

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: P550883

Luminaire Tested: **FCC-X-2-LD4-1LO-50-UNV-80-96-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: P550883  
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-LD4-1LO-50-UNV-80-96-ED1D-90  
Description: FCC CORNER MOUNT LUMINAIRE WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 5000K, AND 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

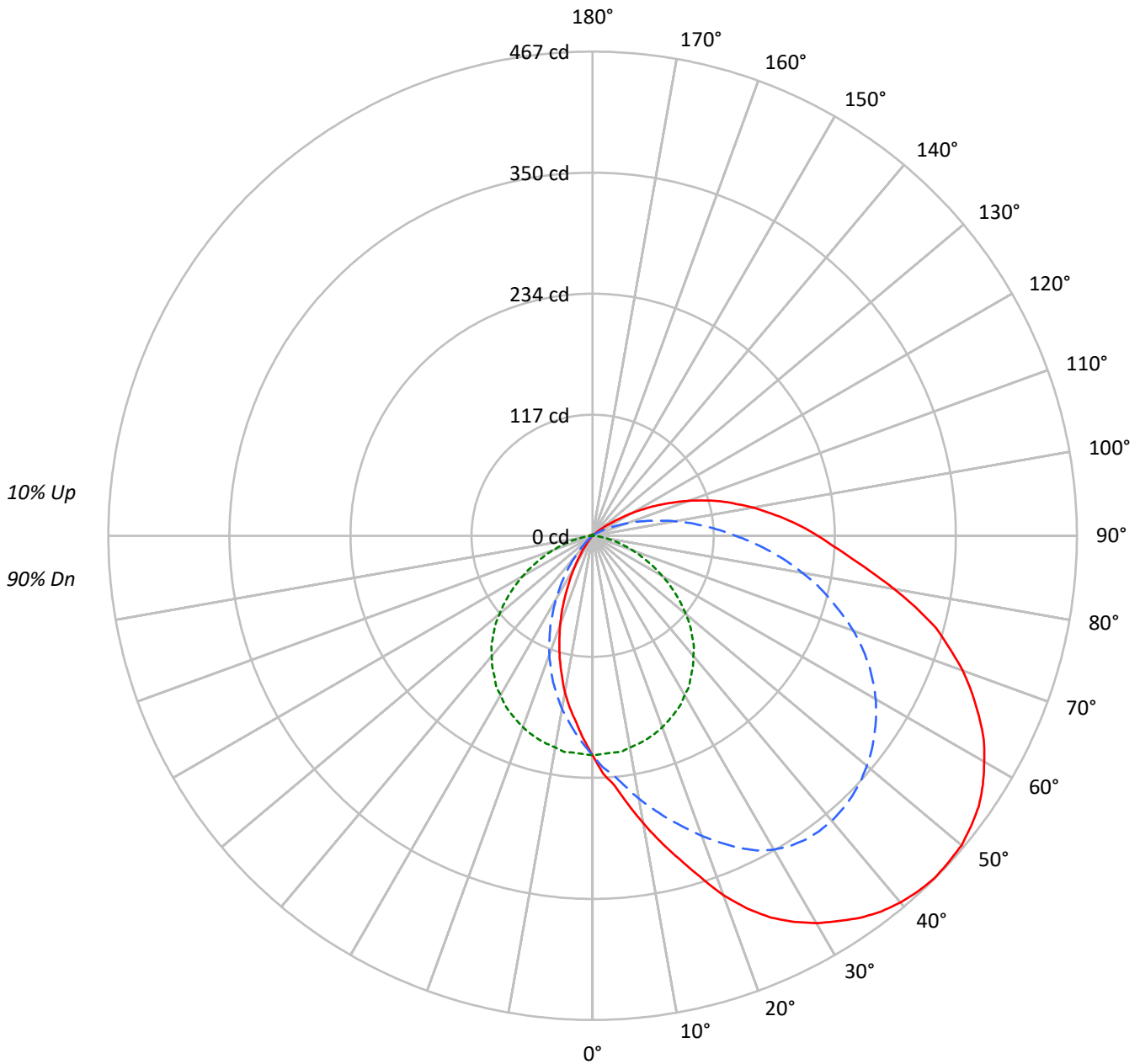
Lumens per Lamp: N/A  
Luminaire Lumens: 1046.0 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

Input Watts (W): 11.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P550883

CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-80-96-ED1D-90

### Luminous Intensity Polar Plot





TEST NUMBER: P550883

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**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°  | 2278 | 2278 | 2278 |
| 5°  | 2500 | 2245 | 1873 |
| 10° | 2830 | 2217 | 1543 |
| 15° | 3170 | 2189 | 1203 |
| 20° | 3576 | 2153 | 886  |
| 25° | 3912 | 2111 | 582  |
| 30° | 4162 | 2057 | 328  |
| 35° | 4378 | 1996 | 144  |
| 40° | 4570 | 1923 | 35   |
| 45° | 4735 | 1831 | 0    |
| 50° | 4873 | 1708 | 0    |
| 55° | 4978 | 1554 | 0    |
| 60° | 5031 | 1373 | 0    |
| 65° | 5052 | 1169 | 0    |
| 70° | 5035 | 953  | 0    |
| 75° | 4971 | 703  | 4    |
| 80° | 4769 | 432  | 21   |
| 85° | 4611 | 203  | 29   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 20.3   | 1.9       |
| 10°-20°   | 60.7   | 5.8       |
| 20°-30°   | 98.3   | 9.4       |
| 30°-40°   | 126.2  | 12.1      |
| 40°-50°   | 142.9  | 13.7      |
| 50°-60°   | 148.0  | 14.2      |
| 60°-70°   | 139.6  | 13.3      |
| 70°-80°   | 117.0  | 11.2      |
| 80°-90°   | 84.8   | 8.1       |
| 90°-100°  | 55.7   | 5.3       |
| 100°-110° | 32.2   | 3.1       |
| 110°-120° | 14.2   | 1.4       |
| 120°-130° | 3.8    | 0.4       |
| 130°-140° | 0.9    | 0.1       |
| 140°-150° | 0.6    | 0.1       |
| 150°-160° | 0.4    | 0.0       |
| 160°-170° | 0.2    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 179.2  | 17.1      |
| 0°-40°    | 305.4  | 29.2      |
| 0°-60°    | 596.4  | 57.0      |
| 0°-90°    | 937.8  | 89.7      |
| 90°-120°  | 102.1  | 9.8       |
| 90°-150°  | 107.4  | 10.3      |
| 90°-180°  | 108.0  | 10.3      |
| 0°-180°   | 1046.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 212 | 212 | 212 | 212  | 212  |      |
| 5°   | 242 | 232 | 210 | 191  | 181  | 24   |
| 15°  | 323 | 283 | 203 | 147  | 122  | 93   |
| 25°  | 406 | 332 | 188 | 96   | 60   | 188  |
| 35°  | 450 | 358 | 165 | 47   | 15   | 282  |
| 45°  | 467 | 354 | 135 | 11   | 0    | 360  |
| 55°  | 455 | 332 | 98  | 0    | 0    | 406  |
| 65°  | 411 | 294 | 58  | 0    | 0    | 407  |
| 75°  | 343 | 237 | 25  | 0    | 0    | 359  |
| 85°  | 251 | 172 | 4   | 1    | 2    | 214  |
| 90°  | 217 | 138 | 1   | 2    | 2    | 119  |
| 95°  | 186 | 108 | 0   | 2    | 2    | 146  |
| 105° | 128 | 56  | 0   | 1    | 2    | 135  |
| 115° | 70  | 18  | 1   | 1    | 1    | 70   |
| 125° | 21  | 3   | 1   | 1    | 1    | 21   |
| 135° | 1   | 1   | 1   | 1    | 1    | 2    |
| 145° | 0   | 1   | 1   | 1    | 1    | 0    |
| 155° | 0   | 1   | 1   | 1    | 0    | 0    |
| 165° | 0   | 1   | 1   | 1    | 0    | 0    |
| 175° | 0   | 1   | 1   | 1    | 0    | 0    |
| 180° | 1   | 1   | 1   | 1    | 1    |      |



TEST NUMBER: P550883

CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-80-96-ED1D-90

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 112.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 211.6 | 211.6 | 211.6 | 211.6 | 211.6 | 211.6 | 211.6 | 211.6 | 211.6 | 211.6 | 211.6  |
| 2.5°   | 229.4 | 229.1 | 228.3 | 226.9 | 225.1 | 221.8 | 219.1 | 216.7 | 213.5 | 210.8 | 205.7  |
| 5°     | 241.5 | 240.2 | 239.1 | 237.7 | 233.4 | 230.4 | 225.6 | 220.2 | 215.1 | 210.0 | 199.7  |
| 7.5°   | 260.9 | 258.7 | 257.1 | 253.4 | 247.4 | 240.7 | 233.1 | 228.0 | 224.5 | 210.2 | 192.7  |
| 10°    | 281.7 | 279.8 | 276.5 | 269.8 | 262.5 | 252.8 | 242.0 | 229.9 | 219.1 | 207.3 | 186.5  |
| 12.5°  | 302.1 | 299.4 | 294.9 | 286.2 | 276.0 | 263.9 | 249.0 | 234.8 | 219.4 | 205.4 | 179.2  |
| 15°    | 322.6 | 319.7 | 314.8 | 304.3 | 290.8 | 274.9 | 256.9 | 238.8 | 220.7 | 203.0 | 171.7  |
| 17.5°  | 345.0 | 341.0 | 333.7 | 321.8 | 304.8 | 285.2 | 263.9 | 242.0 | 220.2 | 200.0 | 163.6  |
| 20°    | 369.0 | 363.3 | 355.5 | 339.6 | 319.7 | 296.5 | 270.9 | 245.3 | 219.9 | 196.5 | 154.4  |
| 22.5°  | 388.9 | 383.3 | 374.6 | 358.2 | 334.2 | 305.9 | 276.8 | 247.4 | 218.9 | 192.4 | 145.8  |
| 25°    | 406.2 | 401.6 | 392.2 | 373.3 | 348.0 | 315.9 | 282.5 | 249.0 | 217.2 | 188.1 | 136.7  |
| 27.5°  | 419.7 | 415.3 | 404.8 | 385.4 | 359.6 | 324.8 | 286.8 | 249.9 | 215.1 | 183.8 | 127.2  |
| 30°    | 431.5 | 427.2 | 414.5 | 394.6 | 367.4 | 331.8 | 291.1 | 250.1 | 212.4 | 177.4 | 117.0  |
| 32.5°  | 440.7 | 436.6 | 423.7 | 402.4 | 372.8 | 336.6 | 293.5 | 249.9 | 208.9 | 172.8 | 105.9  |
| 35°    | 449.8 | 445.8 | 430.7 | 408.1 | 376.8 | 338.8 | 295.4 | 248.5 | 204.6 | 165.2 | 95.4   |
| 37.5°  | 456.9 | 452.3 | 436.9 | 411.8 | 378.7 | 339.3 | 295.1 | 246.6 | 200.0 | 159.0 | 84.9   |
| 40°    | 461.7 | 456.9 | 440.4 | 414.0 | 379.2 | 338.5 | 293.0 | 243.4 | 194.6 | 151.2 | 73.9   |
| 42.5°  | 464.9 | 459.5 | 442.0 | 417.2 | 378.1 | 336.4 | 289.7 | 239.3 | 188.7 | 144.5 | 63.3   |
| 45°    | 466.6 | 460.9 | 442.3 | 414.5 | 376.3 | 332.3 | 284.9 | 234.2 | 182.2 | 135.3 | 52.8   |
| 47.5°  | 465.7 | 459.5 | 441.0 | 411.6 | 372.8 | 328.0 | 279.5 | 228.0 | 174.4 | 127.2 | 42.9   |
| 50°    | 464.4 | 457.9 | 438.0 | 407.8 | 367.9 | 322.6 | 273.6 | 220.5 | 166.3 | 117.2 | 34.0   |
| 52.5°  | 460.1 | 453.6 | 434.8 | 402.4 | 362.2 | 316.4 | 265.5 | 212.7 | 157.7 | 107.5 | 25.9   |
| 55°    | 454.7 | 448.8 | 429.1 | 397.6 | 355.0 | 308.9 | 257.9 | 204.3 | 149.3 | 97.6  | 18.6   |
| 57.5°  | 446.3 | 441.0 | 422.1 | 389.7 | 347.7 | 300.5 | 249.6 | 195.1 | 138.8 | 87.6  | 12.9   |
| 60°    | 436.1 | 430.7 | 412.4 | 380.8 | 339.3 | 291.1 | 240.4 | 185.7 | 129.4 | 77.6  | 8.1    |
| 62.5°  | 425.3 | 420.2 | 401.1 | 369.8 | 328.8 | 281.1 | 230.4 | 176.3 | 119.4 | 68.5  | 4.9    |
| 65°    | 411.0 | 406.2 | 388.9 | 356.6 | 317.2 | 270.3 | 219.4 | 165.0 | 109.2 | 58.2  | 2.7    |
| 67.5°  | 395.9 | 391.6 | 374.1 | 344.5 | 303.8 | 258.5 | 208.1 | 153.9 | 98.4  | 49.3  | 1.3    |
| 70°    | 379.8 | 374.4 | 358.2 | 328.0 | 290.0 | 245.0 | 195.7 | 142.6 | 88.1  | 40.7  | 0.0    |
| 72.5°  | 360.9 | 356.9 | 341.2 | 312.7 | 274.1 | 230.7 | 183.0 | 130.2 | 76.8  | 32.3  | 0.3    |
| 75°    | 342.6 | 337.5 | 323.2 | 296.2 | 258.5 | 215.6 | 169.0 | 118.6 | 65.8  | 24.8  | 0.3    |
| 77.5°  | 318.9 | 317.2 | 303.8 | 277.6 | 243.7 | 201.1 | 153.6 | 104.6 | 55.3  | 17.8  | 0.3    |
| 80°    | 295.1 | 293.5 | 283.0 | 259.0 | 226.4 | 183.8 | 139.3 | 91.4  | 45.0  | 11.9  | 0.3    |
| 82.5°  | 271.7 | 269.5 | 259.6 | 239.6 | 208.9 | 169.3 | 124.5 | 78.2  | 35.6  | 7.3   | 0.3    |
| 85°    | 250.7 | 248.0 | 237.2 | 218.9 | 190.8 | 152.8 | 109.2 | 65.2  | 26.4  | 4.0   | 0.5    |
| 87.5°  | 232.6 | 230.7 | 218.9 | 200.0 | 172.5 | 137.5 | 95.7  | 52.8  | 18.6  | 1.9   | 0.8    |
| 90°    | 217.2 | 213.2 | 202.7 | 182.7 | 155.2 | 120.5 | 81.4  | 42.3  | 12.4  | 1.1   | 1.1    |
| 92.5°  | 202.1 | 198.6 | 187.1 | 166.6 | 139.9 | 105.9 | 67.7  | 32.3  | 7.8   | 0.5   | 1.3    |
| 95°    | 186.5 | 182.7 | 171.4 | 152.6 | 124.3 | 91.1  | 55.5  | 23.7  | 4.3   | 0.5   | 1.3    |
| 97.5°  | 171.2 | 167.6 | 155.8 | 136.9 | 110.2 | 78.2  | 43.9  | 16.7  | 2.2   | 0.5   | 1.1    |
| 100°   | 156.9 | 152.8 | 142.0 | 123.2 | 96.2  | 65.2  | 34.0  | 10.8  | 1.3   | 0.5   | 1.1    |
| 102.5° | 141.8 | 138.5 | 127.5 | 109.2 | 81.7  | 53.1  | 25.3  | 6.7   | 0.5   | 0.5   | 0.8    |
| 105°   | 128.3 | 124.3 | 113.5 | 94.6  | 69.5  | 41.8  | 17.8  | 4.0   | 0.5   | 0.5   | 0.8    |



TEST NUMBER: P550883

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 10°  | 20°  | 30°  | 40°  | 50°  | 60° | 70° | 80° | 90° | 112.5° |
|--------|------|------|------|------|------|------|-----|-----|-----|-----|--------|
| 112.5° | 83.6 | 80.3 | 70.9 | 55.0 | 35.3 | 16.4 | 4.9 | 0.8 | 0.8 | 0.8 | 0.8    |
| 115°   | 69.8 | 65.0 | 56.6 | 42.6 | 26.1 | 10.8 | 2.4 | 0.8 | 0.8 | 0.8 | 0.8    |
| 117.5° | 55.8 | 51.7 | 45.8 | 32.3 | 17.2 | 7.0  | 1.3 | 0.8 | 0.8 | 0.8 | 0.8    |
| 120°   | 43.7 | 39.9 | 33.2 | 22.4 | 11.6 | 4.0  | 0.5 | 0.8 | 0.8 | 0.8 | 0.8    |
| 122.5° | 31.3 | 28.3 | 22.4 | 14.6 | 7.0  | 1.9  | 0.8 | 0.8 | 1.1 | 1.1 | 0.8    |
| 125°   | 20.8 | 19.1 | 14.8 | 8.9  | 4.3  | 0.8  | 0.8 | 0.8 | 1.1 | 1.1 | 0.8    |
| 127.5° | 13.5 | 12.1 | 8.6  | 5.1  | 1.9  | 0.8  | 0.8 | 1.1 | 1.1 | 1.1 | 0.8    |
| 130°   | 7.5  | 6.7  | 5.1  | 3.0  | 0.8  | 0.8  | 0.8 | 1.1 | 1.1 | 1.1 | 0.8    |
| 132.5° | 4.3  | 4.0  | 2.7  | 0.5  | 0.8  | 0.8  | 0.8 | 1.1 | 1.1 | 1.1 | 1.1    |
| 135°   | 1.1  | 0.5  | 0.5  | 0.5  | 0.8  | 0.8  | 1.1 | 1.1 | 1.3 | 1.3 | 1.1    |
| 137.5° | 0.3  | 0.3  | 0.5  | 0.5  | 0.8  | 0.8  | 1.1 | 1.3 | 1.3 | 1.3 | 1.1    |
| 140°   | 0.3  | 0.3  | 0.5  | 0.8  | 0.8  | 0.8  | 1.1 | 1.3 | 1.3 | 1.3 | 1.1    |
| 142.5° | 0.3  | 0.5  | 0.5  | 0.8  | 0.8  | 1.1  | 1.1 | 1.3 | 1.3 | 1.1 | 1.1    |
| 145°   | 0.3  | 0.5  | 0.5  | 0.8  | 0.8  | 1.1  | 1.1 | 1.3 | 1.1 | 1.1 | 1.1    |
| 147.5° | 0.5  | 0.5  | 0.5  | 0.8  | 0.8  | 1.1  | 1.1 | 1.3 | 1.3 | 1.1 | 1.1    |
| 150°   | 0.3  | 0.5  | 0.5  | 0.8  | 1.1  | 1.1  | 1.1 | 1.3 | 1.1 | 1.1 | 1.1    |
| 152.5° | 0.3  | 0.5  | 0.5  | 0.8  | 1.1  | 1.1  | 1.1 | 1.3 | 1.1 | 1.1 | 1.1    |
| 155°   | 0.5  | 0.5  | 0.5  | 0.8  | 1.1  | 1.1  | 1.1 | 1.3 | 1.1 | 1.1 | 1.3    |
| 157.5° | 0.5  | 0.5  | 0.5  | 0.8  | 1.1  | 1.1  | 1.1 | 1.3 | 1.1 | 1.1 | 1.3    |
| 160°   | 0.5  | 0.5  | 0.5  | 0.8  | 0.8  | 1.1  | 1.1 | 1.1 | 1.1 | 1.1 | 1.1    |
| 162.5° | 0.5  | 0.5  | 0.5  | 0.8  | 0.8  | 1.1  | 1.1 | 1.1 | 1.1 | 1.1 | 1.1    |
| 165°   | 0.5  | 0.5  | 0.5  | 0.5  | 0.8  | 0.8  | 1.1 | 1.1 | 1.1 | 1.1 | 1.1    |
| 167.5° | 0.5  | 0.5  | 0.5  | 0.8  | 0.8  | 0.8  | 1.1 | 1.1 | 1.1 | 1.1 | 1.1    |
| 170°   | 0.5  | 0.5  | 0.5  | 0.8  | 0.8  | 0.8  | 1.1 | 1.3 | 1.3 | 1.3 | 1.3    |
| 172.5° | 0.5  | 0.5  | 0.5  | 0.8  | 0.8  | 1.1  | 1.1 | 1.3 | 1.3 | 1.3 | 1.3    |
| 175°   | 0.5  | 0.5  | 0.5  | 0.8  | 0.8  | 1.1  | 1.1 | 1.3 | 1.3 | 1.3 | 1.3    |
| 177.5° | 0.3  | 0.5  | 0.5  | 0.8  | 0.8  | 1.1  | 1.1 | 1.3 | 1.3 | 1.3 | 1.1    |
| 180°   | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8 | 0.8 | 0.8 | 0.8 | 0.8    |



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CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-80-96-ED1D-90

**CANDELA DISTRIBUTION (continued):**

|        | 135°  | 157.5° | 180°  |
|--------|-------|--------|-------|
| 0°     | 211.6 | 211.6  | 211.6 |
| 2.5°   | 201.3 | 197.6  | 196.5 |
| 5°     | 190.6 | 184.4  | 180.9 |
| 7.5°   | 179.8 | 171.4  | 167.4 |
| 10°    | 169.8 | 157.9  | 153.6 |
| 12.5°  | 157.9 | 144.2  | 137.5 |
| 15°    | 146.6 | 128.8  | 122.4 |
| 17.5°  | 134.0 | 114.0  | 106.5 |
| 20°    | 122.1 | 99.2   | 91.4  |
| 22.5°  | 108.6 | 84.6   | 76.0  |
| 25°    | 96.5  | 70.1   | 60.4  |
| 27.5°  | 83.0  | 55.3   | 46.9  |
| 30°    | 70.3  | 42.3   | 34.0  |
| 32.5°  | 58.2  | 31.0   | 23.4  |
| 35°    | 46.9  | 21.0   | 14.8  |
| 37.5°  | 36.1  | 12.9   | 7.5   |
| 40°    | 26.1  | 6.7    | 3.5   |
| 42.5°  | 17.5  | 3.2    | 1.9   |
| 45°    | 10.8  | 1.6    | 0.0   |
| 47.5°  | 6.2   | 0.0    | 0.0   |
| 50°    | 3.2   | 0.0    | 0.0   |
| 52.5°  | 1.3   | 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°    | 0.3   | 0.3    | 0.3   |
| 77.5°  | 0.3   | 0.5    | 0.8   |
| 80°    | 0.5   | 1.1    | 1.3   |
| 82.5°  | 1.1   | 1.3    | 1.3   |
| 85°    | 1.1   | 1.3    | 1.6   |
| 87.5°  | 1.3   | 1.6    | 1.9   |
| 90°    | 1.6   | 1.9    | 1.9   |
| 92.5°  | 1.6   | 2.2    | 2.2   |
| 95°    | 1.9   | 2.2    | 2.4   |
| 97.5°  | 2.2   | 2.4    | 2.4   |
| 100°   | 1.9   | 2.4    | 2.7   |
| 102.5° | 1.6   | 2.4    | 2.4   |
| 105°   | 1.3   | 1.9    | 2.2   |





TEST NUMBER: P550883

CATALOG NUMBER: FCC-X-2-LD4-1LO-50-UNV-80-96-ED1D-90

**CANDELA DISTRIBUTION (continued):**

|        | 135° | 157.5° | 180° |
|--------|------|--------|------|
| 112.5° | 1.1  | 1.3    | 1.3  |
| 115°   | 0.8  | 1.1    | 1.3  |
| 117.5° | 0.8  | 1.1    | 1.1  |
| 120°   | 0.8  | 0.8    | 1.1  |
| 122.5° | 0.8  | 0.8    | 1.1  |
| 125°   | 0.8  | 0.8    | 1.1  |
| 127.5° | 1.1  | 0.8    | 0.8  |
| 130°   | 0.8  | 0.8    | 0.8  |
| 132.5° | 1.1  | 0.8    | 0.8  |
| 135°   | 1.1  | 0.8    | 0.8  |
| 137.5° | 1.1  | 0.8    | 0.8  |
| 140°   | 1.1  | 0.8    | 0.8  |
| 142.5° | 1.1  | 0.8    | 0.8  |
| 145°   | 0.8  | 0.8    | 0.8  |
| 147.5° | 0.8  | 0.8    | 0.8  |
| 150°   | 0.8  | 0.8    | 0.5  |
| 152.5° | 0.8  | 0.5    | 0.5  |
| 155°   | 0.8  | 0.5    | 0.3  |
| 157.5° | 1.1  | 0.5    | 0.3  |
| 160°   | 0.8  | 0.5    | 0.3  |
| 162.5° | 0.8  | 0.5    | 0.3  |
| 165°   | 0.8  | 0.5    | 0.0  |
| 167.5° | 0.8  | 0.5    | 0.3  |
| 170°   | 0.8  | 0.5    | 0.3  |
| 172.5° | 0.8  | 0.5    | 0.3  |
| 175°   | 0.8  | 0.3    | 0.3  |
| 177.5° | 0.8  | 0.3    | 0.3  |
| 180°   | 0.8  | 0.8    | 0.8  |



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







|        |       |       |      |      |      |      |      |     |     |     |     |
|--------|-------|-------|------|------|------|------|------|-----|-----|-----|-----|
| 107.5° | 113.2 | 110.0 | 99.2 | 81.4 | 56.9 | 31.8 | 11.9 | 2.2 | 0.5 | 0.8 | 0.8 |
| 110°   | 98.6  | 96.0  | 84.9 | 67.7 | 45.8 | 23.7 | 7.8  | 1.3 | 0.8 | 0.8 | 0.8 |







|        |     |     |     |
|--------|-----|-----|-----|
| 107.5° | 1.1 | 1.6 | 1.9 |
| 110°   | 1.1 | 1.3 | 1.6 |



(END OF REPORT)