

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-LD5-40SL-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 (P27410)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-40SL-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

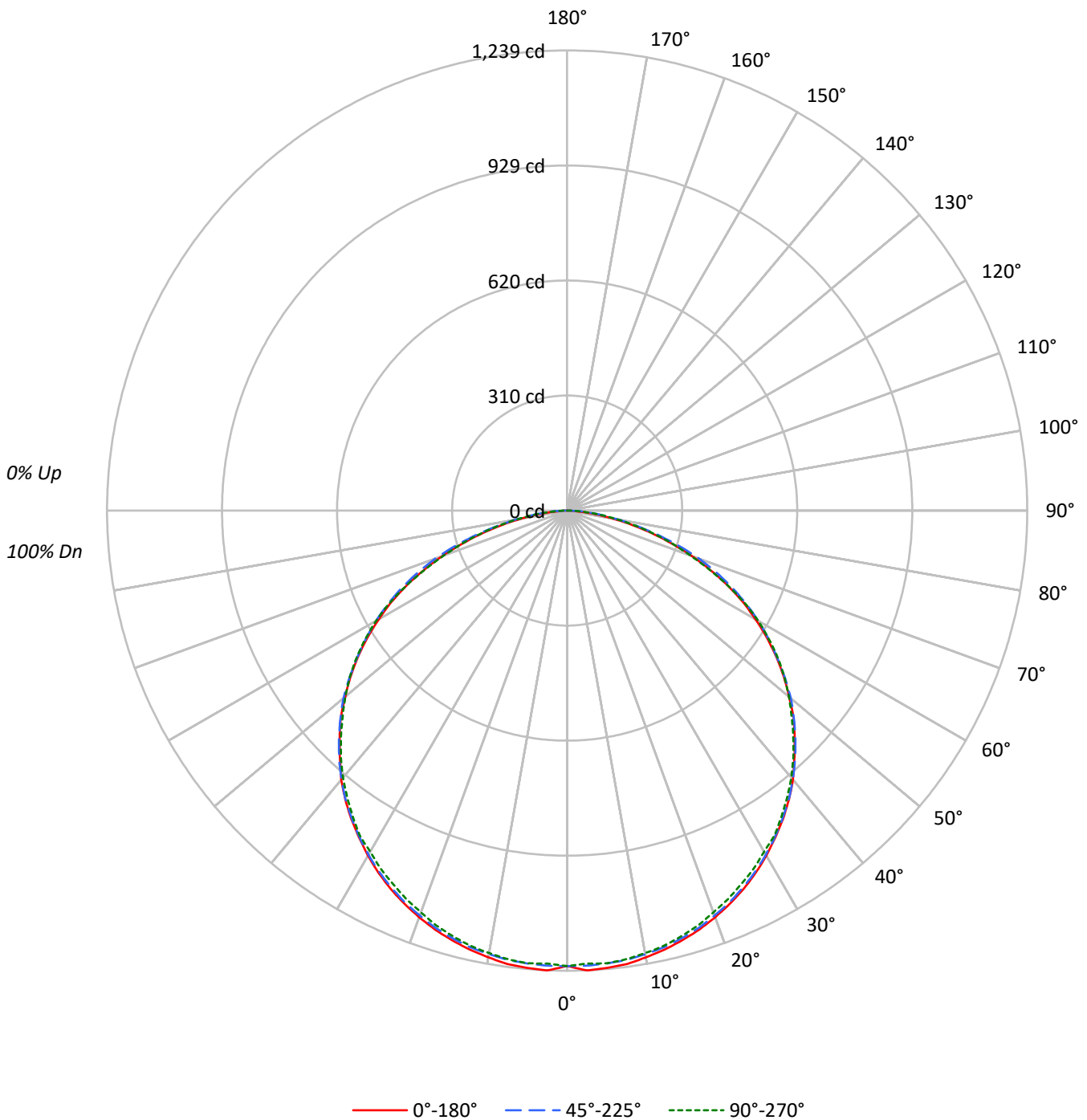
Lumens per Lamp: N/A
Luminaire Lumens: 3679.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 96 | 106 | 101 | 98 | 94 | 97 | 94 | 91 | | 93 | 91 | 88 | | 90 | 88 | 86 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | | 81 | 77 | 73 | | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | | 72 | 66 | 61 | | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | | 64 | 57 | 52 | | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | | 57 | 50 | 45 | | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | | 51 | 45 | 39 | | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | | 47 | 40 | 35 | | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | | 43 | 36 | 31 | | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | | 39 | 33 | 28 | | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | | 36 | 30 | 25 | | 36 | 30 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|------|------|
| 0° | 9911 | 9911 | 9911 |
| 5° | 10001 | 9685 | 9608 |
| 10° | 9968 | 9472 | 9312 |
| 15° | 9936 | 9260 | 9020 |
| 20° | 9908 | 9033 | 8709 |
| 25° | 9880 | 8805 | 8419 |
| 30° | 9832 | 8560 | 8133 |
| 35° | 9782 | 8306 | 7859 |
| 40° | 9724 | 8035 | 7530 |
| 45° | 9601 | 7712 | 7153 |
| 50° | 9454 | 7361 | 6770 |
| 55° | 9274 | 6891 | 6357 |
| 60° | 8974 | 6414 | 5817 |
| 65° | 8537 | 5793 | 5059 |
| 70° | 7781 | 4979 | 4102 |
| 75° | 6607 | 3800 | 3154 |
| 80° | 4937 | 2501 | 2067 |
| 85° | 2548 | 1218 | 924 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.4 | 3.2 |
| 10°-20° | 335.7 | 9.1 |
| 20°-30° | 513.8 | 14.0 |
| 30°-40° | 629.6 | 17.1 |
| 40°-50° | 665.9 | 18.1 |
| 50°-60° | 614.6 | 16.7 |
| 60°-70° | 474.4 | 12.9 |
| 70°-80° | 263.3 | 7.2 |
| 80°-90° | 65.2 | 1.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 965.9 | 26.3 |
| 0°-40° | 1595.5 | 43.4 |
| 0°-60° | 2876.0 | 78.2 |
| 0°-90° | 3679.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3679.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1226 | 1226 | 1226 | 1226 | 1226 | |
| 5° | 1236 | 1220 | 1224 | 1221 | 1223 | 118 |
| 15° | 1198 | 1184 | 1192 | 1188 | 1187 | 338 |
| 25° | 1124 | 1111 | 1120 | 1110 | 1110 | 518 |
| 35° | 1013 | 1002 | 1012 | 1000 | 1006 | 634 |
| 45° | 866 | 858 | 869 | 860 | 861 | 669 |
| 55° | 688 | 682 | 690 | 689 | 693 | 614 |
| 65° | 476 | 472 | 490 | 487 | 478 | 470 |
| 75° | 236 | 250 | 252 | 252 | 242 | 251 |
| 85° | 37 | 55 | 56 | 57 | 53 | 50 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-40SL-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 |
| 2.5° | 1239.3 | 1223.3 | 1226.4 | 1224.6 | 1220.9 |
| 5° | 1236.2 | 1220.3 | 1224.0 | 1220.9 | 1223.3 |
| 7.5° | 1231.3 | 1214.2 | 1220.3 | 1216.0 | 1218.4 |
| 10° | 1221.5 | 1206.8 | 1212.9 | 1208.0 | 1209.9 |
| 12.5° | 1211.1 | 1195.8 | 1204.4 | 1198.2 | 1200.7 |
| 15° | 1197.6 | 1183.5 | 1192.1 | 1187.8 | 1186.6 |
| 17.5° | 1182.9 | 1169.5 | 1178.0 | 1173.1 | 1171.3 |
| 20° | 1165.2 | 1152.3 | 1160.3 | 1152.9 | 1151.1 |
| 22.5° | 1145.6 | 1132.7 | 1141.9 | 1131.5 | 1132.1 |
| 25° | 1124.2 | 1110.7 | 1119.9 | 1110.1 | 1109.5 |
| 27.5° | 1099.7 | 1086.8 | 1096.6 | 1086.2 | 1087.4 |
| 30° | 1072.7 | 1059.9 | 1069.7 | 1059.3 | 1060.5 |
| 32.5° | 1043.3 | 1032.9 | 1041.5 | 1031.7 | 1038.4 |
| 35° | 1013.3 | 1002.3 | 1011.5 | 1000.5 | 1006.0 |
| 37.5° | 980.9 | 970.5 | 980.3 | 968.0 | 972.9 |
| 40° | 946.0 | 936.8 | 945.4 | 934.3 | 938.6 |
| 42.5° | 905.6 | 900.1 | 908.6 | 897.6 | 901.3 |
| 45° | 866.4 | 858.4 | 868.8 | 859.6 | 860.9 |
| 47.5° | 827.2 | 818.6 | 828.4 | 820.5 | 819.8 |
| 50° | 780.0 | 777.0 | 786.2 | 780.0 | 779.4 |
| 52.5° | 735.4 | 729.2 | 739.0 | 736.0 | 737.8 |
| 55° | 687.6 | 682.1 | 690.0 | 689.4 | 693.1 |
| 57.5° | 638.0 | 632.5 | 642.9 | 641.7 | 644.7 |
| 60° | 585.3 | 581.1 | 594.5 | 591.5 | 593.9 |
| 62.5° | 533.9 | 526.0 | 543.1 | 540.6 | 539.4 |
| 65° | 476.4 | 471.5 | 489.8 | 486.8 | 477.6 |
| 67.5° | 417.0 | 415.1 | 434.1 | 428.0 | 412.7 |
| 70° | 357.6 | 358.8 | 377.2 | 365.5 | 352.7 |
| 72.5° | 295.1 | 304.3 | 315.3 | 306.8 | 297.6 |
| 75° | 236.3 | 250.4 | 252.3 | 251.6 | 242.5 |
| 77.5° | 178.8 | 196.5 | 192.3 | 196.5 | 189.2 |
| 80° | 124.9 | 144.5 | 141.4 | 145.1 | 139.0 |
| 82.5° | 77.1 | 94.9 | 95.5 | 98.0 | 92.5 |
| 85° | 37.3 | 55.1 | 56.3 | 56.9 | 52.7 |
| 87.5° | 8.0 | 25.7 | 26.3 | 24.5 | 21.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)