 |
| 150° | 2.0 | 27.4 | 54.8 | 74.4 | 82.3 |
| 152.5° | 2.0 | 23.5 | 49.0 | 64.6 | 76.4 |
| 155° | 3.9 | 21.5 | 43.1 | 56.8 | 68.6 |
| 157.5° | 3.9 | 17.6 | 35.3 | 49.0 | 58.8 |
| 160° | 3.9 | 15.7 | 31.3 | 41.1 | 52.9 |
| 162.5° | 3.9 | 13.7 | 25.5 | 35.3 | 45.1 |
| 165° | 3.9 | 11.8 | 21.5 | 27.4 | 37.2 |
| 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)