

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: FAIL-SAFE

Report Number: P551375

Luminaire Tested: **FCC-X-2-LD4-2HI-40-UNV-93-88-ED1D-90**

Issue Date: 7/9/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P551375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FCC-X-2-LD4-2HI-40-UNV-93-88-ED1D-90
Description: FCC CORNER MOUNT LUMINAIRE WITH .156 CLEAR TEMPERED GLASS FIXTURE
SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES AND 4000K, AND 90 CRI
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

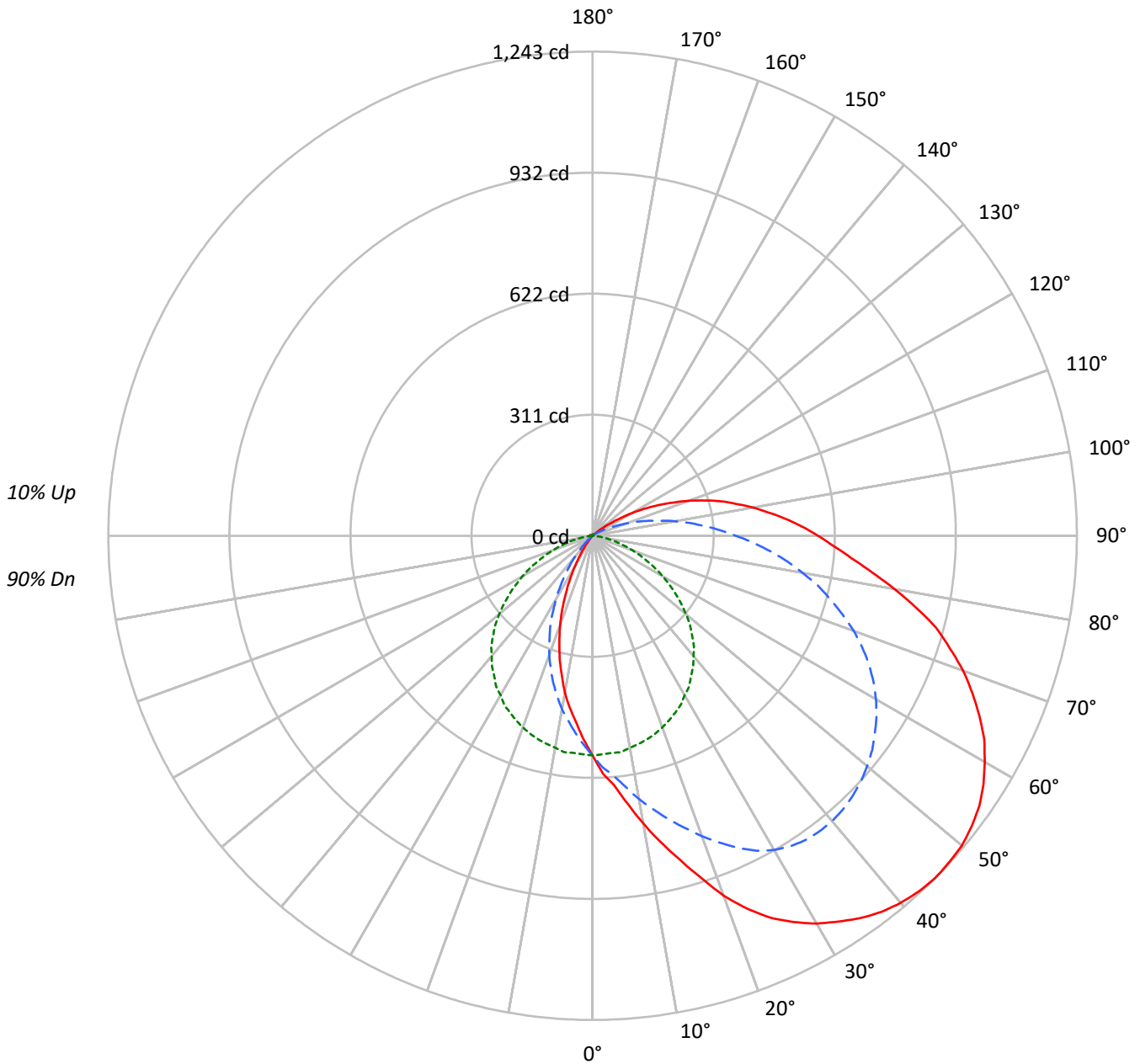
Lumens per Lamp: N/A
Luminaire Lumens: 2787.1 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 43.3
Input Voltage (V): NR
Input Current (A_{in}): 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: P551375

CATALOG NUMBER: FCC-X-2-LD4-2HI-40-UNV-93-88-ED1D-90

Luminous Intensity Polar Plot





TEST NUMBER: P551375

CATALOG NUMBER: FCC-X-2-LD4-2HI-40-UNV-93-88-ED1D-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 105 | 105 | 105 | 99 | 99 | 99 | 93 | 93 | 93 | 90 | | | | | | | | | | | | | | | | | | | |
| 1 | 103 | 96 | 91 | 86 | 99 | 93 | 88 | 83 | 87 | 83 | 79 | 81 | 78 | 74 | 76 | 73 | 70 | 67 | | | | | | | | | | | | | | | | | | | |
| 2 | 92 | 82 | 74 | 67 | 88 | 79 | 72 | 65 | 74 | 67 | 62 | 69 | 64 | 59 | 64 | 60 | 56 | 53 | | | | | | | | | | | | | | | | | | | |
| 3 | 83 | 71 | 61 | 54 | 79 | 68 | 60 | 53 | 64 | 56 | 50 | 59 | 53 | 48 | 55 | 50 | 46 | 43 | | | | | | | | | | | | | | | | | | | |
| 4 | 75 | 62 | 52 | 44 | 72 | 60 | 51 | 44 | 56 | 48 | 42 | 52 | 45 | 40 | 49 | 43 | 38 | 36 | | | | | | | | | | | | | | | | | | | |
| 5 | 69 | 55 | 45 | 38 | 66 | 53 | 44 | 37 | 50 | 42 | 35 | 46 | 39 | 34 | 43 | 38 | 33 | 30 | | | | | | | | | | | | | | | | | | | |
| 6 | 63 | 49 | 39 | 32 | 61 | 47 | 38 | 32 | 44 | 36 | 31 | 42 | 35 | 29 | 39 | 33 | 28 | 26 | | | | | | | | | | | | | | | | | | | |
| 7 | 58 | 44 | 35 | 28 | 56 | 43 | 34 | 28 | 40 | 32 | 27 | 38 | 31 | 26 | 36 | 29 | 25 | 23 | | | | | | | | | | | | | | | | | | | |
| 8 | 54 | 40 | 31 | 25 | 52 | 39 | 30 | 24 | 37 | 29 | 24 | 34 | 28 | 23 | 32 | 26 | 22 | 20 | | | | | | | | | | | | | | | | | | | |
| 9 | 51 | 36 | 28 | 22 | 49 | 35 | 27 | 22 | 33 | 26 | 21 | 32 | 25 | 20 | 30 | 24 | 20 | 18 | | | | | | | | | | | | | | | | | | | |
| 10 | 47 | 33 | 25 | 20 | 45 | 33 | 25 | 19 | 31 | 24 | 19 | 29 | 23 | 18 | 28 | 22 | 18 | 16 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 6068 | 6068 | 6068 |
| 5° | 6662 | 5979 | 4989 |
| 10° | 7538 | 5906 | 4111 |
| 15° | 8447 | 5831 | 3204 |
| 20° | 9527 | 5736 | 2360 |
| 25° | 10423 | 5626 | 1550 |
| 30° | 11089 | 5477 | 873 |
| 35° | 11666 | 5319 | 384 |
| 40° | 12177 | 5124 | 92 |
| 45° | 12615 | 4878 | 0 |
| 50° | 12984 | 4553 | 0 |
| 55° | 13264 | 4140 | 0 |
| 60° | 13406 | 3660 | 0 |
| 65° | 13461 | 3115 | 0 |
| 70° | 13416 | 2539 | 0 |
| 75° | 13246 | 1875 | 10 |
| 80° | 12709 | 1146 | 58 |
| 85° | 12284 | 549 | 79 |



TEST NUMBER: P551375

CATALOG NUMBER: FCC-X-2-LD4-2HI-40-UNV-93-88-ED1D-90

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.0 | 1.9 |
| 10°-20° | 161.7 | 5.8 |
| 20°-30° | 261.8 | 9.4 |
| 30°-40° | 336.3 | 12.1 |
| 40°-50° | 380.7 | 13.7 |
| 50°-60° | 394.5 | 14.2 |
| 60°-70° | 372.0 | 13.3 |
| 70°-80° | 311.7 | 11.2 |
| 80°-90° | 226.0 | 8.1 |
| 90°-100° | 148.5 | 5.3 |
| 100°-110° | 85.8 | 3.1 |
| 110°-120° | 37.9 | 1.4 |
| 120°-130° | 10.3 | 0.4 |
| 130°-140° | 2.4 | 0.1 |
| 140°-150° | 1.6 | 0.1 |
| 150°-160° | 1.1 | 0.0 |
| 160°-170° | 0.6 | 0.0 |
| 170°-180° | 0.2 | 0.0 |
| 0°-30° | 477.5 | 17.1 |
| 0°-40° | 813.9 | 29.2 |
| 0°-60° | 1589.1 | 57.0 |
| 0°-90° | 2498.8 | 89.7 |
| 90°-120° | 272.2 | 9.8 |
| 90°-150° | 286.4 | 10.3 |
| 90°-180° | 288.0 | 10.3 |
| 0°-180° | 2787.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|-----|-----|------|------|------|
| 0° | 564 | 564 | 564 | 564 | 564 | |
| 5° | 644 | 618 | 559 | 508 | 482 | 65 |
| 15° | 860 | 754 | 541 | 391 | 326 | 248 |
| 25° | 1082 | 884 | 501 | 257 | 161 | 500 |
| 35° | 1199 | 953 | 440 | 125 | 40 | 752 |
| 45° | 1243 | 944 | 360 | 29 | 0 | 960 |
| 55° | 1212 | 884 | 260 | 0 | 0 | 1082 |
| 65° | 1095 | 783 | 155 | 0 | 0 | 1084 |
| 75° | 913 | 632 | 66 | 1 | 1 | 957 |
| 85° | 668 | 458 | 11 | 3 | 4 | 570 |
| 90° | 579 | 367 | 3 | 4 | 5 | 317 |
| 95° | 497 | 287 | 1 | 5 | 6 | 390 |
| 105° | 342 | 148 | 1 | 4 | 6 | 361 |
| 115° | 186 | 49 | 2 | 2 | 4 | 186 |
| 125° | 55 | 7 | 3 | 2 | 3 | 55 |
| 135° | 3 | 2 | 4 | 3 | 2 | 5 |
| 145° | 1 | 3 | 3 | 2 | 2 | 1 |
| 155° | 1 | 3 | 3 | 2 | 1 | 1 |
| 165° | 1 | 2 | 3 | 2 | 0 | 0 |
| 175° | 1 | 3 | 4 | 2 | 1 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



TEST NUMBER: P551375

CATALOG NUMBER: FCC-X-2-LD4-2HI-40-UNV-93-88-ED1D-90

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 112.5° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| 0° | 563.7 | 563.7 | 563.7 | 563.7 | 563.7 | 563.7 | 563.7 | 563.7 | 563.7 | 563.7 | 563.7 |
| 2.5° | 611.1 | 610.4 | 608.3 | 604.7 | 599.7 | 591.0 | 583.9 | 577.4 | 568.8 | 561.6 | 547.9 |
| 5° | 643.5 | 639.9 | 637.0 | 633.4 | 621.9 | 614.0 | 601.1 | 586.7 | 573.1 | 559.4 | 532.1 |
| 7.5° | 695.2 | 689.4 | 685.1 | 675.1 | 659.3 | 641.3 | 621.2 | 607.5 | 598.2 | 560.2 | 513.5 |
| 10° | 750.5 | 745.4 | 736.8 | 718.9 | 699.5 | 673.6 | 644.9 | 612.6 | 583.9 | 552.3 | 497.0 |
| 12.5° | 805.0 | 797.9 | 785.6 | 762.7 | 735.4 | 703.1 | 663.6 | 625.5 | 584.6 | 547.2 | 477.6 |
| 15° | 859.6 | 851.7 | 838.8 | 810.8 | 774.9 | 732.5 | 684.4 | 636.3 | 588.2 | 540.8 | 457.5 |
| 17.5° | 919.2 | 908.5 | 889.1 | 857.5 | 812.2 | 759.8 | 703.1 | 644.9 | 586.7 | 532.9 | 435.9 |
| 20° | 983.1 | 968.1 | 947.2 | 904.9 | 851.7 | 790.0 | 721.7 | 653.5 | 586.0 | 523.5 | 411.5 |
| 22.5° | 1036.3 | 1021.2 | 998.2 | 954.4 | 890.5 | 815.1 | 737.5 | 659.3 | 583.1 | 512.8 | 388.5 |
| 25° | 1082.2 | 1070.0 | 1044.9 | 994.6 | 927.1 | 841.7 | 752.6 | 663.6 | 578.8 | 501.3 | 364.1 |
| 27.5° | 1118.2 | 1106.7 | 1078.7 | 1026.9 | 958.0 | 865.4 | 764.1 | 665.7 | 573.1 | 489.8 | 339.0 |
| 30° | 1149.7 | 1138.3 | 1104.5 | 1051.4 | 978.8 | 884.0 | 775.6 | 666.4 | 565.9 | 472.5 | 311.7 |
| 32.5° | 1174.2 | 1163.4 | 1128.9 | 1072.2 | 993.2 | 897.0 | 782.1 | 665.7 | 556.6 | 460.3 | 282.2 |
| 35° | 1198.6 | 1187.8 | 1147.6 | 1087.3 | 1004.0 | 902.7 | 787.1 | 662.1 | 545.1 | 440.2 | 254.2 |
| 37.5° | 1217.3 | 1205.0 | 1164.1 | 1097.3 | 1009.0 | 904.1 | 786.4 | 657.1 | 532.9 | 423.7 | 226.2 |
| 40° | 1230.2 | 1217.3 | 1173.4 | 1103.1 | 1010.4 | 902.0 | 780.6 | 648.5 | 518.5 | 402.9 | 196.8 |
| 42.5° | 1238.8 | 1224.4 | 1177.8 | 1111.7 | 1007.6 | 896.2 | 772.0 | 637.7 | 502.7 | 384.9 | 168.8 |
| 45° | 1243.1 | 1228.0 | 1178.5 | 1104.5 | 1002.5 | 885.5 | 759.1 | 624.1 | 485.5 | 360.5 | 140.8 |
| 47.5° | 1241.0 | 1224.4 | 1174.9 | 1096.6 | 993.2 | 874.0 | 744.7 | 607.5 | 464.6 | 339.0 | 114.2 |
| 50° | 1237.4 | 1220.1 | 1167.0 | 1086.6 | 980.3 | 859.6 | 728.9 | 587.4 | 443.1 | 312.4 | 90.5 |
| 52.5° | 1225.9 | 1208.6 | 1158.4 | 1072.2 | 965.2 | 843.1 | 707.4 | 566.6 | 420.1 | 286.5 | 68.9 |
| 55° | 1211.5 | 1195.7 | 1143.3 | 1059.3 | 945.8 | 823.0 | 687.3 | 544.4 | 397.9 | 260.0 | 49.6 |
| 57.5° | 1189.2 | 1174.9 | 1124.6 | 1038.4 | 926.4 | 800.7 | 665.0 | 519.9 | 369.8 | 233.4 | 34.5 |
| 60° | 1162.0 | 1147.6 | 1098.8 | 1014.7 | 904.1 | 775.6 | 640.6 | 494.8 | 344.7 | 206.8 | 21.5 |
| 62.5° | 1133.2 | 1119.6 | 1068.6 | 985.3 | 876.1 | 749.0 | 614.0 | 469.7 | 318.1 | 182.4 | 12.9 |
| 65° | 1095.2 | 1082.2 | 1036.3 | 950.1 | 845.3 | 720.3 | 584.6 | 439.5 | 290.8 | 155.1 | 7.2 |
| 67.5° | 1055.0 | 1043.5 | 996.8 | 917.8 | 809.3 | 688.7 | 554.4 | 410.1 | 262.1 | 131.4 | 3.6 |
| 70° | 1011.9 | 997.5 | 954.4 | 874.0 | 772.7 | 652.8 | 521.4 | 379.9 | 234.8 | 108.4 | 0.0 |
| 72.5° | 961.6 | 950.8 | 909.2 | 833.0 | 730.4 | 614.7 | 487.6 | 346.9 | 204.7 | 86.2 | 0.7 |
| 75° | 912.8 | 899.1 | 861.1 | 789.2 | 688.7 | 574.5 | 450.3 | 316.0 | 175.2 | 66.1 | 0.7 |
| 77.5° | 849.6 | 845.3 | 809.3 | 739.7 | 649.2 | 535.7 | 409.3 | 278.6 | 147.2 | 47.4 | 0.7 |
| 80° | 786.4 | 782.1 | 754.1 | 690.1 | 603.2 | 489.8 | 371.3 | 243.5 | 119.9 | 31.6 | 0.7 |
| 82.5° | 723.9 | 718.1 | 691.6 | 638.4 | 556.6 | 451.0 | 331.8 | 208.3 | 94.8 | 19.4 | 0.7 |
| 85° | 667.9 | 660.7 | 632.0 | 583.1 | 508.4 | 407.2 | 290.8 | 173.8 | 70.4 | 10.8 | 1.4 |
| 87.5° | 619.8 | 614.7 | 583.1 | 532.9 | 459.6 | 366.3 | 254.9 | 140.8 | 49.6 | 5.0 | 2.2 |
| 90° | 578.8 | 568.1 | 540.0 | 486.9 | 413.7 | 321.0 | 216.9 | 112.7 | 33.0 | 2.9 | 2.9 |
| 92.5° | 538.6 | 529.3 | 498.4 | 443.8 | 372.7 | 282.2 | 180.3 | 86.2 | 20.8 | 1.4 | 3.6 |
| 95° | 497.0 | 486.9 | 456.7 | 406.5 | 331.1 | 242.7 | 147.9 | 63.2 | 11.5 | 1.4 | 3.6 |
| 97.5° | 456.0 | 446.7 | 415.1 | 364.8 | 293.7 | 208.3 | 117.1 | 44.5 | 5.7 | 1.4 | 2.9 |
| 100° | 418.0 | 407.2 | 378.5 | 328.2 | 256.4 | 173.8 | 90.5 | 28.7 | 3.6 | 1.4 | 2.9 |
| 102.5° | 377.7 | 369.1 | 339.7 | 290.8 | 217.6 | 141.5 | 67.5 | 18.0 | 1.4 | 1.4 | 2.2 |
| 105° | 341.8 | 331.1 | 302.3 | 252.1 | 185.3 | 111.3 | 47.4 | 10.8 | 1.4 | 1.4 | 2.2 |



TEST NUMBER: P551375

CATALOG NUMBER: FCC-X-2-LD4-2HI-40-UNV-93-88-ED1D-90

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 112.5° |
|--------|-------|-------|-------|-------|------|------|------|-----|-----|-----|--------|
| 112.5° | 222.6 | 214.0 | 188.9 | 146.5 | 94.1 | 43.8 | 12.9 | 2.2 | 2.2 | 2.2 | 2.2 |
| 115° | 186.0 | 173.1 | 150.8 | 113.5 | 69.7 | 28.7 | 6.5 | 2.2 | 2.2 | 2.2 | 2.2 |
| 117.5° | 148.7 | 137.9 | 122.1 | 86.2 | 46.0 | 18.7 | 3.6 | 2.2 | 2.2 | 2.2 | 2.2 |
| 120° | 116.3 | 106.3 | 88.3 | 59.6 | 30.9 | 10.8 | 1.4 | 2.2 | 2.2 | 2.2 | 2.2 |
| 122.5° | 83.3 | 75.4 | 59.6 | 38.8 | 18.7 | 5.0 | 2.2 | 2.2 | 2.9 | 2.9 | 2.2 |
| 125° | 55.3 | 51.0 | 39.5 | 23.7 | 11.5 | 2.2 | 2.2 | 2.2 | 2.9 | 2.9 | 2.2 |
| 127.5° | 35.9 | 32.3 | 23.0 | 13.6 | 5.0 | 2.2 | 2.2 | 2.9 | 2.9 | 2.9 | 2.2 |
| 130° | 20.1 | 18.0 | 13.6 | 7.9 | 2.2 | 2.2 | 2.2 | 2.9 | 2.9 | 2.9 | 2.2 |
| 132.5° | 11.5 | 10.8 | 7.2 | 1.4 | 2.2 | 2.2 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 |
| 135° | 2.9 | 1.4 | 1.4 | 1.4 | 2.2 | 2.2 | 2.9 | 2.9 | 3.6 | 3.6 | 2.9 |
| 137.5° | 0.7 | 0.7 | 1.4 | 1.4 | 2.2 | 2.2 | 2.9 | 3.6 | 3.6 | 3.6 | 2.9 |
| 140° | 0.7 | 0.7 | 1.4 | 2.2 | 2.2 | 2.2 | 2.9 | 3.6 | 3.6 | 3.6 | 2.9 |
| 142.5° | 0.7 | 1.4 | 1.4 | 2.2 | 2.2 | 2.9 | 2.9 | 3.6 | 3.6 | 2.9 | 2.9 |
| 145° | 0.7 | 1.4 | 1.4 | 2.2 | 2.2 | 2.9 | 2.9 | 3.6 | 2.9 | 2.9 | 2.9 |
| 147.5° | 1.4 | 1.4 | 1.4 | 2.2 | 2.2 | 2.9 | 2.9 | 3.6 | 3.6 | 2.9 | 2.9 |
| 150° | 0.7 | 1.4 | 1.4 | 2.2 | 2.9 | 2.9 | 2.9 | 3.6 | 2.9 | 2.9 | 2.9 |
| 152.5° | 0.7 | 1.4 | 1.4 | 2.2 | 2.9 | 2.9 | 2.9 | 3.6 | 2.9 | 2.9 | 2.9 |
| 155° | 1.4 | 1.4 | 1.4 | 2.2 | 2.9 | 2.9 | 2.9 | 3.6 | 2.9 | 2.9 | 3.6 |
| 157.5° | 1.4 | 1.4 | 1.4 | 2.2 | 2.9 | 2.9 | 2.9 | 3.6 | 2.9 | 2.9 | 3.6 |
| 160° | 1.4 | 1.4 | 1.4 | 2.2 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 162.5° | 1.4 | 1.4 | 1.4 | 2.2 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 165° | 1.4 | 1.4 | 1.4 | 1.4 | 2.2 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 167.5° | 1.4 | 1.4 | 1.4 | 2.2 | 2.2 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 170° | 1.4 | 1.4 | 1.4 | 2.2 | 2.2 | 2.2 | 2.9 | 3.6 | 3.6 | 3.6 | 3.6 |
| 172.5° | 1.4 | 1.4 | 1.4 | 2.2 | 2.2 | 2.9 | 2.9 | 3.6 | 3.6 | 3.6 | 3.6 |
| 175° | 1.4 | 1.4 | 1.4 | 2.2 | 2.2 | 2.9 | 2.9 | 3.6 | 3.6 | 3.6 | 3.6 |
| 177.5° | 0.7 | 1.4 | 1.4 | 2.2 | 2.2 | 2.9 | 2.9 | 3.6 | 3.6 | 3.6 | 2.9 |
| 180° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |



TEST NUMBER: P551375

CATALOG NUMBER: FCC-X-2-LD4-2HI-40-UNV-93-88-ED1D-90

CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|--------|-------|--------|-------|
| 0° | 563.7 | 563.7 | 563.7 |
| 2.5° | 536.5 | 526.4 | 523.5 |
| 5° | 507.7 | 491.2 | 481.9 |
| 7.5° | 479.0 | 456.7 | 446.0 |
| 10° | 452.4 | 420.8 | 409.3 |
| 12.5° | 420.8 | 384.2 | 366.3 |
| 15° | 390.7 | 343.3 | 326.0 |
| 17.5° | 356.9 | 303.8 | 283.7 |
| 20° | 325.3 | 264.3 | 243.5 |
| 22.5° | 289.4 | 225.5 | 202.5 |
| 25° | 257.1 | 186.7 | 160.9 |
| 27.5° | 221.2 | 147.2 | 125.0 |
| 30° | 187.4 | 112.7 | 90.5 |
| 32.5° | 155.1 | 82.6 | 62.5 |
| 35° | 125.0 | 56.0 | 39.5 |
| 37.5° | 96.2 | 34.5 | 20.1 |
| 40° | 69.7 | 18.0 | 9.3 |
| 42.5° | 46.7 | 8.6 | 5.0 |
| 45° | 28.7 | 4.3 | 0.0 |
| 47.5° | 16.5 | 0.0 | 0.0 |
| 50° | 8.6 | 0.0 | 0.0 |
| 52.5° | 3.6 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 |
| 75° | 0.7 | 0.7 | 0.7 |
| 77.5° | 0.7 | 1.4 | 2.2 |
| 80° | 1.4 | 2.9 | 3.6 |
| 82.5° | 2.9 | 3.6 | 3.6 |
| 85° | 2.9 | 3.6 | 4.3 |
| 87.5° | 3.6 | 4.3 | 5.0 |
| 90° | 4.3 | 5.0 | 5.0 |
| 92.5° | 4.3 | 5.7 | 5.7 |
| 95° | 5.0 | 5.7 | 6.5 |
| 97.5° | 5.7 | 6.5 | 6.5 |
| 100° | 5.0 | 6.5 | 7.2 |
| 102.5° | 4.3 | 6.5 | 6.5 |
| 105° | 3.6 | 5.0 | 5.7 |



TEST NUMBER: P551375

CATALOG NUMBER: FCC-X-2-LD4-2HI-40-UNV-93-88-ED1D-90

CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|--------|------|--------|------|
| 112.5° | 2.9 | 3.6 | 3.6 |
| 115° | 2.2 | 2.9 | 3.6 |
| 117.5° | 2.2 | 2.9 | 2.9 |
| 120° | 2.2 | 2.2 | 2.9 |
| 122.5° | 2.2 | 2.2 | 2.9 |
| 125° | 2.2 | 2.2 | 2.9 |
| 127.5° | 2.9 | 2.2 | 2.2 |
| 130° | 2.2 | 2.2 | 2.2 |
| 132.5° | 2.9 | 2.2 | 2.2 |
| 135° | 2.9 | 2.2 | 2.2 |
| 137.5° | 2.9 | 2.2 | 2.2 |
| 140° | 2.9 | 2.2 | 2.2 |
| 142.5° | 2.9 | 2.2 | 2.2 |
| 145° | 2.2 | 2.2 | 2.2 |
| 147.5° | 2.2 | 2.2 | 2.2 |
| 150° | 2.2 | 2.2 | 1.4 |
| 152.5° | 2.2 | 1.4 | 1.4 |
| 155° | 2.2 | 1.4 | 0.7 |
| 157.5° | 2.9 | 1.4 | 0.7 |
| 160° | 2.2 | 1.4 | 0.7 |
| 162.5° | 2.2 | 1.4 | 0.7 |
| 165° | 2.2 | 1.4 | 0.0 |
| 167.5° | 2.2 | 1.4 | 0.7 |
| 170° | 2.2 | 1.4 | 0.7 |
| 172.5° | 2.2 | 1.4 | 0.7 |
| 175° | 2.2 | 0.7 | 0.7 |
| 177.5° | 2.2 | 0.7 | 0.7 |
| 180° | 2.2 | 2.2 | 2.2 |



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— 0°-180° - - 45°-225° - - - - 90°-270°







| | | | | | | | | | | | |
|--------|-------|-------|-------|-------|-------|------|------|-----|-----|-----|-----|
| 107.5° | 301.6 | 293.0 | 264.3 | 216.9 | 151.5 | 84.7 | 31.6 | 5.7 | 1.4 | 2.2 | 2.2 |
| 110° | 262.8 | 255.7 | 226.2 | 180.3 | 122.1 | 63.2 | 20.8 | 3.6 | 2.2 | 2.2 | 2.2 |





| | | | |
|--------|-----|-----|-----|
| 107.5° | 2.9 | 4.3 | 5.0 |
| 110° | 2.9 | 3.6 | 4.3 |



(END OF REPORT)