

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P642277

Luminaire Tested: ML5612LSWW97FS1E - 592H WW - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-130)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWW97FS1E - 592H WW - 900LM - 3000K  
Description: ML56 RR, WW OPTIC, 5" WW INSERT WITH HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 711.2 lumens  
Efficiency: N/A  
Efficacy: 53.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.25  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

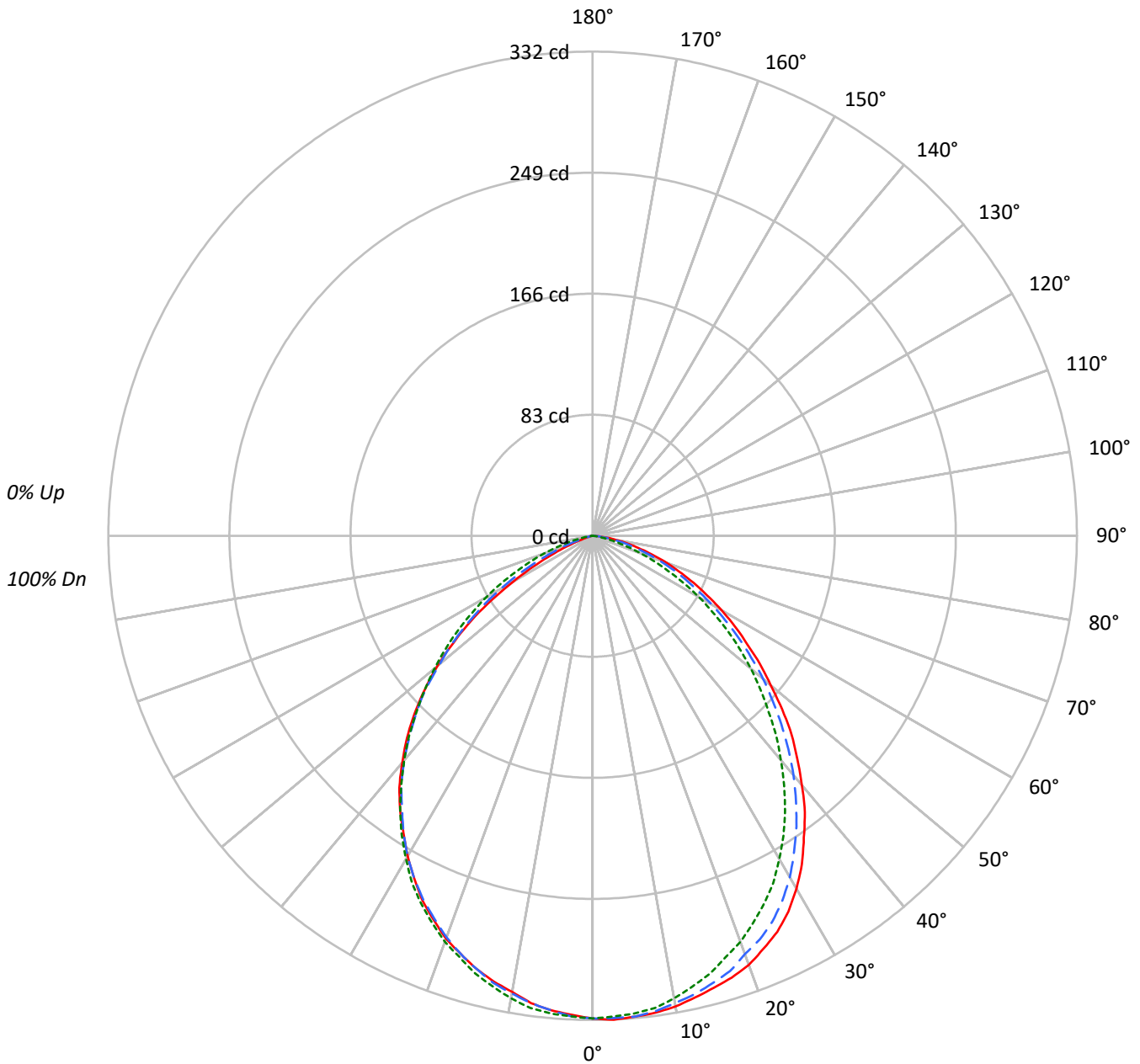
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P642277

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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |    |    | 20 |    |     |   |  |   |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 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 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 98  | 100 | 98  | 95  | 96  | 94  | 92  | 93  | 91  | 90  | 88  |    |    |    |    | 88  |   |  |   |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 79  | 84  | 81  | 78  | 76  |    |    |    |    | 76  |   |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  | 80  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |    |    | 66  |   |  |   |
| 4   | 87  | 76  | 68  | 62  | 85  | 75  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 60  | 68  | 63  | 59  | 57  |    |    |    |    | 57  |   |  |   |
| 5   | 80  | 69  | 60  | 54  | 78  | 67  | 60  | 54  | 65  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |    |    | 50  |   |  |   |
| 6   | 74  | 62  | 54  | 48  | 73  | 61  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 47  | 56  | 51  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 7   | 69  | 57  | 49  | 43  | 68  | 56  | 48  | 43  | 54  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 40  |    |    |    |    | 40  |   |  |   |
| 8   | 65  | 52  | 44  | 39  | 63  | 51  | 44  | 39  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |    |    | 36  |   |  |   |
| 9   | 61  | 48  | 40  | 35  | 59  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 35  | 44  | 39  | 34  | 33  |    |    |    |    | 33  |   |  |   |
| 10  | 57  | 44  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 32  | 41  | 36  | 31  | 30  |    |    |    |    | 30  |   |  |   |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 26129 | 26129 | 26129 | 26129 | 26129 |
| 5°  | 26229 | 26229 | 26055 | 25881 | 25881 |
| 10° | 26268 | 26084 | 25819 | 25547 | 25458 |
| 15° | 26226 | 25956 | 25400 | 25131 | 25131 |
| 20° | 26303 | 25639 | 24891 | 24606 | 24698 |
| 25° | 26096 | 25416 | 24240 | 23944 | 24049 |
| 30° | 25468 | 24648 | 23326 | 23116 | 23116 |
| 35° | 24333 | 23466 | 22165 | 21953 | 22165 |
| 40° | 23011 | 22084 | 20703 | 20703 | 20929 |
| 45° | 21546 | 20419 | 19046 | 19046 | 19291 |
| 50° | 19564 | 18741 | 17365 | 16813 | 17083 |
| 55° | 17768 | 16832 | 15442 | 14368 | 14052 |
| 60° | 16120 | 14888 | 13294 | 11510 | 9915  |
| 65° | 14252 | 13001 | 10684 | 7957  | 5865  |
| 70° | 12441 | 10871 | 8032  | 4408  | 2331  |
| 75° | 9913  | 8571  | 5124  | 1373  | 671   |
| 80° | 7637  | 5592  | 2046  | 500   | 500   |
| 85° | 4076  | 3080  | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21546 cd/sqm



TEST NUMBER: P642277

CATALOG NUMBER: ML5612LSWW97FS1E - 592H WW - 900LM - 3000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 31.2   | 4.4       |
| 10°-20°   | 88.1   | 12.4      |
| 20°-30°   | 129.9  | 18.3      |
| 30°-40°   | 147.1  | 20.7      |
| 40°-50°   | 135.9  | 19.1      |
| 50°-60°   | 101.5  | 14.3      |
| 60°-70°   | 56.1   | 7.9       |
| 70°-80°   | 18.9   | 2.7       |
| 80°-90°   | 2.4    | 0.3       |
| 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°    | 249.2  | 35.0      |
| 0°-40°    | 396.4  | 55.7      |
| 0°-60°    | 633.9  | 89.1      |
| 0°-90°    | 711.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 711.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 331 | 331 | 331 | 331  | 331  |      |
| 5°  | 331 | 331 | 329 | 327  | 327  | 32   |
| 15° | 321 | 318 | 311 | 308  | 308  | 91   |
| 25° | 300 | 292 | 278 | 275  | 276  | 138  |
| 35° | 252 | 244 | 230 | 228  | 230  | 158  |
| 45° | 193 | 183 | 171 | 171  | 173  | 148  |
| 55° | 129 | 122 | 112 | 104  | 102  | 116  |
| 65° | 76  | 70  | 57  | 43   | 31   | 76   |
| 75° | 32  | 28  | 17  | 4    | 2    | 36   |
| 85° | 4   | 3   | 0   | 0    | 0    | 7    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P642277

CATALOG NUMBER: ML5612LSWW97FS1E - 592H WW - 900LM - 3000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 |
| 2.5°  | 332.2 | 332.2 | 332.2 | 332.2 | 331.0 | 331.0 | 332.2 | 331.0 | 331.0 | 331.0 | 331.0 |
| 5°    | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 |
| 7.5°  | 329.9 | 329.9 | 329.9 | 329.9 | 329.9 | 329.9 | 329.9 | 329.9 | 328.8 | 328.8 | 328.8 |
| 10°   | 327.7 | 327.7 | 327.7 | 327.7 | 327.7 | 327.7 | 327.7 | 326.6 | 326.6 | 326.6 | 325.4 |
| 12.5° | 324.3 | 325.4 | 324.3 | 325.4 | 324.3 | 324.3 | 323.2 | 323.2 | 323.2 | 322.1 | 322.1 |
| 15°   | 320.9 | 320.9 | 320.9 | 320.9 | 320.9 | 319.8 | 319.8 | 318.7 | 318.7 | 318.7 | 317.6 |
| 17.5° | 317.6 | 316.5 | 316.5 | 316.5 | 315.3 | 315.3 | 315.3 | 315.3 | 314.2 | 313.1 | 313.1 |
| 20°   | 313.1 | 312.0 | 312.0 | 312.0 | 310.8 | 310.8 | 309.7 | 309.7 | 307.5 | 307.5 | 305.2 |
| 22.5° | 306.4 | 306.4 | 306.4 | 305.2 | 305.2 | 304.1 | 304.1 | 303.0 | 301.9 | 300.7 | 299.6 |
| 25°   | 299.6 | 299.6 | 298.5 | 298.5 | 297.4 | 297.4 | 297.4 | 295.1 | 294.0 | 292.9 | 291.8 |
| 27.5° | 290.6 | 290.6 | 289.5 | 289.5 | 288.4 | 287.3 | 287.3 | 285.0 | 285.0 | 282.8 | 281.7 |
| 30°   | 279.4 | 279.4 | 279.4 | 277.2 | 277.2 | 277.2 | 276.1 | 274.9 | 272.7 | 271.6 | 270.4 |
| 32.5° | 267.1 | 266.0 | 266.0 | 266.0 | 264.8 | 263.7 | 263.7 | 261.5 | 260.3 | 259.2 | 257.0 |
| 35°   | 252.5 | 252.5 | 252.5 | 252.5 | 251.4 | 250.2 | 250.2 | 248.0 | 246.9 | 244.6 | 243.5 |
| 37.5° | 239.0 | 239.0 | 237.9 | 237.9 | 235.7 | 236.8 | 235.7 | 234.5 | 233.4 | 230.0 | 228.9 |
| 40°   | 223.3 | 223.3 | 223.3 | 222.2 | 221.1 | 221.1 | 219.9 | 218.8 | 216.6 | 215.5 | 214.3 |
| 42.5° | 207.6 | 207.6 | 207.6 | 206.5 | 205.4 | 205.4 | 205.4 | 203.1 | 202.0 | 200.9 | 198.6 |
| 45°   | 193.0 | 191.9 | 191.9 | 190.8 | 190.8 | 189.6 | 188.5 | 187.4 | 186.3 | 185.2 | 182.9 |
| 47.5° | 176.2 | 176.2 | 175.1 | 175.1 | 173.9 | 173.9 | 172.8 | 171.7 | 170.6 | 169.4 | 167.2 |
| 50°   | 159.3 | 160.5 | 160.5 | 159.3 | 159.3 | 158.2 | 157.1 | 157.1 | 156.0 | 154.9 | 152.6 |
| 52.5° | 144.8 | 144.8 | 144.8 | 143.6 | 143.6 | 142.5 | 142.5 | 141.4 | 140.3 | 138.0 | 136.9 |
| 55°   | 129.1 | 130.2 | 129.1 | 129.1 | 129.1 | 127.9 | 127.9 | 126.8 | 125.7 | 123.4 | 122.3 |
| 57.5° | 115.6 | 115.6 | 114.5 | 114.5 | 113.3 | 113.3 | 113.3 | 112.2 | 111.1 | 110.0 | 107.7 |
| 60°   | 102.1 | 101.0 | 101.0 | 101.0 | 99.9  | 99.9  | 99.9  | 97.6  | 96.5  | 95.4  | 94.3  |
| 62.5° | 88.7  | 88.7  | 88.7  | 87.5  | 87.5  | 86.4  | 85.3  | 85.3  | 84.2  | 83.0  | 80.8  |
| 65°   | 76.3  | 76.3  | 75.2  | 75.2  | 75.2  | 74.1  | 74.1  | 72.9  | 71.8  | 70.7  | 69.6  |
| 67.5° | 64.0  | 64.0  | 64.0  | 62.8  | 62.8  | 62.8  | 61.7  | 60.6  | 60.6  | 59.5  | 58.4  |
| 70°   | 53.9  | 52.7  | 52.7  | 52.7  | 51.6  | 51.6  | 51.6  | 50.5  | 49.4  | 48.3  | 47.1  |
| 72.5° | 42.6  | 42.6  | 42.6  | 42.6  | 41.5  | 41.5  | 40.4  | 40.4  | 39.3  | 38.2  | 37.0  |
| 75°   | 32.5  | 32.5  | 32.5  | 32.5  | 31.4  | 31.4  | 31.4  | 30.3  | 30.3  | 29.2  | 28.1  |
| 77.5° | 24.7  | 24.7  | 24.7  | 23.6  | 23.6  | 22.4  | 22.4  | 22.4  | 21.3  | 21.3  | 20.2  |
| 80°   | 16.8  | 16.8  | 15.7  | 15.7  | 15.7  | 15.7  | 15.7  | 14.6  | 13.5  | 13.5  | 12.3  |
| 82.5° | 10.1  | 10.1  | 10.1  | 9.0   | 9.0   | 9.0   | 9.0   | 9.0   | 7.9   | 7.9   | 6.7   |
| 85°   | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   |
| 87.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 |
| 2.5°  | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 329.9 | 329.9 | 329.9 | 329.9 |
| 5°    | 329.9 | 329.9 | 329.9 | 329.9 | 329.9 | 328.8 | 329.9 | 328.8 | 328.8 | 328.8 | 328.8 |
| 7.5°  | 327.7 | 327.7 | 327.7 | 327.7 | 326.6 | 327.7 | 326.6 | 326.6 | 326.6 | 326.6 | 325.4 |
| 10°   | 325.4 | 324.3 | 324.3 | 324.3 | 324.3 | 323.2 | 323.2 | 322.1 | 322.1 | 322.1 | 320.9 |
| 12.5° | 322.1 | 320.9 | 320.9 | 319.8 | 319.8 | 319.8 | 318.7 | 318.7 | 317.6 | 316.5 | 316.5 |
| 15°   | 316.5 | 316.5 | 315.3 | 314.2 | 314.2 | 313.1 | 313.1 | 312.0 | 312.0 | 310.8 | 309.7 |
| 17.5° | 312.0 | 310.8 | 309.7 | 308.6 | 307.5 | 307.5 | 306.4 | 305.2 | 305.2 | 303.0 | 303.0 |
| 20°   | 304.1 | 303.0 | 301.9 | 300.7 | 300.7 | 300.7 | 298.5 | 298.5 | 297.4 | 296.3 | 295.1 |
| 22.5° | 297.4 | 296.3 | 294.0 | 292.9 | 292.9 | 291.8 | 290.6 | 289.5 | 288.4 | 287.3 | 286.2 |
| 25°   | 289.5 | 288.4 | 286.2 | 285.0 | 283.9 | 282.8 | 281.7 | 280.5 | 279.4 | 278.3 | 277.2 |
| 27.5° | 279.4 | 277.2 | 277.2 | 274.9 | 273.8 | 272.7 | 271.6 | 270.4 | 269.3 | 268.2 | 267.1 |
| 30°   | 268.2 | 267.1 | 264.8 | 262.6 | 261.5 | 261.5 | 259.2 | 258.1 | 258.1 | 255.9 | 254.7 |
| 32.5° | 255.9 | 253.6 | 251.4 | 250.2 | 249.1 | 248.0 | 246.9 | 245.8 | 244.6 | 243.5 | 242.4 |
| 35°   | 242.4 | 239.0 | 237.9 | 235.7 | 235.7 | 234.5 | 233.4 | 231.2 | 231.2 | 230.0 | 227.8 |
| 37.5° | 227.8 | 225.6 | 224.4 | 222.2 | 221.1 | 219.9 | 218.8 | 217.7 | 216.6 | 215.5 | 214.3 |
| 40°   | 212.1 | 209.8 | 208.7 | 207.6 | 206.5 | 205.4 | 204.2 | 203.1 | 202.0 | 200.9 | 199.7 |
| 42.5° | 196.4 | 195.3 | 193.0 | 190.8 | 190.8 | 189.6 | 188.5 | 187.4 | 186.3 | 186.3 | 185.2 |
| 45°   | 180.7 | 179.5 | 177.3 | 176.2 | 175.1 | 175.1 | 172.8 | 172.8 | 171.7 | 170.6 | 170.6 |
| 47.5° | 166.1 | 163.8 | 161.6 | 161.6 | 159.3 | 160.5 | 158.2 | 158.2 | 156.0 | 156.0 | 154.9 |
| 50°   | 150.4 | 149.2 | 147.0 | 145.9 | 145.9 | 144.8 | 143.6 | 143.6 | 142.5 | 141.4 | 140.3 |
| 52.5° | 135.8 | 133.5 | 132.4 | 131.3 | 130.2 | 130.2 | 129.1 | 129.1 | 126.8 | 126.8 | 125.7 |
| 55°   | 121.2 | 120.1 | 117.8 | 116.7 | 116.7 | 116.7 | 114.5 | 113.3 | 113.3 | 112.2 | 111.1 |
| 57.5° | 106.6 | 105.5 | 104.4 | 103.2 | 102.1 | 102.1 | 101.0 | 99.9  | 98.8  | 97.6  | 95.4  |
| 60°   | 93.1  | 92.0  | 90.9  | 89.8  | 88.7  | 88.7  | 87.5  | 86.4  | 85.3  | 84.2  | 83.0  |
| 62.5° | 79.7  | 79.7  | 77.4  | 76.3  | 75.2  | 75.2  | 74.1  | 72.9  | 71.8  | 70.7  | 69.6  |
| 65°   | 68.5  | 67.3  | 65.1  | 64.0  | 64.0  | 64.0  | 61.7  | 60.6  | 59.5  | 57.2  | 56.1  |
| 67.5° | 57.2  | 55.0  | 53.9  | 53.9  | 52.7  | 51.6  | 50.5  | 49.4  | 47.1  | 46.0  | 43.8  |
| 70°   | 46.0  | 44.9  | 43.8  | 42.6  | 41.5  | 40.4  | 39.3  | 38.2  | 35.9  | 34.8  | 33.7  |
| 72.5° | 35.9  | 34.8  | 33.7  | 32.5  | 31.4  | 31.4  | 29.2  | 28.1  | 26.9  | 24.7  | 23.6  |
| 75°   | 26.9  | 25.8  | 24.7  | 23.6  | 22.4  | 21.3  | 21.3  | 19.1  | 18.0  | 16.8  | 14.6  |
| 77.5° | 19.1  | 18.0  | 16.8  | 15.7  | 15.7  | 14.6  | 13.5  | 12.3  | 11.2  | 10.1  | 9.0   |
| 80°   | 12.3  | 11.2  | 10.1  | 10.1  | 9.0   | 9.0   | 7.9   | 6.7   | 5.6   | 4.5   | 4.5   |
| 82.5° | 6.7   | 5.6   | 5.6   | 4.5   | 4.5   | 4.5   | 3.4   | 2.2   | 2.2   | 2.2   | 1.1   |
| 85°   | 2.2   | 2.2   | 2.2   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 331.0 | 331.0 | 331.0 | 331.0  | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 |
| 2.5°  | 329.9 | 329.9 | 329.9 | 329.9  | 329.9 | 329.9 | 329.9 | 329.9 | 329.9 | 328.8 | 328.8 |
| 5°    | 327.7 | 327.7 | 327.7 | 327.7  | 327.7 | 327.7 | 326.6 | 326.6 | 326.6 | 326.6 | 326.6 |
| 7.5°  | 325.4 | 325.4 | 325.4 | 324.3  | 324.3 | 324.3 | 324.3 | 323.2 | 323.2 | 323.2 | 323.2 |
| 10°   | 320.9 | 320.9 | 320.9 | 319.8  | 319.8 | 319.8 | 319.8 | 319.8 | 318.7 | 318.7 | 318.7 |
| 12.5° | 315.3 | 315.3 | 315.3 | 315.3  | 315.3 | 314.2 | 314.2 | 314.2 | 314.2 | 313.1 | 314.2 |
| 15°   | 309.7 | 309.7 | 308.6 | 308.6  | 308.6 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 |
| 17.5° | 303.0 | 301.9 | 301.9 | 300.7  | 300.7 | 300.7 | 300.7 | 300.7 | 300.7 | 300.7 | 300.7 |
| 20°   | 295.1 | 294.0 | 294.0 | 294.0  | 294.0 | 292.9 | 292.9 | 291.8 | 292.9 | 292.9 | 292.9 |
| 22.5° | 286.2 | 285.0 | 285.0 | 285.0  | 283.9 | 283.9 | 283.9 | 283.9 | 283.9 | 283.9 | 283.9 |
| 25°   | 277.2 | 276.1 | 274.9 | 274.9  | 274.9 | 273.8 | 273.8 | 274.9 | 274.9 | 274.9 | 274.9 |
| 27.5° | 266.0 | 266.0 | 264.8 | 264.8  | 264.8 | 263.7 | 263.7 | 263.7 | 264.8 | 264.8 | 264.8 |
| 30°   | 253.6 | 253.6 | 253.6 | 253.6  | 252.5 | 252.5 | 253.6 | 252.5 | 253.6 | 252.5 | 253.6 |
| 32.5° | 242.4 | 242.4 | 241.3 | 240.1  | 240.1 | 241.3 | 240.1 | 240.1 | 241.3 | 241.3 | 241.3 |
| 35°   | 227.8 | 227.8 | 227.8 | 227.8  | 227.8 | 227.8 | 227.8 | 227.8 | 227.8 | 228.9 | 230.0 |
| 37.5° | 214.3 | 214.3 | 214.3 | 214.3  | 214.3 | 214.3 | 214.3 | 215.5 | 215.5 | 215.5 | 215.5 |
| 40°   | 199.7 | 199.7 | 199.7 | 199.7  | 199.7 | 199.7 | 199.7 | 199.7 | 200.9 | 200.9 | 202.0 |
| 42.5° | 184.0 | 185.2 | 185.2 | 185.2  | 184.0 | 184.0 | 185.2 | 185.2 | 185.2 | 186.3 | 186.3 |
| 45°   | 169.4 | 169.4 | 169.4 | 169.4  | 170.6 | 169.4 | 169.4 | 169.4 | 170.6 | 170.6 | 170.6 |
| 47.5° | 154.9 | 153.7 | 153.7 | 154.9  | 153.7 | 153.7 | 153.7 | 153.7 | 154.9 | 154.9 | 153.7 |
| 50°   | 140.3 | 139.1 | 139.1 | 139.1  | 138.0 | 138.0 | 139.1 | 136.9 | 136.9 | 136.9 | 138.0 |
| 52.5° | 125.7 | 124.6 | 123.4 | 123.4  | 123.4 | 122.3 | 121.2 | 121.2 | 121.2 | 120.1 | 120.1 |
| 55°   | 110.0 | 108.9 | 107.7 | 107.7  | 107.7 | 106.6 | 106.6 | 104.4 | 104.4 | 103.2 | 103.2 |
| 57.5° | 95.4  | 94.3  | 93.1  | 93.1   | 92.0  | 90.9  | 90.9  | 88.7  | 88.7  | 87.5  | 85.3  |
| 60°   | 80.8  | 79.7  | 78.6  | 78.6   | 78.6  | 76.3  | 75.2  | 72.9  | 72.9  | 70.7  | 69.6  |
| 62.5° | 67.3  | 66.2  | 65.1  | 64.0   | 64.0  | 61.7  | 60.6  | 58.4  | 57.2  | 56.1  | 53.9  |
| 65°   | 55.0  | 52.7  | 51.6  | 50.5   | 50.5  | 48.3  | 47.1  | 44.9  | 42.6  | 41.5  | 39.3  |
| 67.5° | 42.6  | 41.5  | 39.3  | 38.2   | 38.2  | 35.9  | 33.7  | 32.5  | 30.3  | 28.1  | 26.9  |
| 70°   | 31.4  | 30.3  | 28.1  | 26.9   | 25.8  | 24.7  | 22.4  | 21.3  | 19.1  | 18.0  | 15.7  |
| 72.5° | 21.3  | 20.2  | 18.0  | 18.0   | 16.8  | 14.6  | 13.5  | 12.3  | 10.1  | 9.0   | 7.9   |
| 75°   | 13.5  | 12.3  | 11.2  | 10.1   | 9.0   | 7.9   | 6.7   | 5.6   | 4.5   | 3.4   | 3.4   |
| 77.5° | 7.9   | 6.7   | 5.6   | 4.5    | 4.5   | 3.4   | 2.2   | 2.2   | 2.2   | 1.1   | 1.1   |
| 80°   | 3.4   | 2.2   | 2.2   | 1.1    | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 82.5° | 1.1   | 1.1   | 1.1   | 1.1    | 1.1   | 1.1   | 1.1   | 0.0   | 0.0   | 1.1   | 1.1   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |





TEST NUMBER: P642277

CATALOG NUMBER: ML5612LSWW97FS1E - 592H WW - 900LM - 3000K

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 331.0 | 331.0 | 331.0  | 331.0 | 331.0 | 331.0 | 331.0 | 331.0 |
| 2.5°  | 329.9 | 328.8 | 329.9  | 329.9 | 328.8 | 328.8 | 328.8 | 328.8 |
| 5°    | 326.6 | 326.6 | 326.6  | 326.6 | 326.6 | 326.6 | 326.6 | 326.6 |
| 7.5°  | 324.3 | 323.2 | 323.2  | 323.2 | 323.2 | 323.2 | 323.2 | 323.2 |
| 10°   | 318.7 | 318.7 | 318.7  | 318.7 | 318.7 | 318.7 | 318.7 | 317.6 |
| 12.5° | 313.1 | 313.1 | 313.1  | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 |
| 15°   | 307.5 | 307.5 | 307.5  | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 |
| 17.5° | 300.7 | 300.7 | 300.7  | 300.7 | 300.7 | 299.6 | 300.7 | 300.7 |
| 20°   | 292.9 | 292.9 | 292.9  | 292.9 | 292.9 | 292.9 | 292.9 | 294.0 |
| 22.5° | 283.9 | 283.9 | 283.9  | 283.9 | 283.9 | 283.9 | 283.9 | 285.0 |
| 25°   | 274.9 | 274.9 | 274.9  | 274.9 | 274.9 | 274.9 | 274.9 | 276.1 |
| 27.5° | 264.8 | 264.8 | 264.8  | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 |
| 30°   | 253.6 | 253.6 | 254.7  | 253.6 | 253.6 | 253.6 | 254.7 | 253.6 |
| 32.5° | 242.4 | 242.4 | 242.4  | 242.4 | 242.4 | 242.4 | 242.4 | 241.3 |
| 35°   | 230.0 | 228.9 | 230.0  | 230.0 | 230.0 | 230.0 | 230.0 | 230.0 |
| 37.5° | 216.6 | 216.6 | 216.6  | 216.6 | 216.6 | 216.6 | 217.7 | 217.7 |
| 40°   | 203.1 | 202.0 | 202.0  | 203.1 | 203.1 | 203.1 | 202.0 | 203.1 |
| 42.5° | 186.3 | 187.4 | 187.4  | 187.4 | 188.5 | 187.4 | 188.5 | 188.5 |
| 45°   | 170.6 | 171.7 | 171.7  | 171.7 | 171.7 | 171.7 | 172.8 | 172.8 |
| 47.5° | 154.9 | 154.9 | 154.9  | 154.9 | 156.0 | 156.0 | 156.0 | 156.0 |
| 50°   | 138.0 | 138.0 | 138.0  | 138.0 | 139.1 | 138.0 | 139.1 | 139.1 |
| 52.5° | 120.1 | 120.1 | 120.1  | 120.1 | 120.1 | 120.1 | 121.2 | 120.1 |
| 55°   | 102.1 | 102.1 | 102.1  | 102.1 | 101.0 | 101.0 | 101.0 | 102.1 |
| 57.5° | 85.3  | 84.2  | 83.0   | 84.2  | 81.9  | 81.9  | 81.9  | 81.9  |
| 60°   | 67.3  | 66.2  | 66.2   | 65.1  | 64.0  | 62.8  | 64.0  | 62.8  |
| 62.5° | 51.6  | 50.5  | 50.5   | 48.3  | 47.1  | 47.1  | 46.0  | 46.0  |
| 65°   | 38.2  | 35.9  | 34.8   | 34.8  | 33.7  | 32.5  | 31.4  | 31.4  |
| 67.5° | 24.7  | 23.6  | 22.4   | 22.4  | 21.3  | 20.2  | 20.2  | 19.1  |
| 70°   | 14.6  | 13.5  | 12.3   | 13.5  | 11.2  | 10.1  | 10.1  | 10.1  |
| 72.5° | 6.7   | 5.6   | 5.6    | 5.6   | 4.5   | 4.5   | 4.5   | 4.5   |
| 75°   | 3.4   | 2.2   | 2.2    | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   |
| 77.5° | 1.1   | 1.1   | 2.2    | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 80°   | 1.1   | 1.1   | 1.1    | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 82.5° | 1.1   | 0.0   | 0.0    | 0.0   | 1.1   | 1.1   | 0.0   | 1.1   |
| 85°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report





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

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Scaled Data Report



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(END OF REPORT)