

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: AMETRIX

Report Number: P189138

Luminaire Tested: A04-SI-A-1-LED-30K-D-120-S

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P189138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL87330-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: AMETRIX
Catalog Number: A04-SI-A-1-LED-30K-D-120-S
Description: ARROWLINEAR LED LUMINAIRE, EXTRA SMALL HOUSING
4-FOOT LONG EXTRUDED HOUSING WITH WHITE REFLECTOR AND FROSTED LENS
Light Source: (119) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

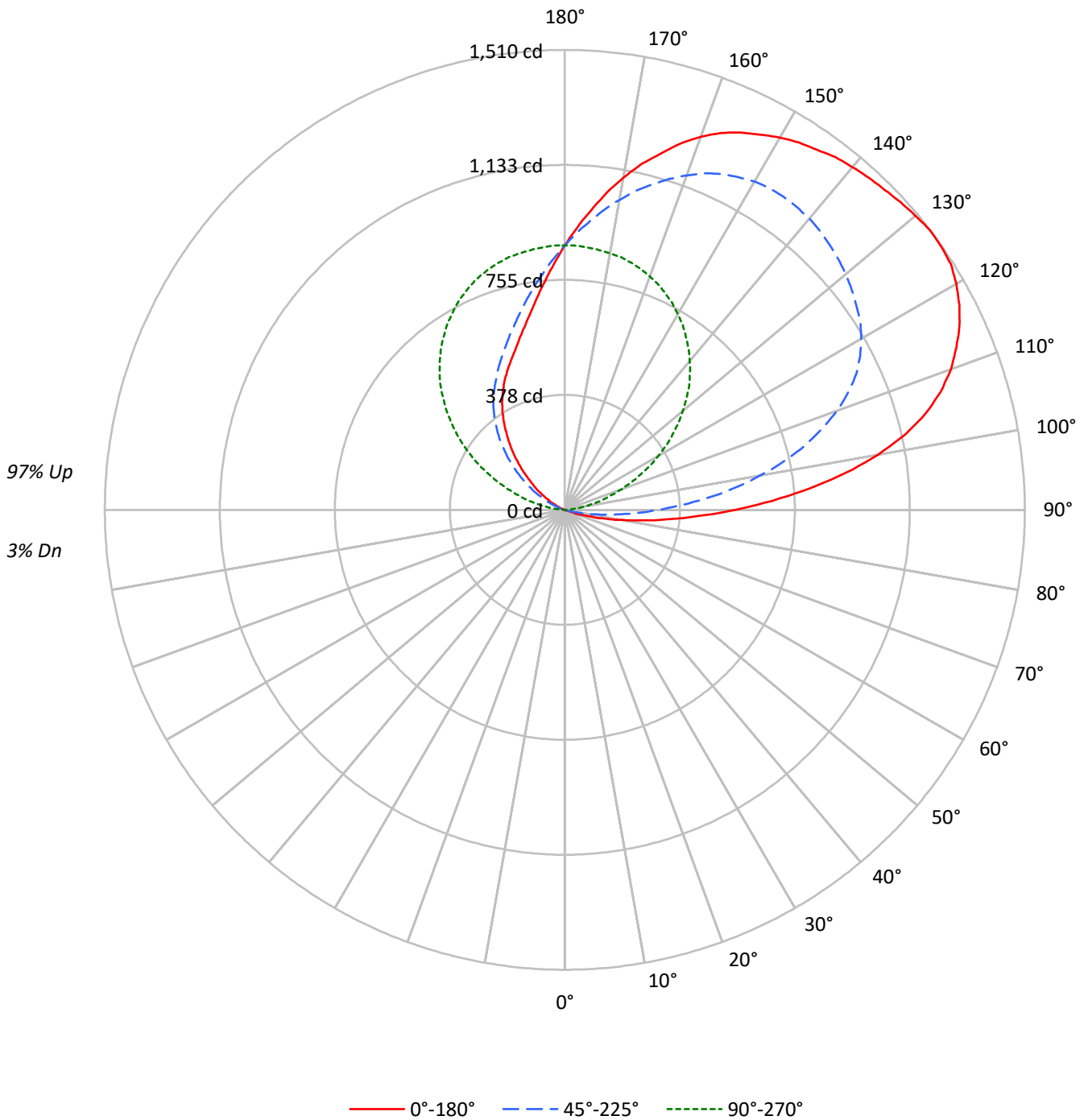
Lumens per Lamp: N/A
Luminaire Lumens: 3690.5 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 4.15' x L: 0.29' x H: 0.11')
CIE Type: Indirect

Input Watts (W): 40.5
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: 24 FT



TEST NUMBER: P189138
CATALOG NUMBER: A04-SI-A-1-LED-30K-D-120-S

Luminous Intensity Polar Plot





TEST NUMBER: P189138

CATALOG NUMBER: A04-SI-A-1-LED-30K-D-120-S

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 | 96 | 96 | 96 | 96 | 82 | 82 | 82 | 82 | 57 | 57 | 57 | 34 | 34 | 34 | 13 | 13 | 13 | 3 |
| 1 | 86 | 82 | 78 | 74 | 74 | 70 | 67 | 64 | 48 | 46 | 45 | 28 | 27 | 26 | 10 | 9 | 9 | 1 |
| 2 | 78 | 71 | 65 | 60 | 67 | 61 | 56 | 52 | 42 | 39 | 36 | 25 | 23 | 21 | 8 | 8 | 7 | 0 |
| 3 | 71 | 62 | 55 | 50 | 61 | 54 | 48 | 43 | 37 | 33 | 30 | 22 | 20 | 18 | 7 | 7 | 6 | 0 |
| 4 | 65 | 55 | 47 | 42 | 55 | 47 | 41 | 36 | 33 | 29 | 26 | 19 | 17 | 15 | 7 | 6 | 5 | 0 |
| 5 | 59 | 49 | 41 | 35 | 51 | 42 | 36 | 31 | 29 | 25 | 22 | 17 | 15 | 13 | 6 | 5 | 4 | 0 |
| 6 | 55 | 43 | 36 | 30 | 46 | 37 | 31 | 26 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 31 | 26 | 43 | 33 | 27 | 23 | 23 | 19 | 16 | 14 | 11 | 10 | 5 | 4 | 3 | 0 |
| 8 | 46 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 8 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 21 | 17 | 19 | 15 | 12 | 11 | 9 | 7 | 4 | 3 | 2 | 0 |
| 10 | 40 | 29 | 22 | 17 | 34 | 25 | 19 | 15 | 17 | 13 | 11 | 10 | 8 | 7 | 4 | 3 | 2 | 0 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|------|------|-----|------|------|
| 0° | 0 | 0 | 0 | 0 | 0 |
| 5° | 0 | 0 | 0 | 0 | 0 |
| 10° | 0 | 0 | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 | 0 | 0 |
| 20° | 0 | 0 | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 | 0 | 0 |
| 30° | 0 | 0 | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 | 0 | 0 |
| 40° | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 |
| 70° | 239 | 0 | 0 | 0 | 0 |
| 75° | 1230 | 187 | 0 | 0 | 0 |
| 80° | 3176 | 1429 | 0 | 0 | 0 |
| 85° | 6750 | 4166 | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 13230 cd/sqm



TEST NUMBER: P189138

CATALOG NUMBER: A04-SI-A-1-LED-30K-D-120-S

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.3 | 0.0 |
| 70°-80° | 18.4 | 0.5 |
| 80°-90° | 95.7 | 2.6 |
| 90°-100° | 247.6 | 6.7 |
| 100°-110° | 412.6 | 11.2 |
| 110°-120° | 525.4 | 14.2 |
| 120°-130° | 579.9 | 15.7 |
| 130°-140° | 573.0 | 15.5 |
| 140°-150° | 511.5 | 13.9 |
| 150°-160° | 396.8 | 10.8 |
| 160°-170° | 246.3 | 6.7 |
| 170°-180° | 82.9 | 2.2 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 114.4 | 3.1 |
| 90°-120° | 1185.6 | 32.1 |
| 90°-150° | 2850.0 | 77.2 |
| 90°-180° | 3576.0 | 96.9 |
| 0°-180° | 3690.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|-----|------|------|------|
| 0° | 0 | 0 | 0 | 0 | 0 | |
| 5° | 0 | 0 | 0 | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 2 |
| 75° | 85 | 11 | 0 | 0 | 0 | 99 |
| 85° | 349 | 172 | 0 | 0 | 0 | 254 |
| 90° | 558 | 308 | 0 | 0 | 0 | 308 |
| 95° | 807 | 478 | 22 | 2 | 2 | 708 |
| 105° | 1228 | 816 | 130 | 6 | 7 | 1285 |
| 115° | 1430 | 1055 | 274 | 59 | 22 | 1413 |
| 125° | 1508 | 1168 | 432 | 160 | 100 | 1348 |
| 135° | 1486 | 1230 | 577 | 284 | 213 | 1151 |
| 145° | 1443 | 1254 | 694 | 408 | 347 | 907 |
| 155° | 1367 | 1217 | 783 | 516 | 467 | 632 |
| 165° | 1209 | 1105 | 840 | 632 | 579 | 346 |
| 175° | 987 | 951 | 864 | 784 | 753 | 98 |
| 180° | 868 | 868 | 868 | 868 | 868 | |



TEST NUMBER: P189138

CATALOG NUMBER: A04-SI-A-1-LED-30K-D-120-S

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 18.5 | 20.4 | 14.8 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 46.4 | 46.4 | 38.9 | 26.0 | 9.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 85.3 | 85.3 | 76.0 | 59.3 | 35.2 | 11.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 133.5 | 131.7 | 120.6 | 100.1 | 70.5 | 37.1 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 192.9 | 191.0 | 178.0 | 152.1 | 116.8 | 72.3 | 27.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 263.4 | 261.5 | 244.8 | 215.1 | 172.5 | 118.7 | 59.3 | 13.0 | 0.0 | 0.0 | 0.0 |
| 85° | 348.7 | 346.8 | 326.4 | 291.2 | 241.1 | 172.5 | 98.3 | 38.9 | 3.7 | 0.0 | 0.0 |
| 87.5° | 447.0 | 439.5 | 421.0 | 378.3 | 313.4 | 235.5 | 146.5 | 70.5 | 16.7 | 0.0 | 0.0 |
| 90° | 558.2 | 550.8 | 528.6 | 478.5 | 400.6 | 307.9 | 204.0 | 109.4 | 38.9 | 3.7 | 0.0 |
| 92.5° | 680.6 | 678.8 | 645.4 | 586.1 | 495.2 | 387.6 | 270.8 | 155.8 | 68.6 | 18.5 | 7.4 |
| 95° | 806.8 | 804.9 | 767.8 | 699.2 | 597.2 | 478.5 | 339.4 | 207.7 | 105.7 | 40.8 | 22.3 |
| 97.5° | 931.0 | 929.2 | 882.8 | 812.3 | 699.2 | 567.5 | 413.6 | 265.2 | 146.5 | 68.6 | 44.5 |
| 100° | 1044.2 | 1040.4 | 992.2 | 918.0 | 799.3 | 652.8 | 487.8 | 322.7 | 189.2 | 98.3 | 68.6 |
| 102.5° | 1144.3 | 1136.9 | 1090.5 | 1012.6 | 892.1 | 738.1 | 560.1 | 382.1 | 237.4 | 133.5 | 98.3 |
| 105° | 1227.8 | 1218.5 | 1175.8 | 1096.1 | 971.8 | 816.0 | 632.4 | 443.3 | 285.6 | 170.6 | 129.8 |
| 107.5° | 1294.5 | 1287.1 | 1242.6 | 1166.6 | 1044.2 | 884.7 | 701.0 | 502.6 | 335.7 | 209.6 | 161.4 |
| 110° | 1348.3 | 1342.7 | 1301.9 | 1225.9 | 1105.4 | 951.4 | 764.1 | 562.0 | 387.6 | 252.2 | 198.4 |



TEST NUMBER: P189138

CATALOG NUMBER: A04-SI-A-1-LED-30K-D-120-S

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 112.5° | 1391.0 | 1387.3 | 1348.3 | 1272.3 | 1159.1 | 1007.1 | 819.7 | 617.6 | 437.7 | 294.9 | 235.5 |
| 115° | 1429.9 | 1426.2 | 1389.1 | 1316.8 | 1203.7 | 1055.3 | 871.7 | 671.4 | 489.6 | 337.5 | 274.5 |
| 117.5° | 1459.6 | 1455.9 | 1418.8 | 1348.3 | 1238.9 | 1092.4 | 914.3 | 721.4 | 543.4 | 382.1 | 315.3 |
| 120° | 1483.7 | 1478.1 | 1444.8 | 1376.1 | 1268.6 | 1123.9 | 951.4 | 769.7 | 593.5 | 426.6 | 354.2 |
| 122.5° | 1502.2 | 1496.7 | 1465.2 | 1394.7 | 1290.8 | 1149.9 | 986.7 | 816.0 | 641.7 | 469.2 | 395.0 |
| 125° | 1507.8 | 1504.1 | 1474.4 | 1404.0 | 1301.9 | 1168.4 | 1018.2 | 856.8 | 684.4 | 511.9 | 432.1 |
| 127.5° | 1509.7 | 1506.0 | 1476.3 | 1407.7 | 1311.2 | 1187.0 | 1046.0 | 893.9 | 725.2 | 550.8 | 469.2 |
| 130° | 1502.2 | 1502.2 | 1472.6 | 1407.7 | 1316.8 | 1203.7 | 1072.0 | 929.2 | 760.4 | 587.9 | 506.3 |
| 132.5° | 1494.8 | 1493.0 | 1467.0 | 1405.8 | 1322.3 | 1218.5 | 1096.1 | 958.8 | 793.8 | 623.2 | 541.6 |
| 135° | 1485.6 | 1485.6 | 1461.4 | 1405.8 | 1327.9 | 1229.6 | 1116.5 | 984.8 | 821.6 | 654.7 | 576.8 |
| 137.5° | 1478.1 | 1478.1 | 1455.9 | 1404.0 | 1331.6 | 1240.7 | 1135.0 | 1005.2 | 849.4 | 686.2 | 608.3 |
| 140° | 1468.9 | 1468.9 | 1446.6 | 1400.2 | 1333.5 | 1248.2 | 1146.2 | 1021.9 | 868.0 | 714.0 | 638.0 |
| 142.5° | 1459.6 | 1459.6 | 1437.3 | 1394.7 | 1333.5 | 1251.9 | 1157.3 | 1034.9 | 888.4 | 740.0 | 667.7 |
| 145° | 1442.9 | 1444.8 | 1426.2 | 1385.4 | 1327.9 | 1253.7 | 1161.0 | 1042.3 | 903.2 | 764.1 | 693.6 |
| 147.5° | 1429.9 | 1429.9 | 1413.2 | 1374.3 | 1320.5 | 1251.9 | 1161.0 | 1046.0 | 916.2 | 784.5 | 719.6 |
| 150° | 1411.4 | 1411.4 | 1394.7 | 1363.2 | 1313.1 | 1244.5 | 1159.1 | 1047.9 | 925.5 | 803.1 | 741.9 |
| 152.5° | 1389.1 | 1391.0 | 1374.3 | 1344.6 | 1296.4 | 1231.5 | 1148.0 | 1044.2 | 931.0 | 819.7 | 764.1 |
| 155° | 1366.9 | 1368.7 | 1353.9 | 1324.2 | 1277.8 | 1216.6 | 1136.9 | 1040.4 | 936.6 | 834.6 | 782.7 |
| 157.5° | 1339.0 | 1340.9 | 1326.1 | 1296.4 | 1253.7 | 1196.2 | 1118.3 | 1033.0 | 940.3 | 845.7 | 801.2 |
| 160° | 1303.8 | 1305.7 | 1289.0 | 1263.0 | 1222.2 | 1168.4 | 1099.8 | 1021.9 | 938.4 | 856.8 | 816.0 |
| 162.5° | 1261.1 | 1261.1 | 1248.2 | 1224.1 | 1185.1 | 1138.7 | 1077.5 | 1008.9 | 936.6 | 864.3 | 829.0 |
| 165° | 1209.2 | 1212.9 | 1201.8 | 1179.5 | 1146.2 | 1105.4 | 1051.6 | 992.2 | 931.0 | 869.8 | 840.1 |
| 167.5° | 1162.9 | 1161.0 | 1151.7 | 1135.0 | 1105.4 | 1072.0 | 1025.6 | 975.5 | 925.5 | 875.4 | 849.4 |
| 170° | 1107.2 | 1105.4 | 1097.9 | 1083.1 | 1060.8 | 1033.0 | 995.9 | 957.0 | 918.0 | 875.4 | 855.0 |
| 172.5° | 1049.7 | 1046.0 | 1040.4 | 1031.2 | 1014.5 | 994.1 | 966.3 | 936.6 | 906.9 | 875.4 | 860.5 |
| 175° | 986.7 | 986.7 | 983.0 | 975.5 | 964.4 | 951.4 | 932.9 | 912.5 | 893.9 | 873.5 | 864.3 |
| 177.5° | 927.3 | 927.3 | 925.5 | 921.7 | 916.2 | 910.6 | 901.3 | 892.1 | 882.8 | 871.7 | 868.0 |
| 180° | 868.0 | 868.0 | 868.0 | 868.0 | 868.0 | 868.0 | 868.0 | 868.0 | 868.0 | 868.0 | 868.0 |



TEST NUMBER: P189138

CATALOG NUMBER: A04-SI-A-1-LED-30K-D-120-S

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|--------|--------|------|--------|------|
| 0° | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 1.9 | 1.9 |
| 95° | 0.0 | 1.9 | 1.9 | 1.9 |
| 97.5° | 1.9 | 1.9 | 3.7 | 3.7 |
| 100° | 5.6 | 3.7 | 3.7 | 3.7 |
| 102.5° | 18.5 | 5.6 | 5.6 | 5.6 |
| 105° | 33.4 | 5.6 | 7.4 | 7.4 |
| 107.5° | 53.8 | 11.1 | 7.4 | 7.4 |
| 110° | 76.0 | 22.3 | 9.3 | 9.3 |

TEST NUMBER: P189138

CATALOG NUMBER: A04-SI-A-1-LED-30K-D-120-S

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|--------|--------|-------|--------|-------|
| 112.5° | 100.1 | 38.9 | 16.7 | 13.0 |
| 115° | 126.1 | 59.3 | 29.7 | 22.3 |
| 117.5° | 153.9 | 79.7 | 48.2 | 37.1 |
| 120° | 183.6 | 103.9 | 66.8 | 55.6 |
| 122.5° | 215.1 | 131.7 | 90.9 | 76.0 |
| 125° | 244.8 | 159.5 | 115.0 | 100.1 |
| 127.5° | 276.3 | 189.2 | 141.0 | 126.1 |
| 130° | 307.9 | 220.7 | 168.8 | 152.1 |
| 132.5° | 339.4 | 252.2 | 200.3 | 181.8 |
| 135° | 370.9 | 283.8 | 231.8 | 213.3 |
| 137.5° | 400.6 | 317.1 | 265.2 | 246.7 |
| 140° | 430.3 | 346.8 | 298.6 | 280.0 |
| 142.5° | 461.8 | 378.3 | 332.0 | 313.4 |
| 145° | 489.6 | 408.0 | 363.5 | 346.8 |
| 147.5° | 519.3 | 435.8 | 396.9 | 380.2 |
| 150° | 547.1 | 461.8 | 426.6 | 411.7 |
| 152.5° | 574.9 | 487.8 | 452.5 | 439.5 |
| 155° | 604.6 | 515.6 | 478.5 | 467.4 |
| 157.5° | 632.4 | 541.6 | 504.5 | 493.3 |
| 160° | 660.2 | 569.4 | 532.3 | 519.3 |
| 162.5° | 688.1 | 600.9 | 560.1 | 547.1 |
| 165° | 717.7 | 632.4 | 591.6 | 578.6 |
| 167.5° | 743.7 | 667.7 | 626.9 | 613.9 |
| 170° | 769.7 | 704.8 | 667.7 | 654.7 |
| 172.5° | 793.8 | 743.7 | 714.0 | 701.0 |
| 175° | 817.9 | 784.5 | 762.3 | 753.0 |
| 177.5° | 843.9 | 827.2 | 812.3 | 808.6 |
| 180° | 868.0 | 868.0 | 868.0 | 868.0 |

(END OF REPORT)