

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-L850-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-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

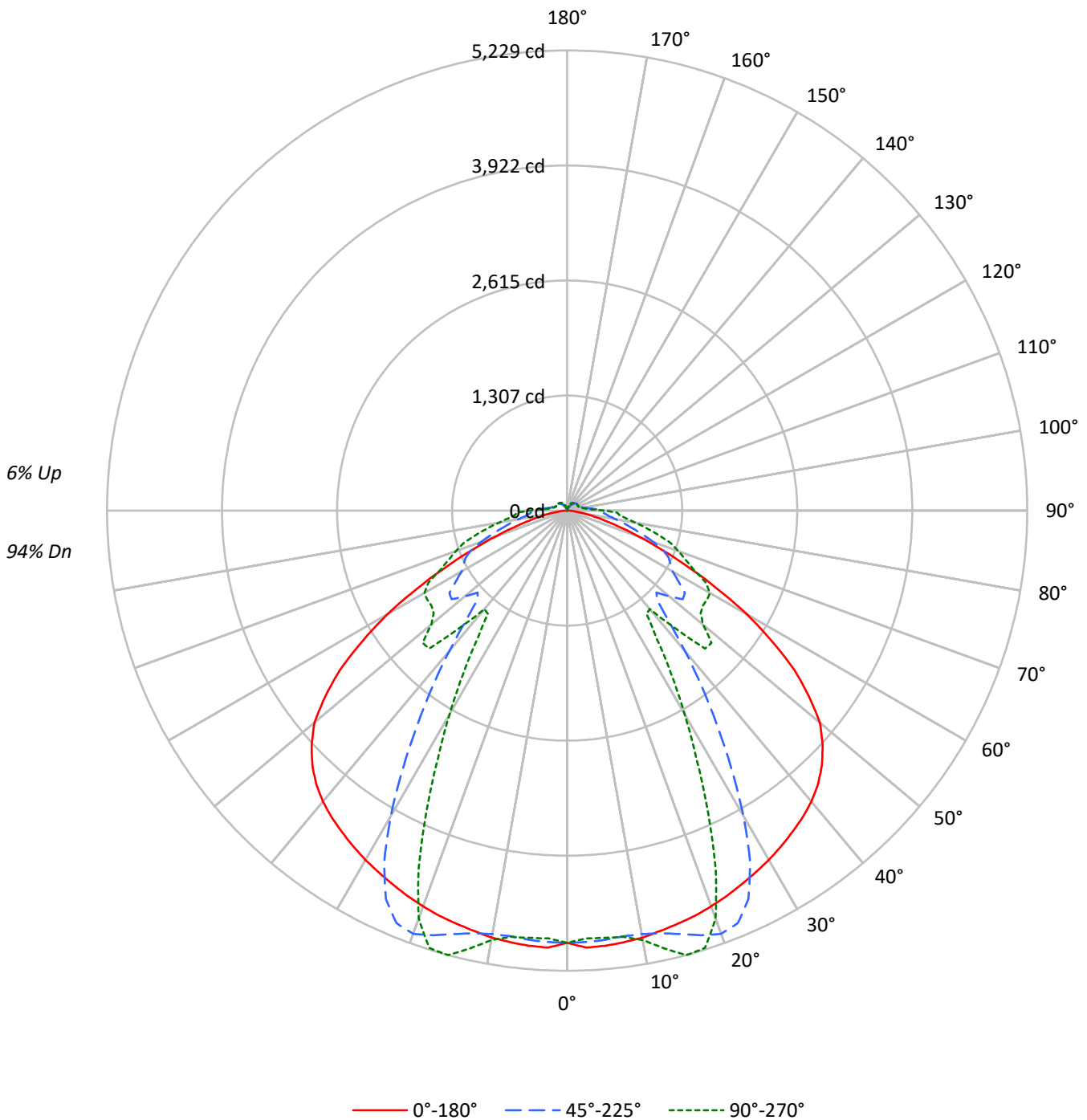
Lumens per Lamp: N/A
Luminaire Lumens: 12612.0 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-SLC-UNV-L850-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° | 19838 | 19838 | 19838 |
| 5° | 20107 | 19392 | 19135 |
| 10° | 20160 | 19114 | 19069 |
| 15° | 20244 | 19401 | 19875 |
| 20° | 20462 | 19996 | 18656 |
| 25° | 20749 | 19234 | 14365 |
| 30° | 21194 | 16125 | 10218 |
| 35° | 21760 | 12224 | 6919 |
| 40° | 22472 | 8896 | 5858 |
| 45° | 23038 | 6460 | 9210 |
| 50° | 23136 | 7163 | 8741 |
| 55° | 21701 | 8254 | 8632 |
| 60° | 18571 | 7565 | 9175 |
| 65° | 14054 | 7644 | 8392 |
| 70° | 9947 | 6975 | 7812 |
| 75° | 6604 | 5862 | 7009 |
| 80° | 4320 | 5041 | 5835 |
| 85° | 2478 | 4820 | 5237 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-SLC-UNV-L850-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 467.1 | 3.7 |
| 10°-20° | 1410.6 | 11.2 |
| 20°-30° | 2049.1 | 16.2 |
| 30°-40° | 1957.8 | 15.5 |
| 40°-50° | 1790.9 | 14.2 |
| 50°-60° | 1653.6 | 13.1 |
| 60°-70° | 1313.5 | 10.4 |
| 70°-80° | 810.7 | 6.4 |
| 80°-90° | 441.5 | 3.5 |
| 90°-100° | 223.1 | 1.8 |
| 100°-110° | 140.2 | 1.1 |
| 110°-120° | 118.8 | 0.9 |
| 120°-130° | 97.0 | 0.8 |
| 130°-140° | 69.6 | 0.6 |
| 140°-150° | 42.9 | 0.3 |
| 150°-160° | 20.4 | 0.2 |
| 160°-170° | 5.3 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3926.8 | 31.1 |
| 0°-40° | 5884.6 | 46.7 |
| 0°-60° | 9329.1 | 74.0 |
| 0°-90° | 11894.8 | 94.3 |
| 90°-120° | 482.1 | 3.8 |
| 90°-150° | 691.6 | 5.5 |
| 90°-180° | 717.0 | 5.7 |
| 0°-180° | 12612.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4910 | 4910 | 4910 | 4910 | 4910 | |
| 5° | 4964 | 4888 | 4897 | 4871 | 4873 | 472 |
| 15° | 4860 | 4794 | 4982 | 5166 | 5229 | 1375 |
| 25° | 4688 | 4779 | 4871 | 4123 | 3786 | 2167 |
| 35° | 4460 | 4388 | 2958 | 2036 | 1771 | 2797 |
| 45° | 4095 | 2856 | 1443 | 1841 | 2217 | 3147 |
| 55° | 3149 | 1465 | 1634 | 1758 | 1882 | 2774 |
| 65° | 1519 | 950 | 1274 | 1548 | 1584 | 1536 |
| 75° | 448 | 506 | 763 | 1011 | 1078 | 508 |
| 85° | 63 | 215 | 432 | 589 | 598 | 80 |
| 90° | 2 | 161 | 387 | 459 | 424 | 3 |
| 95° | 0 | 150 | 267 | 237 | 224 | 0 |
| 105° | 0 | 135 | 165 | 150 | 148 | 0 |
| 115° | 0 | 111 | 159 | 141 | 135 | 1 |
| 125° | 2 | 89 | 141 | 137 | 130 | 2 |
| 135° | 2 | 63 | 113 | 124 | 120 | 2 |
| 145° | 2 | 39 | 78 | 100 | 106 | 1 |
| 155° | 4 | 24 | 48 | 63 | 76 | 2 |
| 165° | 4 | 13 | 24 | 30 | 41 | 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-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4909.7 | 4909.7 | 4909.7 | 4909.7 | 4909.7 |
| 2.5° | 4970.6 | 4898.9 | 4907.6 | 4892.3 | 4866.3 |
| 5° | 4964.1 | 4888.0 | 4896.7 | 4870.6 | 4872.8 |
| 7.5° | 4946.7 | 4868.4 | 4879.3 | 4875.0 | 4885.8 |
| 10° | 4927.1 | 4844.5 | 4885.8 | 4922.8 | 4955.4 |
| 12.5° | 4892.3 | 4818.4 | 4918.4 | 5027.1 | 5094.5 |
| 15° | 4859.7 | 4794.5 | 4981.5 | 5166.2 | 5229.2 |
| 17.5° | 4827.1 | 4785.8 | 5059.7 | 5220.5 | 5211.8 |
| 20° | 4785.8 | 4781.5 | 5118.4 | 5064.0 | 4931.5 |
| 22.5° | 4740.2 | 4783.7 | 5072.7 | 4675.0 | 4414.2 |
| 25° | 4688.0 | 4779.3 | 4870.6 | 4123.0 | 3786.1 |
| 27.5° | 4635.9 | 4759.8 | 4503.3 | 3518.7 | 3186.2 |
| 30° | 4583.7 | 4707.6 | 4007.8 | 2966.7 | 2664.6 |
| 32.5° | 4522.9 | 4594.6 | 3468.8 | 2477.7 | 2199.5 |
| 35° | 4459.8 | 4388.1 | 2958.0 | 2036.5 | 1771.3 |
| 37.5° | 4394.6 | 4090.4 | 2499.4 | 1649.6 | 1480.1 |
| 40° | 4316.4 | 3716.5 | 2077.8 | 1414.9 | 1460.5 |
| 42.5° | 4218.6 | 3294.9 | 1706.1 | 1484.4 | 1801.8 |
| 45° | 4094.7 | 2855.9 | 1443.1 | 1840.9 | 2216.9 |
| 47.5° | 3938.2 | 2434.2 | 1377.9 | 2108.2 | 2225.6 |
| 50° | 3749.1 | 2047.4 | 1514.9 | 2021.3 | 2012.6 |
| 52.5° | 3462.2 | 1725.7 | 1654.0 | 1843.1 | 1912.6 |
| 55° | 3149.3 | 1464.9 | 1634.4 | 1758.3 | 1882.2 |
| 57.5° | 2753.7 | 1288.8 | 1499.7 | 1740.9 | 1884.3 |
| 60° | 2360.3 | 1171.5 | 1384.5 | 1738.7 | 1873.5 |
| 62.5° | 1925.6 | 1065.0 | 1325.8 | 1697.4 | 1777.8 |
| 65° | 1519.2 | 949.8 | 1273.6 | 1547.5 | 1584.4 |
| 67.5° | 1164.9 | 832.4 | 1182.3 | 1380.1 | 1454.0 |
| 70° | 878.1 | 717.2 | 1038.9 | 1251.9 | 1343.2 |
| 72.5° | 632.5 | 608.6 | 891.1 | 1138.9 | 1234.5 |
| 75° | 447.7 | 506.4 | 762.9 | 1010.6 | 1078.0 |
| 77.5° | 308.6 | 412.9 | 654.2 | 869.4 | 923.7 |
| 80° | 202.1 | 330.4 | 556.4 | 747.7 | 784.6 |
| 82.5° | 121.7 | 265.2 | 482.5 | 654.2 | 673.8 |
| 85° | 63.0 | 215.2 | 432.5 | 589.0 | 597.7 |
| 87.5° | 19.6 | 180.4 | 404.3 | 558.6 | 569.4 |
| 90° | 2.2 | 160.8 | 386.9 | 458.6 | 423.8 |
| 92.5° | 0.0 | 152.1 | 334.7 | 313.0 | 280.4 |
| 95° | 0.0 | 150.0 | 267.3 | 236.9 | 223.9 |
| 97.5° | 0.0 | 145.6 | 219.5 | 197.8 | 191.3 |
| 100° | 0.0 | 141.3 | 189.1 | 173.9 | 171.7 |
| 102.5° | 0.0 | 139.1 | 171.7 | 158.7 | 156.5 |
| 105° | 0.0 | 134.8 | 165.2 | 150.0 | 147.8 |
| 107.5° | 0.0 | 128.2 | 160.8 | 145.6 | 141.3 |
| 110° | 0.0 | 121.7 | 160.8 | 143.4 | 136.9 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-SLC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 115.2 | 160.8 | 141.3 | 134.8 |
| 115° | 0.0 | 110.8 | 158.7 | 141.3 | 134.8 |
| 117.5° | 2.2 | 106.5 | 156.5 | 141.3 | 134.8 |
| 120° | 0.0 | 102.2 | 152.1 | 141.3 | 132.6 |
| 122.5° | 2.2 | 95.6 | 147.8 | 139.1 | 132.6 |
| 125° | 2.2 | 89.1 | 141.3 | 136.9 | 130.4 |
| 127.5° | 2.2 | 82.6 | 134.8 | 132.6 | 126.1 |
| 130° | 2.2 | 76.1 | 128.2 | 130.4 | 123.9 |
| 132.5° | 2.2 | 69.5 | 119.5 | 126.1 | 121.7 |
| 135° | 2.2 | 63.0 | 113.0 | 123.9 | 119.5 |
| 137.5° | 2.2 | 56.5 | 104.3 | 117.4 | 117.4 |
| 140° | 2.2 | 50.0 | 95.6 | 113.0 | 115.2 |
| 142.5° | 2.2 | 45.6 | 86.9 | 108.7 | 110.8 |
| 145° | 2.2 | 39.1 | 78.2 | 100.0 | 106.5 |
| 147.5° | 2.2 | 34.8 | 69.5 | 91.3 | 100.0 |
| 150° | 2.2 | 30.4 | 60.9 | 82.6 | 91.3 |
| 152.5° | 2.2 | 26.1 | 54.3 | 71.7 | 84.8 |
| 155° | 4.3 | 23.9 | 47.8 | 63.0 | 76.1 |
| 157.5° | 4.3 | 19.6 | 39.1 | 54.3 | 65.2 |
| 160° | 4.3 | 17.4 | 34.8 | 45.6 | 58.7 |
| 162.5° | 4.3 | 15.2 | 28.3 | 39.1 | 50.0 |
| 165° | 4.3 | 13.0 | 23.9 | 30.4 | 41.3 |
| 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)