

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: **2SNLED-LD5-20SL-SLW-UNV-L950-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 (P27403)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNLED-LD5-20SL-SLW-UNV-L950-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

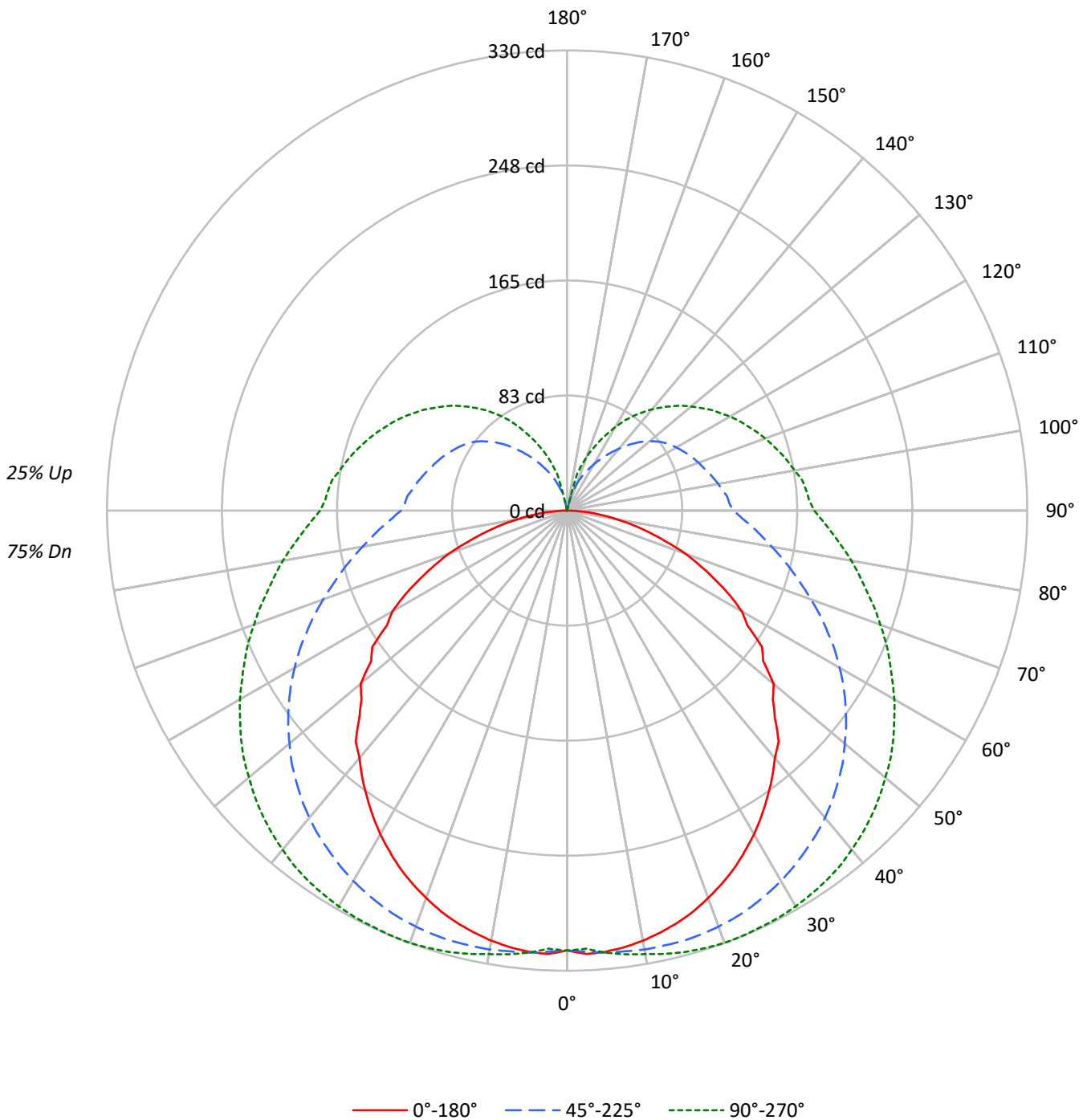
Lumens per Lamp: N/A  
Luminaire Lumens: 1816.0 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 18  
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: 2SNLED-LD5-20SL-SLW-UNV-L950-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L950-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   | 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°  | 5098 | 5098 | 5098 |
| 5°  | 5123 | 5028 | 5000 |
| 10° | 5084 | 4974 | 4972 |
| 15° | 5036 | 4938 | 4982 |
| 20° | 4973 | 4908 | 4992 |
| 25° | 4909 | 4881 | 4999 |
| 30° | 4827 | 4857 | 5026 |
| 35° | 4735 | 4830 | 5061 |
| 40° | 4645 | 4816 | 5094 |
| 45° | 4535 | 4796 | 5135 |
| 50° | 4523 | 4773 | 5175 |
| 55° | 4416 | 4761 | 5237 |
| 60° | 4220 | 4749 | 5308 |
| 65° | 3942 | 4737 | 5407 |
| 70° | 3630 | 4752 | 5560 |
| 75° | 3109 | 4835 | 5782 |
| 80° | 2522 | 5029 | 6158 |
| 85° | 1709 | 5438 | 6702 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L950-CD1-U

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 30.3   | 1.7       |
| 10°-20°   | 89.8   | 4.9       |
| 20°-30°   | 142.8  | 7.9       |
| 30°-40°   | 183.3  | 10.1      |
| 40°-50°   | 206.9  | 11.4      |
| 50°-60°   | 211.2  | 11.6      |
| 60°-70°   | 195.6  | 10.8      |
| 70°-80°   | 165.6  | 9.1       |
| 80°-90°   | 132.2  | 7.3       |
| 90°-100°  | 112.3  | 6.2       |
| 100°-110° | 100.0  | 5.5       |
| 110°-120° | 85.2   | 4.7       |
| 120°-130° | 67.7   | 3.7       |
| 130°-140° | 48.0   | 2.6       |
| 140°-150° | 28.7   | 1.6       |
| 150°-160° | 13.4   | 0.7       |
| 160°-170° | 3.2    | 0.2       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 262.9  | 14.5      |
| 0°-40°    | 446.2  | 24.6      |
| 0°-60°    | 864.3  | 47.6      |
| 0°-90°    | 1357.7 | 74.8      |
| 90°-120°  | 297.5  | 16.4      |
| 90°-150°  | 441.8  | 24.3      |
| 90°-180°  | 458.0  | 25.2      |
| 0°-180°   | 1816.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 315 | 315   | 315 | 315   | 315 |      |
| 5°   | 318 | 315   | 318 | 318   | 318 | 30   |
| 15°  | 306 | 308   | 320 | 326   | 328 | 86   |
| 25°  | 283 | 293   | 313 | 324   | 329 | 130  |
| 35°  | 250 | 269   | 298 | 316   | 324 | 157  |
| 45°  | 211 | 239   | 275 | 299   | 309 | 164  |
| 55°  | 171 | 199   | 244 | 274   | 286 | 150  |
| 65°  | 117 | 156   | 206 | 242   | 255 | 116  |
| 75°  | 61  | 109   | 167 | 208   | 222 | 65   |
| 85°  | 16  | 70    | 133 | 176   | 191 | 17   |
| 90°  | 1   | 57    | 119 | 162   | 177 | 1    |
| 95°  | 0   | 54    | 115 | 158   | 172 | 0    |
| 105° | 0   | 50    | 105 | 145   | 159 | 0    |
| 115° | 0   | 46    | 96  | 130   | 143 | 0    |
| 125° | 0   | 40    | 85  | 115   | 126 | 0    |
| 135° | 0   | 29    | 68  | 97    | 106 | 0    |
| 145° | 0   | 19    | 48  | 72    | 83  | 0    |
| 155° | 0   | 12    | 29  | 44    | 55  | 0    |
| 165° | 0   | 6     | 13  | 18    | 26  | 0    |
| 175° | 0   | 0     | 0   | 0     | 0   | 0    |
| 180° | 0   | 0     | 0   | 0     | 0   | 0    |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 315.4 | 315.4 | 315.4 | 315.4 | 315.4 |
| 2.5°   | 318.3 | 314.9 | 316.6 | 316.2 | 314.5 |
| 5°     | 317.5 | 314.9 | 318.3 | 318.3 | 318.3 |
| 7.5°   | 315.8 | 314.1 | 318.8 | 320.5 | 320.9 |
| 10°    | 313.2 | 313.2 | 319.6 | 322.2 | 323.0 |
| 12.5°  | 309.8 | 311.1 | 319.6 | 323.5 | 325.6 |
| 15°    | 306.0 | 308.5 | 319.6 | 325.6 | 327.7 |
| 17.5°  | 301.3 | 305.5 | 318.8 | 326.0 | 329.0 |
| 20°    | 295.7 | 302.1 | 317.5 | 326.0 | 329.9 |
| 22.5°  | 289.7 | 297.9 | 315.8 | 325.2 | 329.9 |
| 25°    | 283.3 | 292.7 | 313.2 | 324.3 | 329.4 |
| 27.5°  | 275.7 | 287.6 | 310.2 | 323.0 | 329.0 |
| 30°    | 268.0 | 281.6 | 306.8 | 321.3 | 327.7 |
| 32.5°  | 259.5 | 275.2 | 302.6 | 318.8 | 326.0 |
| 35°    | 250.5 | 268.8 | 297.9 | 316.2 | 323.9 |
| 37.5°  | 241.5 | 261.2 | 293.2 | 312.8 | 321.3 |
| 40°    | 231.7 | 253.5 | 287.6 | 308.5 | 317.5 |
| 42.5°  | 224.5 | 245.4 | 281.6 | 304.3 | 313.6 |
| 45°    | 210.8 | 239.4 | 274.8 | 298.7 | 309.0 |
| 47.5°  | 200.1 | 227.9 | 268.0 | 293.2 | 303.8 |
| 50°    | 193.3 | 218.5 | 259.9 | 286.8 | 297.9 |
| 52.5°  | 177.1 | 212.1 | 252.2 | 280.4 | 292.3 |
| 55°    | 170.7 | 199.3 | 243.7 | 273.5 | 285.5 |
| 57.5°  | 153.2 | 190.3 | 235.1 | 265.9 | 278.2 |
| 60°    | 144.7 | 177.9 | 225.7 | 258.2 | 271.0 |
| 62.5°  | 131.4 | 167.3 | 216.4 | 249.6 | 262.9 |
| 65°    | 116.9 | 155.8 | 206.1 | 241.5 | 255.2 |
| 67.5°  | 103.3 | 144.2 | 196.3 | 233.0 | 247.5 |
| 70°    | 90.0  | 132.3 | 186.1 | 224.5 | 239.0 |
| 72.5°  | 74.7  | 120.3 | 176.2 | 216.4 | 230.9 |
| 75°    | 61.4  | 108.8 | 166.9 | 207.8 | 222.3 |
| 77.5°  | 48.6  | 97.7  | 157.9 | 200.1 | 214.6 |
| 80°    | 36.7  | 87.1  | 148.9 | 192.0 | 207.0 |
| 82.5°  | 25.6  | 78.1  | 140.8 | 184.3 | 198.9 |
| 85°    | 15.8  | 70.0  | 133.1 | 176.2 | 191.2 |
| 87.5°  | 7.3   | 62.7  | 125.5 | 168.6 | 183.9 |
| 90°    | 0.9   | 57.2  | 119.1 | 162.2 | 177.1 |
| 92.5°  | 0.4   | 55.5  | 116.5 | 159.2 | 173.7 |
| 95°    | 0.0   | 53.8  | 115.2 | 157.5 | 172.0 |
| 97.5°  | 0.0   | 52.1  | 112.2 | 154.9 | 169.8 |
| 100°   | 0.0   | 51.2  | 110.1 | 151.1 | 165.6 |
| 102.5° | 0.0   | 49.9  | 107.5 | 147.6 | 162.2 |
| 105°   | 0.0   | 49.5  | 105.0 | 144.7 | 158.7 |
| 107.5° | 0.0   | 48.6  | 102.4 | 140.8 | 154.9 |
| 110°   | 0.0   | 47.8  | 100.3 | 137.4 | 151.1 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 46.9  | 98.1 | 134.0 | 147.2 |
| 115°   | 0.0 | 46.1  | 95.6 | 130.2 | 143.0 |
| 117.5° | 0.0 | 44.8  | 93.0 | 126.3 | 139.1 |
| 120°   | 0.0 | 43.1  | 90.5 | 122.9 | 134.8 |
| 122.5° | 0.0 | 41.4  | 87.9 | 118.6 | 130.2 |
| 125°   | 0.0 | 39.7  | 84.9 | 114.8 | 125.9 |
| 127.5° | 0.0 | 37.1  | 81.5 | 110.5 | 120.8 |
| 130°   | 0.0 | 34.6  | 77.2 | 106.3 | 116.1 |
| 132.5° | 0.4 | 32.0  | 73.0 | 101.6 | 111.4 |
| 135°   | 0.0 | 29.4  | 68.3 | 96.9  | 105.8 |
| 137.5° | 0.0 | 27.3  | 63.2 | 91.7  | 100.3 |
| 140°   | 0.0 | 24.8  | 58.0 | 85.8  | 94.7  |
| 142.5° | 0.0 | 21.8  | 52.9 | 79.4  | 88.8  |
| 145°   | 0.0 | 19.2  | 47.8 | 72.5  | 82.8  |
| 147.5° | 0.4 | 17.1  | 43.1 | 65.3  | 76.4  |
| 150°   | 0.4 | 15.4  | 38.4 | 58.0  | 69.1  |
| 152.5° | 0.4 | 13.7  | 33.7 | 51.2  | 61.9  |
| 155°   | 0.4 | 11.9  | 29.4 | 44.4  | 55.0  |
| 157.5° | 0.4 | 10.2  | 24.8 | 37.6  | 47.8  |
| 160°   | 0.4 | 9.0   | 20.5 | 31.6  | 41.0  |
| 162.5° | 0.4 | 7.7   | 16.6 | 24.8  | 33.7  |
| 165°   | 0.4 | 6.4   | 13.2 | 18.3  | 26.0  |
| 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)