

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: P997143

Luminaire Tested: **SMX4RLSFS010-650LM-3500K**

Issue Date: 3/11/2025



**Test Information**

Test Method: LM-41-14  
Report Number: P997143  
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: SMX4RLSFS010-650LM-3500K  
Description: 4IN ROUND, 90CRI, 0-10V DIMMING, DAMP LOCATION  
Light Source: SELECTABLE CCT 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

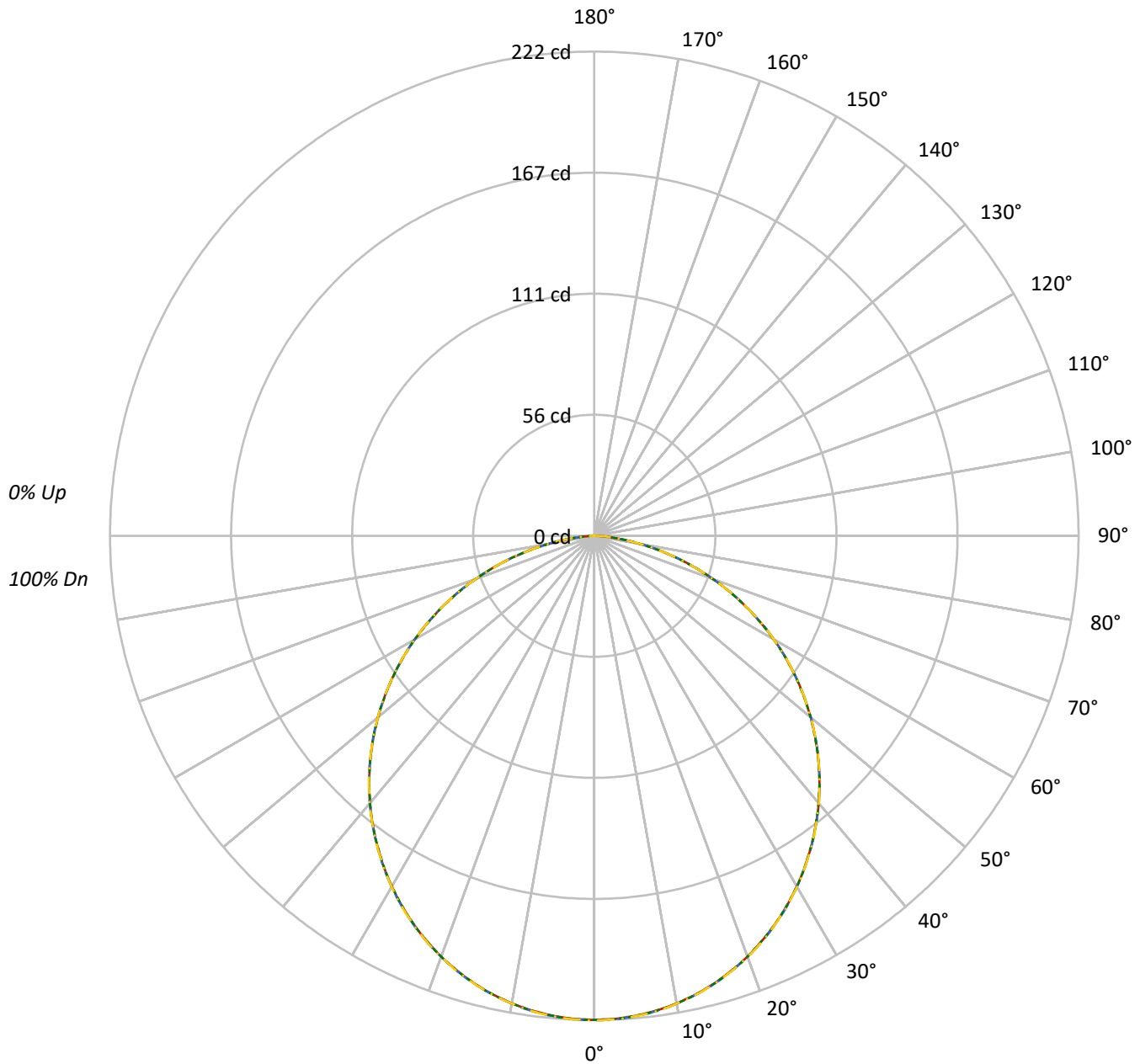
Lumens per Lamp: N/A  
Luminaire Lumens: 618.6 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 6.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: P997143

CATALOG NUMBER: SMX4RLSFS010-650LM-3500K

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P997143

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**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°  | 27939 | 27939 | 27939 | 27939 |
| 5°  | 27906 | 27906 | 27906 | 27906 |
| 10° | 27820 | 27820 | 27820 | 27820 |
| 15° | 27686 | 27700 | 27686 | 27700 |
| 20° | 27495 | 27495 | 27495 | 27495 |
| 25° | 27258 | 27258 | 27258 | 27258 |
| 30° | 26971 | 26971 | 26971 | 26971 |
| 35° | 26640 | 26656 | 26640 | 26656 |
| 40° | 26286 | 26286 | 26286 | 26286 |
| 45° | 25842 | 25842 | 25842 | 25842 |
| 50° | 25354 | 25335 | 25354 | 25335 |
| 55° | 24728 | 24706 | 24728 | 24706 |
| 60° | 23911 | 23911 | 23911 | 23911 |
| 65° | 22810 | 22810 | 22810 | 22810 |
| 70° | 21268 | 21268 | 21268 | 21268 |
| 75° | 18964 | 18964 | 18964 | 18964 |
| 80° | 15364 | 15364 | 15364 | 15364 |
| 85° | 9675  | 10252 | 9675  | 10252 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 21.0   | 3.4       |
| 10°-20°   | 60.0   | 9.7       |
| 20°-30°   | 90.5   | 14.6      |
| 30°-40°   | 108.5  | 17.5      |
| 40°-50°   | 112.0  | 18.1      |
| 50°-60°   | 100.6  | 16.3      |
| 60°-70°   | 75.8   | 12.2      |
| 70°-80°   | 41.3   | 6.7       |
| 80°-90°   | 9.0    | 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°    | 171.4  | 27.7      |
| 0°-40°    | 279.9  | 45.3      |
| 0°-60°    | 492.6  | 79.6      |
| 0°-90°    | 618.6  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 618.6  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0°  | 222 | 222 | 222  | 222  | 222  |      |
| 5°  | 221 | 221 | 221  | 221  | 221  | 21   |
| 15° | 212 | 213 | 212  | 213  | 212  | 60   |
| 25° | 196 | 196 | 196  | 196  | 196  | 90   |
| 35° | 173 | 174 | 173  | 174  | 173  | 109  |
| 45° | 145 | 145 | 145  | 145  | 145  | 112  |
| 55° | 113 | 113 | 113  | 113  | 113  | 101  |
| 65° | 77  | 77  | 77   | 77   | 77   | 76   |
| 75° | 39  | 39  | 39   | 39   | 39   | 41   |
| 85° | 7   | 7   | 7    | 7    | 7    | 9    |
| 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: SMX4RLSFS010-650LM-3500K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 222.0 | 222.0 | 222.0 | 222.0 | 222.0 | 222.0  | 222.0 | 222.0  | 222.0 | 222.0  | 222.0 |
| 0.5°  | 222.0 | 221.9 | 222.2 | 222.1 | 221.9 | 222.1  | 222.2 | 221.9  | 222.0 | 221.9  | 222.2 |
| 1°    | 221.8 | 221.8 | 222.1 | 222.1 | 222.0 | 222.1  | 222.1 | 221.8  | 221.8 | 221.8  | 222.1 |
| 1.5°  | 221.8 | 221.8 | 222.1 | 222.0 | 221.9 | 222.0  | 222.1 | 221.8  | 221.8 | 221.8  | 222.1 |
| 2°    | 221.7 | 221.7 | 221.9 | 222.0 | 221.8 | 222.0  | 221.9 | 221.7  | 221.7 | 221.7  | 221.9 |
| 2.5°  | 221.7 | 221.6 | 221.9 | 221.8 | 221.7 | 221.8  | 221.9 | 221.6  | 221.7 | 221.6  | 221.9 |
| 3°    | 221.5 | 221.5 | 221.8 | 221.7 | 221.7 | 221.7  | 221.8 | 221.5  | 221.5 | 221.5  | 221.8 |
| 3.5°  | 221.4 | 221.4 | 221.6 | 221.6 | 221.4 | 221.6  | 221.6 | 221.4  | 221.4 | 221.4  | 221.6 |
| 4°    | 221.2 | 221.2 | 221.4 | 221.5 | 221.4 | 221.5  | 221.4 | 221.2  | 221.2 | 221.2  | 221.4 |
| 4.5°  | 221.0 | 221.0 | 221.3 | 221.2 | 221.1 | 221.2  | 221.3 | 221.0  | 221.0 | 221.0  | 221.3 |
| 5°    | 220.9 | 220.8 | 221.0 | 221.0 | 220.9 | 221.0  | 221.0 | 220.8  | 220.9 | 220.8  | 221.0 |
| 5.5°  | 220.7 | 220.6 | 220.9 | 220.8 | 220.7 | 220.8  | 220.9 | 220.6  | 220.7 | 220.6  | 220.9 |
| 6°    | 220.4 | 220.3 | 220.6 | 220.6 | 220.5 | 220.6  | 220.6 | 220.3  | 220.4 | 220.3  | 220.6 |
| 6.5°  | 220.1 | 220.1 | 220.4 | 220.3 | 220.2 | 220.3  | 220.4 | 220.1  | 220.1 | 220.1  | 220.4 |
| 7°    | 219.8 | 219.7 | 220.0 | 220.1 | 220.0 | 220.1  | 220.0 | 219.7  | 219.8 | 219.7  | 220.0 |
| 7.5°  | 219.6 | 219.5 | 219.8 | 219.7 | 219.5 | 219.7  | 219.8 | 219.5  | 219.6 | 219.5  | 219.8 |
| 8°    | 219.2 | 219.2 | 219.4 | 219.4 | 219.3 | 219.4  | 219.4 | 219.2  | 219.2 | 219.2  | 219.4 |
| 8.5°  | 218.8 | 218.8 | 219.1 | 219.0 | 218.9 | 219.0  | 219.1 | 218.8  | 218.8 | 218.8  | 219.1 |
| 9°    | 218.5 | 218.4 | 218.7 | 218.6 | 218.5 | 218.6  | 218.7 | 218.4  | 218.5 | 218.4  | 218.7 |
| 9.5°  | 218.0 | 218.1 | 218.3 | 218.3 | 218.2 | 218.3  | 218.3 | 218.1  | 218.0 | 218.1  | 218.3 |
| 10°   | 217.7 | 217.6 | 217.8 | 217.9 | 217.7 | 217.9  | 217.8 | 217.6  | 217.7 | 217.6  | 217.8 |
| 10.5° | 217.3 | 217.2 | 217.4 | 217.5 | 217.2 | 217.5  | 217.4 | 217.2  | 217.3 | 217.2  | 217.4 |
| 11°   | 216.7 | 216.7 | 217.0 | 217.0 | 216.9 | 217.0  | 217.0 | 216.7  | 216.7 | 216.7  | 217.0 |
| 11.5° | 216.3 | 216.3 | 216.5 | 216.5 | 216.3 | 216.5  | 216.5 | 216.3  | 216.3 | 216.3  | 216.5 |
| 12°   | 215.8 | 215.8 | 216.0 | 216.0 | 215.9 | 216.0  | 216.0 | 215.8  | 215.8 | 215.8  | 216.0 |
| 12.5° | 215.3 | 215.3 | 215.5 | 215.5 | 215.3 | 215.5  | 215.5 | 215.3  | 215.3 | 215.3  | 215.5 |
| 13°   | 214.8 | 214.7 | 215.0 | 214.9 | 214.9 | 214.9  | 215.0 | 214.7  | 214.8 | 214.7  | 215.0 |
| 13.5° | 214.3 | 214.2 | 214.4 | 214.4 | 214.3 | 214.4  | 214.4 | 214.2  | 214.3 | 214.2  | 214.4 |
| 14°   | 213.6 | 213.6 | 213.8 | 213.8 | 213.8 | 213.8  | 213.8 | 213.6  | 213.6 | 213.6  | 213.8 |
| 14.5° | 213.1 | 213.0 | 213.3 | 213.3 | 213.1 | 213.3  | 213.3 | 213.0  | 213.1 | 213.0  | 213.3 |
| 15°   | 212.5 | 212.4 | 212.6 | 212.6 | 212.6 | 212.6  | 212.6 | 212.4  | 212.5 | 212.4  | 212.6 |
| 15.5° | 211.8 | 211.8 | 212.0 | 212.0 | 211.8 | 212.0  | 212.0 | 211.8  | 211.8 | 211.8  | 212.0 |
| 16°   | 211.1 | 211.1 | 211.4 | 211.3 | 211.3 | 211.3  | 211.4 | 211.1  | 211.1 | 211.1  | 211.4 |
| 16.5° | 210.5 | 210.4 | 210.7 | 210.7 | 210.5 | 210.7  | 210.7 | 210.4  | 210.5 | 210.4  | 210.7 |
| 17°   | 209.8 | 209.8 | 209.9 | 210.0 | 209.9 | 210.0  | 209.9 | 209.8  | 209.8 | 209.8  | 209.9 |
| 17.5° | 209.1 | 209.0 | 209.3 | 209.2 | 209.1 | 209.2  | 209.3 | 209.0  | 209.1 | 209.0  | 209.3 |
| 18°   | 208.4 | 208.3 | 208.6 | 208.5 | 208.5 | 208.5  | 208.6 | 208.3  | 208.4 | 208.3  | 208.6 |
| 18.5° | 207.7 | 207.6 | 207.8 | 207.8 | 207.6 | 207.8  | 207.8 | 207.6  | 207.7 | 207.6  | 207.8 |
| 19°   | 206.9 | 206.8 | 207.0 | 207.0 | 206.9 | 207.0  | 207.0 | 206.8  | 206.9 | 206.8  | 207.0 |
| 19.5° | 206.1 | 206.0 | 206.3 | 206.2 | 206.1 | 206.2  | 206.3 | 206.0  | 206.1 | 206.0  | 206.3 |
| 20°   | 205.3 | 205.2 | 205.4 | 205.4 | 205.3 | 205.4  | 205.4 | 205.2  | 205.3 | 205.2  | 205.4 |
| 20.5° | 204.5 | 204.4 | 204.7 | 204.6 | 204.5 | 204.6  | 204.7 | 204.4  | 204.5 | 204.4  | 204.7 |
| 21°   | 203.6 | 203.6 | 203.8 | 203.7 | 203.7 | 203.7  | 203.8 | 203.6  | 203.6 | 203.6  | 203.8 |

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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° | 201.0 | 200.9 | 201.2 | 201.2 | 200.9 | 201.2  | 201.2 | 200.9  | 201.0 | 200.9  | 201.2 |
| 23°   | 200.1 | 200.1 | 200.3 | 200.2 | 200.1 | 200.2  | 200.3 | 200.1  | 200.1 | 200.1  | 200.3 |
| 23.5° | 199.2 | 199.1 | 199.4 | 199.3 | 199.1 | 199.3  | 199.4 | 199.1  | 199.2 | 199.1  | 199.4 |
| 24°   | 198.2 | 198.2 | 198.4 | 198.3 | 198.3 | 198.3  | 198.4 | 198.2  | 198.2 | 198.2  | 198.4 |
| 24.5° | 197.3 | 197.2 | 197.5 | 197.4 | 197.2 | 197.4  | 197.5 | 197.2  | 197.3 | 197.2  | 197.5 |
| 25°   | 196.3 | 196.2 | 196.4 | 196.4 | 196.3 | 196.4  | 196.4 | 196.2  | 196.3 | 196.2  | 196.4 |
| 25.5° | 195.3 | 195.2 | 195.5 | 195.4 | 195.3 | 195.4  | 195.5 | 195.2  | 195.3 | 195.2  | 195.5 |
| 26°   | 194.3 | 194.2 | 194.4 | 194.4 | 194.3 | 194.4  | 194.4 | 194.2  | 194.3 | 194.2  | 194.4 |
| 26.5° | 193.3 | 193.2 | 193.5 | 193.4 | 193.2 | 193.4  | 193.5 | 193.2  | 193.3 | 193.2  | 193.5 |
| 27°   | 192.2 | 192.1 | 192.4 | 192.3 | 192.2 | 192.3  | 192.4 | 192.1  | 192.2 | 192.1  | 192.4 |
| 27.5° | 191.2 | 191.0 | 191.3 | 191.3 | 191.1 | 191.3  | 191.3 | 191.0  | 191.2 | 191.0  | 191.3 |
| 28°   | 190.1 | 190.0 | 190.2 | 190.2 | 190.1 | 190.2  | 190.2 | 190.0  | 190.1 | 190.0  | 190.2 |
| 28.5° | 189.0 | 188.9 | 189.2 | 189.1 | 188.9 | 189.1  | 189.2 | 188.9  | 189.0 | 188.9  | 189.2 |
| 29°   | 187.9 | 187.8 | 188.0 | 188.0 | 187.9 | 188.0  | 188.0 | 187.8  | 187.9 | 187.8  | 188.0 |
| 29.5° | 186.8 | 186.7 | 187.0 | 186.9 | 186.7 | 186.9  | 187.0 | 186.7  | 186.8 | 186.7  | 187.0 |
| 30°   | 185.6 | 185.6 | 185.8 | 185.7 | 185.6 | 185.7  | 185.8 | 185.6  | 185.6 | 185.6  | 185.8 |
| 30.5° | 184.5 | 184.4 | 184.6 | 184.6 | 184.5 | 184.6  | 184.6 | 184.4  | 184.5 | 184.4  | 184.6 |
| 31°   | 183.3 | 183.3 | 183.5 | 183.4 | 183.3 | 183.4  | 183.5 | 183.3  | 183.3 | 183.3  | 183.5 |
| 31.5° | 182.2 | 182.1 | 182.3 | 182.2 | 182.1 | 182.2  | 182.3 | 182.1  | 182.2 | 182.1  | 182.3 |
| 32°   | 180.9 | 180.9 | 181.1 | 181.0 | 180.9 | 181.0  | 181.1 | 180.9  | 180.9 | 180.9  | 181.1 |
| 32.5° | 179.8 | 179.6 | 179.9 | 179.8 | 179.7 | 179.8  | 179.9 | 179.6  | 179.8 | 179.6  | 179.9 |
| 33°   | 178.5 | 178.5 | 178.7 | 178.6 | 178.5 | 178.6  | 178.7 | 178.5  | 178.5 | 178.5  | 178.7 |
| 33.5° | 177.2 | 177.2 | 177.4 | 177.4 | 177.2 | 177.4  | 177.4 | 177.2  | 177.2 | 177.2  | 177.4 |
| 34°   | 176.0 | 176.0 | 176.2 | 176.1 | 176.0 | 176.1  | 176.2 | 176.0  | 176.0 | 176.0  | 176.2 |
| 34.5° | 174.8 | 174.7 | 174.9 | 174.8 | 174.6 | 174.8  | 174.9 | 174.7  | 174.8 | 174.7  | 174.9 |
| 35°   | 173.4 | 173.4 | 173.6 | 173.5 | 173.5 | 173.5  | 173.6 | 173.4  | 173.4 | 173.4  | 173.6 |
| 35.5° | 172.2 | 172.1 | 172.3 | 172.3 | 172.1 | 172.3  | 172.3 | 172.1  | 172.2 | 172.1  | 172.3 |
| 36°   | 170.9 | 170.8 | 171.0 | 171.0 | 170.9 | 171.0  | 171.0 | 170.8  | 170.9 | 170.8  | 171.0 |
| 36.5° | 169.5 | 169.5 | 169.8 | 169.6 | 169.5 | 169.6  | 169.8 | 169.5  | 169.5 | 169.5  | 169.8 |
| 37°   | 168.2 | 168.2 | 168.3 | 168.3 | 168.2 | 168.3  | 168.3 | 168.2  | 168.2 | 168.2  | 168.3 |
| 37.5° | 166.9 | 166.8 | 167.0 | 167.0 | 166.8 | 167.0  | 167.0 | 166.8  | 166.9 | 166.8  | 167.0 |
| 38°   | 165.5 | 165.4 | 165.6 | 165.6 | 165.5 | 165.6  | 165.6 | 165.4  | 165.5 | 165.4  | 165.6 |
| 38.5° | 164.2 | 164.0 | 164.3 | 164.2 | 164.1 | 164.2  | 164.3 | 164.0  | 164.2 | 164.0  | 164.3 |
| 39°   | 162.8 | 162.7 | 162.9 | 162.9 | 162.8 | 162.9  | 162.9 | 162.7  | 162.8 | 162.7  | 162.9 |
| 39.5° | 161.4 | 161.3 | 161.5 | 161.5 | 161.3 | 161.5  | 161.5 | 161.3  | 161.4 | 161.3  | 161.5 |
| 40°   | 160.0 | 159.9 | 160.1 | 160.0 | 160.0 | 160.0  | 160.1 | 159.9  | 160.0 | 159.9  | 160.1 |
| 40.5° | 158.6 | 158.4 | 158.7 | 158.6 | 158.4 | 158.6  | 158.7 | 158.4  | 158.6 | 158.4  | 158.7 |
| 41°   | 157.1 | 157.0 | 157.2 | 157.2 | 157.0 | 157.2  | 157.2 | 157.0  | 157.1 | 157.0  | 157.2 |
| 41.5° | 155.7 | 155.6 | 155.8 | 155.7 | 155.6 | 155.7  | 155.8 | 155.6  | 155.7 | 155.6  | 155.8 |
| 42°   | 154.2 | 154.2 | 154.3 | 154.3 | 154.2 | 154.3  | 154.3 | 154.2  | 154.2 | 154.2  | 154.3 |
| 42.5° | 152.7 | 152.7 | 152.9 | 152.8 | 152.7 | 152.8  | 152.9 | 152.7  | 152.7 | 152.7  | 152.9 |
| 43°   | 151.3 | 151.2 | 151.4 | 151.4 | 151.3 | 151.4  | 151.4 | 151.2  | 151.3 | 151.2  | 151.4 |
| 43.5° | 149.8 | 149.7 | 149.9 | 149.8 | 149.7 | 149.8  | 149.9 | 149.7  | 149.8 | 149.7  | 149.9 |

TEST NUMBER: P997143

CATALOG NUMBER: SMX4RLSFS010-650LM-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 145.2 | 145.2 | 145.3 | 145.3 | 145.2 | 145.3  | 145.3 | 145.2  | 145.2 | 145.2  | 145.3 |
| 45.5° | 143.7 | 143.6 | 143.8 | 143.8 | 143.6 | 143.8  | 143.8 | 143.6  | 143.7 | 143.6  | 143.8 |
| 46°   | 142.2 | 142.1 | 142.3 | 142.2 | 142.1 | 142.2  | 142.3 | 142.1  | 142.2 | 142.1  | 142.3 |
| 46.5° | 140.6 | 140.6 | 140.7 | 140.7 | 140.5 | 140.7  | 140.7 | 140.6  | 140.6 | 140.6  | 140.7 |
| 47°   | 139.0 | 139.0 | 139.1 | 139.1 | 139.0 | 139.1  | 139.1 | 139.0  | 139.0 | 139.0  | 139.1 |
| 47.5° | 137.5 | 137.4 | 137.6 | 137.5 | 137.4 | 137.5  | 137.6 | 137.4  | 137.5 | 137.4  | 137.6 |
| 48°   | 135.9 | 135.8 | 136.0 | 135.9 | 135.8 | 135.9  | 136.0 | 135.8  | 135.9 | 135.8  | 136.0 |
| 48.5° | 134.3 | 134.2 | 134.4 | 134.3 | 134.2 | 134.3  | 134.4 | 134.2  | 134.3 | 134.2  | 134.4 |
| 49°   | 132.7 | 132.6 | 132.8 | 132.7 | 132.7 | 132.7  | 132.8 | 132.6  | 132.7 | 132.6  | 132.8 |
| 49.5° | 131.0 | 131.0 | 131.2 | 131.1 | 131.0 | 131.1  | 131.2 | 131.0  | 131.0 | 131.0  | 131.2 |
| 50°   | 129.5 | 129.4 | 129.5 | 129.5 | 129.4 | 129.5  | 129.5 | 129.4  | 129.5 | 129.4  | 129.5 |
| 50.5° | 127.8 | 127.7 | 127.9 | 127.9 | 127.7 | 127.9  | 127.9 | 127.7  | 127.8 | 127.7  | 127.9 |
| 51°   | 126.2 | 126.1 | 126.2 | 126.2 | 126.2 | 126.2  | 126.2 | 126.1  | 126.2 | 126.1  | 126.2 |
| 51.5° | 124.5 | 124.5 | 124.6 | 124.5 | 124.4 | 124.5  | 124.6 | 124.5  | 124.5 | 124.5  | 124.6 |
| 52°   | 122.8 | 122.8 | 122.9 | 122.9 | 122.8 | 122.9  | 122.9 | 122.8  | 122.8 | 122.8  | 122.9 |
| 52.5° | 121.2 | 121.1 | 121.3 | 121.2 | 121.1 | 121.2  | 121.3 | 121.1  | 121.2 | 121.1  | 121.3 |
| 53°   | 119.5 | 119.5 | 119.6 | 119.5 | 119.5 | 119.5  | 119.6 | 119.5  | 119.5 | 119.5  | 119.6 |
| 53.5° | 117.8 | 117.8 | 117.9 | 117.8 | 117.7 | 117.8  | 117.9 | 117.8  | 117.8 | 117.8  | 117.9 |
| 54°   | 116.1 | 116.1 | 116.2 | 116.1 | 116.1 | 116.1  | 116.2 | 116.1  | 116.1 | 116.1  | 116.2 |
| 54.5° | 114.4 | 114.4 | 114.5 | 114.4 | 114.3 | 114.4  | 114.5 | 114.4  | 114.4 | 114.4  | 114.5 |
| 55°   | 112.7 | 112.6 | 112.8 | 112.7 | 112.6 | 112.7  | 112.8 | 112.6  | 112.7 | 112.6  | 112.8 |
| 55.5° | 111.0 | 110.9 | 111.0 | 111.0 | 110.9 | 111.0  | 111.0 | 110.9  | 111.0 | 110.9  | 111.0 |
| 56°   | 109.2 | 109.2 | 109.3 | 109.2 | 109.2 | 109.2  | 109.3 | 109.2  | 109.2 | 109.2  | 109.3 |
| 56.5° | 107.5 | 107.4 | 107.6 | 107.5 | 107.4 | 107.5  | 107.6 | 107.4  | 107.5 | 107.4  | 107.6 |
| 57°   | 105.7 | 105.6 | 105.8 | 105.7 | 105.7 | 105.7  | 105.8 | 105.6  | 105.7 | 105.6  | 105.8 |
| 57.5° | 104.0 | 103.9 | 104.0 | 104.0 | 103.9 | 104.0  | 104.0 | 103.9  | 104.0 | 103.9  | 104.0 |
| 58°   | 102.2 | 102.1 | 102.2 | 102.2 | 102.1 | 102.2  | 102.2 | 102.1  | 102.2 | 102.1  | 102.2 |
| 58.5° | 100.4 | 100.4 | 100.5 | 100.4 | 100.3 | 100.4  | 100.5 | 100.4  | 100.4 | 100.4  | 100.5 |
| 59°   | 98.6  | 98.6  | 98.7  | 98.6  | 98.6  | 98.6   | 98.7  | 98.6   | 98.6  | 98.6   | 98.7  |
| 59.5° | 96.9  | 96.8  | 96.9  | 96.8  | 96.7  | 96.8   | 96.9  | 96.8   | 96.9  | 96.8   | 96.9  |
| 60°   | 95.0  | 95.0  | 95.1  | 95.0  | 95.0  | 95.0   | 95.1  | 95.0   | 95.0  | 95.0   | 95.1  |
| 60.5° | 93.2  | 93.2  | 93.3  | 93.2  | 93.1  | 93.2   | 93.3  | 93.2   | 93.2  | 93.2   | 93.3  |
| 61°   | 91.4  | 91.4  | 91.4  | 91.4  | 91.3  | 91.4   | 91.4  | 91.4   | 91.4  | 91.4   | 91.4  |
| 61.5° | 89.6  | 89.6  | 89.7  | 89.6  | 89.5  | 89.6   | 89.7  | 89.6   | 89.6  | 89.6   | 89.7  |
| 62°   | 87.7  | 87.7  | 87.8  | 87.8  | 87.7  | 87.8   | 87.8  | 87.7   | 87.7  | 87.7   | 87.8  |
| 62.5° | 85.9  | 85.9  | 86.0  | 85.9  | 85.9  | 85.9   | 86.0  | 85.9   | 85.9  | 85.9   | 86.0  |
| 63°   | 84.0  | 84.0  | 84.1  | 84.1  | 84.0  | 84.1   | 84.1  | 84.0   | 84.0  | 84.0   | 84.1  |
| 63.5° | 82.2  | 82.2  | 82.3  | 82.2  | 82.1  | 82.2   | 82.3  | 82.2   | 82.2  | 82.2   | 82.3  |
| 64°   | 80.3  | 80.3  | 80.4  | 80.4  | 80.3  | 80.4   | 80.4  | 80.3   | 80.3  | 80.3   | 80.4  |
| 64.5° | 78.5  | 78.5  | 78.6  | 78.5  | 78.5  | 78.5   | 78.6  | 78.5   | 78.5  | 78.5   | 78.6  |
| 65°   | 76.6  | 76.6  | 76.7  | 76.7  | 76.6  | 76.7   | 76.7  | 76.6   | 76.6  | 76.6   | 76.7  |
| 65.5° | 74.8  | 74.8  | 74.9  | 74.8  | 74.7  | 74.8   | 74.9  | 74.8   | 74.8  | 74.8   | 74.9  |
| 66°   | 72.9  | 72.9  | 72.9  | 72.9  | 72.8  | 72.9   | 72.9  | 72.9   | 72.9  | 72.9   | 72.9  |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P997143

CATALOG NUMBER: SMX4RLSFS010-650LM-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 67.5° | 67.3 | 67.2  | 67.3 | 67.3  | 67.2 | 67.3   | 67.3 | 67.2   | 67.3 | 67.2   | 67.3 |
| 68°   | 65.4 | 65.3  | 65.4 | 65.4  | 65.3 | 65.4   | 65.4 | 65.3   | 65.4 | 65.3   | 65.4 |
| 68.5° | 63.5 | 63.5  | 63.5 | 63.5  | 63.4 | 63.5   | 63.5 | 63.5   | 63.5 | 63.5   | 63.5 |
| 69°   | 61.6 | 61.6  | 61.6 | 61.6  | 61.6 | 61.6   | 61.6 | 61.6   | 61.6 | 61.6   | 61.6 |
| 69.5° | 59.7 | 59.7  | 59.7 | 59.7  | 59.7 | 59.7   | 59.7 | 59.7   | 59.7 | 59.7   | 59.7 |
| 70°   | 57.8 | 57.8  | 57.8 | 57.8  | 57.8 | 57.8   | 57.8 | 57.8   | 57.8 | 57.8   | 57.8 |
| 70.5° | 55.9 | 55.9  | 56.0 | 55.9  | 55.9 | 55.9   | 56.0 | 55.9   | 55.9 | 55.9   | 56.0 |
| 71°   | 54.0 | 54.0  | 54.1 | 54.0  | 54.0 | 54.0   | 54.1 | 54.0   | 54.0 | 54.0   | 54.1 |
| 71.5° | 52.1 | 52.1  | 52.2 | 52.1  | 52.1 | 52.1   | 52.2 | 52.1   | 52.1 | 52.1   | 52.2 |
| 72°   | 50.2 | 50.2  | 50.3 | 50.3  | 50.2 | 50.3   | 50.3 | 50.2   | 50.2 | 50.2   | 50.3 |
| 72.5° | 48.3 | 48.3  | 48.4 | 48.4  | 48.3 | 48.4   | 48.4 | 48.3   | 48.3 | 48.3   | 48.4 |
| 73°   | 46.5 | 46.5  | 46.5 | 46.5  | 46.4 | 46.5   | 46.5 | 46.5   | 46.5 | 46.5   | 46.5 |
| 73.5° | 44.6 | 44.6  | 44.6 | 44.6  | 44.5 | 44.6   | 44.6 | 44.6   | 44.6 | 44.6   | 44.6 |
| 74°   | 42.7 | 42.7  | 42.7 | 42.7  | 42.7 | 42.7   | 42.7 | 42.7   | 42.7 | 42.7   | 42.7 |
| 74.5° | 40.8 | 40.8  | 40.9 | 40.9  | 40.8 | 40.9   | 40.9 | 40.8   | 40.8 | 40.8   | 40.9 |
| 75°   | 39.0 | 39.0  | 39.0 | 39.0  | 39.0 | 39.0   | 39.0 | 39.0   | 39.0 | 39.0   | 39.0 |
| 75.5° | 37.1 | 37.1  | 37.2 | 37.2  | 37.1 | 37.2   | 37.2 | 37.1   | 37.1 | 37.1   | 37.2 |
| 76°   | 35.3 | 35.3  | 35.3 | 35.3  | 35.3 | 35.3   | 35.3 | 35.3   | 35.3 | 35.3   | 35.3 |
| 76.5° | 33.4 | 33.4  | 33.5 | 33.5  | 33.4 | 33.5   | 33.5 | 33.4   | 33.4 | 33.4   | 33.5 |
| 77°   | 31.6 | 31.7  | 31.7 | 31.7  | 31.6 | 31.7   | 31.7 | 31.7   | 31.6 | 31.7   | 31.7 |
| 77.5° | 29.9 | 29.9  | 29.9 | 29.9  | 29.8 | 29.9   | 29.9 | 29.9   | 29.9 | 29.9   | 29.9 |
| 78°   | 28.1 | 28.1  | 28.1 | 28.2  | 28.1 | 28.2   | 28.1 | 28.1   | 28.1 | 28.1   | 28.1 |
| 78.5° | 26.3 | 26.3  | 26.4 | 26.4  | 26.3 | 26.4   | 26.4 | 26.3   | 26.3 | 26.3   | 26.4 |
| 79°   | 24.6 | 24.6  | 24.6 | 24.7  | 24.6 | 24.7   | 24.6 | 24.6   | 24.6 | 24.6   | 24.6 |
| 79.5° | 22.8 | 22.9  | 23.0 | 23.0  | 22.9 | 23.0   | 23.0 | 22.9   | 22.8 | 22.9   | 23.0 |
| 80°   | 21.2 | 21.2  | 21.3 | 21.3  | 21.2 | 21.3   | 21.3 | 21.2   | 21.2 | 21.2   | 21.3 |
| 80.5° | 19.5 | 19.6  | 19.6 | 19.7  | 19.6 | 19.7   | 19.6 | 19.6   | 19.5 | 19.6   | 19.6 |
| 81°   | 17.9 | 18.0  | 18.0 | 18.1  | 18.0 | 18.1   | 18.0 | 18.0   | 17.9 | 18.0   | 18.0 |
| 81.5° | 16.3 | 16.4  | 16.5 | 16.5  | 16.5 | 16.5   | 16.5 | 16.4   | 16.3 | 16.4   | 16.5 |
| 82°   | 14.8 | 14.9  | 14.9 | 15.0  | 15.0 | 15.0   | 14.9 | 14.9   | 14.8 | 14.9   | 14.9 |
| 82.5° | 13.3 | 13.4  | 13.4 | 13.5  | 13.5 | 13.5   | 13.4 | 13.4   | 13.3 | 13.4   | 13.4 |
| 83°   | 11.9 | 11.9  | 12.0 | 12.1  | 12.1 | 12.1   | 12.0 | 11.9   | 11.9 | 11.9   | 12.0 |
| 83.5° | 10.5 | 10.5  | 10.6 | 10.7  | 10.7 | 10.7   | 10.6 | 10.5   | 10.5 | 10.5   | 10.6 |
| 84°   | 9.2  | 9.2   | 9.3  | 9.4   | 9.5  | 9.4    | 9.3  | 9.2    | 9.2  | 9.2    | 9.3  |
| 84.5° | 7.9  | 8.0   | 8.1  | 8.2   | 8.3  | 8.2    | 8.1  | 8.0    | 7.9  | 8.0    | 8.1  |
| 85°   | 6.7  | 6.8   | 6.9  | 7.1   | 7.1  | 7.1    | 6.9  | 6.8    | 6.7  | 6.8    | 6.9  |
| 85.5° | 5.7  | 5.7   | 5.8  | 6.0   | 5.9  | 6.0    | 5.8  | 5.7    | 5.7  | 5.7    | 5.8  |
| 86°   | 4.7  | 4.7   | 4.8  | 4.9   | 4.9  | 4.9    | 4.8  | 4.7    | 4.7  | 4.7    | 4.8  |
| 86.5° | 3.8  | 3.8   | 4.0  | 4.1   | 4.0  | 4.1    | 4.0  | 3.8    | 3.8  | 3.8    | 4.0  |
| 87°   | 2.9  | 3.0   | 3.2  | 3.3   | 3.2  | 3.3    | 3.2  | 3.0    | 2.9  | 3.0    | 3.2  |
| 87.5° | 2.2  | 2.3   | 2.5  | 2.7   | 2.6  | 2.7    | 2.5  | 2.3    | 2.2  | 2.3    | 2.5  |
| 88°   | 1.6  | 1.7   | 1.8  | 2.1   | 2.0  | 2.1    | 1.8  | 1.7    | 1.6  | 1.7    | 1.8  |
| 88.5° | 1.1  | 1.2   | 1.4  | 1.5   | 1.5  | 1.5    | 1.4  | 1.2    | 1.1  | 1.2    | 1.4  |

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

Scaled Data Report



TEST NUMBER: P997143  
CATALOG NUMBER: SMX4RLSFS010-650LM-3500K

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: P997143

CATALOG NUMBER: SMX4RLSFS010-650LM-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 222.0  | 222.0 | 222.0  | 222.0 | 222.0  | 222.0 |
| 0.5°  | 222.1  | 221.9 | 222.1  | 222.2 | 221.9  | 222.0 |
| 1°    | 222.1  | 222.0 | 222.1  | 222.1 | 221.8  | 221.8 |
| 1.5°  | 222.0  | 221.9 | 222.0  | 222.1 | 221.8  | 221.8 |
| 2°    | 222.0  | 221.8 | 222.0  | 221.9 | 221.7  | 221.7 |
| 2.5°  | 221.8  | 221.7 | 221.8  | 221.9 | 221.6  | 221.7 |
| 3°    | 221.7  | 221.7 | 221.7  | 221.8 | 221.5  | 221.5 |
| 3.5°  | 221.6  | 221.4 | 221.6  | 221.6 | 221.4  | 221.4 |
| 4°    | 221.5  | 221.4 | 221.5  | 221.4 | 221.2  | 221.2 |
| 4.5°  | 221.2  | 221.1 | 221.2  | 221.3 | 221.0  | 221.0 |
| 5°    | 221.0  | 220.9 | 221.0  | 221.0 | 220.8  | 220.9 |
| 5.5°  | 220.8  | 220.7 | 220.8  | 220.9 | 220.6  | 220.7 |
| 6°    | 220.6  | 220.5 | 220.6  | 220.6 | 220.3  | 220.4 |
| 6.5°  | 220.3  | 220.2 | 220.3  | 220.4 | 220.1  | 220.1 |
| 7°    | 220.1  | 220.0 | 220.1  | 220.0 | 219.7  | 219.8 |
| 7.5°  | 219.7  | 219.5 | 219.7  | 219.8 | 219.5  | 219.6 |
| 8°    | 219.4  | 219.3 | 219.4  | 219.4 | 219.2  | 219.2 |
| 8.5°  | 219.0  | 218.9 | 219.0  | 219.1 | 218.8  | 218.8 |
| 9°    | 218.6  | 218.5 | 218.6  | 218.7 | 218.4  | 218.5 |
| 9.5°  | 218.3  | 218.2 | 218.3  | 218.3 | 218.1  | 218.0 |
| 10°   | 217.9  | 217.7 | 217.9  | 217.8 | 217.6  | 217.7 |
| 10.5° | 217.5  | 217.2 | 217.5  | 217.4 | 217.2  | 217.3 |
| 11°   | 217.0  | 216.9 | 217.0  | 217.0 | 216.7  | 216.7 |
| 11.5° | 216.5  | 216.3 | 216.5  | 216.5 | 216.3  | 216.3 |
| 12°   | 216.0  | 215.9 | 216.0  | 216.0 | 215.8  | 215.8 |
| 12.5° | 215.5  | 215.3 | 215.5  | 215.5 | 215.3  | 215.3 |
| 13°   | 214.9  | 214.9 | 214.9  | 215.0 | 214.7  | 214.8 |
| 13.5° | 214.4  | 214.3 | 214.4  | 214.4 | 214.2  | 214.3 |
| 14°   | 213.8  | 213.8 | 213.8  | 213.8 | 213.6  | 213.6 |
| 14.5° | 213.3  | 213.1 | 213.3  | 213.3 | 213.0  | 213.1 |
| 15°   | 212.6  | 212.6 | 212.6  | 212.6 | 212.4  | 212.5 |
| 15.5° | 212.0  | 211.8 | 212.0  | 212.0 | 211.8  | 211.8 |
| 16°   | 211.3  | 211.3 | 211.3  | 211.4 | 211.1  | 211.1 |
| 16.5° | 210.7  | 210.5 | 210.7  | 210.7 | 210.4  | 210.5 |
| 17°   | 210.0  | 209.9 | 210.0  | 209.9 | 209.8  | 209.8 |
| 17.5° | 209.2  | 209.1 | 209.2  | 209.3 | 209.0  | 209.1 |
| 18°   | 208.5  | 208.5 | 208.5  | 208.6 | 208.3  | 208.4 |
| 18.5° | 207.8  | 207.6 | 207.8  | 207.8 | 207.6  | 207.7 |
| 19°   | 207.0  | 206.9 | 207.0  | 207.0 | 206.8  | 206.9 |
| 19.5° | 206.2  | 206.1 | 206.2  | 206.3 | 206.0  | 206.1 |
| 20°   | 205.4  | 205.3 | 205.4  | 205.4 | 205.2  | 205.3 |
| 20.5° | 204.6  | 204.5 | 204.6  | 204.7 | 204.4  | 204.5 |
| 21°   | 203.7  | 203.7 | 203.7  | 203.8 | 203.6  | 203.6 |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P997143

CATALOG NUMBER: SMX4RLSFS010-650LM-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 201.2  | 200.9 | 201.2  | 201.2 | 200.9  | 201.0 |
| 23°   | 200.2  | 200.1 | 200.2  | 200.3 | 200.1  | 200.1 |
| 23.5° | 199.3  | 199.1 | 199.3  | 199.4 | 199.1  | 199.2 |
| 24°   | 198.3  | 198.3 | 198.3  | 198.4 | 198.2  | 198.2 |
| 24.5° | 197.4  | 197.2 | 197.4  | 197.5 | 197.2  | 197.3 |
| 25°   | 196.4  | 196.3 | 196.4  | 196.4 | 196.2  | 196.3 |
| 25.5° | 195.4  | 195.3 | 195.4  | 195.5 | 195.2  | 195.3 |
| 26°   | 194.4  | 194.3 | 194.4  | 194.4 | 194.2  | 194.3 |
| 26.5° | 193.4  | 193.2 | 193.4  | 193.5 | 193.2  | 193.3 |
| 27°   | 192.3  | 192.2 | 192.3  | 192.4 | 192.1  | 192.2 |
| 27.5° | 191.3  | 191.1 | 191.3  | 191.3 | 191.0  | 191.2 |
| 28°   | 190.2  | 190.1 | 190.2  | 190.2 | 190.0  | 190.1 |
| 28.5° | 189.1  | 188.9 | 189.1  | 189.2 | 188.9  | 189.0 |
| 29°   | 188.0  | 187.9 | 188.0  | 188.0 | 187.8  | 187.9 |
| 29.5° | 186.9  | 186.7 | 186.9  | 187.0 | 186.7  | 186.8 |
| 30°   | 185.7  | 185.6 | 185.7  | 185.8 | 185.6  | 185.6 |
| 30.5° | 184.6  | 184.5 | 184.6  | 184.6 | 184.4  | 184.5 |
| 31°   | 183.4  | 183.3 | 183.4  | 183.5 | 183.3  | 183.3 |
| 31.5° | 182.2  | 182.1 | 182.2  | 182.3 | 182.1  | 182.2 |
| 32°   | 181.0  | 180.9 | 181.0  | 181.1 | 180.9  | 180.9 |
| 32.5° | 179.8  | 179.7 | 179.8  | 179.9 | 179.6  | 179.8 |
| 33°   | 178.6  | 178.5 | 178.6  | 178.7 | 178.5  | 178.5 |
| 33.5° | 177.4  | 177.2 | 177.4  | 177.4 | 177.2  | 177.2 |
| 34°   | 176.1  | 176.0 | 176.1  | 176.2 | 176.0  | 176.0 |
| 34.5° | 174.8  | 174.6 | 174.8  | 174.9 | 174.7  | 174.8 |
| 35°   | 173.5  | 173.5 | 173.5  | 173.6 | 173.4  | 173.4 |
| 35.5° | 172.3  | 172.1 | 172.3  | 172.3 | 172.1  | 172.2 |
| 36°   | 171.0  | 170.9 | 171.0  | 171.0 | 170.8  | 170.9 |
| 36.5° | 169.6  | 169.5 | 169.6  | 169.8 | 169.5  | 169.5 |
| 37°   | 168.3  | 168.2 | 168.3  | 168.3 | 168.2  | 168.2 |
| 37.5° | 167.0  | 166.8 | 167.0  | 167.0 | 166.8  | 166.9 |
| 38°   | 165.6  | 165.5 | 165.6  | 165.6 | 165.4  | 165.5 |
| 38.5° | 164.2  | 164.1 | 164.2  | 164.3 | 164.0  | 164.2 |
| 39°   | 162.9  | 162.8 | 162.9  | 162.9 | 162.7  | 162.8 |
| 39.5° | 161.5  | 161.3 | 161.5  | 161.5 | 161.3  | 161.4 |
| 40°   | 160.0  | 160.0 | 160.0  | 160.1 | 159.9  | 160.0 |
| 40.5° | 158.6  | 158.4 | 158.6  | 158.7 | 158.4  | 158.6 |
| 41°   | 157.2  | 157.0 | 157.2  | 157.2 | 157.0  | 157.1 |
| 41.5° | 155.7  | 155.6 | 155.7  | 155.8 | 155.6  | 155.7 |
| 42°   | 154.3  | 154.2 | 154.3  | 154.3 | 154.2  | 154.2 |
| 42.5° | 152.8  | 152.7 | 152.8  | 152.9 | 152.7  | 152.7 |
| 43°   | 151.4  | 151.3 | 151.4  | 151.4 | 151.2  | 151.3 |
| 43.5° | 149.8  | 149.7 | 149.8  | 149.9 | 149.7  | 149.8 |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P997143

CATALOG NUMBER: SMX4RLSFS010-650LM-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 145.3  | 145.2 | 145.3  | 145.3 | 145.2  | 145.2 |
| 45.5° | 143.8  | 143.6 | 143.8  | 143.8 | 143.6  | 143.7 |
| 46°   | 142.2  | 142.1 | 142.2  | 142.3 | 142.1  | 142.2 |
| 46.5° | 140.7  | 140.5 | 140.7  | 140.7 | 140.6  | 140.6 |
| 47°   | 139.1  | 139.0 | 139.1  | 139.1 | 139.0  | 139.0 |
| 47.5° | 137.5  | 137.4 | 137.5  | 137.6 | 137.4  | 137.5 |
| 48°   | 135.9  | 135.8 | 135.9  | 136.0 | 135.8  | 135.9 |
| 48.5° | 134.3  | 134.2 | 134.3  | 134.4 | 134.2  | 134.3 |
| 49°   | 132.7  | 132.7 | 132.7  | 132.8 | 132.6  | 132.7 |
| 49.5° | 131.1  | 131.0 | 131.1  | 131.2 | 131.0  | 131.0 |
| 50°   | 129.5  | 129.4 | 129.5  | 129.5 | 129.4  | 129.5 |
| 50.5° | 127.9  | 127.7 | 127.9  | 127.9 | 127.7  | 127.8 |
| 51°   | 126.2  | 126.2 | 126.2  | 126.2 | 126.1  | 126.2 |
| 51.5° | 124.5  | 124.4 | 124.5  | 124.6 | 124.5  | 124.5 |
| 52°   | 122.9  | 122.8 | 122.9  | 122.9 | 122.8  | 122.8 |
| 52.5° | 121.2  | 121.1 | 121.2  | 121.3 | 121.1  | 121.2 |
| 53°   | 119.5  | 119.5 | 119.5  | 119.6 | 119.5  | 119.5 |
| 53.5° | 117.8  | 117.7 | 117.8  | 117.9 | 117.8  | 117.8 |
| 54°   | 116.1  | 116.1 | 116.1  | 116.2 | 116.1  | 116.1 |
| 54.5° | 114.4  | 114.3 | 114.4  | 114.5 | 114.4  | 114.4 |
| 55°   | 112.7  | 112.6 | 112.7  | 112.8 | 112.6  | 112.7 |
| 55.5° | 111.0  | 110.9 | 111.0  | 111.0 | 110.9  | 111.0 |
| 56°   | 109.2  | 109.2 | 109.2  | 109.3 | 109.2  | 109.2 |
| 56.5° | 107.5  | 107.4 | 107.5  | 107.6 | 107.4  | 107.5 |
| 57°   | 105.7  | 105.7 | 105.7  | 105.8 | 105.6  | 105.7 |
| 57.5° | 104.0  | 103.9 | 104.0  | 104.0 | 103.9  | 104.0 |
| 58°   | 102.2  | 102.1 | 102.2  | 102.2 | 102.1  | 102.2 |
| 58.5° | 100.4  | 100.3 | 100.4  | 100.5 | 100.4  | 100.4 |
| 59°   | 98.6   | 98.6  | 98.6   | 98.7  | 98.6   | 98.6  |
| 59.5° | 96.8   | 96.7  | 96.8   | 96.9  | 96.8   | 96.9  |
| 60°   | 95.0   | 95.0  | 95.0   | 95.1  | 95.0   | 95.0  |
| 60.5° | 93.2   | 93.1  | 93.2   | 93.3  | 93.2   | 93.2  |
| 61°   | 91.4   | 91.3  | 91.4   | 91.4  | 91.4   | 91.4  |
| 61.5° | 89.6   | 89.5  | 89.6   | 89.7  | 89.6   | 89.6  |
| 62°   | 87.8   | 87.7  | 87.8   | 87.8  | 87.7   | 87.7  |
| 62.5° | 85.9   | 85.9  | 85.9   | 86.0  | 85.9   | 85.9  |
| 63°   | 84.1   | 84.0  | 84.1   | 84.1  | 84.0   | 84.0  |
| 63.5° | 82.2   | 82.1  | 82.2   | 82.3  | 82.2   | 82.2  |
| 64°   | 80.4   | 80.3  | 80.4   | 80.4  | 80.3   | 80.3  |
| 64.5° | 78.5   | 78.5  | 78.5   | 78.6  | 78.5   | 78.5  |
| 65°   | 76.7   | 76.6  | 76.7   | 76.7  | 76.6   | 76.6  |
| 65.5° | 74.8   | 74.7  | 74.8   | 74.9  | 74.8   | 74.8  |
| 66°   | 72.9   | 72.8  | 72.9   | 72.9  | 72.9   | 72.9  |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P997143

CATALOG NUMBER: SMX4RLSFS010-650LM-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 67.3   | 67.2 | 67.3   | 67.3 | 67.2   | 67.3 |
| 68°   | 65.4   | 65.3 | 65.4   | 65.4 | 65.3   | 65.4 |
| 68.5° | 63.5   | 63.4 | 63.5   | 63.5 | 63.5   | 63.5 |
| 69°   | 61.6   | 61.6 | 61.6   | 61.6 | 61.6   | 61.6 |
| 69.5° | 59.7   | 59.7 | 59.7   | 59.7 | 59.7   | 59.7 |
| 70°   | 57.8   | 57.8 | 57.8   | 57.8 | 57.8   | 57.8 |
| 70.5° | 55.9   | 55.9 | 55.9   | 56.0 | 55.9   | 55.9 |
| 71°   | 54.0   | 54.0 | 54.0   | 54.1 | 54.0   | 54.0 |
| 71.5° | 52.1   | 52.1 | 52.1   | 52.2 | 52.1   | 52.1 |
| 72°   | 50.3   | 50.2 | 50.3   | 50.3 | 50.2   | 50.2 |
| 72.5° | 48.4   | 48.3 | 48.4   | 48.4 | 48.3   | 48.3 |
| 73°   | 46.5   | 46.4 | 46.5   | 46.5 | 46.5   | 46.5 |
| 73.5° | 44.6   | 44.5 | 44.6   | 44.6 | 44.6   | 44.6 |
| 74°   | 42.7   | 42.7 | 42.7   | 42.7 | 42.7   | 42.7 |
| 74.5° | 40.9   | 40.8 | 40.9   | 40.9 | 40.8   | 40.8 |
| 75°   | 39.0   | 39.0 | 39.0   | 39.0 | 39.0   | 39.0 |
| 75.5° | 37.2   | 37.1 | 37.2   | 37.2 | 37.1   | 37.1 |
| 76°   | 35.3   | 35.3 | 35.3   | 35.3 | 35.3   | 35.3 |
| 76.5° | 33.5   | 33.4 | 33.5   | 33.5 | 33.4   | 33.4 |
| 77°   | 31.7   | 31.6 | 31.7   | 31.7 | 31.7   | 31.6 |
| 77.5° | 29.9   | 29.8 | 29.9   | 29.9 | 29.9   | 29.9 |
| 78°   | 28.2   | 28.1 | 28.2   | 28.1 | 28.1   | 28.1 |
| 78.5° | 26.4   | 26.3 | 26.4   | 26.4 | 26.3   | 26.3 |
| 79°   | 24.7   | 24.6 | 24.7   | 24.6 | 24.6   | 24.6 |
| 79.5° | 23.0   | 22.9 | 23.0   | 23.0 | 22.9   | 22.8 |
| 80°   | 21.3   | 21.2 | 21.3   | 21.3 | 21.2   | 21.2 |
| 80.5° | 19.7   | 19.6 | 19.7   | 19.6 | 19.6   | 19.5 |
| 81°   | 18.1   | 18.0 | 18.1   | 18.0 | 18.0   | 17.9 |
| 81.5° | 16.5   | 16.5 | 16.5   | 16.5 | 16.4   | 16.3 |
| 82°   | 15.0   | 15.0 | 15.0   | 14.9 | 14.9   | 14.8 |
| 82.5° | 13.5   | 13.5 | 13.5   | 13.4 | 13.4   | 13.3 |
| 83°   | 12.1   | 12.1 | 12.1   | 12.0 | 11.9   | 11.9 |
| 83.5° | 10.7   | 10.7 | 10.7   | 10.6 | 10.5   | 10.5 |
| 84°   | 9.4    | 9.5  | 9.4    | 9.3  | 9.2    | 9.2  |
| 84.5° | 8.2    | 8.3  | 8.2    | 8.1  | 8.0    | 7.9  |
| 85°   | 7.1    | 7.1  | 7.1    | 6.9  | 6.8    | 6.7  |
| 85.5° | 6.0    | 5.9  | 6.0    | 5.8  | 5.7    | 5.7  |
| 86°   | 4.9    | 4.9  | 4.9    | 4.8  | 4.7    | 4.7  |
| 86.5° | 4.1    | 4.0  | 4.1    | 4.0  | 3.8    | 3.8  |
| 87°   | 3.3    | 3.2  | 3.3    | 3.2  | 3.0    | 2.9  |
| 87.5° | 2.7    | 2.6  | 2.7    | 2.5  | 2.3    | 2.2  |
| 88°   | 2.1    | 2.0  | 2.1    | 1.8  | 1.7    | 1.6  |
| 88.5° | 1.5    | 1.5  | 1.5    | 1.4  | 1.2    | 1.1  |

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Cooper Lighting Solutions Photometric Lab  
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Scaled Data Report



TEST NUMBER: P997143  
CATALOG NUMBER: SMX4RLSFS010-650LM-3500K

**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  |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified

Cooper Lighting Solutions Photometric Lab

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Scaled Data Report



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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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

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|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 202.8 | 202.7 | 203.0 | 202.9 | 202.8 | 202.9 | 203.0 | 202.7 | 202.8 | 202.7 | 203.0 |
| 22°   | 201.8 | 201.8 | 202.1 | 202.0 | 201.9 | 202.0 | 202.1 | 201.8 | 201.8 | 201.8 | 202.1 |



|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44°   | 148.3 | 148.2 | 148.4 | 148.3 | 148.2 | 148.3 | 148.4 | 148.2 | 148.3 | 148.2 | 148.4 |
| 44.5° | 146.8 | 146.7 | 146.9 | 146.8 | 146.7 | 146.8 | 146.9 | 146.7 | 146.8 | 146.7 | 146.9 |

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|       |      |      |      |      |      |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 66.5° | 71.0 | 71.0 | 71.1 | 71.0 | 70.9 | 71.0 | 71.1 | 71.0 | 71.0 | 71.0 | 71.1 |
| 67°   | 69.1 | 69.1 | 69.2 | 69.1 | 69.1 | 69.1 | 69.2 | 69.1 | 69.1 | 69.1 | 69.2 |



|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 89°   | 0.7 | 0.8 | 1.0 | 1.2 | 1.2 | 1.2 | 1.0 | 0.8 | 0.7 | 0.8 | 1.0 |
| 89.5° | 0.5 | 0.6 | 0.7 | 0.9 | 0.9 | 0.9 | 0.7 | 0.6 | 0.5 | 0.6 | 0.7 |

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|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 202.9 | 202.8 | 202.9 | 203.0 | 202.7 | 202.8 |
| 22°   | 202.0 | 201.9 | 202.0 | 202.1 | 201.8 | 201.8 |

Classified  
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Scaled Data Report



|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 44°   | 148.3 | 148.2 | 148.3 | 148.4 | 148.2 | 148.3 |
| 44.5° | 146.8 | 146.7 | 146.8 | 146.9 | 146.7 | 146.8 |

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Scaled Data Report



|       |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|
| 66.5° | 71.0 | 70.9 | 71.0 | 71.1 | 71.0 | 71.0 |
| 67°   | 69.1 | 69.1 | 69.1 | 69.2 | 69.1 | 69.1 |

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|       |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|
| 89°   | 1.2 | 1.2 | 1.2 | 1.0 | 0.8 | 0.7 |
| 89.5° | 0.9 | 0.9 | 0.9 | 0.7 | 0.6 | 0.5 |

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(END OF REPORT)