

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-LD5-60SL-SLC-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 (P27404)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-60SL-SLC-UNV-L830-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

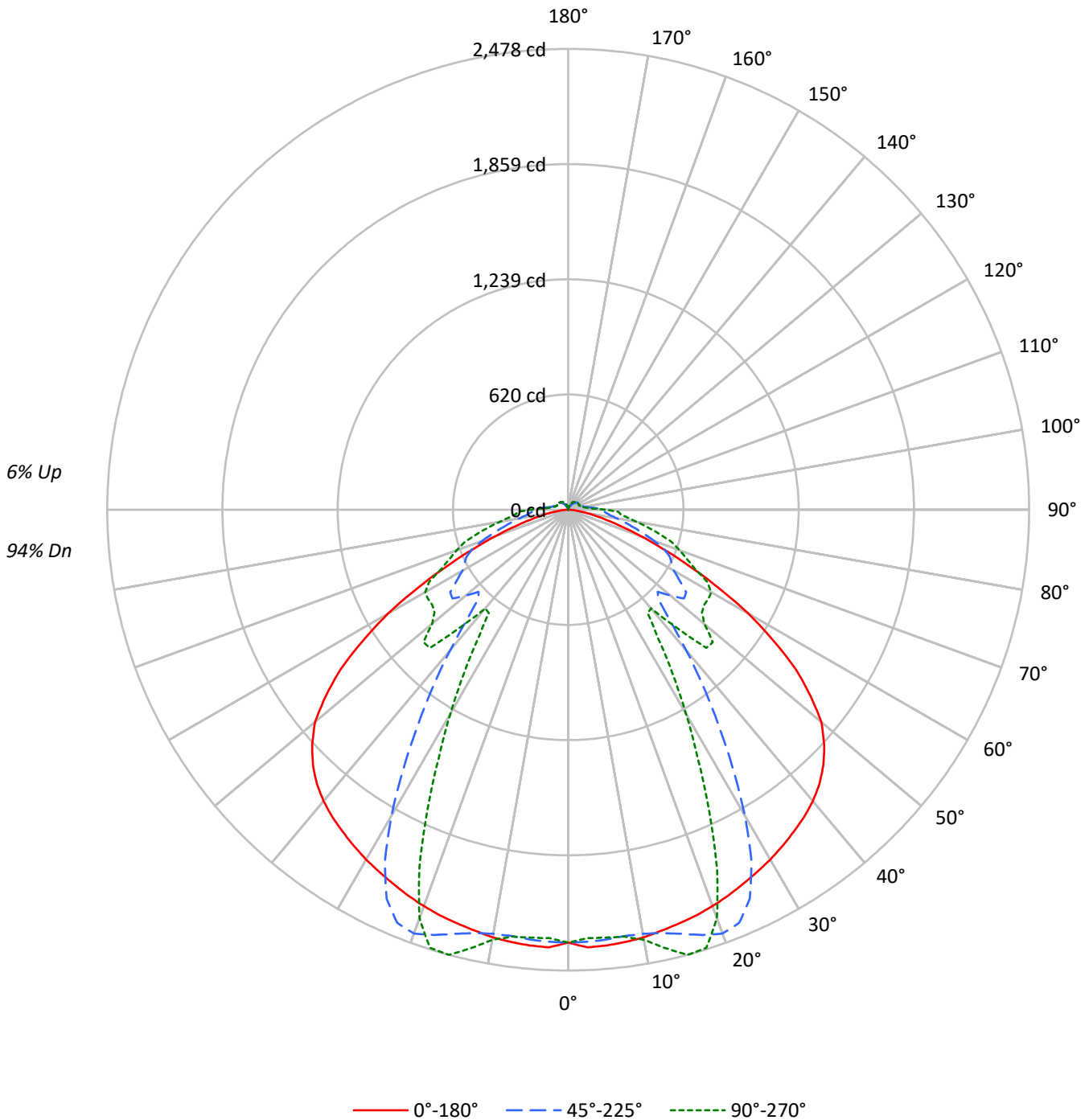
Lumens per Lamp: N/A  
Luminaire Lumens: 5977.0 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 42  
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#

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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   | 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°  | 9401  | 9401 | 9401 |
| 5°  | 9529  | 9190 | 9069 |
| 10° | 9554  | 9059 | 9037 |
| 15° | 9594  | 9194 | 9419 |
| 20° | 9697  | 9476 | 8841 |
| 25° | 9833  | 9115 | 6808 |
| 30° | 10044 | 7642 | 4842 |
| 35° | 10313 | 5793 | 3279 |
| 40° | 10650 | 4216 | 2776 |
| 45° | 10918 | 3061 | 4365 |
| 50° | 10965 | 3394 | 4142 |
| 55° | 10284 | 3912 | 4091 |
| 60° | 8801  | 3585 | 4348 |
| 65° | 6660  | 3623 | 3977 |
| 70° | 4713  | 3305 | 3702 |
| 75° | 3130  | 2778 | 3322 |
| 80° | 2048  | 2389 | 2765 |
| 85° | 1176  | 2284 | 2482 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-SLC-UNV-L830-CD1-U

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 221.4  | 3.7       |
| 10°-20°   | 668.5  | 11.2      |
| 20°-30°   | 971.1  | 16.2      |
| 30°-40°   | 927.8  | 15.5      |
| 40°-50°   | 848.7  | 14.2      |
| 50°-60°   | 783.7  | 13.1      |
| 60°-70°   | 622.5  | 10.4      |
| 70°-80°   | 384.2  | 6.4       |
| 80°-90°   | 209.2  | 3.5       |
| 90°-100°  | 105.7  | 1.8       |
| 100°-110° | 66.5   | 1.1       |
| 110°-120° | 56.3   | 0.9       |
| 120°-130° | 46.0   | 0.8       |
| 130°-140° | 33.0   | 0.6       |
| 140°-150° | 20.3   | 0.3       |
| 150°-160° | 9.7    | 0.2       |
| 160°-170° | 2.5    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1861.0 | 31.1      |
| 0°-40°    | 2788.8 | 46.7      |
| 0°-60°    | 4421.2 | 74.0      |
| 0°-90°    | 5637.1 | 94.3      |
| 90°-120°  | 228.5  | 3.8       |
| 90°-150°  | 327.8  | 5.5       |
| 90°-180°  | 340.0  | 5.7       |
| 0°-180°   | 5977.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2327 | 2327  | 2327 | 2327  | 2327 |      |
| 5°   | 2352 | 2316  | 2321 | 2308  | 2309 | 224  |
| 15°  | 2303 | 2272  | 2361 | 2448  | 2478 | 652  |
| 25°  | 2222 | 2265  | 2308 | 1954  | 1794 | 1027 |
| 35°  | 2114 | 2080  | 1402 | 965   | 840  | 1325 |
| 45°  | 1940 | 1353  | 684  | 872   | 1051 | 1491 |
| 55°  | 1492 | 694   | 775  | 833   | 892  | 1314 |
| 65°  | 720  | 450   | 604  | 733   | 751  | 728  |
| 75°  | 212  | 240   | 362  | 479   | 511  | 241  |
| 85°  | 30   | 102   | 205  | 279   | 283  | 38   |
| 90°  | 1    | 76    | 183  | 217   | 201  | 2    |
| 95°  | 0    | 71    | 127  | 112   | 106  | 0    |
| 105° | 0    | 64    | 78   | 71    | 70   | 0    |
| 115° | 0    | 52    | 75   | 67    | 64   | 0    |
| 125° | 1    | 42    | 67   | 65    | 62   | 1    |
| 135° | 1    | 30    | 54   | 59    | 57   | 1    |
| 145° | 1    | 18    | 37   | 47    | 50   | 1    |
| 155° | 2    | 11    | 23   | 30    | 36   | 1    |
| 165° | 2    | 6     | 11   | 14    | 20   | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-SLC-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2326.8 | 2326.8 | 2326.8 | 2326.8 | 2326.8 |
| 2.5°   | 2355.6 | 2321.6 | 2325.8 | 2318.5 | 2306.2 |
| 5°     | 2352.5 | 2316.5 | 2320.6 | 2308.2 | 2309.3 |
| 7.5°   | 2344.3 | 2307.2 | 2312.4 | 2310.3 | 2315.5 |
| 10°    | 2335.0 | 2295.9 | 2315.5 | 2333.0 | 2348.4 |
| 12.5°  | 2318.5 | 2283.5 | 2330.9 | 2382.4 | 2414.3 |
| 15°    | 2303.1 | 2272.2 | 2360.8 | 2448.3 | 2478.2 |
| 17.5°  | 2287.6 | 2268.1 | 2397.9 | 2474.1 | 2470.0 |
| 20°    | 2268.1 | 2266.0 | 2425.7 | 2399.9 | 2337.1 |
| 22.5°  | 2246.4 | 2267.0 | 2404.0 | 2215.5 | 2091.9 |
| 25°    | 2221.7 | 2265.0 | 2308.2 | 1953.9 | 1794.3 |
| 27.5°  | 2197.0 | 2255.7 | 2134.2 | 1667.6 | 1510.0 |
| 30°    | 2172.3 | 2231.0 | 1899.3 | 1406.0 | 1262.8 |
| 32.5°  | 2143.4 | 2177.4 | 1643.9 | 1174.2 | 1042.4 |
| 35°    | 2113.6 | 2079.6 | 1401.8 | 965.1  | 839.5  |
| 37.5°  | 2082.7 | 1938.5 | 1184.5 | 781.8  | 701.4  |
| 40°    | 2045.6 | 1761.3 | 984.7  | 670.5  | 692.2  |
| 42.5°  | 1999.2 | 1561.5 | 808.6  | 703.5  | 853.9  |
| 45°    | 1940.5 | 1353.4 | 683.9  | 872.4  | 1050.6 |
| 47.5°  | 1866.4 | 1153.6 | 653.0  | 999.1  | 1054.7 |
| 50°    | 1776.8 | 970.3  | 717.9  | 957.9  | 953.8  |
| 52.5°  | 1640.8 | 817.8  | 783.8  | 873.4  | 906.4  |
| 55°    | 1492.5 | 694.2  | 774.6  | 833.3  | 892.0  |
| 57.5°  | 1305.0 | 610.8  | 710.7  | 825.0  | 893.0  |
| 60°    | 1118.6 | 555.2  | 656.1  | 824.0  | 887.9  |
| 62.5°  | 912.6  | 504.7  | 628.3  | 804.4  | 842.5  |
| 65°    | 720.0  | 450.1  | 603.6  | 733.4  | 750.9  |
| 67.5°  | 552.1  | 394.5  | 560.3  | 654.1  | 689.1  |
| 70°    | 416.1  | 339.9  | 492.3  | 593.3  | 636.5  |
| 72.5°  | 299.7  | 288.4  | 422.3  | 539.7  | 585.0  |
| 75°    | 212.2  | 240.0  | 361.5  | 479.0  | 510.9  |
| 77.5°  | 146.3  | 195.7  | 310.0  | 412.0  | 437.8  |
| 80°    | 95.8   | 156.6  | 263.7  | 354.3  | 371.8  |
| 82.5°  | 57.7   | 125.7  | 228.7  | 310.0  | 319.3  |
| 85°    | 29.9   | 102.0  | 205.0  | 279.1  | 283.3  |
| 87.5°  | 9.3    | 85.5   | 191.6  | 264.7  | 269.9  |
| 90°    | 1.0    | 76.2   | 183.3  | 217.3  | 200.9  |
| 92.5°  | 0.0    | 72.1   | 158.6  | 148.3  | 132.9  |
| 95°    | 0.0    | 71.1   | 126.7  | 112.3  | 106.1  |
| 97.5°  | 0.0    | 69.0   | 104.0  | 93.7   | 90.6   |
| 100°   | 0.0    | 67.0   | 89.6   | 82.4   | 81.4   |
| 102.5° | 0.0    | 65.9   | 81.4   | 75.2   | 74.2   |
| 105°   | 0.0    | 63.9   | 78.3   | 71.1   | 70.0   |
| 107.5° | 0.0    | 60.8   | 76.2   | 69.0   | 67.0   |
| 110°   | 0.0    | 57.7   | 76.2   | 68.0   | 64.9   |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-SLC-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 54.6  | 76.2 | 67.0  | 63.9 |
| 115°   | 0.0 | 52.5  | 75.2 | 67.0  | 63.9 |
| 117.5° | 1.0 | 50.5  | 74.2 | 67.0  | 63.9 |
| 120°   | 0.0 | 48.4  | 72.1 | 67.0  | 62.8 |
| 122.5° | 1.0 | 45.3  | 70.0 | 65.9  | 62.8 |
| 125°   | 1.0 | 42.2  | 67.0 | 64.9  | 61.8 |
| 127.5° | 1.0 | 39.1  | 63.9 | 62.8  | 59.7 |
| 130°   | 1.0 | 36.1  | 60.8 | 61.8  | 58.7 |
| 132.5° | 1.0 | 33.0  | 56.7 | 59.7  | 57.7 |
| 135°   | 1.0 | 29.9  | 53.6 | 58.7  | 56.7 |
| 137.5° | 1.0 | 26.8  | 49.4 | 55.6  | 55.6 |
| 140°   | 1.0 | 23.7  | 45.3 | 53.6  | 54.6 |
| 142.5° | 1.0 | 21.6  | 41.2 | 51.5  | 52.5 |
| 145°   | 1.0 | 18.5  | 37.1 | 47.4  | 50.5 |
| 147.5° | 1.0 | 16.5  | 33.0 | 43.3  | 47.4 |
| 150°   | 1.0 | 14.4  | 28.8 | 39.1  | 43.3 |
| 152.5° | 1.0 | 12.4  | 25.8 | 34.0  | 40.2 |
| 155°   | 2.1 | 11.3  | 22.7 | 29.9  | 36.1 |
| 157.5° | 2.1 | 9.3   | 18.5 | 25.8  | 30.9 |
| 160°   | 2.1 | 8.2   | 16.5 | 21.6  | 27.8 |
| 162.5° | 2.1 | 7.2   | 13.4 | 18.5  | 23.7 |
| 165°   | 2.1 | 6.2   | 11.3 | 14.4  | 19.6 |
| 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)