

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P997137

Luminaire Tested: **SMX4RLSFS010-1000LM-3000K**

Issue Date: 3/11/2025



**Test Information**

Test Method: LM-41-14  
Report Number: P997137  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2410580A001)  
Test Lab:  
Issue Date: 3/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMX4RLSFS010-1000LM-3000K  
Description: 4IN ROUND, 90CRI, 0-10V DIMMING, DAMP LOCATION  
Light Source: SELECTABLE CCT 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

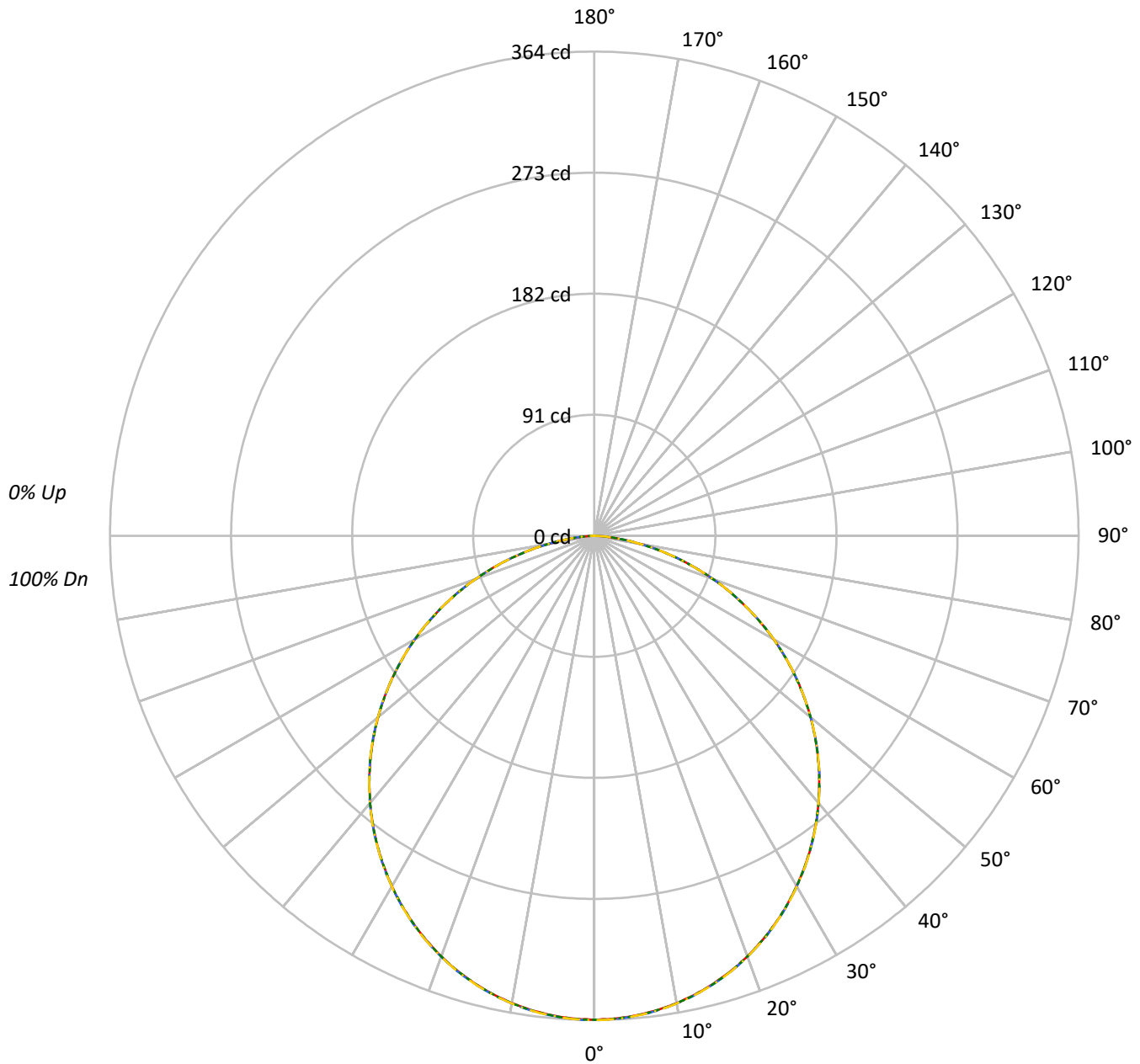
Lumens per Lamp: N/A  
Luminaire Lumens: 1013.9 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.9  
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: P997137

CATALOG NUMBER: SMX4RLSFS010-1000LM-3000K

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P997137

CATALOG NUMBER: SMX4RLSFS010-1000LM-3000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |    |    |
| 2   | 99  | 91  | 84  | 78  | 96  | 89  | 83  | 77  | 85  | 80  | 76  | 82  | 78  | 74  | 79  | 75  | 72  | 70  |    |    |
| 3   | 90  | 80  | 72  | 65  | 88  | 78  | 71  | 65  | 75  | 69  | 63  | 72  | 67  | 62  | 70  | 65  | 61  | 59  |    |    |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 50  |    |    |
| 5   | 76  | 63  | 54  | 48  | 74  | 62  | 54  | 47  | 60  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 46  | 44  |    |    |
| 6   | 70  | 57  | 48  | 41  | 68  | 56  | 47  | 41  | 54  | 47  | 41  | 52  | 46  | 41  | 51  | 45  | 40  | 38  |    |    |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 49  | 42  | 36  | 48  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |
| 8   | 61  | 47  | 39  | 33  | 59  | 46  | 38  | 33  | 45  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 30  |    |    |
| 9   | 57  | 43  | 35  | 29  | 55  | 43  | 35  | 29  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  | 27  |    |    |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 26  | 37  | 31  | 26  | 36  | 31  | 26  | 24  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 45797 | 45797 | 45797 | 45797 |
| 5°  | 45732 | 45744 | 45732 | 45744 |
| 10° | 45596 | 45609 | 45596 | 45609 |
| 15° | 45367 | 45393 | 45367 | 45393 |
| 20° | 45053 | 45066 | 45053 | 45066 |
| 25° | 44671 | 44671 | 44671 | 44671 |
| 30° | 44206 | 44206 | 44206 | 44206 |
| 35° | 43663 | 43678 | 43663 | 43678 |
| 40° | 43076 | 43076 | 43076 | 43076 |
| 45° | 42359 | 42359 | 42359 | 42359 |
| 50° | 41546 | 41527 | 41546 | 41527 |
| 55° | 40525 | 40504 | 40525 | 40504 |
| 60° | 39190 | 39190 | 39190 | 39190 |
| 65° | 37402 | 37402 | 37402 | 37402 |
| 70° | 34846 | 34846 | 34846 | 34846 |
| 75° | 31071 | 31023 | 31071 | 31023 |
| 80° | 25148 | 25221 | 25148 | 25221 |
| 85° | 15884 | 16750 | 15884 | 16750 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.4   | 3.4       |
| 10°-20°   | 98.3   | 9.7       |
| 20°-30°   | 148.3  | 14.6      |
| 30°-40°   | 177.9  | 17.5      |
| 40°-50°   | 183.6  | 18.1      |
| 50°-60°   | 165.0  | 16.3      |
| 60°-70°   | 124.2  | 12.2      |
| 70°-80°   | 67.7   | 6.7       |
| 80°-90°   | 14.7   | 1.5       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 280.9  | 27.7      |
| 0°-40°    | 458.8  | 45.3      |
| 0°-60°    | 807.3  | 79.6      |
| 0°-90°    | 1013.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1013.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0°  | 364 | 364 | 364  | 364  | 364  |      |
| 5°  | 362 | 362 | 362  | 362  | 362  | 34   |
| 15° | 348 | 348 | 348  | 348  | 348  | 98   |
| 25° | 322 | 322 | 322  | 322  | 322  | 148  |
| 35° | 284 | 284 | 284  | 284  | 284  | 178  |
| 45° | 238 | 238 | 238  | 238  | 238  | 184  |
| 55° | 185 | 185 | 185  | 185  | 185  | 165  |
| 65° | 126 | 126 | 126  | 126  | 126  | 124  |
| 75° | 64  | 64  | 64   | 64   | 64   | 68   |
| 85° | 11  | 12  | 11   | 12   | 11   | 14   |
| 90° | 0   | 0   | 0    | 0    | 0    |      |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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CATALOG NUMBER: SMX4RLSFS010-1000LM-3000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 363.9 | 363.9 | 363.9 | 363.9 | 363.9 | 363.9  | 363.9 | 363.9  | 363.9 | 363.9  | 363.9 |
| 0.5°  | 363.8 | 363.7 | 364.1 | 364.0 | 363.7 | 364.0  | 364.1 | 363.7  | 363.8 | 363.7  | 364.1 |
| 1°    | 363.5 | 363.6 | 364.0 | 364.0 | 363.9 | 364.0  | 364.0 | 363.6  | 363.5 | 363.6  | 364.0 |
| 1.5°  | 363.6 | 363.5 | 364.0 | 363.9 | 363.7 | 363.9  | 364.0 | 363.5  | 363.6 | 363.5  | 364.0 |
| 2°    | 363.3 | 363.3 | 363.7 | 363.8 | 363.5 | 363.8  | 363.7 | 363.3  | 363.3 | 363.3  | 363.7 |
| 2.5°  | 363.3 | 363.2 | 363.7 | 363.6 | 363.4 | 363.6  | 363.7 | 363.2  | 363.3 | 363.2  | 363.7 |
| 3°    | 363.1 | 363.0 | 363.4 | 363.4 | 363.3 | 363.4  | 363.4 | 363.0  | 363.1 | 363.0  | 363.4 |
| 3.5°  | 362.8 | 362.8 | 363.2 | 363.1 | 362.9 | 363.1  | 363.2 | 362.8  | 362.8 | 362.8  | 363.2 |
| 4°    | 362.6 | 362.5 | 362.9 | 363.0 | 362.8 | 363.0  | 362.9 | 362.5  | 362.6 | 362.5  | 362.9 |
| 4.5°  | 362.3 | 362.2 | 362.7 | 362.6 | 362.4 | 362.6  | 362.7 | 362.2  | 362.3 | 362.2  | 362.7 |
| 5°    | 362.0 | 361.9 | 362.2 | 362.2 | 362.1 | 362.2  | 362.2 | 361.9  | 362.0 | 361.9  | 362.2 |
| 5.5°  | 361.6 | 361.5 | 362.0 | 361.9 | 361.6 | 361.9  | 362.0 | 361.5  | 361.6 | 361.5  | 362.0 |
| 6°    | 361.1 | 361.1 | 361.5 | 361.5 | 361.3 | 361.5  | 361.5 | 361.1  | 361.1 | 361.1  | 361.5 |
| 6.5°  | 360.7 | 360.7 | 361.2 | 361.1 | 360.8 | 361.1  | 361.2 | 360.7  | 360.7 | 360.7  | 361.2 |
| 7°    | 360.2 | 360.1 | 360.6 | 360.7 | 360.5 | 360.7  | 360.6 | 360.1  | 360.2 | 360.1  | 360.6 |
| 7.5°  | 359.9 | 359.7 | 360.2 | 360.1 | 359.8 | 360.1  | 360.2 | 359.7  | 359.9 | 359.7  | 360.2 |
| 8°    | 359.2 | 359.2 | 359.5 | 359.6 | 359.4 | 359.6  | 359.5 | 359.2  | 359.2 | 359.2  | 359.5 |
| 8.5°  | 358.6 | 358.6 | 359.0 | 359.0 | 358.7 | 359.0  | 359.0 | 358.6  | 358.6 | 358.6  | 359.0 |
| 9°    | 358.1 | 358.0 | 358.4 | 358.3 | 358.1 | 358.3  | 358.4 | 358.0  | 358.1 | 358.0  | 358.4 |
| 9.5°  | 357.3 | 357.4 | 357.8 | 357.8 | 357.5 | 357.8  | 357.8 | 357.4  | 357.3 | 357.4  | 357.8 |
| 10°   | 356.8 | 356.7 | 357.0 | 357.1 | 356.9 | 357.1  | 357.0 | 356.7  | 356.8 | 356.7  | 357.0 |
| 10.5° | 356.2 | 355.9 | 356.3 | 356.4 | 356.0 | 356.4  | 356.3 | 355.9  | 356.2 | 355.9  | 356.3 |
| 11°   | 355.2 | 355.2 | 355.6 | 355.6 | 355.5 | 355.6  | 355.6 | 355.2  | 355.2 | 355.2  | 355.6 |
| 11.5° | 354.5 | 354.4 | 354.9 | 354.8 | 354.6 | 354.8  | 354.9 | 354.4  | 354.5 | 354.4  | 354.9 |
| 12°   | 353.7 | 353.6 | 354.0 | 354.0 | 353.9 | 354.0  | 354.0 | 353.6  | 353.7 | 353.6  | 354.0 |
| 12.5° | 352.8 | 352.8 | 353.2 | 353.2 | 352.9 | 353.2  | 353.2 | 352.8  | 352.8 | 352.8  | 353.2 |
| 13°   | 352.0 | 351.9 | 352.3 | 352.3 | 352.1 | 352.3  | 352.3 | 351.9  | 352.0 | 351.9  | 352.3 |
| 13.5° | 351.1 | 351.0 | 351.4 | 351.3 | 351.2 | 351.3  | 351.4 | 351.0  | 351.1 | 351.0  | 351.4 |
| 14°   | 350.1 | 350.1 | 350.4 | 350.5 | 350.3 | 350.5  | 350.4 | 350.1  | 350.1 | 350.1  | 350.4 |
| 14.5° | 349.2 | 349.1 | 349.5 | 349.5 | 349.3 | 349.5  | 349.5 | 349.1  | 349.2 | 349.1  | 349.5 |
| 15°   | 348.2 | 348.1 | 348.5 | 348.4 | 348.4 | 348.4  | 348.5 | 348.1  | 348.2 | 348.1  | 348.5 |
| 15.5° | 347.1 | 347.0 | 347.4 | 347.5 | 347.1 | 347.5  | 347.4 | 347.0  | 347.1 | 347.0  | 347.4 |
| 16°   | 346.0 | 346.0 | 346.4 | 346.3 | 346.3 | 346.3  | 346.4 | 346.0  | 346.0 | 346.0  | 346.4 |
| 16.5° | 345.0 | 344.9 | 345.3 | 345.2 | 345.0 | 345.2  | 345.3 | 344.9  | 345.0 | 344.9  | 345.3 |
| 17°   | 343.9 | 343.8 | 344.1 | 344.1 | 344.0 | 344.1  | 344.1 | 343.8  | 343.9 | 343.8  | 344.1 |
| 17.5° | 342.7 | 342.6 | 343.1 | 342.9 | 342.8 | 342.9  | 343.1 | 342.6  | 342.7 | 342.6  | 343.1 |
| 18°   | 341.5 | 341.4 | 341.8 | 341.7 | 341.6 | 341.7  | 341.8 | 341.4  | 341.5 | 341.4  | 341.8 |
| 18.5° | 340.4 | 340.2 | 340.6 | 340.5 | 340.2 | 340.5  | 340.6 | 340.2  | 340.4 | 340.2  | 340.6 |
| 19°   | 339.0 | 339.0 | 339.3 | 339.3 | 339.2 | 339.3  | 339.3 | 339.0  | 339.0 | 339.0  | 339.3 |
| 19.5° | 337.8 | 337.7 | 338.1 | 338.0 | 337.7 | 338.0  | 338.1 | 337.7  | 337.8 | 337.7  | 338.1 |
| 20°   | 336.4 | 336.3 | 336.7 | 336.6 | 336.5 | 336.6  | 336.7 | 336.3  | 336.4 | 336.3  | 336.7 |
| 20.5° | 335.1 | 335.0 | 335.5 | 335.4 | 335.1 | 335.4  | 335.5 | 335.0  | 335.1 | 335.0  | 335.5 |
| 21°   | 333.7 | 333.6 | 334.0 | 333.9 | 333.8 | 333.9  | 334.0 | 333.6  | 333.7 | 333.6  | 334.0 |

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**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 329.5 | 329.3 | 329.8 | 329.7 | 329.3 | 329.7  | 329.8 | 329.3  | 329.5 | 329.3  | 329.8 |
| 23°   | 327.9 | 327.9 | 328.2 | 328.1 | 328.0 | 328.1  | 328.2 | 327.9  | 327.9 | 327.9  | 328.2 |
| 23.5° | 326.5 | 326.3 | 326.8 | 326.7 | 326.4 | 326.7  | 326.8 | 326.3  | 326.5 | 326.3  | 326.8 |
| 24°   | 324.8 | 324.8 | 325.1 | 325.1 | 325.0 | 325.1  | 325.1 | 324.8  | 324.8 | 324.8  | 325.1 |
| 24.5° | 323.3 | 323.2 | 323.6 | 323.5 | 323.2 | 323.5  | 323.6 | 323.2  | 323.3 | 323.2  | 323.6 |
| 25°   | 321.7 | 321.6 | 322.0 | 321.9 | 321.7 | 321.9  | 322.0 | 321.6  | 321.7 | 321.6  | 322.0 |
| 25.5° | 320.1 | 319.9 | 320.3 | 320.3 | 320.1 | 320.3  | 320.3 | 319.9  | 320.1 | 319.9  | 320.3 |
| 26°   | 318.4 | 318.3 | 318.7 | 318.6 | 318.4 | 318.6  | 318.7 | 318.3  | 318.4 | 318.3  | 318.7 |
| 26.5° | 316.7 | 316.6 | 317.1 | 316.9 | 316.6 | 316.9  | 317.1 | 316.6  | 316.7 | 316.6  | 317.1 |
| 27°   | 315.0 | 314.9 | 315.3 | 315.2 | 315.1 | 315.2  | 315.3 | 314.9  | 315.0 | 314.9  | 315.3 |
| 27.5° | 313.3 | 313.1 | 313.6 | 313.5 | 313.2 | 313.5  | 313.6 | 313.1  | 313.3 | 313.1  | 313.6 |
| 28°   | 311.5 | 311.4 | 311.8 | 311.7 | 311.6 | 311.7  | 311.8 | 311.4  | 311.5 | 311.4  | 311.8 |
| 28.5° | 309.8 | 309.6 | 310.0 | 310.0 | 309.6 | 310.0  | 310.0 | 309.6  | 309.8 | 309.6  | 310.0 |
| 29°   | 307.9 | 307.8 | 308.2 | 308.1 | 307.9 | 308.1  | 308.2 | 307.8  | 307.9 | 307.8  | 308.2 |
| 29.5° | 306.1 | 306.0 | 306.4 | 306.3 | 306.0 | 306.3  | 306.4 | 306.0  | 306.1 | 306.0  | 306.4 |
| 30°   | 304.2 | 304.2 | 304.4 | 304.4 | 304.2 | 304.4  | 304.4 | 304.2  | 304.2 | 304.2  | 304.4 |
| 30.5° | 302.3 | 302.2 | 302.6 | 302.5 | 302.3 | 302.5  | 302.6 | 302.2  | 302.3 | 302.2  | 302.6 |
| 31°   | 300.4 | 300.4 | 300.7 | 300.6 | 300.4 | 300.6  | 300.7 | 300.4  | 300.4 | 300.4  | 300.7 |
| 31.5° | 298.5 | 298.4 | 298.8 | 298.6 | 298.4 | 298.6  | 298.8 | 298.4  | 298.5 | 298.4  | 298.8 |
| 32°   | 296.4 | 296.5 | 296.7 | 296.7 | 296.5 | 296.7  | 296.7 | 296.5  | 296.4 | 296.5  | 296.7 |
| 32.5° | 294.6 | 294.4 | 294.9 | 294.7 | 294.5 | 294.7  | 294.9 | 294.4  | 294.6 | 294.4  | 294.9 |
| 33°   | 292.6 | 292.5 | 292.8 | 292.7 | 292.5 | 292.7  | 292.8 | 292.5  | 292.6 | 292.5  | 292.8 |
| 33.5° | 290.5 | 290.4 | 290.8 | 290.7 | 290.4 | 290.7  | 290.8 | 290.4  | 290.5 | 290.4  | 290.8 |
| 34°   | 288.5 | 288.4 | 288.7 | 288.7 | 288.5 | 288.7  | 288.7 | 288.4  | 288.5 | 288.4  | 288.7 |
| 34.5° | 286.5 | 286.3 | 286.7 | 286.5 | 286.2 | 286.5  | 286.7 | 286.3  | 286.5 | 286.3  | 286.7 |
| 35°   | 284.2 | 284.2 | 284.5 | 284.4 | 284.3 | 284.4  | 284.5 | 284.2  | 284.2 | 284.2  | 284.5 |
| 35.5° | 282.2 | 282.1 | 282.5 | 282.3 | 282.1 | 282.3  | 282.5 | 282.1  | 282.2 | 282.1  | 282.5 |
| 36°   | 280.0 | 279.9 | 280.3 | 280.2 | 280.0 | 280.2  | 280.3 | 279.9  | 280.0 | 279.9  | 280.3 |
| 36.5° | 277.9 | 277.8 | 278.2 | 278.0 | 277.8 | 278.0  | 278.2 | 277.8  | 277.9 | 277.8  | 278.2 |
| 37°   | 275.6 | 275.6 | 275.9 | 275.8 | 275.7 | 275.8  | 275.9 | 275.6  | 275.6 | 275.6  | 275.9 |
| 37.5° | 273.6 | 273.4 | 273.8 | 273.7 | 273.4 | 273.7  | 273.8 | 273.4  | 273.6 | 273.4  | 273.8 |
| 38°   | 271.2 | 271.1 | 271.5 | 271.4 | 271.2 | 271.4  | 271.5 | 271.1  | 271.2 | 271.1  | 271.5 |
| 38.5° | 269.1 | 268.9 | 269.3 | 269.1 | 268.9 | 269.1  | 269.3 | 268.9  | 269.1 | 268.9  | 269.3 |
| 39°   | 266.8 | 266.7 | 267.0 | 266.9 | 266.8 | 266.9  | 267.0 | 266.7  | 266.8 | 266.7  | 267.0 |
| 39.5° | 264.4 | 264.4 | 264.7 | 264.6 | 264.4 | 264.6  | 264.7 | 264.4  | 264.4 | 264.4  | 264.7 |
| 40°   | 262.2 | 262.0 | 262.3 | 262.3 | 262.2 | 262.3  | 262.3 | 262.0  | 262.2 | 262.0  | 262.3 |
| 40.5° | 259.9 | 259.7 | 260.1 | 260.0 | 259.7 | 260.0  | 260.1 | 259.7  | 259.9 | 259.7  | 260.1 |
| 41°   | 257.4 | 257.4 | 257.6 | 257.6 | 257.4 | 257.6  | 257.6 | 257.4  | 257.4 | 257.4  | 257.6 |
| 41.5° | 255.1 | 255.0 | 255.4 | 255.2 | 255.0 | 255.2  | 255.4 | 255.0  | 255.1 | 255.0  | 255.4 |
| 42°   | 252.7 | 252.6 | 252.9 | 252.8 | 252.7 | 252.8  | 252.9 | 252.6  | 252.7 | 252.6  | 252.9 |
| 42.5° | 250.3 | 250.2 | 250.6 | 250.5 | 250.2 | 250.5  | 250.6 | 250.2  | 250.3 | 250.2  | 250.6 |
| 43°   | 248.0 | 247.8 | 248.1 | 248.1 | 247.9 | 248.1  | 248.1 | 247.8  | 248.0 | 247.8  | 248.1 |
| 43.5° | 245.5 | 245.3 | 245.7 | 245.5 | 245.3 | 245.5  | 245.7 | 245.3  | 245.5 | 245.3  | 245.7 |

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CATALOG NUMBER: SMX4RLSFS010-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 238.0 | 238.0 | 238.2 | 238.1 | 238.0 | 238.1  | 238.2 | 238.0  | 238.0 | 238.0  | 238.2 |
| 45.5° | 235.5 | 235.4 | 235.7 | 235.7 | 235.4 | 235.7  | 235.7 | 235.4  | 235.5 | 235.4  | 235.7 |
| 46°   | 233.0 | 232.9 | 233.2 | 233.1 | 232.9 | 233.1  | 233.2 | 232.9  | 233.0 | 232.9  | 233.2 |
| 46.5° | 230.4 | 230.4 | 230.6 | 230.5 | 230.3 | 230.5  | 230.6 | 230.4  | 230.4 | 230.4  | 230.6 |
| 47°   | 227.8 | 227.8 | 228.0 | 228.0 | 227.9 | 228.0  | 228.0 | 227.8  | 227.8 | 227.8  | 228.0 |
| 47.5° | 225.3 | 225.2 | 225.5 | 225.4 | 225.1 | 225.4  | 225.5 | 225.2  | 225.3 | 225.2  | 225.5 |
| 48°   | 222.7 | 222.6 | 222.9 | 222.8 | 222.6 | 222.8  | 222.9 | 222.6  | 222.7 | 222.6  | 222.9 |
| 48.5° | 220.1 | 220.0 | 220.2 | 220.2 | 219.9 | 220.2  | 220.2 | 220.0  | 220.1 | 220.0  | 220.2 |
| 49°   | 217.5 | 217.3 | 217.6 | 217.5 | 217.4 | 217.5  | 217.6 | 217.3  | 217.5 | 217.3  | 217.6 |
| 49.5° | 214.8 | 214.8 | 215.0 | 214.9 | 214.7 | 214.9  | 215.0 | 214.8  | 214.8 | 214.8  | 215.0 |
| 50°   | 212.2 | 212.0 | 212.3 | 212.2 | 212.1 | 212.2  | 212.3 | 212.0  | 212.2 | 212.0  | 212.3 |
| 50.5° | 209.5 | 209.4 | 209.6 | 209.5 | 209.3 | 209.5  | 209.6 | 209.4  | 209.5 | 209.4  | 209.6 |
| 51°   | 206.8 | 206.7 | 206.9 | 206.8 | 206.8 | 206.8  | 206.9 | 206.7  | 206.8 | 206.7  | 206.9 |
| 51.5° | 204.1 | 204.0 | 204.2 | 204.1 | 203.9 | 204.1  | 204.2 | 204.0  | 204.1 | 204.0  | 204.2 |
| 52°   | 201.3 | 201.3 | 201.5 | 201.4 | 201.3 | 201.4  | 201.5 | 201.3  | 201.3 | 201.3  | 201.5 |
| 52.5° | 198.6 | 198.5 | 198.8 | 198.7 | 198.5 | 198.7  | 198.8 | 198.5  | 198.6 | 198.5  | 198.8 |
| 53°   | 195.8 | 195.8 | 195.9 | 195.9 | 195.8 | 195.9  | 195.9 | 195.8  | 195.8 | 195.8  | 195.9 |
| 53.5° | 193.0 | 193.0 | 193.2 | 193.1 | 192.9 | 193.1  | 193.2 | 193.0  | 193.0 | 193.0  | 193.2 |
| 54°   | 190.3 | 190.2 | 190.4 | 190.3 | 190.3 | 190.3  | 190.4 | 190.2  | 190.3 | 190.2  | 190.4 |
| 54.5° | 187.5 | 187.4 | 187.6 | 187.5 | 187.3 | 187.5  | 187.6 | 187.4  | 187.5 | 187.4  | 187.6 |
| 55°   | 184.7 | 184.6 | 184.8 | 184.7 | 184.6 | 184.7  | 184.8 | 184.6  | 184.7 | 184.6  | 184.8 |
| 55.5° | 181.9 | 181.8 | 182.0 | 181.9 | 181.7 | 181.9  | 182.0 | 181.8  | 181.9 | 181.8  | 182.0 |
| 56°   | 179.0 | 178.9 | 179.1 | 179.0 | 178.9 | 179.0  | 179.1 | 178.9  | 179.0 | 178.9  | 179.1 |
| 56.5° | 176.1 | 176.1 | 176.3 | 176.2 | 176.0 | 176.2  | 176.3 | 176.1  | 176.1 | 176.1  | 176.3 |
| 57°   | 173.2 | 173.1 | 173.3 | 173.3 | 173.2 | 173.3  | 173.3 | 173.1  | 173.2 | 173.1  | 173.3 |
| 57.5° | 170.4 | 170.3 | 170.5 | 170.4 | 170.3 | 170.4  | 170.5 | 170.3  | 170.4 | 170.3  | 170.5 |
| 58°   | 167.4 | 167.4 | 167.6 | 167.5 | 167.4 | 167.5  | 167.6 | 167.4  | 167.4 | 167.4  | 167.6 |
| 58.5° | 164.6 | 164.5 | 164.7 | 164.6 | 164.4 | 164.6  | 164.7 | 164.5  | 164.6 | 164.5  | 164.7 |
| 59°   | 161.6 | 161.5 | 161.7 | 161.7 | 161.6 | 161.7  | 161.7 | 161.5  | 161.6 | 161.5  | 161.7 |
| 59.5° | 158.7 | 158.6 | 158.8 | 158.7 | 158.6 | 158.7  | 158.8 | 158.6  | 158.7 | 158.6  | 158.8 |
| 60°   | 155.7 | 155.7 | 155.8 | 155.8 | 155.7 | 155.8  | 155.8 | 155.7  | 155.7 | 155.7  | 155.8 |
| 60.5° | 152.8 | 152.8 | 152.9 | 152.8 | 152.7 | 152.8  | 152.9 | 152.8  | 152.8 | 152.8  | 152.9 |
| 61°   | 149.8 | 149.7 | 149.9 | 149.8 | 149.7 | 149.8  | 149.9 | 149.7  | 149.8 | 149.7  | 149.9 |
| 61.5° | 146.9 | 146.8 | 147.0 | 146.9 | 146.7 | 146.9  | 147.0 | 146.8  | 146.9 | 146.8  | 147.0 |
| 62°   | 143.8 | 143.8 | 143.9 | 143.8 | 143.8 | 143.8  | 143.9 | 143.8  | 143.8 | 143.8  | 143.9 |
| 62.5° | 140.8 | 140.8 | 140.9 | 140.8 | 140.7 | 140.8  | 140.9 | 140.8  | 140.8 | 140.8  | 140.9 |
| 63°   | 137.7 | 137.7 | 137.9 | 137.8 | 137.7 | 137.8  | 137.9 | 137.7  | 137.7 | 137.7  | 137.9 |
| 63.5° | 134.8 | 134.7 | 134.9 | 134.8 | 134.6 | 134.8  | 134.9 | 134.7  | 134.8 | 134.7  | 134.9 |
| 64°   | 131.7 | 131.7 | 131.8 | 131.7 | 131.6 | 131.7  | 131.8 | 131.7  | 131.7 | 131.7  | 131.8 |
| 64.5° | 128.7 | 128.6 | 128.8 | 128.7 | 128.6 | 128.7  | 128.8 | 128.6  | 128.7 | 128.6  | 128.8 |
| 65°   | 125.6 | 125.6 | 125.7 | 125.7 | 125.6 | 125.7  | 125.7 | 125.6  | 125.6 | 125.6  | 125.7 |
| 65.5° | 122.6 | 122.5 | 122.7 | 122.6 | 122.4 | 122.6  | 122.7 | 122.5  | 122.6 | 122.5  | 122.7 |
| 66°   | 119.5 | 119.4 | 119.5 | 119.5 | 119.4 | 119.5  | 119.5 | 119.4  | 119.5 | 119.4  | 119.5 |



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P997137

CATALOG NUMBER: SMX4RLSFS010-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 110.3 | 110.2 | 110.3 | 110.3 | 110.1 | 110.3  | 110.3 | 110.2  | 110.3 | 110.2  | 110.3 |
| 68°   | 107.1 | 107.1 | 107.2 | 107.2 | 107.1 | 107.2  | 107.2 | 107.1  | 107.1 | 107.1  | 107.2 |
| 68.5° | 104.1 | 104.0 | 104.1 | 104.1 | 103.9 | 104.1  | 104.1 | 104.0  | 104.1 | 104.0  | 104.1 |
| 69°   | 100.9 | 100.9 | 101.0 | 101.0 | 100.9 | 101.0  | 101.0 | 100.9  | 100.9 | 100.9  | 101.0 |
| 69.5° | 97.9  | 97.8  | 97.9  | 97.9  | 97.8  | 97.9   | 97.9  | 97.8   | 97.9  | 97.8   | 97.9  |
| 70°   | 94.7  | 94.7  | 94.8  | 94.8  | 94.7  | 94.8   | 94.8  | 94.7   | 94.7  | 94.7   | 94.8  |
| 70.5° | 91.7  | 91.6  | 91.7  | 91.7  | 91.6  | 91.7   | 91.7  | 91.6   | 91.7  | 91.6   | 91.7  |
| 71°   | 88.5  | 88.5  | 88.6  | 88.5  | 88.5  | 88.5   | 88.6  | 88.5   | 88.5  | 88.5   | 88.6  |
| 71.5° | 85.4  | 85.4  | 85.5  | 85.4  | 85.4  | 85.4   | 85.5  | 85.4   | 85.4  | 85.4   | 85.5  |
| 72°   | 82.3  | 82.3  | 82.4  | 82.4  | 82.4  | 82.4   | 82.4  | 82.3   | 82.3  | 82.3   | 82.4  |
| 72.5° | 79.2  | 79.2  | 79.3  | 79.3  | 79.2  | 79.3   | 79.3  | 79.2   | 79.2  | 79.2   | 79.3  |
| 73°   | 76.1  | 76.1  | 76.2  | 76.2  | 76.1  | 76.2   | 76.2  | 76.1   | 76.1  | 76.1   | 76.2  |
| 73.5° | 73.1  | 73.1  | 73.1  | 73.1  | 73.0  | 73.1   | 73.1  | 73.1   | 73.1  | 73.1   | 73.1  |
| 74°   | 70.0  | 70.0  | 70.1  | 70.0  | 70.0  | 70.0   | 70.1  | 70.0   | 70.0  | 70.0   | 70.1  |
| 74.5° | 66.9  | 66.9  | 67.0  | 67.0  | 66.9  | 67.0   | 67.0  | 66.9   | 66.9  | 66.9   | 67.0  |
| 75°   | 63.9  | 63.9  | 63.9  | 63.9  | 63.8  | 63.9   | 63.9  | 63.9   | 63.9  | 63.9   | 63.9  |
| 75.5° | 60.8  | 60.8  | 60.9  | 60.9  | 60.8  | 60.9   | 60.9  | 60.8   | 60.8  | 60.8   | 60.9  |
| 76°   | 57.8  | 57.8  | 57.9  | 57.9  | 57.8  | 57.9   | 57.9  | 57.8   | 57.8  | 57.8   | 57.9  |
| 76.5° | 54.8  | 54.8  | 54.9  | 54.9  | 54.8  | 54.9   | 54.9  | 54.8   | 54.8  | 54.8   | 54.9  |
| 77°   | 51.9  | 51.9  | 51.9  | 52.0  | 51.9  | 52.0   | 51.9  | 51.9   | 51.9  | 51.9   | 51.9  |
| 77.5° | 48.9  | 48.9  | 49.0  | 49.0  | 48.9  | 49.0   | 49.0  | 48.9   | 48.9  | 48.9   | 49.0  |
| 78°   | 46.0  | 46.0  | 46.1  | 46.1  | 46.1  | 46.1   | 46.1  | 46.0   | 46.0  | 46.0   | 46.1  |
| 78.5° | 43.1  | 43.1  | 43.2  | 43.3  | 43.1  | 43.3   | 43.2  | 43.1   | 43.1  | 43.1   | 43.2  |
| 79°   | 40.3  | 40.4  | 40.4  | 40.5  | 40.4  | 40.5   | 40.4  | 40.4   | 40.3  | 40.4   | 40.4  |
| 79.5° | 37.4  | 37.6  | 37.6  | 37.7  | 37.5  | 37.7   | 37.6  | 37.6   | 37.4  | 37.6   | 37.6  |
| 80°   | 34.7  | 34.8  | 34.9  | 34.9  | 34.8  | 34.9   | 34.9  | 34.8   | 34.7  | 34.8   | 34.9  |
| 80.5° | 32.0  | 32.1  | 32.2  | 32.2  | 32.1  | 32.2   | 32.2  | 32.1   | 32.0  | 32.1   | 32.2  |
| 81°   | 29.4  | 29.5  | 29.6  | 29.6  | 29.5  | 29.6   | 29.6  | 29.5   | 29.4  | 29.5   | 29.6  |
| 81.5° | 26.8  | 26.9  | 27.0  | 27.1  | 27.0  | 27.1   | 27.0  | 26.9   | 26.8  | 26.9   | 27.0  |
| 82°   | 24.3  | 24.4  | 24.5  | 24.6  | 24.5  | 24.6   | 24.5  | 24.4   | 24.3  | 24.4   | 24.5  |
| 82.5° | 21.8  | 21.9  | 22.0  | 22.1  | 22.1  | 22.1   | 22.0  | 21.9   | 21.8  | 21.9   | 22.0  |
| 83°   | 19.5  | 19.5  | 19.6  | 19.8  | 19.8  | 19.8   | 19.6  | 19.5   | 19.5  | 19.5   | 19.6  |
| 83.5° | 17.2  | 17.2  | 17.4  | 17.5  | 17.6  | 17.5   | 17.4  | 17.2   | 17.2  | 17.2   | 17.4  |
| 84°   | 15.0  | 15.1  | 15.3  | 15.5  | 15.5  | 15.5   | 15.3  | 15.1   | 15.0  | 15.1   | 15.3  |
| 84.5° | 12.9  | 13.1  | 13.3  | 13.5  | 13.5  | 13.5   | 13.3  | 13.1   | 12.9  | 13.1   | 13.3  |
| 85°   | 11.0  | 11.2  | 11.4  | 11.6  | 11.6  | 11.6   | 11.4  | 11.2   | 11.0  | 11.2   | 11.4  |
| 85.5° | 9.3   | 9.4   | 9.5   | 9.8   | 9.6   | 9.8    | 9.5   | 9.4    | 9.3   | 9.4    | 9.5   |
| 86°   | 7.7   | 7.7   | 7.8   | 8.1   | 8.0   | 8.1    | 7.8   | 7.7    | 7.7   | 7.7    | 7.8   |
| 86.5° | 6.2   | 6.2   | 6.5   | 6.7   | 6.6   | 6.7    | 6.5   | 6.2    | 6.2   | 6.2    | 6.5   |
| 87°   | 4.8   | 4.9   | 5.2   | 5.4   | 5.3   | 5.4    | 5.2   | 4.9    | 4.8   | 4.9    | 5.2   |
| 87.5° | 3.6   | 3.7   | 4.1   | 4.4   | 4.2   | 4.4    | 4.1   | 3.7    | 3.6   | 3.7    | 4.1   |
| 88°   | 2.7   | 2.7   | 3.0   | 3.4   | 3.3   | 3.4    | 3.0   | 2.7    | 2.7   | 2.7    | 3.0   |
| 88.5° | 1.9   | 1.9   | 2.2   | 2.5   | 2.5   | 2.5    | 2.2   | 1.9    | 1.9   | 1.9    | 2.2   |

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



TEST NUMBER: P997137  
CATALOG NUMBER: SMX4RLSFS010-1000LM-3000K

CANDELA DISTRIBUTION (continued):

|     | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-----|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P997137

CATALOG NUMBER: SMX4RLSFS010-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 363.9  | 363.9 | 363.9  | 363.9 | 363.9  | 363.9 |
| 0.5°  | 364.0  | 363.7 | 364.0  | 364.1 | 363.7  | 363.8 |
| 1°    | 364.0  | 363.9 | 364.0  | 364.0 | 363.6  | 363.5 |
| 1.5°  | 363.9  | 363.7 | 363.9  | 364.0 | 363.5  | 363.6 |
| 2°    | 363.8  | 363.5 | 363.8  | 363.7 | 363.3  | 363.3 |
| 2.5°  | 363.6  | 363.4 | 363.6  | 363.7 | 363.2  | 363.3 |
| 3°    | 363.4  | 363.3 | 363.4  | 363.4 | 363.0  | 363.1 |
| 3.5°  | 363.1  | 362.9 | 363.1  | 363.2 | 362.8  | 362.8 |
| 4°    | 363.0  | 362.8 | 363.0  | 362.9 | 362.5  | 362.6 |
| 4.5°  | 362.6  | 362.4 | 362.6  | 362.7 | 362.2  | 362.3 |
| 5°    | 362.2  | 362.1 | 362.2  | 362.2 | 361.9  | 362.0 |
| 5.5°  | 361.9  | 361.6 | 361.9  | 362.0 | 361.5  | 361.6 |
| 6°    | 361.5  | 361.3 | 361.5  | 361.5 | 361.1  | 361.1 |
| 6.5°  | 361.1  | 360.8 | 361.1  | 361.2 | 360.7  | 360.7 |
| 7°    | 360.7  | 360.5 | 360.7  | 360.6 | 360.1  | 360.2 |
| 7.5°  | 360.1  | 359.8 | 360.1  | 360.2 | 359.7  | 359.9 |
| 8°    | 359.6  | 359.4 | 359.6  | 359.5 | 359.2  | 359.2 |
| 8.5°  | 359.0  | 358.7 | 359.0  | 359.0 | 358.6  | 358.6 |
| 9°    | 358.3  | 358.1 | 358.3  | 358.4 | 358.0  | 358.1 |
| 9.5°  | 357.8  | 357.5 | 357.8  | 357.8 | 357.4  | 357.3 |
| 10°   | 357.1  | 356.9 | 357.1  | 357.0 | 356.7  | 356.8 |
| 10.5° | 356.4  | 356.0 | 356.4  | 356.3 | 355.9  | 356.2 |
| 11°   | 355.6  | 355.5 | 355.6  | 355.6 | 355.2  | 355.2 |
| 11.5° | 354.8  | 354.6 | 354.8  | 354.9 | 354.4  | 354.5 |
| 12°   | 354.0  | 353.9 | 354.0  | 354.0 | 353.6  | 353.7 |
| 12.5° | 353.2  | 352.9 | 353.2  | 353.2 | 352.8  | 352.8 |
| 13°   | 352.3  | 352.1 | 352.3  | 352.3 | 351.9  | 352.0 |
| 13.5° | 351.3  | 351.2 | 351.3  | 351.4 | 351.0  | 351.1 |
| 14°   | 350.5  | 350.3 | 350.5  | 350.4 | 350.1  | 350.1 |
| 14.5° | 349.5  | 349.3 | 349.5  | 349.5 | 349.1  | 349.2 |
| 15°   | 348.4  | 348.4 | 348.4  | 348.5 | 348.1  | 348.2 |
| 15.5° | 347.5  | 347.1 | 347.5  | 347.4 | 347.0  | 347.1 |
| 16°   | 346.3  | 346.3 | 346.3  | 346.4 | 346.0  | 346.0 |
| 16.5° | 345.2  | 345.0 | 345.2  | 345.3 | 344.9  | 345.0 |
| 17°   | 344.1  | 344.0 | 344.1  | 344.1 | 343.8  | 343.9 |
| 17.5° | 342.9  | 342.8 | 342.9  | 343.1 | 342.6  | 342.7 |
| 18°   | 341.7  | 341.6 | 341.7  | 341.8 | 341.4  | 341.5 |
| 18.5° | 340.5  | 340.2 | 340.5  | 340.6 | 340.2  | 340.4 |
| 19°   | 339.3  | 339.2 | 339.3  | 339.3 | 339.0  | 339.0 |
| 19.5° | 338.0  | 337.7 | 338.0  | 338.1 | 337.7  | 337.8 |
| 20°   | 336.6  | 336.5 | 336.6  | 336.7 | 336.3  | 336.4 |
| 20.5° | 335.4  | 335.1 | 335.4  | 335.5 | 335.0  | 335.1 |
| 21°   | 333.9  | 333.8 | 333.9  | 334.0 | 333.6  | 333.7 |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P997137

CATALOG NUMBER: SMX4RLSFS010-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 329.7  | 329.3 | 329.7  | 329.8 | 329.3  | 329.5 |
| 23°   | 328.1  | 328.0 | 328.1  | 328.2 | 327.9  | 327.9 |
| 23.5° | 326.7  | 326.4 | 326.7  | 326.8 | 326.3  | 326.5 |
| 24°   | 325.1  | 325.0 | 325.1  | 325.1 | 324.8  | 324.8 |
| 24.5° | 323.5  | 323.2 | 323.5  | 323.6 | 323.2  | 323.3 |
| 25°   | 321.9  | 321.7 | 321.9  | 322.0 | 321.6  | 321.7 |
| 25.5° | 320.3  | 320.1 | 320.3  | 320.3 | 319.9  | 320.1 |
| 26°   | 318.6  | 318.4 | 318.6  | 318.7 | 318.3  | 318.4 |
| 26.5° | 316.9  | 316.6 | 316.9  | 317.1 | 316.6  | 316.7 |
| 27°   | 315.2  | 315.1 | 315.2  | 315.3 | 314.9  | 315.0 |
| 27.5° | 313.5  | 313.2 | 313.5  | 313.6 | 313.1  | 313.3 |
| 28°   | 311.7  | 311.6 | 311.7  | 311.8 | 311.4  | 311.5 |
| 28.5° | 310.0  | 309.6 | 310.0  | 310.0 | 309.6  | 309.8 |
| 29°   | 308.1  | 307.9 | 308.1  | 308.2 | 307.8  | 307.9 |
| 29.5° | 306.3  | 306.0 | 306.3  | 306.4 | 306.0  | 306.1 |
| 30°   | 304.4  | 304.2 | 304.4  | 304.4 | 304.2  | 304.2 |
| 30.5° | 302.5  | 302.3 | 302.5  | 302.6 | 302.2  | 302.3 |
| 31°   | 300.6  | 300.4 | 300.6  | 300.7 | 300.4  | 300.4 |
| 31.5° | 298.6  | 298.4 | 298.6  | 298.8 | 298.4  | 298.5 |
| 32°   | 296.7  | 296.5 | 296.7  | 296.7 | 296.5  | 296.4 |
| 32.5° | 294.7  | 294.5 | 294.7  | 294.9 | 294.4  | 294.6 |
| 33°   | 292.7  | 292.5 | 292.7  | 292.8 | 292.5  | 292.6 |
| 33.5° | 290.7  | 290.4 | 290.7  | 290.8 | 290.4  | 290.5 |
| 34°   | 288.7  | 288.5 | 288.7  | 288.7 | 288.4  | 288.5 |
| 34.5° | 286.5  | 286.2 | 286.5  | 286.7 | 286.3  | 286.5 |
| 35°   | 284.4  | 284.3 | 284.4  | 284.5 | 284.2  | 284.2 |
| 35.5° | 282.3  | 282.1 | 282.3  | 282.5 | 282.1  | 282.2 |
| 36°   | 280.2  | 280.0 | 280.2  | 280.3 | 279.9  | 280.0 |
| 36.5° | 278.0  | 277.8 | 278.0  | 278.2 | 277.8  | 277.9 |
| 37°   | 275.8  | 275.7 | 275.8  | 275.9 | 275.6  | 275.6 |
| 37.5° | 273.7  | 273.4 | 273.7  | 273.8 | 273.4  | 273.6 |
| 38°   | 271.4  | 271.2 | 271.4  | 271.5 | 271.1  | 271.2 |
| 38.5° | 269.1  | 268.9 | 269.1  | 269.3 | 268.9  | 269.1 |
| 39°   | 266.9  | 266.8 | 266.9  | 267.0 | 266.7  | 266.8 |
| 39.5° | 264.6  | 264.4 | 264.6  | 264.7 | 264.4  | 264.4 |
| 40°   | 262.3  | 262.2 | 262.3  | 262.3 | 262.0  | 262.2 |
| 40.5° | 260.0  | 259.7 | 260.0  | 260.1 | 259.7  | 259.9 |
| 41°   | 257.6  | 257.4 | 257.6  | 257.6 | 257.4  | 257.4 |
| 41.5° | 255.2  | 255.0 | 255.2  | 255.4 | 255.0  | 255.1 |
| 42°   | 252.8  | 252.7 | 252.8  | 252.9 | 252.6  | 252.7 |
| 42.5° | 250.5  | 250.2 | 250.5  | 250.6 | 250.2  | 250.3 |
| 43°   | 248.1  | 247.9 | 248.1  | 248.1 | 247.8  | 248.0 |
| 43.5° | 245.5  | 245.3 | 245.5  | 245.7 | 245.3  | 245.5 |

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TEST NUMBER: P997137

CATALOG NUMBER: SMX4RLSFS010-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 238.1  | 238.0 | 238.1  | 238.2 | 238.0  | 238.0 |
| 45.5° | 235.7  | 235.4 | 235.7  | 235.7 | 235.4  | 235.5 |
| 46°   | 233.1  | 232.9 | 233.1  | 233.2 | 232.9  | 233.0 |
| 46.5° | 230.5  | 230.3 | 230.5  | 230.6 | 230.4  | 230.4 |
| 47°   | 228.0  | 227.9 | 228.0  | 228.0 | 227.8  | 227.8 |
| 47.5° | 225.4  | 225.1 | 225.4  | 225.5 | 225.2  | 225.3 |
| 48°   | 222.8  | 222.6 | 222.8  | 222.9 | 222.6  | 222.7 |
| 48.5° | 220.2  | 219.9 | 220.2  | 220.2 | 220.0  | 220.1 |
| 49°   | 217.5  | 217.4 | 217.5  | 217.6 | 217.3  | 217.5 |
| 49.5° | 214.9  | 214.7 | 214.9  | 215.0 | 214.8  | 214.8 |
| 50°   | 212.2  | 212.1 | 212.2  | 212.3 | 212.0  | 212.2 |
| 50.5° | 209.5  | 209.3 | 209.5  | 209.6 | 209.4  | 209.5 |
| 51°   | 206.8  | 206.8 | 206.8  | 206.9 | 206.7  | 206.8 |
| 51.5° | 204.1  | 203.9 | 204.1  | 204.2 | 204.0  | 204.1 |
| 52°   | 201.4  | 201.3 | 201.4  | 201.5 | 201.3  | 201.3 |
| 52.5° | 198.7  | 198.5 | 198.7  | 198.8 | 198.5  | 198.6 |
| 53°   | 195.9  | 195.8 | 195.9  | 195.9 | 195.8  | 195.8 |
| 53.5° | 193.1  | 192.9 | 193.1  | 193.2 | 193.0  | 193.0 |
| 54°   | 190.3  | 190.3 | 190.3  | 190.4 | 190.2  | 190.3 |
| 54.5° | 187.5  | 187.3 | 187.5  | 187.6 | 187.4  | 187.5 |
| 55°   | 184.7  | 184.6 | 184.7  | 184.8 | 184.6  | 184.7 |
| 55.5° | 181.9  | 181.7 | 181.9  | 182.0 | 181.8  | 181.9 |
| 56°   | 179.0  | 178.9 | 179.0  | 179.1 | 178.9  | 179.0 |
| 56.5° | 176.2  | 176.0 | 176.2  | 176.3 | 176.1  | 176.1 |
| 57°   | 173.3  | 173.2 | 173.3  | 173.3 | 173.1  | 173.2 |
| 57.5° | 170.4  | 170.3 | 170.4  | 170.5 | 170.3  | 170.4 |
| 58°   | 167.5  | 167.4 | 167.5  | 167.6 | 167.4  | 167.4 |
| 58.5° | 164.6  | 164.4 | 164.6  | 164.7 | 164.5  | 164.6 |
| 59°   | 161.7  | 161.6 | 161.7  | 161.7 | 161.5  | 161.6 |
| 59.5° | 158.7  | 158.6 | 158.7  | 158.8 | 158.6  | 158.7 |
| 60°   | 155.8  | 155.7 | 155.8  | 155.8 | 155.7  | 155.7 |
| 60.5° | 152.8  | 152.7 | 152.8  | 152.9 | 152.8  | 152.8 |
| 61°   | 149.8  | 149.7 | 149.8  | 149.9 | 149.7  | 149.8 |
| 61.5° | 146.9  | 146.7 | 146.9  | 147.0 | 146.8  | 146.9 |
| 62°   | 143.8  | 143.8 | 143.8  | 143.9 | 143.8  | 143.8 |
| 62.5° | 140.8  | 140.7 | 140.8  | 140.9 | 140.8  | 140.8 |
| 63°   | 137.8  | 137.7 | 137.8  | 137.9 | 137.7  | 137.7 |
| 63.5° | 134.8  | 134.6 | 134.8  | 134.9 | 134.7  | 134.8 |
| 64°   | 131.7  | 131.6 | 131.7  | 131.8 | 131.7  | 131.7 |
| 64.5° | 128.7  | 128.6 | 128.7  | 128.8 | 128.6  | 128.7 |
| 65°   | 125.7  | 125.6 | 125.7  | 125.7 | 125.6  | 125.6 |
| 65.5° | 122.6  | 122.4 | 122.6  | 122.7 | 122.5  | 122.6 |
| 66°   | 119.5  | 119.4 | 119.5  | 119.5 | 119.4  | 119.5 |

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TEST NUMBER: P997137

CATALOG NUMBER: SMX4RLSFS010-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 110.3  | 110.1 | 110.3  | 110.3 | 110.2  | 110.3 |
| 68°   | 107.2  | 107.1 | 107.2  | 107.2 | 107.1  | 107.1 |
| 68.5° | 104.1  | 103.9 | 104.1  | 104.1 | 104.0  | 104.1 |
| 69°   | 101.0  | 100.9 | 101.0  | 101.0 | 100.9  | 100.9 |
| 69.5° | 97.9   | 97.8  | 97.9   | 97.9  | 97.8   | 97.9  |
| 70°   | 94.8   | 94.7  | 94.8   | 94.8  | 94.7   | 94.7  |
| 70.5° | 91.7   | 91.6  | 91.7   | 91.7  | 91.6   | 91.7  |
| 71°   | 88.5   | 88.5  | 88.5   | 88.6  | 88.5   | 88.5  |
| 71.5° | 85.4   | 85.4  | 85.4   | 85.5  | 85.4   | 85.4  |
| 72°   | 82.4   | 82.4  | 82.4   | 82.4  | 82.3   | 82.3  |
| 72.5° | 79.3   | 79.2  | 79.3   | 79.3  | 79.2   | 79.2  |
| 73°   | 76.2   | 76.1  | 76.2   | 76.2  | 76.1   | 76.1  |
| 73.5° | 73.1   | 73.0  | 73.1   | 73.1  | 73.1   | 73.1  |
| 74°   | 70.0   | 70.0  | 70.0   | 70.1  | 70.0   | 70.0  |
| 74.5° | 67.0   | 66.9  | 67.0   | 67.0  | 66.9   | 66.9  |
| 75°   | 63.9   | 63.8  | 63.9   | 63.9  | 63.9   | 63.9  |
| 75.5° | 60.9   | 60.8  | 60.9   | 60.9  | 60.8   | 60.8  |
| 76°   | 57.9   | 57.8  | 57.9   | 57.9  | 57.8   | 57.8  |
| 76.5° | 54.9   | 54.8  | 54.9   | 54.9  | 54.8   | 54.8  |
| 77°   | 52.0   | 51.9  | 52.0   | 51.9  | 51.9   | 51.9  |
| 77.5° | 49.0   | 48.9  | 49.0   | 49.0  | 48.9   | 48.9  |
| 78°   | 46.1   | 46.1  | 46.1   | 46.1  | 46.0   | 46.0  |
| 78.5° | 43.3   | 43.1  | 43.3   | 43.2  | 43.1   | 43.1  |
| 79°   | 40.5   | 40.4  | 40.5   | 40.4  | 40.4   | 40.3  |
| 79.5° | 37.7   | 37.5  | 37.7   | 37.6  | 37.6   | 37.4  |
| 80°   | 34.9   | 34.8  | 34.9   | 34.9  | 34.8   | 34.7  |
| 80.5° | 32.2   | 32.1  | 32.2   | 32.2  | 32.1   | 32.0  |
| 81°   | 29.6   | 29.5  | 29.6   | 29.6  | 29.5   | 29.4  |
| 81.5° | 27.1   | 27.0  | 27.1   | 27.0  | 26.9   | 26.8  |
| 82°   | 24.6   | 24.5  | 24.6   | 24.5  | 24.4   | 24.3  |
| 82.5° | 22.1   | 22.1  | 22.1   | 22.0  | 21.9   | 21.8  |
| 83°   | 19.8   | 19.8  | 19.8   | 19.6  | 19.5   | 19.5  |
| 83.5° | 17.5   | 17.6  | 17.5   | 17.4  | 17.2   | 17.2  |
| 84°   | 15.5   | 15.5  | 15.5   | 15.3  | 15.1   | 15.0  |
| 84.5° | 13.5   | 13.5  | 13.5   | 13.3  | 13.1   | 12.9  |
| 85°   | 11.6   | 11.6  | 11.6   | 11.4  | 11.2   | 11.0  |
| 85.5° | 9.8    | 9.6   | 9.8    | 9.5   | 9.4    | 9.3   |
| 86°   | 8.1    | 8.0   | 8.1    | 7.8   | 7.7    | 7.7   |
| 86.5° | 6.7    | 6.6   | 6.7    | 6.5   | 6.2    | 6.2   |
| 87°   | 5.4    | 5.3   | 5.4    | 5.2   | 4.9    | 4.8   |
| 87.5° | 4.4    | 4.2   | 4.4    | 4.1   | 3.7    | 3.6   |
| 88°   | 3.4    | 3.3   | 3.4    | 3.0   | 2.7    | 2.7   |
| 88.5° | 2.5    | 2.5   | 2.5    | 2.2   | 1.9    | 1.9   |

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Cooper Lighting Solutions Photometric Lab  
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Scaled Data Report



TEST NUMBER: P997137  
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**CANDELA DISTRIBUTION (continued):**

|     | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-----|--------|------|--------|------|--------|------|
| 90° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Report Generated By 670245859 / DESKTOP-T8S5UU9



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— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°

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|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 332.3 | 332.2 | 332.7 | 332.6 | 332.3 | 332.6 | 332.7 | 332.2 | 332.3 | 332.2 | 332.7 |
| 22°   | 330.7 | 330.8 | 331.2 | 331.1 | 330.9 | 331.1 | 331.2 | 330.8 | 330.7 | 330.8 | 331.2 |



|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44°   | 243.0 | 242.9 | 243.2 | 243.1 | 243.0 | 243.1 | 243.2 | 242.9 | 243.0 | 242.9 | 243.2 |
| 44.5° | 240.6 | 240.4 | 240.7 | 240.6 | 240.4 | 240.6 | 240.7 | 240.4 | 240.6 | 240.4 | 240.7 |



|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 66.5° | 116.4 | 116.3 | 116.5 | 116.4 | 116.3 | 116.4 | 116.5 | 116.3 | 116.4 | 116.3 | 116.5 |
| 67°   | 113.3 | 113.3 | 113.4 | 113.3 | 113.2 | 113.3 | 113.4 | 113.3 | 113.3 | 113.3 | 113.4 |

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|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 89°   | 1.1 | 1.4 | 1.7 | 1.9 | 2.0 | 1.9 | 1.7 | 1.4 | 1.1 | 1.4 | 1.7 |
| 89.5° | 0.8 | 0.9 | 1.2 | 1.4 | 1.5 | 1.4 | 1.2 | 0.9 | 0.8 | 0.9 | 1.2 |



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|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 332.6 | 332.3 | 332.6 | 332.7 | 332.2 | 332.3 |
| 22°   | 331.1 | 330.9 | 331.1 | 331.2 | 330.8 | 330.7 |

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|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 44°   | 243.1 | 243.0 | 243.1 | 243.2 | 242.9 | 243.0 |
| 44.5° | 240.6 | 240.4 | 240.6 | 240.7 | 240.4 | 240.6 |

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|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 66.5° | 116.4 | 116.3 | 116.4 | 116.5 | 116.3 | 116.4 |
| 67°   | 113.3 | 113.2 | 113.3 | 113.4 | 113.3 | 113.3 |

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|       |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|
| 89°   | 1.9 | 2.0 | 1.9 | 1.7 | 1.4 | 1.1 |
| 89.5° | 1.4 | 1.5 | 1.4 | 1.2 | 0.9 | 0.8 |

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(END OF REPORT)