

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: P550707

Luminaire Tested: **FCC-X-2-LD4-1LO-30-UNV-81-96-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: P550707  
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-30-UNV-81-96-ED1D-90  
Description: FCC CORNER MOUNT LUMINAIRE WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES AND 3000K, AND 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

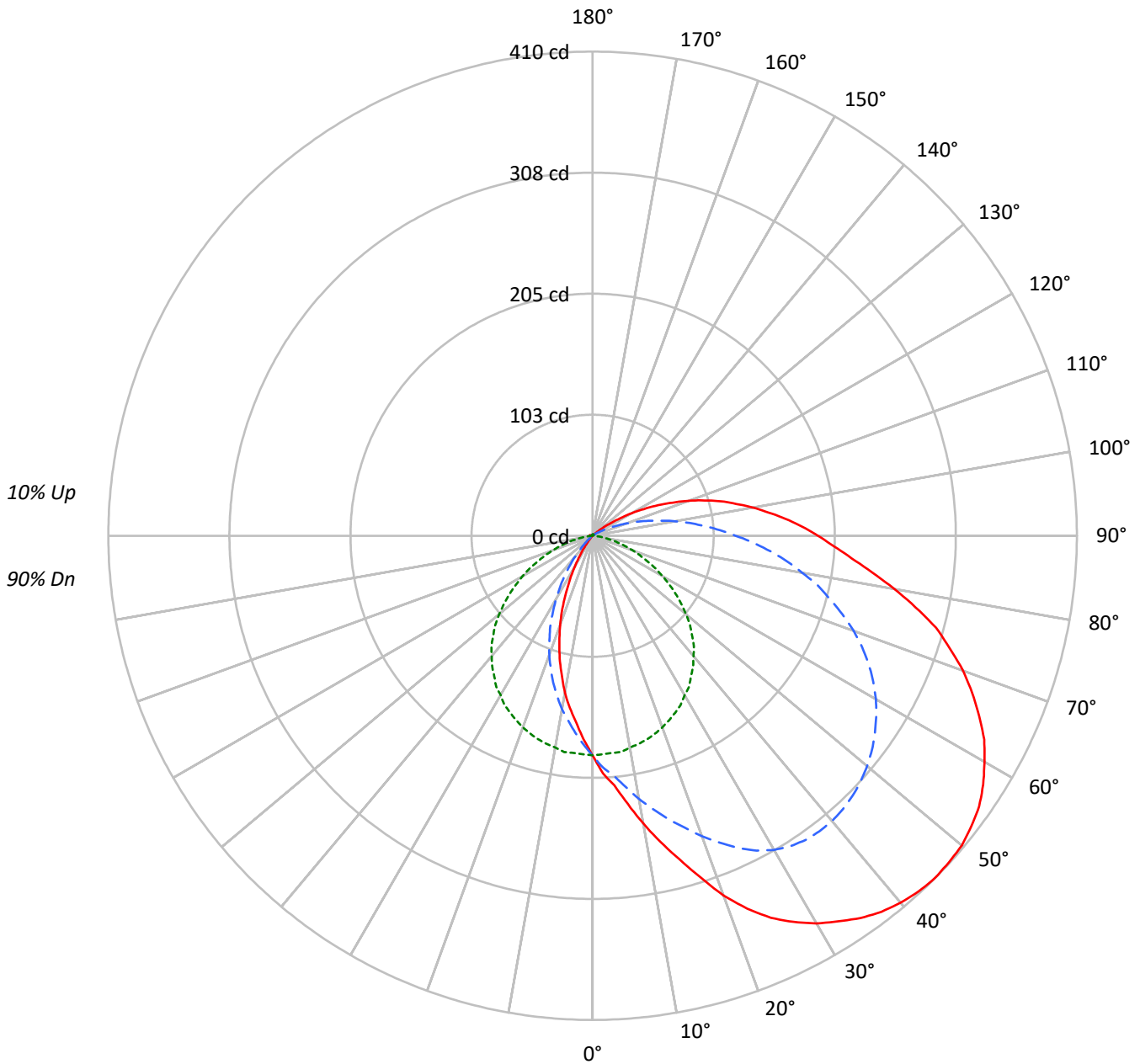
Lumens per Lamp: N/A  
Luminaire Lumens: 918.9 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.25 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.5' x H: 0.25')  
CIE Type: Semi-Direct

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: P550707

CATALOG NUMBER: FCC-X-2-LD4-1LO-30-UNV-81-96-ED1D-90

### Luminous Intensity Polar Plot





TEST NUMBER: P550707

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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°  | 2001 | 2001 | 2001 |
| 5°  | 2197 | 1972 | 1645 |
| 10° | 2486 | 1947 | 1356 |
| 15° | 2786 | 1923 | 1056 |
| 20° | 3142 | 1891 | 778  |
| 25° | 3437 | 1855 | 510  |
| 30° | 3656 | 1806 | 287  |
| 35° | 3846 | 1754 | 127  |
| 40° | 4015 | 1689 | 31   |
| 45° | 4160 | 1609 | 0    |
| 50° | 4281 | 1501 | 0    |
| 55° | 4374 | 1365 | 0    |
| 60° | 4420 | 1207 | 0    |
| 65° | 4438 | 1026 | 0    |
| 70° | 4424 | 839  | 0    |
| 75° | 4368 | 618  | 3    |
| 80° | 4190 | 377  | 19   |
| 85° | 4050 | 183  | 26   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 17.8   | 1.9       |
| 10°-20°   | 53.3   | 5.8       |
| 20°-30°   | 86.3   | 9.4       |
| 30°-40°   | 110.9  | 12.1      |
| 40°-50°   | 125.5  | 13.7      |
| 50°-60°   | 130.1  | 14.2      |
| 60°-70°   | 122.7  | 13.3      |
| 70°-80°   | 102.8  | 11.2      |
| 80°-90°   | 74.5   | 8.1       |
| 90°-100°  | 49.0   | 5.3       |
| 100°-110° | 28.3   | 3.1       |
| 110°-120° | 12.5   | 1.4       |
| 120°-130° | 3.4    | 0.4       |
| 130°-140° | 0.8    | 0.1       |
| 140°-150° | 0.5    | 0.1       |
| 150°-160° | 0.4    | 0.0       |
| 160°-170° | 0.2    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 157.5  | 17.1      |
| 0°-40°    | 268.4  | 29.2      |
| 0°-60°    | 524.0  | 57.0      |
| 0°-90°    | 824.0  | 89.7      |
| 90°-120°  | 89.7   | 9.8       |
| 90°-150°  | 94.4   | 10.3      |
| 90°-180°  | 95.0   | 10.3      |
| 0°-180°   | 918.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 186 | 186 | 186 | 186  | 186  |      |
| 5°   | 212 | 204 | 184 | 167  | 159  | 21   |
| 15°  | 284 | 248 | 178 | 129  | 108  | 82   |
| 25°  | 357 | 292 | 165 | 85   | 53   | 165  |
| 35°  | 395 | 314 | 145 | 41   | 13   | 248  |
| 45°  | 410 | 311 | 119 | 10   | 0    | 316  |
| 55°  | 400 | 292 | 86  | 0    | 0    | 357  |
| 65°  | 361 | 258 | 51  | 0    | 0    | 357  |
| 75°  | 301 | 208 | 22  | 0    | 0    | 316  |
| 85°  | 220 | 151 | 4   | 1    | 1    | 188  |
| 90°  | 191 | 121 | 1   | 1    | 2    | 105  |
| 95°  | 164 | 95  | 0   | 2    | 2    | 129  |
| 105° | 113 | 49  | 0   | 1    | 2    | 119  |
| 115° | 61  | 16  | 1   | 1    | 1    | 61   |
| 125° | 18  | 2   | 1   | 1    | 1    | 18   |
| 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: P550707

CATALOG NUMBER: FCC-X-2-LD4-1LO-30-UNV-81-96-ED1D-90

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   | 112.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 185.9 | 185.9 | 185.9 | 185.9 | 185.9 | 185.9 | 185.9 | 185.9 | 185.9 | 185.9 | 185.9  |
| 2.5°   | 201.5 | 201.3 | 200.6 | 199.4 | 197.7 | 194.9 | 192.5 | 190.4 | 187.5 | 185.2 | 180.7  |
| 5°     | 212.2 | 211.0 | 210.0 | 208.9 | 205.1 | 202.5 | 198.2 | 193.5 | 189.0 | 184.5 | 175.5  |
| 7.5°   | 229.2 | 227.3 | 225.9 | 222.6 | 217.4 | 211.5 | 204.8 | 200.3 | 197.3 | 184.7 | 169.3  |
| 10°    | 247.5 | 245.8 | 243.0 | 237.0 | 230.6 | 222.1 | 212.7 | 202.0 | 192.5 | 182.1 | 163.9  |
| 12.5°  | 265.5 | 263.1 | 259.1 | 251.5 | 242.5 | 231.8 | 218.8 | 206.3 | 192.8 | 180.4 | 157.5  |
| 15°    | 283.5 | 280.9 | 276.6 | 267.4 | 255.5 | 241.5 | 225.7 | 209.8 | 193.9 | 178.3 | 150.8  |
| 17.5°  | 303.1 | 299.6 | 293.2 | 282.7 | 267.8 | 250.5 | 231.8 | 212.7 | 193.5 | 175.7 | 143.7  |
| 20°    | 324.2 | 319.2 | 312.3 | 298.4 | 280.9 | 260.5 | 238.0 | 215.5 | 193.2 | 172.6 | 135.7  |
| 22.5°  | 341.7 | 336.7 | 329.2 | 314.7 | 293.6 | 268.8 | 243.2 | 217.4 | 192.3 | 169.1 | 128.1  |
| 25°    | 356.9 | 352.8 | 344.6 | 328.0 | 305.7 | 277.5 | 248.2 | 218.8 | 190.9 | 165.3 | 120.1  |
| 27.5°  | 368.7 | 364.9 | 355.7 | 338.6 | 315.9 | 285.3 | 252.0 | 219.5 | 189.0 | 161.5 | 111.8  |
| 30°    | 379.1 | 375.3 | 364.2 | 346.7 | 322.8 | 291.5 | 255.7 | 219.8 | 186.6 | 155.8 | 102.8  |
| 32.5°  | 387.2 | 383.6 | 372.3 | 353.5 | 327.5 | 295.8 | 257.9 | 219.5 | 183.5 | 151.8 | 93.1   |
| 35°    | 395.2 | 391.7 | 378.4 | 358.5 | 331.1 | 297.7 | 259.5 | 218.3 | 179.7 | 145.2 | 83.8   |
| 37.5°  | 401.4 | 397.4 | 383.9 | 361.8 | 332.7 | 298.1 | 259.3 | 216.7 | 175.7 | 139.7 | 74.6   |
| 40°    | 405.6 | 401.4 | 386.9 | 363.7 | 333.2 | 297.4 | 257.4 | 213.8 | 171.0 | 132.8 | 64.9   |
| 42.5°  | 408.5 | 403.8 | 388.4 | 366.6 | 332.2 | 295.5 | 254.6 | 210.3 | 165.8 | 126.9 | 55.6   |
| 45°    | 409.9 | 404.9 | 388.6 | 364.2 | 330.6 | 292.0 | 250.3 | 205.8 | 160.1 | 118.9 | 46.4   |
| 47.5°  | 409.2 | 403.8 | 387.4 | 361.6 | 327.5 | 288.2 | 245.6 | 200.3 | 153.2 | 111.8 | 37.7   |
| 50°    | 408.0 | 402.3 | 384.8 | 358.3 | 323.2 | 283.5 | 240.4 | 193.7 | 146.1 | 103.0 | 29.8   |
| 52.5°  | 404.2 | 398.5 | 382.0 | 353.5 | 318.3 | 278.0 | 233.3 | 186.8 | 138.5 | 94.5  | 22.7   |
| 55°    | 399.5 | 394.3 | 377.0 | 349.3 | 311.9 | 271.4 | 226.6 | 179.5 | 131.2 | 85.7  | 16.3   |
| 57.5°  | 392.1 | 387.4 | 370.8 | 342.4 | 305.5 | 264.0 | 219.3 | 171.4 | 122.0 | 77.0  | 11.4   |
| 60°    | 383.1 | 378.4 | 362.3 | 334.6 | 298.1 | 255.7 | 211.2 | 163.2 | 113.7 | 68.2  | 7.1    |
| 62.5°  | 373.7 | 369.2 | 352.4 | 324.9 | 288.9 | 247.0 | 202.5 | 154.9 | 104.9 | 60.1  | 4.3    |
| 65°    | 361.1 | 356.9 | 341.7 | 313.3 | 278.7 | 237.5 | 192.8 | 144.9 | 95.9  | 51.1  | 2.4    |
| 67.5°  | 347.9 | 344.1 | 328.7 | 302.6 | 266.9 | 227.1 | 182.8 | 135.2 | 86.4  | 43.3  | 1.2    |
| 70°    | 333.7 | 328.9 | 314.7 | 288.2 | 254.8 | 215.3 | 171.9 | 125.3 | 77.4  | 35.8  | 0.0    |
| 72.5°  | 317.1 | 313.5 | 299.8 | 274.7 | 240.8 | 202.7 | 160.8 | 114.4 | 67.5  | 28.4  | 0.2    |
| 75°    | 301.0 | 296.5 | 283.9 | 260.2 | 227.1 | 189.4 | 148.5 | 104.2 | 57.8  | 21.8  | 0.2    |
| 77.5°  | 280.1 | 278.7 | 266.9 | 243.9 | 214.1 | 176.7 | 135.0 | 91.9  | 48.5  | 15.6  | 0.2    |
| 80°    | 259.3 | 257.9 | 248.6 | 227.6 | 198.9 | 161.5 | 122.4 | 80.3  | 39.5  | 10.4  | 0.2    |
| 82.5°  | 238.7 | 236.8 | 228.0 | 210.5 | 183.5 | 148.7 | 109.4 | 68.7  | 31.3  | 6.4   | 0.2    |
| 85°    | 220.2 | 217.9 | 208.4 | 192.3 | 167.7 | 134.3 | 95.9  | 57.3  | 23.2  | 3.6   | 0.5    |
| 87.5°  | 204.4 | 202.7 | 192.3 | 175.7 | 151.6 | 120.8 | 84.1  | 46.4  | 16.3  | 1.7   | 0.7    |
| 90°    | 190.9 | 187.3 | 178.1 | 160.6 | 136.4 | 105.9 | 71.5  | 37.2  | 10.9  | 0.9   | 0.9    |
| 92.5°  | 177.6 | 174.5 | 164.3 | 146.3 | 122.9 | 93.1  | 59.4  | 28.4  | 6.9   | 0.5   | 1.2    |
| 95°    | 163.9 | 160.6 | 150.6 | 134.0 | 109.2 | 80.0  | 48.8  | 20.8  | 3.8   | 0.5   | 1.2    |
| 97.5°  | 150.4 | 147.3 | 136.9 | 120.3 | 96.9  | 68.7  | 38.6  | 14.7  | 1.9   | 0.5   | 0.9    |
| 100°   | 137.8 | 134.3 | 124.8 | 108.2 | 84.5  | 57.3  | 29.8  | 9.5   | 1.2   | 0.5   | 0.9    |
| 102.5° | 124.6 | 121.7 | 112.0 | 95.9  | 71.8  | 46.7  | 22.3  | 5.9   | 0.5   | 0.5   | 0.7    |
| 105°   | 112.7 | 109.2 | 99.7  | 83.1  | 61.1  | 36.7  | 15.6  | 3.6   | 0.5   | 0.5   | 0.7    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 10°  | 20°  | 30°  | 40°  | 50°  | 60° | 70° | 80° | 90° | 112.5° |
|--------|------|------|------|------|------|------|-----|-----|-----|-----|--------|
| 112.5° | 73.4 | 70.6 | 62.3 | 48.3 | 31.0 | 14.4 | 4.3 | 0.7 | 0.7 | 0.7 | 0.7    |
| 115°   | 61.3 | 57.1 | 49.7 | 37.4 | 23.0 | 9.5  | 2.1 | 0.7 | 0.7 | 0.7 | 0.7    |
| 117.5° | 49.0 | 45.5 | 40.3 | 28.4 | 15.2 | 6.2  | 1.2 | 0.7 | 0.7 | 0.7 | 0.7    |
| 120°   | 38.4 | 35.0 | 29.1 | 19.7 | 10.2 | 3.6  | 0.5 | 0.7 | 0.7 | 0.7 | 0.7    |
| 122.5° | 27.5 | 24.9 | 19.7 | 12.8 | 6.2  | 1.7  | 0.7 | 0.7 | 0.9 | 0.9 | 0.7    |
| 125°   | 18.2 | 16.8 | 13.0 | 7.8  | 3.8  | 0.7  | 0.7 | 0.7 | 0.9 | 0.9 | 0.7    |
| 127.5° | 11.8 | 10.7 | 7.6  | 4.5  | 1.7  | 0.7  | 0.7 | 0.9 | 0.9 | 0.9 | 0.7    |
| 130°   | 6.6  | 5.9  | 4.5  | 2.6  | 0.7  | 0.7  | 0.7 | 0.9 | 0.9 | 0.9 | 0.7    |
| 132.5° | 3.8  | 3.6  | 2.4  | 0.5  | 0.7  | 0.7  | 0.7 | 0.9 | 0.9 | 0.9 | 0.9    |
| 135°   | 0.9  | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9 | 0.9 | 1.2 | 1.2 | 0.9    |
| 137.5° | 0.2  | 0.2  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9 | 1.2 | 1.2 | 1.2 | 0.9    |
| 140°   | 0.2  | 0.2  | 0.5  | 0.7  | 0.7  | 0.7  | 0.9 | 1.2 | 1.2 | 1.2 | 0.9    |
| 142.5° | 0.2  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 1.2 | 1.2 | 0.9 | 0.9    |
| 145°   | 0.2  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 1.2 | 0.9 | 0.9 | 0.9    |
| 147.5° | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 1.2 | 1.2 | 0.9 | 0.9    |
| 150°   | 0.2  | 0.5  | 0.5  | 0.7  | 0.9  | 0.9  | 0.9 | 1.2 | 0.9 | 0.9 | 0.9    |
| 152.5° | 0.2  | 0.5  | 0.5  | 0.7  | 0.9  | 0.9  | 0.9 | 1.2 | 0.9 | 0.9 | 0.9    |
| 155°   | 0.5  | 0.5  | 0.5  | 0.7  | 0.9  | 0.9  | 0.9 | 1.2 | 0.9 | 0.9 | 1.2    |
| 157.5° | 0.5  | 0.5  | 0.5  | 0.7  | 0.9  | 0.9  | 0.9 | 1.2 | 0.9 | 0.9 | 1.2    |
| 160°   | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 0.9 | 0.9 | 0.9 | 0.9    |
| 162.5° | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 0.9 | 0.9 | 0.9 | 0.9    |
| 165°   | 0.5  | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9 | 0.9 | 0.9 | 0.9 | 0.9    |
| 167.5° | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.7  | 0.9 | 0.9 | 0.9 | 0.9 | 0.9    |
| 170°   | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.7  | 0.9 | 1.2 | 1.2 | 1.2 | 1.2    |
| 172.5° | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 1.2 | 1.2 | 1.2 | 1.2    |
| 175°   | 0.5  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 1.2 | 1.2 | 1.2 | 1.2    |
| 177.5° | 0.2  | 0.5  | 0.5  | 0.7  | 0.7  | 0.9  | 0.9 | 1.2 | 1.2 | 1.2 | 0.9    |
| 180°   | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7 | 0.7 | 0.7 | 0.7 | 0.7    |



TEST NUMBER: P550707

CATALOG NUMBER: FCC-X-2-LD4-1LO-30-UNV-81-96-ED1D-90

**CANDELA DISTRIBUTION (continued):**

|        | 135°  | 157.5° | 180°  |
|--------|-------|--------|-------|
| 0°     | 185.9 | 185.9  | 185.9 |
| 2.5°   | 176.9 | 173.6  | 172.6 |
| 5°     | 167.4 | 162.0  | 158.9 |
| 7.5°   | 157.9 | 150.6  | 147.1 |
| 10°    | 149.2 | 138.8  | 135.0 |
| 12.5°  | 138.8 | 126.7  | 120.8 |
| 15°    | 128.8 | 113.2  | 107.5 |
| 17.5°  | 117.7 | 100.2  | 93.5  |
| 20°    | 107.3 | 87.1   | 80.3  |
| 22.5°  | 95.4  | 74.4   | 66.8  |
| 25°    | 84.8  | 61.6   | 53.0  |
| 27.5°  | 72.9  | 48.5   | 41.2  |
| 30°    | 61.8  | 37.2   | 29.8  |
| 32.5°  | 51.1  | 27.2   | 20.6  |
| 35°    | 41.2  | 18.5   | 13.0  |
| 37.5°  | 31.7  | 11.4   | 6.6   |
| 40°    | 23.0  | 5.9    | 3.1   |
| 42.5°  | 15.4  | 2.8    | 1.7   |
| 45°    | 9.5   | 1.4    | 0.0   |
| 47.5°  | 5.4   | 0.0    | 0.0   |
| 50°    | 2.8   | 0.0    | 0.0   |
| 52.5°  | 1.2   | 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°    | 0.2   | 0.2    | 0.2   |
| 77.5°  | 0.2   | 0.5    | 0.7   |
| 80°    | 0.5   | 0.9    | 1.2   |
| 82.5°  | 0.9   | 1.2    | 1.2   |
| 85°    | 0.9   | 1.2    | 1.4   |
| 87.5°  | 1.2   | 1.4    | 1.7   |
| 90°    | 1.4   | 1.7    | 1.7   |
| 92.5°  | 1.4   | 1.9    | 1.9   |
| 95°    | 1.7   | 1.9    | 2.1   |
| 97.5°  | 1.9   | 2.1    | 2.1   |
| 100°   | 1.7   | 2.1    | 2.4   |
| 102.5° | 1.4   | 2.1    | 2.1   |
| 105°   | 1.2   | 1.7    | 1.9   |





TEST NUMBER: P550707

CATALOG NUMBER: FCC-X-2-LD4-1LO-30-UNV-81-96-ED1D-90

**CANDELA DISTRIBUTION (continued):**

|        | 135° | 157.5° | 180° |
|--------|------|--------|------|
| 112.5° | 0.9  | 1.2    | 1.2  |
| 115°   | 0.7  | 0.9    | 1.2  |
| 117.5° | 0.7  | 0.9    | 0.9  |
| 120°   | 0.7  | 0.7    | 0.9  |
| 122.5° | 0.7  | 0.7    | 0.9  |
| 125°   | 0.7  | 0.7    | 0.9  |
| 127.5° | 0.9  | 0.7    | 0.7  |
| 130°   | 0.7  | 0.7    | 0.7  |
| 132.5° | 0.9  | 0.7    | 0.7  |
| 135°   | 0.9  | 0.7    | 0.7  |
| 137.5° | 0.9  | 0.7    | 0.7  |
| 140°   | 0.9  | 0.7    | 0.7  |
| 142.5° | 0.9  | 0.7    | 0.7  |
| 145°   | 0.7  | 0.7    | 0.7  |
| 147.5° | 0.7  | 0.7    | 0.7  |
| 150°   | 0.7  | 0.7    | 0.5  |
| 152.5° | 0.7  | 0.5    | 0.5  |
| 155°   | 0.7  | 0.5    | 0.2  |
| 157.5° | 0.9  | 0.5    | 0.2  |
| 160°   | 0.7  | 0.5    | 0.2  |
| 162.5° | 0.7  | 0.5    | 0.2  |
| 165°   | 0.7  | 0.5    | 0.0  |
| 167.5° | 0.7  | 0.5    | 0.2  |
| 170°   | 0.7  | 0.5    | 0.2  |
| 172.5° | 0.7  | 0.5    | 0.2  |
| 175°   | 0.7  | 0.2    | 0.2  |
| 177.5° | 0.7  | 0.2    | 0.2  |
| 180°   | 0.7  | 0.7    | 0.7  |



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







|        |      |      |      |      |      |      |      |     |     |     |     |
|--------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 107.5° | 99.5 | 96.6 | 87.1 | 71.5 | 50.0 | 27.9 | 10.4 | 1.9 | 0.5 | 0.7 | 0.7 |
| 110°   | 86.7 | 84.3 | 74.6 | 59.4 | 40.3 | 20.8 | 6.9  | 1.2 | 0.7 | 0.7 | 0.7 |







|        |     |     |     |
|--------|-----|-----|-----|
| 107.5° | 0.9 | 1.4 | 1.7 |
| 110°   | 0.9 | 1.2 | 1.4 |



(END OF REPORT)