

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: P284521

Luminaire Tested: **8SNLED-LD5-70SL-SLW-UNV-L835-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P284521  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-70SL-SLW-UNV-L835-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6987.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

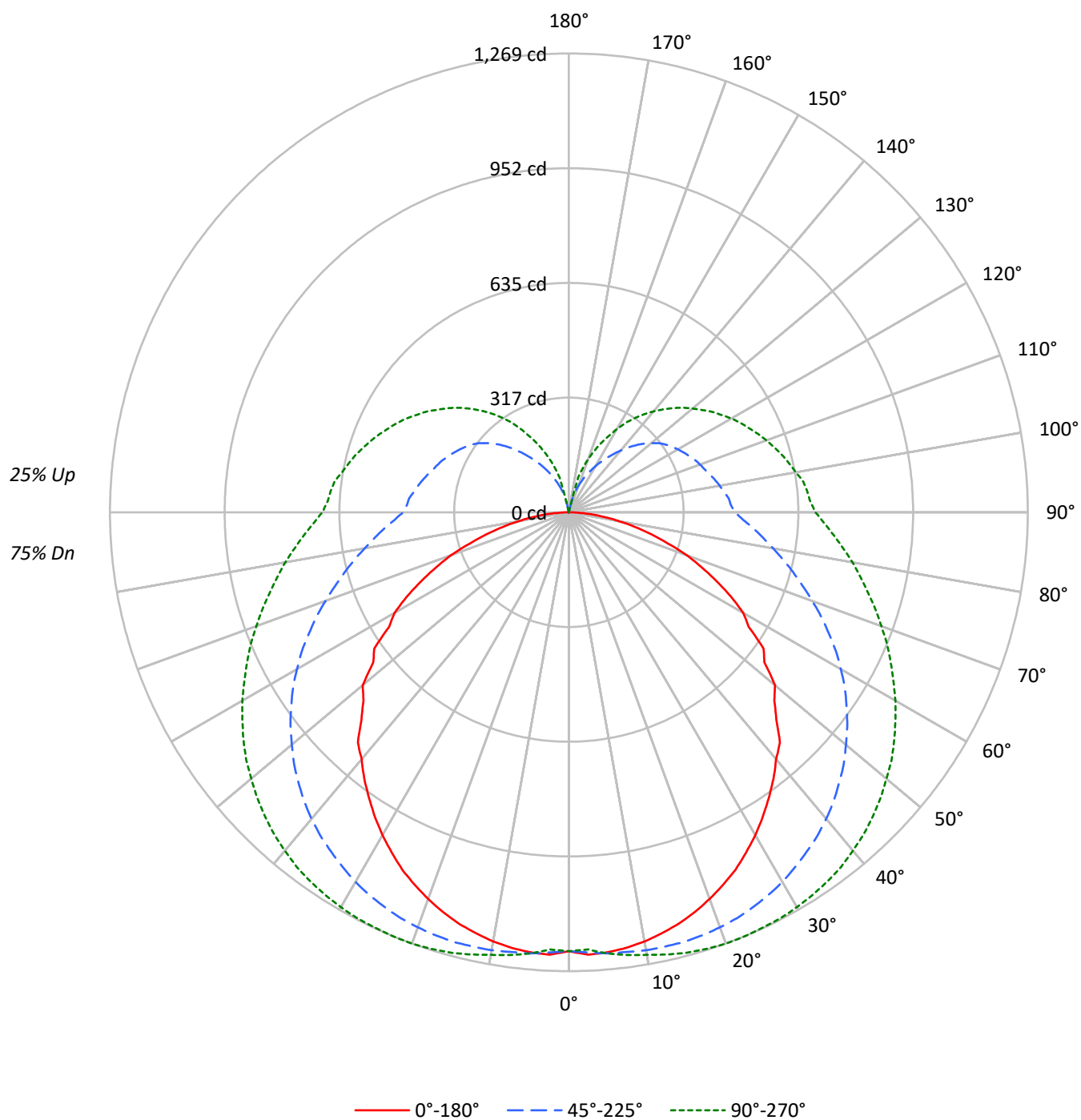
Input Watts (W): 61  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 97 | 97 | 97 | 88 | 88 | 88 | 79 | 79 | 79 |    |    | 75 |
| 1   | 100 | 94  | 89  | 84  | 95  | 89  | 84  | 80  | 80 | 76 | 73 | 72 | 69 | 66 | 64 | 62 | 60 |    |    | 56 |
| 2   | 90  | 80  | 72  | 66  | 85  | 76  | 69  | 63  | 68 | 63 | 58 | 61 | 57 | 53 | 55 | 51 | 48 |    |    | 44 |
| 3   | 81  | 69  | 60  | 53  | 76  | 66  | 58  | 51  | 59 | 53 | 47 | 53 | 48 | 43 | 47 | 43 | 39 |    |    | 36 |
| 4   | 74  | 61  | 51  | 44  | 69  | 58  | 49  | 43  | 52 | 45 | 39 | 47 | 41 | 36 | 42 | 37 | 33 |    |    | 30 |
| 5   | 67  | 54  | 44  | 37  | 63  | 51  | 43  | 36  | 46 | 39 | 33 | 42 | 35 | 31 | 37 | 32 | 28 |    |    | 25 |
| 6   | 62  | 48  | 39  | 32  | 58  | 46  | 37  | 31  | 41 | 34 | 29 | 37 | 31 | 27 | 34 | 28 | 24 |    |    | 22 |
| 7   | 57  | 43  | 34  | 28  | 54  | 41  | 33  | 27  | 37 | 30 | 25 | 34 | 28 | 23 | 30 | 25 | 21 |    |    | 19 |
| 8   | 53  | 39  | 31  | 25  | 50  | 37  | 29  | 24  | 34 | 27 | 22 | 31 | 25 | 21 | 28 | 23 | 19 |    |    | 17 |
| 9   | 49  | 36  | 27  | 22  | 47  | 34  | 26  | 21  | 31 | 24 | 20 | 28 | 23 | 18 | 26 | 21 | 17 |    |    | 15 |
| 10  | 46  | 33  | 25  | 20  | 44  | 31  | 24  | 19  | 29 | 22 | 18 | 26 | 21 | 16 | 24 | 19 | 15 |    |    | 13 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4903 | 4903 | 4903 |
| 5°  | 4948 | 4850 | 4809 |
| 10° | 4931 | 4812 | 4782 |
| 15° | 4904 | 4790 | 4792 |
| 20° | 4864 | 4772 | 4802 |
| 25° | 4826 | 4759 | 4809 |
| 30° | 4767 | 4749 | 4835 |
| 35° | 4702 | 4737 | 4868 |
| 40° | 4641 | 4738 | 4900 |
| 45° | 4564 | 4732 | 4939 |
| 50° | 4591 | 4728 | 4978 |
| 55° | 4524 | 4735 | 5037 |
| 60° | 4379 | 4745 | 5105 |
| 65° | 4160 | 4760 | 5200 |
| 70° | 3925 | 4807 | 5346 |
| 75° | 3490 | 4933 | 5563 |
| 80° | 3020 | 5191 | 5921 |
| 85° | 2388 | 5708 | 6445 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.6  | 1.7       |
| 10°-20°   | 345.6  | 4.9       |
| 20°-30°   | 549.3  | 7.9       |
| 30°-40°   | 705.0  | 10.1      |
| 40°-50°   | 796.2  | 11.4      |
| 50°-60°   | 812.4  | 11.6      |
| 60°-70°   | 752.6  | 10.8      |
| 70°-80°   | 637.2  | 9.1       |
| 80°-90°   | 508.6  | 7.3       |
| 90°-100°  | 431.9  | 6.2       |
| 100°-110° | 384.8  | 5.5       |
| 110°-120° | 327.7  | 4.7       |
| 120°-130° | 260.3  | 3.7       |
| 130°-140° | 184.7  | 2.6       |
| 140°-150° | 110.3  | 1.6       |
| 150°-160° | 51.4   | 0.7       |
| 160°-170° | 12.2   | 0.2       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1011.6 | 14.5      |
| 0°-40°    | 1716.7 | 24.6      |
| 0°-60°    | 3325.2 | 47.6      |
| 0°-90°    | 5223.7 | 74.8      |
| 90°-120°  | 1144.5 | 16.4      |
| 90°-150°  | 1699.7 | 24.3      |
| 90°-180°  | 1763.0 | 25.2      |
| 0°-180°   | 6987.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1214 | 1214  | 1214 | 1214  | 1214 |      |
| 5°   | 1222 | 1212  | 1225 | 1225  | 1225 | 116  |
| 15°  | 1177 | 1187  | 1230 | 1252  | 1261 | 332  |
| 25°  | 1090 | 1126  | 1205 | 1248  | 1268 | 502  |
| 35°  | 964  | 1034  | 1146 | 1217  | 1246 | 603  |
| 45°  | 811  | 921   | 1057 | 1149  | 1189 | 630  |
| 55°  | 657  | 767   | 938  | 1052  | 1098 | 577  |
| 65°  | 450  | 599   | 793  | 929   | 982  | 446  |
| 75°  | 237  | 419   | 642  | 800   | 856  | 252  |
| 85°  | 61   | 269   | 512  | 678   | 736  | 66   |
| 90°  | 3    | 220   | 458  | 624   | 681  | 5    |
| 95°  | 0    | 207   | 444  | 606   | 662  | 0    |
| 105° | 0    | 190   | 404  | 556   | 611  | 0    |
| 115° | 0    | 177   | 368  | 501   | 550  | 0    |
| 125° | 0    | 153   | 326  | 442   | 484  | 0    |
| 135° | 0    | 113   | 263  | 373   | 407  | 0    |
| 145° | 0    | 74    | 184  | 279   | 319  | 1    |
| 155° | 2    | 46    | 113  | 171   | 212  | 1    |
| 165° | 2    | 25    | 51   | 70    | 100  | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



TEST NUMBER: P284521

CATALOG NUMBER: 8SNLED-LD5-70SL-SLW-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1213.5 | 1213.5 | 1213.5 | 1213.5 | 1213.5 |
| 2.5°   | 1224.6 | 1211.7 | 1218.4 | 1216.6 | 1210.0 |
| 5°     | 1221.5 | 1211.7 | 1224.6 | 1224.6 | 1224.6 |
| 7.5°   | 1214.8 | 1208.2 | 1226.4 | 1233.0 | 1234.8 |
| 10°    | 1205.1 | 1205.1 | 1229.9 | 1239.6 | 1242.8 |
| 12.5°  | 1191.8 | 1196.7 | 1229.9 | 1244.5 | 1252.5 |
| 15°    | 1177.2 | 1186.9 | 1229.9 | 1252.5 | 1260.9 |
| 17.5°  | 1159.0 | 1175.4 | 1226.4 | 1254.3 | 1265.8 |
| 20°    | 1137.7 | 1162.6 | 1221.5 | 1254.3 | 1269.3 |
| 22.5°  | 1114.7 | 1146.2 | 1214.8 | 1251.2 | 1269.3 |
| 25°    | 1090.3 | 1126.2 | 1205.1 | 1247.6 | 1267.6 |
| 27.5°  | 1060.7 | 1106.7 | 1193.6 | 1242.8 | 1265.8 |
| 30°    | 1031.0 | 1083.7 | 1180.3 | 1236.1 | 1260.9 |
| 32.5°  | 998.2  | 1058.9 | 1163.9 | 1226.4 | 1254.3 |
| 35°    | 963.6  | 1034.5 | 1146.2 | 1216.6 | 1246.3 |
| 37.5°  | 929.1  | 1004.8 | 1128.0 | 1203.3 | 1236.1 |
| 40°    | 891.4  | 975.1  | 1106.7 | 1186.9 | 1221.5 |
| 42.5°  | 863.5  | 944.1  | 1083.7 | 1170.5 | 1206.9 |
| 45°    | 811.2  | 921.1  | 1057.1 | 1149.3 | 1188.7 |
| 47.5°  | 770.0  | 876.8  | 1031.0 | 1128.0 | 1168.8 |
| 50°    | 743.9  | 840.5  | 1000.0 | 1103.2 | 1146.2 |
| 52.5°  | 681.4  | 816.1  | 970.3  | 1078.8 | 1124.5 |
| 55°    | 656.6  | 766.9  | 937.5  | 1052.2 | 1098.3 |
| 57.5°  | 589.3  | 732.4  | 904.7  | 1023.0 | 1070.4 |
| 60°    | 556.5  | 684.5  | 868.4  | 993.3  | 1042.5 |
| 62.5°  | 505.5  | 643.7  | 832.5  | 960.5  | 1011.5 |
| 65°    | 449.7  | 599.4  | 793.1  | 929.1  | 981.8  |
| 67.5°  | 397.4  | 555.1  | 755.4  | 896.3  | 952.1  |
| 70°    | 346.5  | 509.1  | 716.0  | 863.5  | 919.3  |
| 72.5°  | 287.1  | 463.0  | 677.9  | 832.5  | 888.3  |
| 75°    | 236.6  | 418.7  | 642.0  | 799.7  | 855.5  |
| 77.5°  | 187.0  | 376.1  | 607.4  | 770.0  | 825.8  |
| 80°    | 141.3  | 334.9  | 572.9  | 739.0  | 796.2  |
| 82.5°  | 98.4   | 300.4  | 541.8  | 709.3  | 765.1  |
| 85°    | 60.7   | 269.4  | 512.2  | 677.9  | 735.5  |
| 87.5°  | 27.9   | 241.5  | 482.5  | 648.6  | 707.5  |
| 90°    | 3.1    | 220.2  | 458.1  | 623.8  | 681.4  |
| 92.5°  | 1.8    | 213.5  | 448.4  | 612.3  | 668.1  |
| 95°    | 0.0    | 206.9  | 443.5  | 605.6  | 661.5  |
| 97.5°  | 0.0    | 200.3  | 432.0  | 595.9  | 653.5  |
| 100°   | 0.0    | 197.2  | 423.6  | 581.3  | 637.1  |
| 102.5° | 0.0    | 192.3  | 413.8  | 568.0  | 623.8  |
| 105°   | 0.0    | 190.5  | 404.1  | 556.5  | 611.0  |
| 107.5° | 0.0    | 187.0  | 393.9  | 541.8  | 595.9  |
| 110°   | 0.0    | 183.9  | 385.9  | 528.6  | 581.3  |



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CATALOG NUMBER: 8SNLED-LD5-70SL-SLW-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 180.8 | 377.5 | 515.7 | 566.2 |
| 115°   | 0.0 | 177.2 | 367.7 | 500.6 | 549.8 |
| 117.5° | 0.0 | 172.3 | 358.0 | 486.0 | 535.2 |
| 120°   | 0.0 | 165.7 | 348.2 | 472.7 | 518.8 |
| 122.5° | 0.0 | 159.1 | 338.0 | 456.3 | 500.6 |
| 125°   | 0.0 | 152.9 | 326.5 | 441.7 | 484.3 |
| 127.5° | 0.0 | 142.7 | 313.7 | 425.3 | 464.8 |
| 130°   | 0.0 | 132.9 | 297.3 | 408.9 | 446.6 |
| 132.5° | 1.8 | 123.2 | 280.9 | 390.8 | 428.4 |
| 135°   | 0.0 | 113.4 | 262.7 | 372.6 | 407.2 |
| 137.5° | 0.0 | 105.0 | 242.8 | 353.1 | 385.9 |
| 140°   | 0.0 | 95.3  | 223.3 | 330.1 | 364.6 |
| 142.5° | 0.0 | 83.7  | 203.8 | 305.3 | 341.6 |
| 145°   | 0.0 | 74.0  | 183.9 | 279.1 | 318.6 |
| 147.5° | 1.8 | 65.6  | 165.7 | 251.2 | 293.7 |
| 150°   | 1.8 | 58.9  | 148.0 | 223.3 | 265.8 |
| 152.5° | 1.8 | 52.7  | 129.8 | 197.2 | 237.9 |
| 155°   | 1.8 | 46.1  | 113.4 | 170.6 | 211.8 |
| 157.5° | 1.8 | 39.4  | 95.3  | 144.4 | 183.9 |
| 160°   | 1.8 | 34.6  | 78.9  | 121.4 | 157.7 |
| 162.5° | 1.8 | 29.7  | 64.2  | 95.3  | 129.8 |
| 165°   | 1.8 | 24.8  | 51.0  | 70.4  | 100.1 |
| 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)