

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-LD5-34HL-SLC-UNV-L940-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: 2SNLED-LD5-34HL-SLC-UNV-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

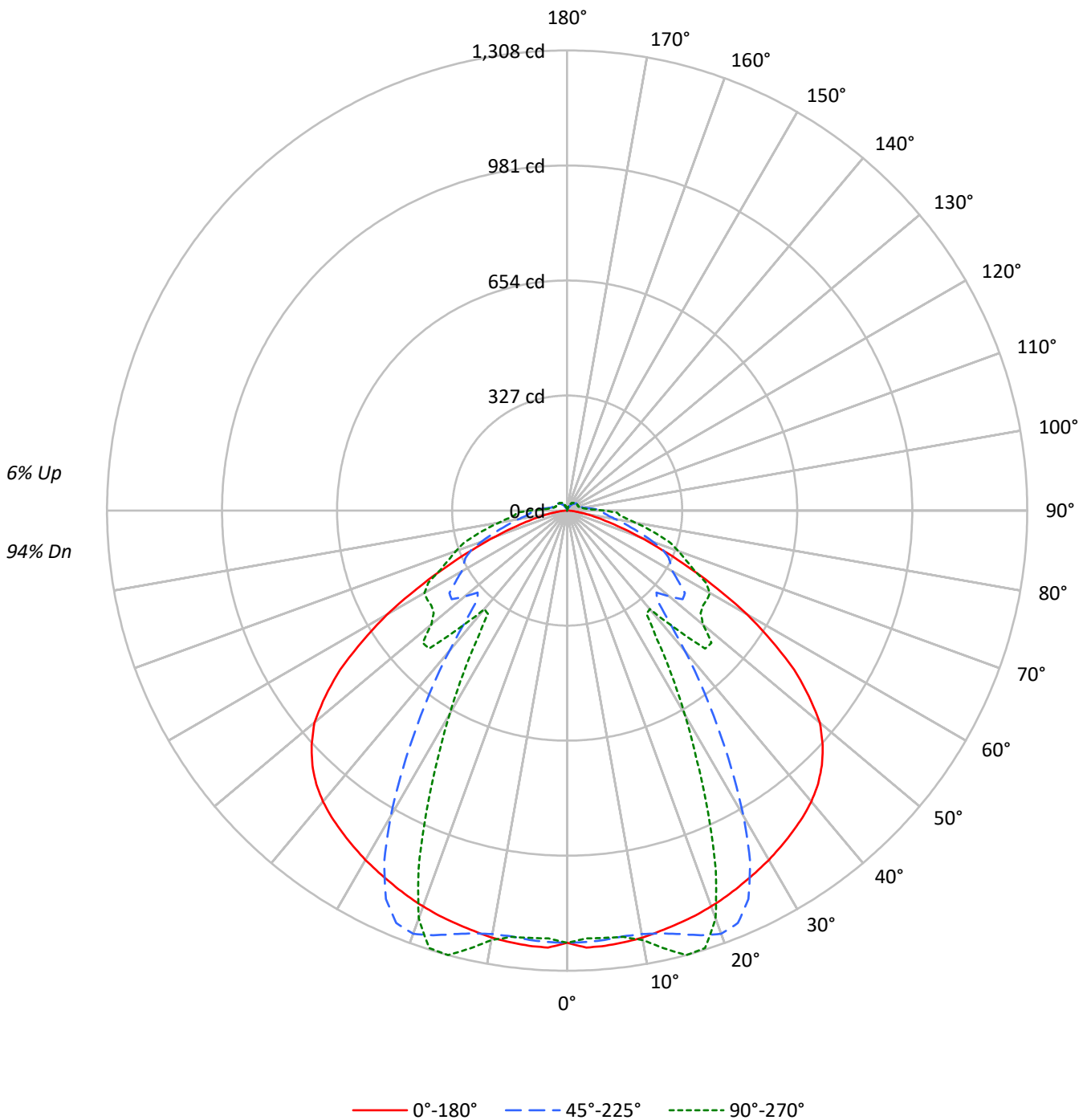
Lumens per Lamp: N/A
Luminaire Lumens: 3155.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 27
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#
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Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-SLC-UNV-L940-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 | 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 | 64 | 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° | 19850 | 19850 | 19850 |
| 5° | 20037 | 19348 | 19148 |
| 10° | 20008 | 19020 | 19081 |
| 15° | 20006 | 19254 | 19887 |
| 20° | 20133 | 19792 | 18667 |
| 25° | 20322 | 18986 | 14374 |
| 30° | 20655 | 15873 | 10224 |
| 35° | 21090 | 11999 | 6923 |
| 40° | 21646 | 8705 | 5863 |
| 45° | 22035 | 6300 | 9217 |
| 50° | 21947 | 6961 | 8747 |
| 55° | 20379 | 7989 | 8636 |
| 60° | 17223 | 7286 | 9181 |
| 65° | 12815 | 7322 | 8399 |
| 70° | 8860 | 6636 | 7816 |
| 75° | 5671 | 5527 | 7015 |
| 80° | 3477 | 4701 | 5839 |
| 85° | 1709 | 4420 | 5240 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-SLC-UNV-L940-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.8 | 3.7 |
| 10°-20° | 352.9 | 11.2 |
| 20°-30° | 512.6 | 16.2 |
| 30°-40° | 489.8 | 15.5 |
| 40°-50° | 448.0 | 14.2 |
| 50°-60° | 413.7 | 13.1 |
| 60°-70° | 328.6 | 10.4 |
| 70°-80° | 202.8 | 6.4 |
| 80°-90° | 110.4 | 3.5 |
| 90°-100° | 55.8 | 1.8 |
| 100°-110° | 35.1 | 1.1 |
| 110°-120° | 29.7 | 0.9 |
| 120°-130° | 24.3 | 0.8 |
| 130°-140° | 17.4 | 0.6 |
| 140°-150° | 10.7 | 0.3 |
| 150°-160° | 5.1 | 0.2 |
| 160°-170° | 1.3 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 982.3 | 31.1 |
| 0°-40° | 1472.1 | 46.7 |
| 0°-60° | 2333.8 | 74.0 |
| 0°-90° | 2975.6 | 94.3 |
| 90°-120° | 120.6 | 3.8 |
| 90°-150° | 173.0 | 5.5 |
| 90°-180° | 179.0 | 5.7 |
| 0°-180° | 3155.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1228 | 1228 | 1228 | 1228 | 1228 | |
| 5° | 1242 | 1223 | 1225 | 1218 | 1219 | 118 |
| 15° | 1216 | 1199 | 1246 | 1292 | 1308 | 344 |
| 25° | 1173 | 1196 | 1218 | 1031 | 947 | 542 |
| 35° | 1116 | 1098 | 740 | 509 | 443 | 700 |
| 45° | 1024 | 714 | 361 | 460 | 555 | 787 |
| 55° | 788 | 366 | 409 | 440 | 471 | 694 |
| 65° | 380 | 238 | 319 | 387 | 396 | 384 |
| 75° | 112 | 127 | 191 | 253 | 270 | 127 |
| 85° | 16 | 54 | 108 | 147 | 150 | 20 |
| 90° | 0 | 40 | 97 | 115 | 106 | 1 |
| 95° | 0 | 38 | 67 | 59 | 56 | 0 |
| 105° | 0 | 34 | 41 | 38 | 37 | 0 |
| 115° | 0 | 28 | 40 | 35 | 34 | 0 |
| 125° | 0 | 22 | 35 | 34 | 33 | 0 |
| 135° | 0 | 16 | 28 | 31 | 30 | 0 |
| 145° | 0 | 10 | 20 | 25 | 27 | 0 |
| 155° | 1 | 6 | 12 | 16 | 19 | 0 |
| 165° | 1 | 3 | 6 | 8 | 10 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-SLC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1228.2 | 1228.2 | 1228.2 | 1228.2 | 1228.2 |
| 2.5° | 1243.4 | 1225.5 | 1227.7 | 1223.9 | 1217.3 |
| 5° | 1241.8 | 1222.8 | 1224.9 | 1218.4 | 1219.0 |
| 7.5° | 1237.5 | 1217.9 | 1220.6 | 1219.5 | 1222.2 |
| 10° | 1232.6 | 1211.9 | 1222.2 | 1231.5 | 1239.6 |
| 12.5° | 1223.9 | 1205.4 | 1230.4 | 1257.6 | 1274.4 |
| 15° | 1215.7 | 1199.4 | 1246.2 | 1292.4 | 1308.1 |
| 17.5° | 1207.6 | 1197.2 | 1265.7 | 1306.0 | 1303.8 |
| 20° | 1197.2 | 1196.1 | 1280.4 | 1266.8 | 1233.6 |
| 22.5° | 1185.8 | 1196.7 | 1269.0 | 1169.5 | 1104.2 |
| 25° | 1172.8 | 1195.6 | 1218.4 | 1031.4 | 947.1 |
| 27.5° | 1159.7 | 1190.7 | 1126.5 | 880.2 | 797.1 |
| 30° | 1146.7 | 1177.6 | 1002.6 | 742.1 | 666.6 |
| 32.5° | 1131.4 | 1149.4 | 867.7 | 619.8 | 550.2 |
| 35° | 1115.7 | 1097.7 | 740.0 | 509.4 | 443.1 |
| 37.5° | 1099.4 | 1023.2 | 625.3 | 412.7 | 370.3 |
| 40° | 1079.8 | 929.7 | 519.8 | 353.9 | 365.4 |
| 42.5° | 1055.3 | 824.2 | 426.8 | 371.3 | 450.7 |
| 45° | 1024.3 | 714.4 | 361.0 | 460.5 | 554.6 |
| 47.5° | 985.2 | 608.9 | 344.7 | 527.4 | 556.7 |
| 50° | 937.9 | 512.2 | 379.0 | 505.6 | 503.5 |
| 52.5° | 866.1 | 431.7 | 413.8 | 461.1 | 478.5 |
| 55° | 787.8 | 366.5 | 408.9 | 439.9 | 470.8 |
| 57.5° | 688.9 | 322.4 | 375.2 | 435.5 | 471.4 |
| 60° | 590.5 | 293.1 | 346.3 | 435.0 | 468.7 |
| 62.5° | 481.7 | 266.4 | 331.7 | 424.6 | 444.7 |
| 65° | 380.0 | 237.6 | 318.6 | 387.1 | 396.4 |
| 67.5° | 291.4 | 208.2 | 295.8 | 345.2 | 363.7 |
| 70° | 219.7 | 179.4 | 259.9 | 313.2 | 336.0 |
| 72.5° | 158.2 | 152.2 | 222.9 | 284.9 | 308.8 |
| 75° | 112.0 | 126.7 | 190.8 | 252.8 | 269.7 |
| 77.5° | 77.2 | 103.3 | 163.7 | 217.5 | 231.1 |
| 80° | 50.6 | 82.6 | 139.2 | 187.0 | 196.3 |
| 82.5° | 30.4 | 66.3 | 120.7 | 163.7 | 168.5 |
| 85° | 15.8 | 53.8 | 108.2 | 147.3 | 149.5 |
| 87.5° | 4.9 | 45.1 | 101.1 | 139.7 | 142.4 |
| 90° | 0.5 | 40.2 | 96.8 | 114.7 | 106.0 |
| 92.5° | 0.0 | 38.1 | 83.7 | 78.3 | 70.1 |
| 95° | 0.0 | 37.5 | 66.9 | 59.3 | 56.0 |
| 97.5° | 0.0 | 36.4 | 54.9 | 49.5 | 47.8 |
| 100° | 0.0 | 35.3 | 47.3 | 43.5 | 43.0 |
| 102.5° | 0.0 | 34.8 | 43.0 | 39.7 | 39.1 |
| 105° | 0.0 | 33.7 | 41.3 | 37.5 | 37.0 |
| 107.5° | 0.0 | 32.1 | 40.2 | 36.4 | 35.3 |
| 110° | 0.0 | 30.4 | 40.2 | 35.9 | 34.3 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-34HL-SLC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 28.8 | 40.2 | 35.3 | 33.7 |
| 115° | 0.0 | 27.7 | 39.7 | 35.3 | 33.7 |
| 117.5° | 0.5 | 26.6 | 39.1 | 35.3 | 33.7 |
| 120° | 0.0 | 25.6 | 38.1 | 35.3 | 33.2 |
| 122.5° | 0.5 | 23.9 | 37.0 | 34.8 | 33.2 |
| 125° | 0.5 | 22.3 | 35.3 | 34.3 | 32.6 |
| 127.5° | 0.5 | 20.7 | 33.7 | 33.2 | 31.5 |
| 130° | 0.5 | 19.0 | 32.1 | 32.6 | 31.0 |
| 132.5° | 0.5 | 17.4 | 29.9 | 31.5 | 30.4 |
| 135° | 0.5 | 15.8 | 28.3 | 31.0 | 29.9 |
| 137.5° | 0.5 | 14.1 | 26.1 | 29.4 | 29.4 |
| 140° | 0.5 | 12.5 | 23.9 | 28.3 | 28.8 |
| 142.5° | 0.5 | 11.4 | 21.7 | 27.2 | 27.7 |
| 145° | 0.5 | 9.8 | 19.6 | 25.0 | 26.6 |
| 147.5° | 0.5 | 8.7 | 17.4 | 22.8 | 25.0 |
| 150° | 0.5 | 7.6 | 15.2 | 20.7 | 22.8 |
| 152.5° | 0.5 | 6.5 | 13.6 | 17.9 | 21.2 |
| 155° | 1.1 | 6.0 | 12.0 | 15.8 | 19.0 |
| 157.5° | 1.1 | 4.9 | 9.8 | 13.6 | 16.3 |
| 160° | 1.1 | 4.3 | 8.7 | 11.4 | 14.7 |
| 162.5° | 1.1 | 3.8 | 7.1 | 9.8 | 12.5 |
| 165° | 1.1 | 3.3 | 6.0 | 7.6 | 10.3 |
| 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)