

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: **4SNLED-LD5-56SL-SLC-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 (P27404)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-56SL-SLC-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

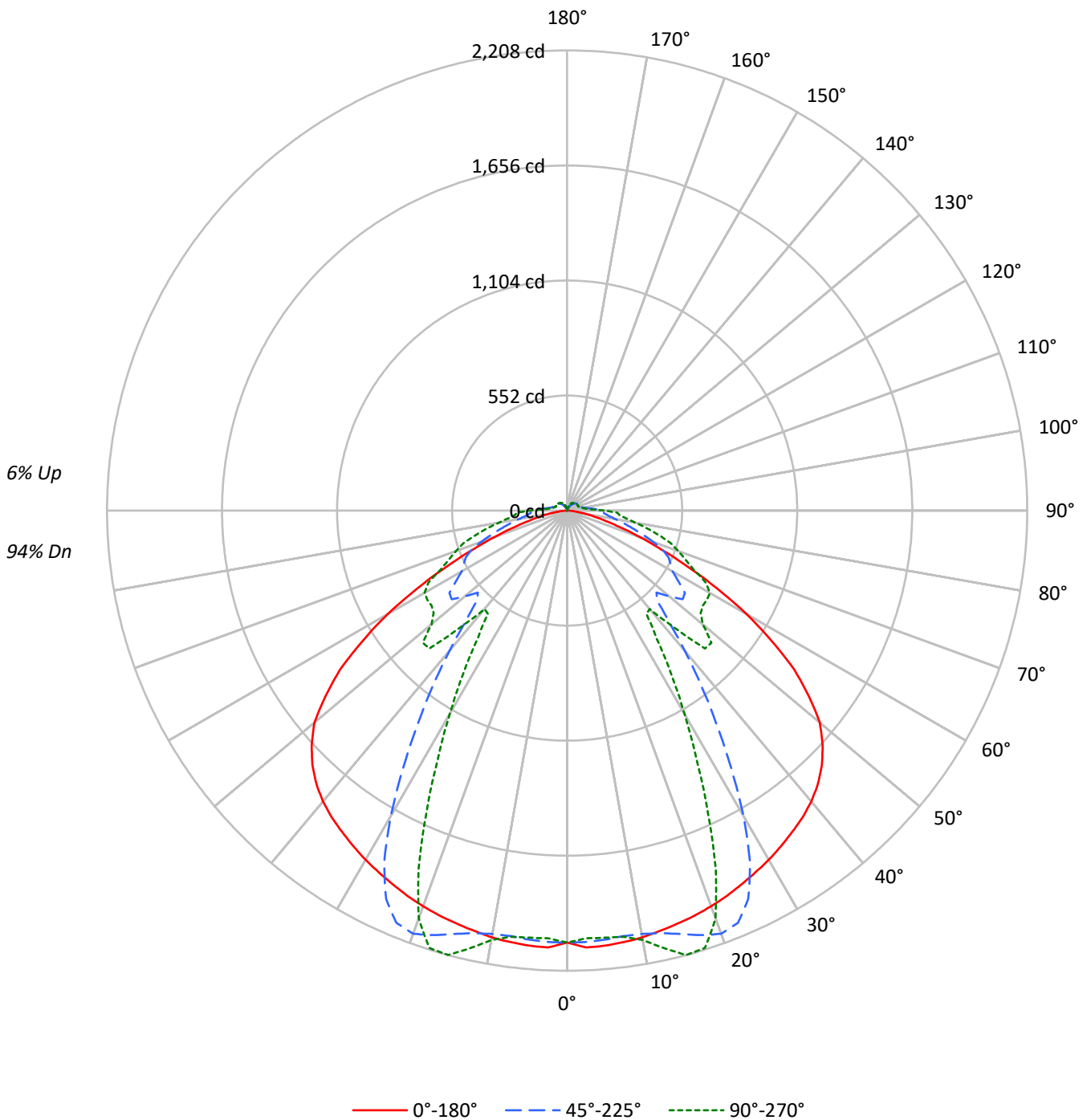
Lumens per Lamp: N/A  
Luminaire Lumens: 5324.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 46  
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°  | 16749 | 16749 | 16749 |
| 5°  | 16952 | 16357 | 16156 |
| 10° | 16973 | 16108 | 16099 |
| 15° | 17021 | 16335 | 16780 |
| 20° | 17178 | 16821 | 15751 |
| 25° | 17392 | 16166 | 12127 |
| 30° | 17736 | 13539 | 8626  |
| 35° | 18175 | 10254 | 5841  |
| 40° | 18730 | 7454  | 4946  |
| 45° | 19155 | 5407  | 7776  |
| 50° | 19182 | 5988  | 7380  |
| 55° | 17929 | 6890  | 7287  |
| 60° | 15277 | 6305  | 7746  |
| 65° | 11492 | 6359  | 7085  |
| 70° | 8066  | 5789  | 6595  |
| 75° | 5285  | 4850  | 5918  |
| 80° | 3372  | 4155  | 4926  |
| 85° | 1817  | 3950  | 4422  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 197.2  | 3.7       |
| 10°-20°   | 595.5  | 11.2      |
| 20°-30°   | 865.0  | 16.2      |
| 30°-40°   | 826.5  | 15.5      |
| 40°-50°   | 756.0  | 14.2      |
| 50°-60°   | 698.0  | 13.1      |
| 60°-70°   | 554.5  | 10.4      |
| 70°-80°   | 342.2  | 6.4       |
| 80°-90°   | 186.4  | 3.5       |
| 90°-100°  | 94.2   | 1.8       |
| 100°-110° | 59.2   | 1.1       |
| 110°-120° | 50.1   | 0.9       |
| 120°-130° | 40.9   | 0.8       |
| 130°-140° | 29.4   | 0.6       |
| 140°-150° | 18.1   | 0.3       |
| 150°-160° | 8.6    | 0.2       |
| 160°-170° | 2.2    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1657.7 | 31.1      |
| 0°-40°    | 2484.1 | 46.7      |
| 0°-60°    | 3938.2 | 74.0      |
| 0°-90°    | 5021.3 | 94.3      |
| 90°-120°  | 203.5  | 3.8       |
| 90°-150°  | 291.9  | 5.5       |
| 90°-180°  | 303.0  | 5.7       |
| 0°-180°   | 5324.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2073 | 2073  | 2073 | 2073  | 2073 |      |
| 5°   | 2096 | 2063  | 2067 | 2056  | 2057 | 199  |
| 15°  | 2052 | 2024  | 2103 | 2181  | 2208 | 581  |
| 25°  | 1979 | 2018  | 2056 | 1740  | 1598 | 915  |
| 35°  | 1883 | 1852  | 1249 | 860   | 748  | 1181 |
| 45°  | 1728 | 1206  | 609  | 777   | 936  | 1328 |
| 55°  | 1329 | 618   | 690  | 742   | 794  | 1171 |
| 65°  | 641  | 401   | 538  | 653   | 669  | 649  |
| 75°  | 189  | 214   | 322  | 427   | 455  | 214  |
| 85°  | 27   | 91    | 183  | 249   | 252  | 34   |
| 90°  | 1    | 68    | 163  | 194   | 179  | 1    |
| 95°  | 0    | 63    | 113  | 100   | 94   | 0    |
| 105° | 0    | 57    | 70   | 63    | 62   | 0    |
| 115° | 0    | 47    | 67   | 60    | 57   | 0    |
| 125° | 1    | 38    | 60   | 58    | 55   | 1    |
| 135° | 1    | 27    | 48   | 52    | 50   | 1    |
| 145° | 1    | 16    | 33   | 42    | 45   | 1    |
| 155° | 2    | 10    | 20   | 27    | 32   | 1    |
| 165° | 2    | 6     | 10   | 13    | 17   | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-56SL-SLC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2072.6 | 2072.6 | 2072.6 | 2072.6 | 2072.6 |
| 2.5°   | 2098.3 | 2068.0 | 2071.7 | 2065.2 | 2054.2 |
| 5°     | 2095.5 | 2063.4 | 2067.1 | 2056.1 | 2057.0 |
| 7.5°   | 2088.2 | 2055.2 | 2059.7 | 2057.9 | 2062.5 |
| 10°    | 2079.9 | 2045.1 | 2062.5 | 2078.1 | 2091.8 |
| 12.5°  | 2065.2 | 2034.0 | 2076.3 | 2122.1 | 2150.6 |
| 15°    | 2051.5 | 2024.0 | 2102.9 | 2180.8 | 2207.5 |
| 17.5°  | 2037.7 | 2020.3 | 2135.9 | 2203.8 | 2200.1 |
| 20°    | 2020.3 | 2018.5 | 2160.7 | 2137.7 | 2081.8 |
| 22.5°  | 2001.0 | 2019.4 | 2141.4 | 1973.5 | 1863.4 |
| 25°    | 1979.0 | 2017.5 | 2056.1 | 1740.5 | 1598.2 |
| 27.5°  | 1957.0 | 2009.3 | 1901.0 | 1485.4 | 1345.0 |
| 30°    | 1935.0 | 1987.3 | 1691.8 | 1252.4 | 1124.8 |
| 32.5°  | 1909.3 | 1939.5 | 1464.3 | 1045.9 | 928.5  |
| 35°    | 1882.7 | 1852.4 | 1248.7 | 859.7  | 747.7  |
| 37.5°  | 1855.1 | 1726.7 | 1055.1 | 696.4  | 624.8  |
| 40°    | 1822.1 | 1568.9 | 877.1  | 597.3  | 616.5  |
| 42.5°  | 1780.8 | 1390.9 | 720.2  | 626.6  | 760.6  |
| 45°    | 1728.5 | 1205.6 | 609.2  | 777.1  | 935.8  |
| 47.5°  | 1662.5 | 1027.6 | 581.7  | 890.0  | 939.5  |
| 50°    | 1582.6 | 864.3  | 639.5  | 853.3  | 849.6  |
| 52.5°  | 1461.5 | 728.5  | 698.2  | 778.0  | 807.4  |
| 55°    | 1329.4 | 618.4  | 689.9  | 742.2  | 794.5  |
| 57.5°  | 1162.4 | 544.1  | 633.1  | 734.9  | 795.5  |
| 60°    | 996.4  | 494.5  | 584.4  | 734.0  | 790.9  |
| 62.5°  | 812.9  | 449.6  | 559.7  | 716.6  | 750.5  |
| 65°    | 641.3  | 400.9  | 537.6  | 653.2  | 668.8  |
| 67.5°  | 491.8  | 351.4  | 499.1  | 582.6  | 613.8  |
| 70°    | 370.7  | 302.8  | 438.6  | 528.5  | 567.0  |
| 72.5°  | 267.0  | 256.9  | 376.2  | 480.8  | 521.1  |
| 75°    | 189.0  | 213.8  | 322.0  | 426.6  | 455.1  |
| 77.5°  | 130.3  | 174.3  | 276.2  | 367.0  | 389.9  |
| 80°    | 85.3   | 139.5  | 234.9  | 315.6  | 331.2  |
| 82.5°  | 51.4   | 111.9  | 203.7  | 276.2  | 284.4  |
| 85°    | 26.6   | 90.8   | 182.6  | 248.6  | 252.3  |
| 87.5°  | 8.3    | 76.2   | 170.7  | 235.8  | 240.4  |
| 90°    | 0.9    | 67.9   | 163.3  | 193.6  | 178.9  |
| 92.5°  | 0.0    | 64.2   | 141.3  | 132.1  | 118.4  |
| 95°    | 0.0    | 63.3   | 112.8  | 100.0  | 94.5   |
| 97.5°  | 0.0    | 61.5   | 92.7   | 83.5   | 80.7   |
| 100°   | 0.0    | 59.6   | 79.8   | 73.4   | 72.5   |
| 102.5° | 0.0    | 58.7   | 72.5   | 67.0   | 66.1   |
| 105°   | 0.0    | 56.9   | 69.7   | 63.3   | 62.4   |
| 107.5° | 0.0    | 54.1   | 67.9   | 61.5   | 59.6   |
| 110°   | 0.0    | 51.4   | 67.9   | 60.6   | 57.8   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 48.6  | 67.9 | 59.6  | 56.9 |
| 115°   | 0.0 | 46.8  | 67.0 | 59.6  | 56.9 |
| 117.5° | 0.9 | 45.0  | 66.1 | 59.6  | 56.9 |
| 120°   | 0.0 | 43.1  | 64.2 | 59.6  | 56.0 |
| 122.5° | 0.9 | 40.4  | 62.4 | 58.7  | 56.0 |
| 125°   | 0.9 | 37.6  | 59.6 | 57.8  | 55.0 |
| 127.5° | 0.9 | 34.9  | 56.9 | 56.0  | 53.2 |
| 130°   | 0.9 | 32.1  | 54.1 | 55.0  | 52.3 |
| 132.5° | 0.9 | 29.4  | 50.5 | 53.2  | 51.4 |
| 135°   | 0.9 | 26.6  | 47.7 | 52.3  | 50.5 |
| 137.5° | 0.9 | 23.9  | 44.0 | 49.5  | 49.5 |
| 140°   | 0.9 | 21.1  | 40.4 | 47.7  | 48.6 |
| 142.5° | 0.9 | 19.3  | 36.7 | 45.9  | 46.8 |
| 145°   | 0.9 | 16.5  | 33.0 | 42.2  | 45.0 |
| 147.5° | 0.9 | 14.7  | 29.4 | 38.5  | 42.2 |
| 150°   | 0.9 | 12.8  | 25.7 | 34.9  | 38.5 |
| 152.5° | 0.9 | 11.0  | 22.9 | 30.3  | 35.8 |
| 155°   | 1.8 | 10.1  | 20.2 | 26.6  | 32.1 |
| 157.5° | 1.8 | 8.3   | 16.5 | 22.9  | 27.5 |
| 160°   | 1.8 | 7.3   | 14.7 | 19.3  | 24.8 |
| 162.5° | 1.8 | 6.4   | 11.9 | 16.5  | 21.1 |
| 165°   | 1.8 | 5.5   | 10.1 | 12.8  | 17.4 |
| 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)