

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-LD5-136SL-SLN-UNV-L830-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-LD5-136SL-SLN-UNV-L830-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12840.0 lumens  
Efficiency: N/A  
Efficacy: 116.7 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

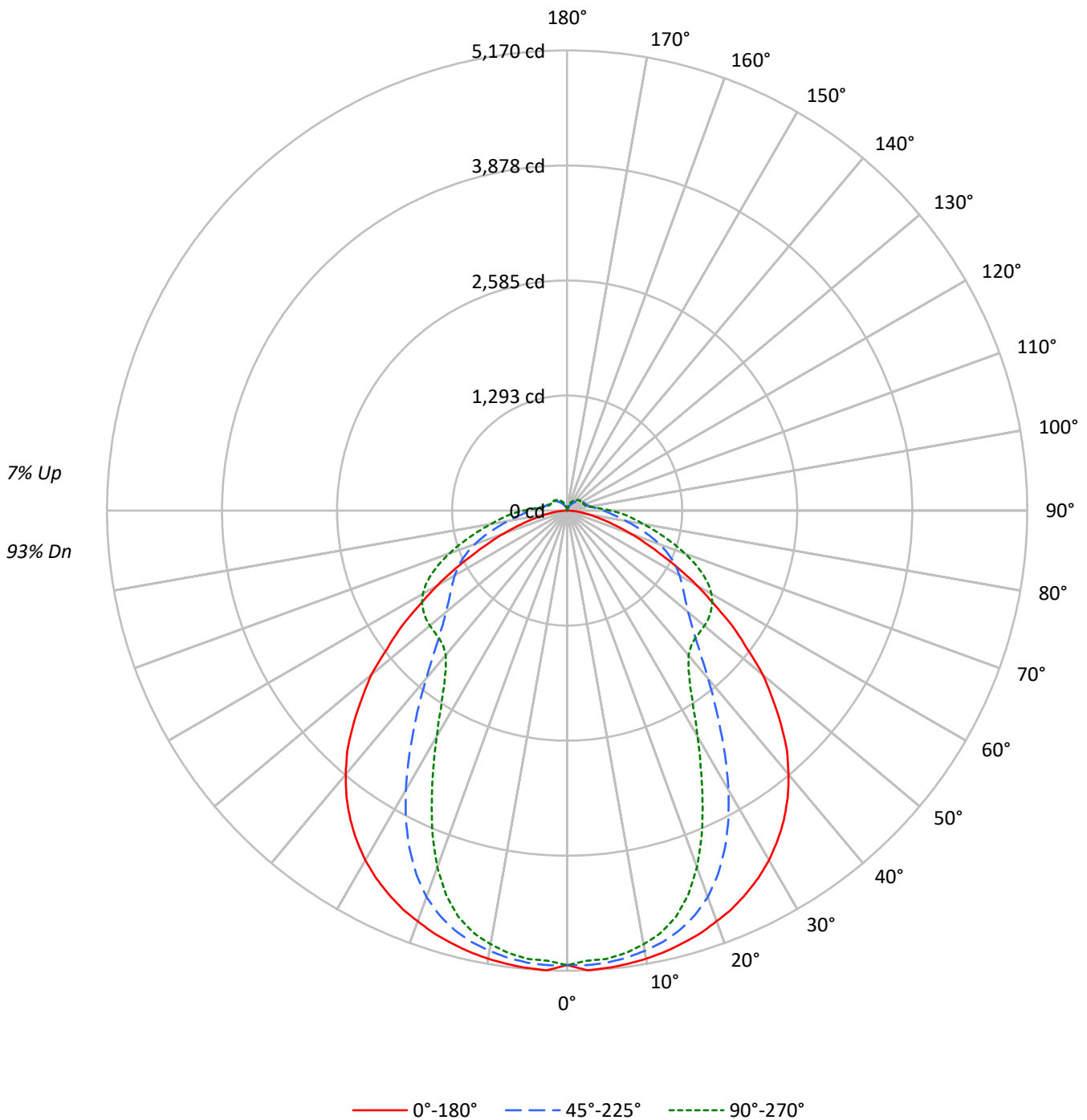
Input Watts (W): 110  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°  | 20630 | 20630 | 20630 |
| 5°  | 20896 | 20193 | 19858 |
| 10° | 20918 | 19653 | 19041 |
| 15° | 20954 | 19012 | 17955 |
| 20° | 20994 | 18048 | 16125 |
| 25° | 21036 | 16553 | 13655 |
| 30° | 20971 | 14579 | 11231 |
| 35° | 20711 | 12416 | 9412  |
| 40° | 20147 | 10526 | 8509  |
| 45° | 19126 | 9158  | 8444  |
| 50° | 17719 | 8382  | 8740  |
| 55° | 15657 | 8068  | 9046  |
| 60° | 13269 | 7966  | 9171  |
| 65° | 10735 | 7804  | 8885  |
| 70° | 8696  | 7419  | 8194  |
| 75° | 6644  | 6734  | 7271  |
| 80° | 5027  | 6072  | 6468  |
| 85° | 3579  | 5761  | 5950  |



TEST NUMBER: P#

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 483.0   | 3.8       |
| 10°-20°   | 1365.3  | 10.6      |
| 20°-30°   | 1908.6  | 14.9      |
| 30°-40°   | 1979.7  | 15.4      |
| 40°-50°   | 1828.9  | 14.2      |
| 50°-60°   | 1632.9  | 12.7      |
| 60°-70°   | 1323.3  | 10.3      |
| 70°-80°   | 880.2   | 6.9       |
| 80°-90°   | 504.0   | 3.9       |
| 90°-100°  | 278.8   | 2.2       |
| 100°-110° | 188.8   | 1.5       |
| 110°-120° | 157.2   | 1.2       |
| 120°-130° | 127.8   | 1.0       |
| 130°-140° | 92.2    | 0.7       |
| 140°-150° | 55.6    | 0.4       |
| 150°-160° | 26.7    | 0.2       |
| 160°-170° | 6.9     | 0.1       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 3756.9  | 29.3      |
| 0°-40°    | 5736.6  | 44.7      |
| 0°-60°    | 9198.4  | 71.6      |
| 0°-90°    | 11905.9 | 92.7      |
| 90°-120°  | 624.9   | 4.9       |
| 90°-150°  | 900.5   | 7.0       |
| 90°-180°  | 934.0   | 7.3       |
| 0°-180°   | 12840.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 5106 | 5106  | 5106 | 5106  | 5106 |      |
| 5°   | 5159 | 5072  | 5099 | 5064  | 5057 | 491  |
| 15°  | 5030 | 4924  | 4882 | 4771  | 4724 | 1421 |
| 25°  | 4753 | 4542  | 4192 | 3752  | 3599 | 2190 |
| 35°  | 4245 | 3779  | 3004 | 2523  | 2410 | 2648 |
| 45°  | 3399 | 2694  | 2046 | 1973  | 2032 | 2614 |
| 55°  | 2272 | 1717  | 1598 | 1857  | 1973 | 2020 |
| 65°  | 1160 | 1038  | 1300 | 1593  | 1678 | 1173 |
| 75°  | 450  | 564   | 876  | 1074  | 1118 | 494  |
| 85°  | 91   | 262   | 517  | 661   | 679  | 105  |
| 90°  | 4    | 184   | 408  | 493   | 488  | 7    |
| 95°  | 4    | 155   | 324  | 346   | 335  | 3    |
| 105° | 2    | 135   | 233  | 226   | 215  | 2    |
| 115° | 2    | 122   | 206  | 204   | 198  | 2    |
| 125° | 2    | 104   | 182  | 191   | 186  | 2    |
| 135° | 4    | 78    | 144  | 169   | 169  | 3    |
| 145° | 4    | 49    | 100  | 131   | 140  | 3    |
| 155° | 4    | 31    | 62   | 82    | 100  | 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-LD5-136SL-SLN-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 5105.7 | 5105.7 | 5105.7 | 5105.7 | 5105.7 |
| 2.5°   | 5170.0 | 5085.7 | 5112.4 | 5090.2 | 5061.3 |
| 5°     | 5159.0 | 5072.4 | 5099.0 | 5063.5 | 5056.9 |
| 7.5°   | 5139.0 | 5052.4 | 5068.0 | 5025.8 | 5014.7 |
| 10°    | 5112.4 | 5021.4 | 5023.6 | 4963.7 | 4948.2 |
| 12.5°  | 5076.9 | 4977.0 | 4963.7 | 4881.6 | 4859.4 |
| 15°    | 5030.3 | 4923.7 | 4881.6 | 4770.6 | 4724.0 |
| 17.5°  | 4979.2 | 4855.0 | 4768.4 | 4597.6 | 4524.3 |
| 20°    | 4910.4 | 4770.6 | 4619.8 | 4360.1 | 4262.5 |
| 22.5°  | 4841.6 | 4668.6 | 4426.7 | 4080.6 | 3949.6 |
| 25°    | 4752.9 | 4542.1 | 4191.5 | 3752.2 | 3599.1 |
| 27.5°  | 4653.0 | 4393.4 | 3920.8 | 3414.9 | 3250.7 |
| 30°    | 4535.4 | 4213.7 | 3623.5 | 3084.3 | 2929.0 |
| 32.5°  | 4397.9 | 4011.8 | 3310.6 | 2786.9 | 2642.7 |
| 35°    | 4244.8 | 3778.8 | 3004.4 | 2522.9 | 2409.7 |
| 37.5°  | 4069.5 | 3523.6 | 2720.4 | 2309.9 | 2236.7 |
| 40°    | 3869.8 | 3246.3 | 2458.5 | 2145.7 | 2121.3 |
| 42.5°  | 3654.5 | 2975.6 | 2234.4 | 2039.2 | 2061.4 |
| 45°    | 3399.4 | 2693.7 | 2045.8 | 1972.6 | 2032.5 |
| 47.5°  | 3130.9 | 2418.6 | 1892.7 | 1934.9 | 2021.4 |
| 50°    | 2871.3 | 2163.4 | 1772.9 | 1910.5 | 2012.5 |
| 52.5°  | 2549.5 | 1934.9 | 1677.5 | 1888.3 | 1999.2 |
| 55°    | 2272.2 | 1717.4 | 1597.6 | 1857.2 | 1972.6 |
| 57.5°  | 1952.6 | 1522.2 | 1526.6 | 1817.3 | 1932.7 |
| 60°    | 1686.4 | 1344.7 | 1457.8 | 1761.8 | 1872.8 |
| 62.5°  | 1415.7 | 1184.9 | 1382.4 | 1688.6 | 1788.4 |
| 65°    | 1160.5 | 1038.4 | 1300.3 | 1593.2 | 1677.5 |
| 67.5°  | 947.5  | 905.3  | 1207.1 | 1477.8 | 1548.8 |
| 70°    | 767.7  | 783.3  | 1105.0 | 1349.1 | 1409.0 |
| 72.5°  | 590.2  | 670.1  | 994.1  | 1211.5 | 1262.6 |
| 75°    | 450.4  | 563.6  | 876.5  | 1073.9 | 1118.3 |
| 77.5°  | 332.8  | 470.4  | 770.0  | 949.7  | 987.4  |
| 80°    | 235.2  | 388.3  | 670.1  | 841.0  | 869.8  |
| 82.5°  | 157.5  | 319.5  | 588.0  | 743.3  | 770.0  |
| 85°    | 91.0   | 261.8  | 517.0  | 661.2  | 679.0  |
| 87.5°  | 37.7   | 217.5  | 459.3  | 576.9  | 585.8  |
| 90°    | 4.4    | 184.2  | 408.3  | 492.6  | 488.2  |
| 92.5°  | 4.4    | 166.4  | 363.9  | 412.7  | 401.6  |
| 95°    | 4.4    | 155.3  | 324.0  | 346.1  | 335.1  |
| 97.5°  | 4.4    | 148.7  | 288.5  | 297.3  | 286.2  |
| 100°   | 2.2    | 144.2  | 264.0  | 264.0  | 253.0  |
| 102.5° | 2.2    | 139.8  | 246.3  | 239.6  | 230.8  |
| 105°   | 2.2    | 135.4  | 233.0  | 226.3  | 215.2  |
| 107.5° | 2.2    | 133.1  | 224.1  | 217.5  | 206.4  |
| 110°   | 2.2    | 128.7  | 217.5  | 210.8  | 201.9  |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-SLN-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 2.2 | 126.5 | 213.0 | 208.6 | 197.5 |
| 115°   | 2.2 | 122.0 | 206.4 | 204.1 | 197.5 |
| 117.5° | 2.2 | 117.6 | 201.9 | 201.9 | 195.3 |
| 120°   | 2.2 | 113.2 | 195.3 | 199.7 | 193.0 |
| 122.5° | 2.2 | 108.7 | 188.6 | 195.3 | 188.6 |
| 125°   | 2.2 | 104.3 | 182.0 | 190.8 | 186.4 |
| 127.5° | 4.4 | 97.6  | 173.1 | 186.4 | 182.0 |
| 130°   | 2.2 | 91.0  | 164.2 | 182.0 | 179.7 |
| 132.5° | 4.4 | 84.3  | 155.3 | 175.3 | 175.3 |
| 135°   | 4.4 | 77.7  | 144.2 | 168.6 | 168.6 |
| 137.5° | 4.4 | 68.8  | 133.1 | 159.8 | 162.0 |
| 140°   | 4.4 | 62.1  | 122.0 | 150.9 | 155.3 |
| 142.5° | 4.4 | 55.5  | 110.9 | 142.0 | 148.7 |
| 145°   | 4.4 | 48.8  | 99.9  | 130.9 | 139.8 |
| 147.5° | 4.4 | 44.4  | 88.8  | 117.6 | 130.9 |
| 150°   | 4.4 | 37.7  | 79.9  | 106.5 | 119.8 |
| 152.5° | 4.4 | 33.3  | 71.0  | 95.4  | 110.9 |
| 155°   | 4.4 | 31.1  | 62.1  | 82.1  | 99.9  |
| 157.5° | 4.4 | 26.6  | 53.3  | 71.0  | 88.8  |
| 160°   | 4.4 | 22.2  | 44.4  | 62.1  | 75.4  |
| 162.5° | 4.4 | 20.0  | 37.7  | 51.0  | 66.6  |
| 165°   | 4.4 | 17.8  | 31.1  | 39.9  | 53.3  |
| 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)