

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-LD5-128SL-SLN-UNV-L840-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-LD5-128SL-SLN-UNV-L840-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12740.0 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

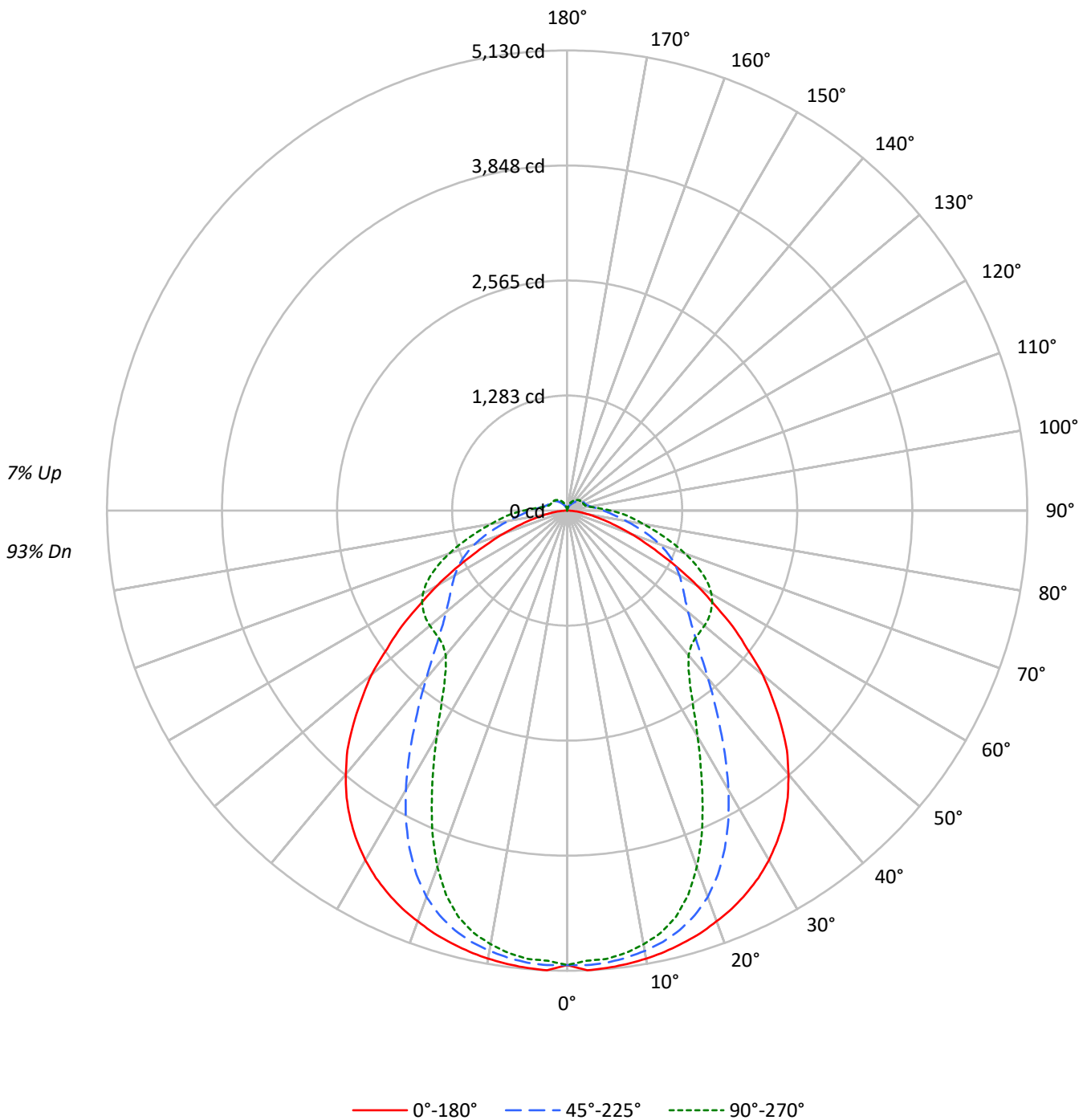
Input Watts (W): 103
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-SLN-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-SLN-UNV-L840-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° | 20469 | 20469 | 20469 |
| 5° | 20733 | 20036 | 19704 |
| 10° | 20754 | 19500 | 18893 |
| 15° | 20791 | 18864 | 17815 |
| 20° | 20831 | 17907 | 15999 |
| 25° | 20872 | 16424 | 13549 |
| 30° | 20808 | 14465 | 11144 |
| 35° | 20550 | 12319 | 9339 |
| 40° | 19990 | 10444 | 8443 |
| 45° | 18977 | 9087 | 8379 |
| 50° | 17581 | 8317 | 8673 |
| 55° | 15535 | 8006 | 8976 |
| 60° | 13165 | 7904 | 9100 |
| 65° | 10651 | 7744 | 8816 |
| 70° | 8629 | 7361 | 8130 |
| 75° | 6592 | 6681 | 7215 |
| 80° | 4989 | 6025 | 6418 |
| 85° | 3552 | 5717 | 5903 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-SLN-UNV-L840-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 479.3 | 3.8 |
| 10°-20° | 1354.7 | 10.6 |
| 20°-30° | 1893.7 | 14.9 |
| 30°-40° | 1964.3 | 15.4 |
| 40°-50° | 1814.7 | 14.2 |
| 50°-60° | 1620.2 | 12.7 |
| 60°-70° | 1313.0 | 10.3 |
| 70°-80° | 873.3 | 6.9 |
| 80°-90° | 500.1 | 3.9 |
| 90°-100° | 276.7 | 2.2 |
| 100°-110° | 187.4 | 1.5 |
| 110°-120° | 156.0 | 1.2 |
| 120°-130° | 126.8 | 1.0 |
| 130°-140° | 91.5 | 0.7 |
| 140°-150° | 55.2 | 0.4 |
| 150°-160° | 26.5 | 0.2 |
| 160°-170° | 6.9 | 0.1 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3727.7 | 29.3 |
| 0°-40° | 5691.9 | 44.7 |
| 0°-60° | 9126.7 | 71.6 |
| 0°-90° | 11813.2 | 92.7 |
| 90°-120° | 620.1 | 4.9 |
| 90°-150° | 893.5 | 7.0 |
| 90°-180° | 927.0 | 7.3 |
| 0°-180° | 12740.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 5066 | 5066 | 5066 | 5066 | 5066 | |
| 5° | 5119 | 5033 | 5059 | 5024 | 5018 | 487 |
| 15° | 4991 | 4885 | 4844 | 4734 | 4687 | 1410 |
| 25° | 4716 | 4507 | 4159 | 3723 | 3571 | 2173 |
| 35° | 4212 | 3749 | 2981 | 2503 | 2391 | 2628 |
| 45° | 3373 | 2673 | 2030 | 1957 | 2017 | 2593 |
| 55° | 2254 | 1704 | 1585 | 1843 | 1957 | 2005 |
| 65° | 1151 | 1030 | 1290 | 1581 | 1664 | 1164 |
| 75° | 447 | 559 | 870 | 1066 | 1110 | 490 |
| 85° | 90 | 260 | 513 | 656 | 674 | 104 |
| 90° | 4 | 183 | 405 | 489 | 484 | 7 |
| 95° | 4 | 154 | 321 | 344 | 332 | 3 |
| 105° | 2 | 134 | 231 | 225 | 214 | 2 |
| 115° | 2 | 121 | 205 | 202 | 196 | 2 |
| 125° | 2 | 104 | 180 | 189 | 185 | 2 |
| 135° | 4 | 77 | 143 | 167 | 167 | 3 |
| 145° | 4 | 48 | 99 | 130 | 139 | 3 |
| 155° | 4 | 31 | 62 | 82 | 99 | 2 |
| 165° | 4 | 18 | 31 | 40 | 53 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-SLN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 5065.9 | 5065.9 | 5065.9 | 5065.9 | 5065.9 |
| 2.5° | 5129.8 | 5046.1 | 5072.5 | 5050.5 | 5021.9 |
| 5° | 5118.8 | 5032.9 | 5059.3 | 5024.1 | 5017.5 |
| 7.5° | 5099.0 | 5013.1 | 5028.5 | 4986.7 | 4975.7 |
| 10° | 5072.5 | 4982.3 | 4984.5 | 4925.0 | 4909.6 |
| 12.5° | 5037.3 | 4938.2 | 4925.0 | 4843.6 | 4821.6 |
| 15° | 4991.1 | 4885.4 | 4843.6 | 4733.5 | 4687.3 |
| 17.5° | 4940.4 | 4817.2 | 4731.3 | 4561.8 | 4489.1 |
| 20° | 4872.2 | 4733.5 | 4583.8 | 4326.2 | 4229.3 |
| 22.5° | 4803.9 | 4632.2 | 4392.2 | 4048.8 | 3918.9 |
| 25° | 4715.9 | 4506.7 | 4158.9 | 3722.9 | 3571.0 |
| 27.5° | 4616.8 | 4359.2 | 3890.3 | 3388.3 | 3225.4 |
| 30° | 4500.1 | 4180.9 | 3595.2 | 3060.3 | 2906.1 |
| 32.5° | 4363.6 | 3980.5 | 3284.8 | 2765.2 | 2622.1 |
| 35° | 4211.7 | 3749.4 | 2981.0 | 2503.2 | 2391.0 |
| 37.5° | 4037.8 | 3496.2 | 2699.2 | 2291.9 | 2219.2 |
| 40° | 3839.6 | 3221.0 | 2439.4 | 2129.0 | 2104.8 |
| 42.5° | 3626.1 | 2952.4 | 2217.0 | 2023.3 | 2045.3 |
| 45° | 3372.9 | 2672.8 | 2029.9 | 1957.2 | 2016.7 |
| 47.5° | 3106.5 | 2399.8 | 1878.0 | 1919.8 | 2005.7 |
| 50° | 2848.9 | 2146.6 | 1759.1 | 1895.6 | 1996.9 |
| 52.5° | 2529.7 | 1919.8 | 1664.4 | 1873.6 | 1983.7 |
| 55° | 2254.5 | 1704.1 | 1585.2 | 1842.8 | 1957.2 |
| 57.5° | 1937.4 | 1510.3 | 1514.7 | 1803.1 | 1917.6 |
| 60° | 1673.2 | 1334.2 | 1446.5 | 1748.1 | 1858.2 |
| 62.5° | 1404.6 | 1175.7 | 1371.6 | 1675.4 | 1774.5 |
| 65° | 1151.4 | 1030.4 | 1290.2 | 1580.8 | 1664.4 |
| 67.5° | 940.1 | 898.3 | 1197.7 | 1466.3 | 1536.7 |
| 70° | 761.8 | 777.2 | 1096.4 | 1338.6 | 1398.0 |
| 72.5° | 585.6 | 664.9 | 986.3 | 1202.1 | 1252.7 |
| 75° | 446.9 | 559.2 | 869.6 | 1065.6 | 1109.6 |
| 77.5° | 330.2 | 466.7 | 764.0 | 942.3 | 979.7 |
| 80° | 233.4 | 385.3 | 664.9 | 834.4 | 863.0 |
| 82.5° | 156.3 | 317.0 | 583.4 | 737.5 | 764.0 |
| 85° | 90.3 | 259.8 | 513.0 | 656.1 | 673.7 |
| 87.5° | 37.4 | 215.8 | 455.7 | 572.4 | 581.2 |
| 90° | 4.4 | 182.7 | 405.1 | 488.8 | 484.4 |
| 92.5° | 4.4 | 165.1 | 361.1 | 409.5 | 398.5 |
| 95° | 4.4 | 154.1 | 321.4 | 343.5 | 332.4 |
| 97.5° | 4.4 | 147.5 | 286.2 | 295.0 | 284.0 |
| 100° | 2.2 | 143.1 | 262.0 | 262.0 | 251.0 |
| 102.5° | 2.2 | 138.7 | 244.4 | 237.8 | 229.0 |
| 105° | 2.2 | 134.3 | 231.2 | 224.6 | 213.6 |
| 107.5° | 2.2 | 132.1 | 222.4 | 215.8 | 204.8 |
| 110° | 2.2 | 127.7 | 215.8 | 209.2 | 200.3 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-SLN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.2 | 125.5 | 211.4 | 207.0 | 195.9 |
| 115° | 2.2 | 121.1 | 204.8 | 202.5 | 195.9 |
| 117.5° | 2.2 | 116.7 | 200.3 | 200.3 | 193.7 |
| 120° | 2.2 | 112.3 | 193.7 | 198.1 | 191.5 |
| 122.5° | 2.2 | 107.9 | 187.1 | 193.7 | 187.1 |
| 125° | 2.2 | 103.5 | 180.5 | 189.3 | 184.9 |
| 127.5° | 4.4 | 96.9 | 171.7 | 184.9 | 180.5 |
| 130° | 2.2 | 90.3 | 162.9 | 180.5 | 178.3 |
| 132.5° | 4.4 | 83.7 | 154.1 | 173.9 | 173.9 |
| 135° | 4.4 | 77.1 | 143.1 | 167.3 | 167.3 |
| 137.5° | 4.4 | 68.3 | 132.1 | 158.5 | 160.7 |
| 140° | 4.4 | 61.6 | 121.1 | 149.7 | 154.1 |
| 142.5° | 4.4 | 55.0 | 110.1 | 140.9 | 147.5 |
| 145° | 4.4 | 48.4 | 99.1 | 129.9 | 138.7 |
| 147.5° | 4.4 | 44.0 | 88.1 | 116.7 | 129.9 |
| 150° | 4.4 | 37.4 | 79.3 | 105.7 | 118.9 |
| 152.5° | 4.4 | 33.0 | 70.5 | 94.7 | 110.1 |
| 155° | 4.4 | 30.8 | 61.6 | 81.5 | 99.1 |
| 157.5° | 4.4 | 26.4 | 52.8 | 70.5 | 88.1 |
| 160° | 4.4 | 22.0 | 44.0 | 61.6 | 74.9 |
| 162.5° | 4.4 | 19.8 | 37.4 | 50.6 | 66.0 |
| 165° | 4.4 | 17.6 | 30.8 | 39.6 | 52.8 |
| 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)