

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-LD5-75SL-SLN-UNV-L930-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-LD5-75SL-SLN-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

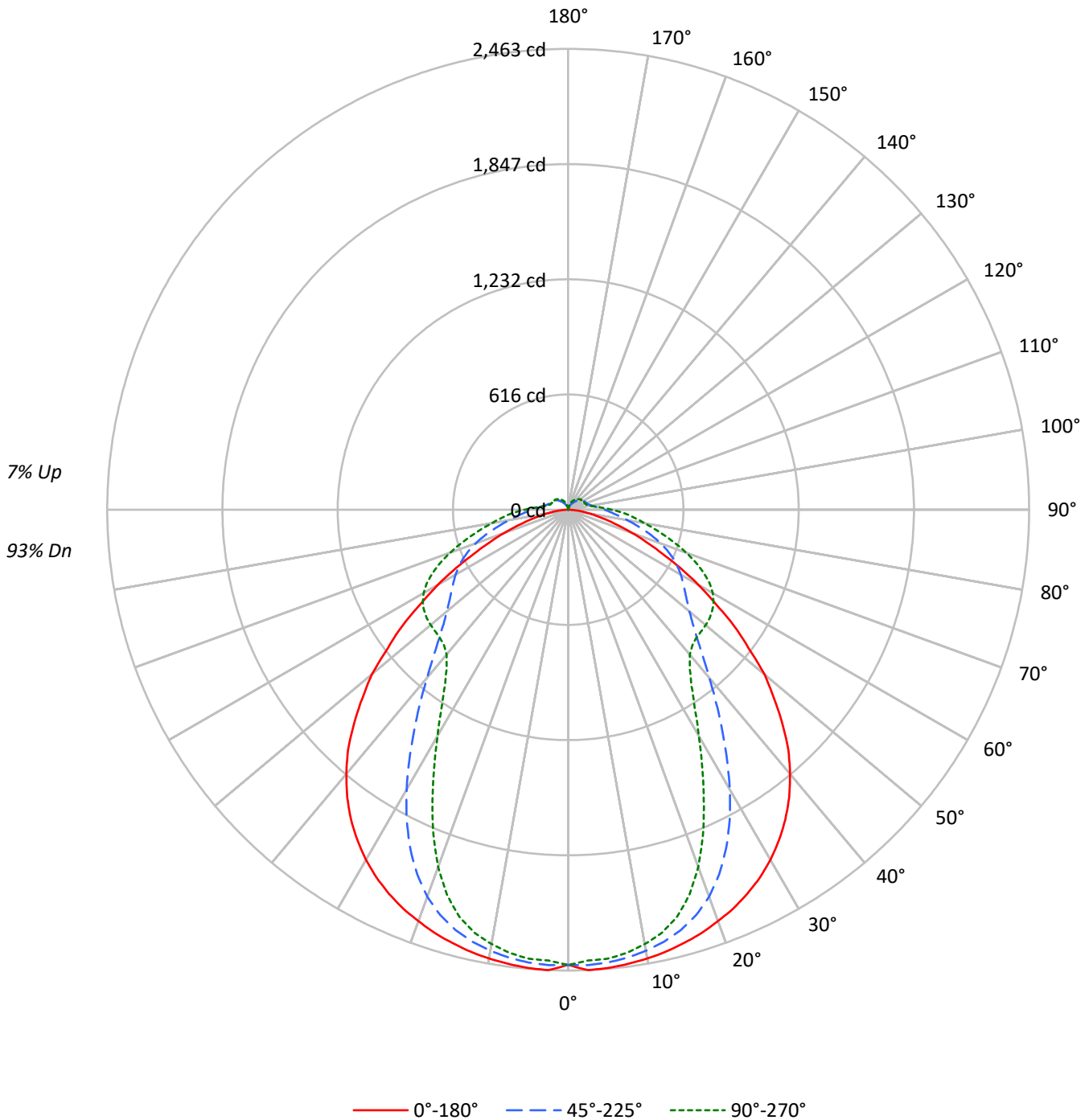
Lumens per Lamp: N/A
Luminaire Lumens: 6118.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 55
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#

CATALOG NUMBER: 8SNLED-LD5-75SL-SLN-UNV-L930-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 | 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° | 9830 | 9830 | 9830 |
| 5° | 9956 | 9622 | 9462 |
| 10° | 9967 | 9364 | 9073 |
| 15° | 9984 | 9059 | 8555 |
| 20° | 10003 | 8599 | 7683 |
| 25° | 10023 | 7887 | 6506 |
| 30° | 9992 | 6946 | 5351 |
| 35° | 9868 | 5916 | 4485 |
| 40° | 9600 | 5015 | 4054 |
| 45° | 9113 | 4364 | 4024 |
| 50° | 8443 | 3994 | 4165 |
| 55° | 7460 | 3844 | 4310 |
| 60° | 6322 | 3796 | 4370 |
| 65° | 5115 | 3719 | 4234 |
| 70° | 4144 | 3535 | 3905 |
| 75° | 3166 | 3209 | 3465 |
| 80° | 2396 | 2893 | 3082 |
| 85° | 1703 | 2745 | 2835 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-75SL-SLN-UNV-L930-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 230.2 | 3.8 |
| 10°-20° | 650.5 | 10.6 |
| 20°-30° | 909.4 | 14.9 |
| 30°-40° | 943.3 | 15.4 |
| 40°-50° | 871.4 | 14.2 |
| 50°-60° | 778.0 | 12.7 |
| 60°-70° | 630.5 | 10.3 |
| 70°-80° | 419.4 | 6.9 |
| 80°-90° | 240.2 | 3.9 |
| 90°-100° | 132.9 | 2.2 |
| 100°-110° | 90.0 | 1.5 |
| 110°-120° | 74.9 | 1.2 |
| 120°-130° | 60.9 | 1.0 |
| 130°-140° | 43.9 | 0.7 |
| 140°-150° | 26.5 | 0.4 |
| 150°-160° | 12.7 | 0.2 |
| 160°-170° | 3.3 | 0.1 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1790.1 | 29.3 |
| 0°-40° | 2733.4 | 44.7 |
| 0°-60° | 4382.8 | 71.6 |
| 0°-90° | 5672.9 | 92.7 |
| 90°-120° | 297.8 | 4.9 |
| 90°-150° | 429.1 | 7.0 |
| 90°-180° | 445.0 | 7.3 |
| 0°-180° | 6118.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2433 | 2433 | 2433 | 2433 | 2433 | |
| 5° | 2458 | 2417 | 2430 | 2413 | 2410 | 234 |
| 15° | 2397 | 2346 | 2326 | 2273 | 2251 | 677 |
| 25° | 2265 | 2164 | 1997 | 1788 | 1715 | 1044 |
| 35° | 2022 | 1800 | 1432 | 1202 | 1148 | 1262 |
| 45° | 1620 | 1284 | 975 | 940 | 968 | 1245 |
| 55° | 1083 | 818 | 761 | 885 | 940 | 963 |
| 65° | 553 | 495 | 620 | 759 | 799 | 559 |
| 75° | 215 | 268 | 418 | 512 | 533 | 235 |
| 85° | 43 | 125 | 246 | 315 | 324 | 50 |
| 90° | 2 | 88 | 194 | 235 | 233 | 3 |
| 95° | 2 | 74 | 154 | 165 | 160 | 2 |
| 105° | 1 | 64 | 111 | 108 | 103 | 1 |
| 115° | 1 | 58 | 98 | 97 | 94 | 1 |
| 125° | 1 | 50 | 87 | 91 | 89 | 1 |
| 135° | 2 | 37 | 69 | 80 | 80 | 2 |
| 145° | 2 | 23 | 48 | 62 | 67 | 1 |
| 155° | 2 | 15 | 30 | 39 | 48 | 1 |
| 165° | 2 | 8 | 15 | 19 | 25 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-75SL-SLN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2432.8 | 2432.8 | 2432.8 | 2432.8 | 2432.8 |
| 2.5° | 2463.4 | 2423.2 | 2435.9 | 2425.4 | 2411.6 |
| 5° | 2458.1 | 2416.9 | 2429.6 | 2412.7 | 2409.5 |
| 7.5° | 2448.6 | 2407.4 | 2414.8 | 2394.7 | 2389.4 |
| 10° | 2435.9 | 2392.6 | 2393.6 | 2365.1 | 2357.7 |
| 12.5° | 2419.0 | 2371.4 | 2365.1 | 2326.0 | 2315.4 |
| 15° | 2396.8 | 2346.1 | 2326.0 | 2273.1 | 2250.9 |
| 17.5° | 2372.5 | 2313.3 | 2272.1 | 2190.6 | 2155.8 |
| 20° | 2339.7 | 2273.1 | 2201.2 | 2077.5 | 2031.0 |
| 22.5° | 2306.9 | 2224.5 | 2109.2 | 1944.3 | 1881.9 |
| 25° | 2264.7 | 2164.2 | 1997.2 | 1787.8 | 1714.9 |
| 27.5° | 2217.1 | 2093.4 | 1868.2 | 1627.1 | 1548.9 |
| 30° | 2161.0 | 2007.7 | 1726.5 | 1469.6 | 1395.6 |
| 32.5° | 2095.5 | 1911.5 | 1577.4 | 1327.9 | 1259.2 |
| 35° | 2022.5 | 1800.5 | 1431.5 | 1202.1 | 1148.2 |
| 37.5° | 1939.0 | 1678.9 | 1296.2 | 1100.6 | 1065.7 |
| 40° | 1843.9 | 1546.8 | 1171.4 | 1022.4 | 1010.7 |
| 42.5° | 1741.3 | 1417.8 | 1064.7 | 971.6 | 982.2 |
| 45° | 1619.7 | 1283.5 | 974.8 | 939.9 | 968.5 |
| 47.5° | 1491.8 | 1152.4 | 901.8 | 921.9 | 963.2 |
| 50° | 1368.1 | 1030.8 | 844.8 | 910.3 | 958.9 |
| 52.5° | 1214.8 | 921.9 | 799.3 | 899.7 | 952.6 |
| 55° | 1082.6 | 818.3 | 761.2 | 884.9 | 939.9 |
| 57.5° | 930.4 | 725.3 | 727.4 | 865.9 | 920.9 |
| 60° | 803.5 | 640.7 | 694.6 | 839.5 | 892.3 |
| 62.5° | 674.5 | 564.6 | 658.7 | 804.6 | 852.2 |
| 65° | 552.9 | 494.8 | 619.6 | 759.1 | 799.3 |
| 67.5° | 451.5 | 431.4 | 575.2 | 704.1 | 738.0 |
| 70° | 365.8 | 373.2 | 526.5 | 642.8 | 671.4 |
| 72.5° | 281.2 | 319.3 | 473.7 | 577.3 | 601.6 |
| 75° | 214.6 | 268.5 | 417.6 | 511.7 | 532.9 |
| 77.5° | 158.6 | 224.1 | 366.9 | 452.5 | 470.5 |
| 80° | 112.1 | 185.0 | 319.3 | 400.7 | 414.4 |
| 82.5° | 75.1 | 152.2 | 280.2 | 354.2 | 366.9 |
| 85° | 43.3 | 124.8 | 246.3 | 315.1 | 323.5 |
| 87.5° | 18.0 | 103.6 | 218.9 | 274.9 | 279.1 |
| 90° | 2.1 | 87.8 | 194.5 | 234.7 | 232.6 |
| 92.5° | 2.1 | 79.3 | 173.4 | 196.7 | 191.4 |
| 95° | 2.1 | 74.0 | 154.4 | 164.9 | 159.6 |
| 97.5° | 2.1 | 70.8 | 137.4 | 141.7 | 136.4 |
| 100° | 1.1 | 68.7 | 125.8 | 125.8 | 120.5 |
| 102.5° | 1.1 | 66.6 | 117.4 | 114.2 | 110.0 |
| 105° | 1.1 | 64.5 | 111.0 | 107.8 | 102.6 |
| 107.5° | 1.1 | 63.4 | 106.8 | 103.6 | 98.3 |
| 110° | 1.1 | 61.3 | 103.6 | 100.4 | 96.2 |



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-75SL-SLN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|------|
| 112.5° | 1.1 | 60.3 | 101.5 | 99.4 | 94.1 |
| 115° | 1.1 | 58.1 | 98.3 | 97.3 | 94.1 |
| 117.5° | 1.1 | 56.0 | 96.2 | 96.2 | 93.0 |
| 120° | 1.1 | 53.9 | 93.0 | 95.2 | 92.0 |
| 122.5° | 1.1 | 51.8 | 89.9 | 93.0 | 89.9 |
| 125° | 1.1 | 49.7 | 86.7 | 90.9 | 88.8 |
| 127.5° | 2.1 | 46.5 | 82.5 | 88.8 | 86.7 |
| 130° | 1.1 | 43.3 | 78.2 | 86.7 | 85.6 |
| 132.5° | 2.1 | 40.2 | 74.0 | 83.5 | 83.5 |
| 135° | 2.1 | 37.0 | 68.7 | 80.4 | 80.4 |
| 137.5° | 2.1 | 32.8 | 63.4 | 76.1 | 77.2 |
| 140° | 2.1 | 29.6 | 58.1 | 71.9 | 74.0 |
| 142.5° | 2.1 | 26.4 | 52.9 | 67.7 | 70.8 |
| 145° | 2.1 | 23.3 | 47.6 | 62.4 | 66.6 |
| 147.5° | 2.1 | 21.1 | 42.3 | 56.0 | 62.4 |
| 150° | 2.1 | 18.0 | 38.1 | 50.7 | 57.1 |
| 152.5° | 2.1 | 15.9 | 33.8 | 45.5 | 52.9 |
| 155° | 2.1 | 14.8 | 29.6 | 39.1 | 47.6 |
| 157.5° | 2.1 | 12.7 | 25.4 | 33.8 | 42.3 |
| 160° | 2.1 | 10.6 | 21.1 | 29.6 | 35.9 |
| 162.5° | 2.1 | 9.5 | 18.0 | 24.3 | 31.7 |
| 165° | 2.1 | 8.5 | 14.8 | 19.0 | 25.4 |
| 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)