

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: P644168

Luminaire Tested: ML5615LSWW9FS1E - 692W WW - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-117)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWW9FS1E - 692W WW - 900LM - 3500K
Description: ML56 RR, WW OPTIC, 6" WW INSERT WITH WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

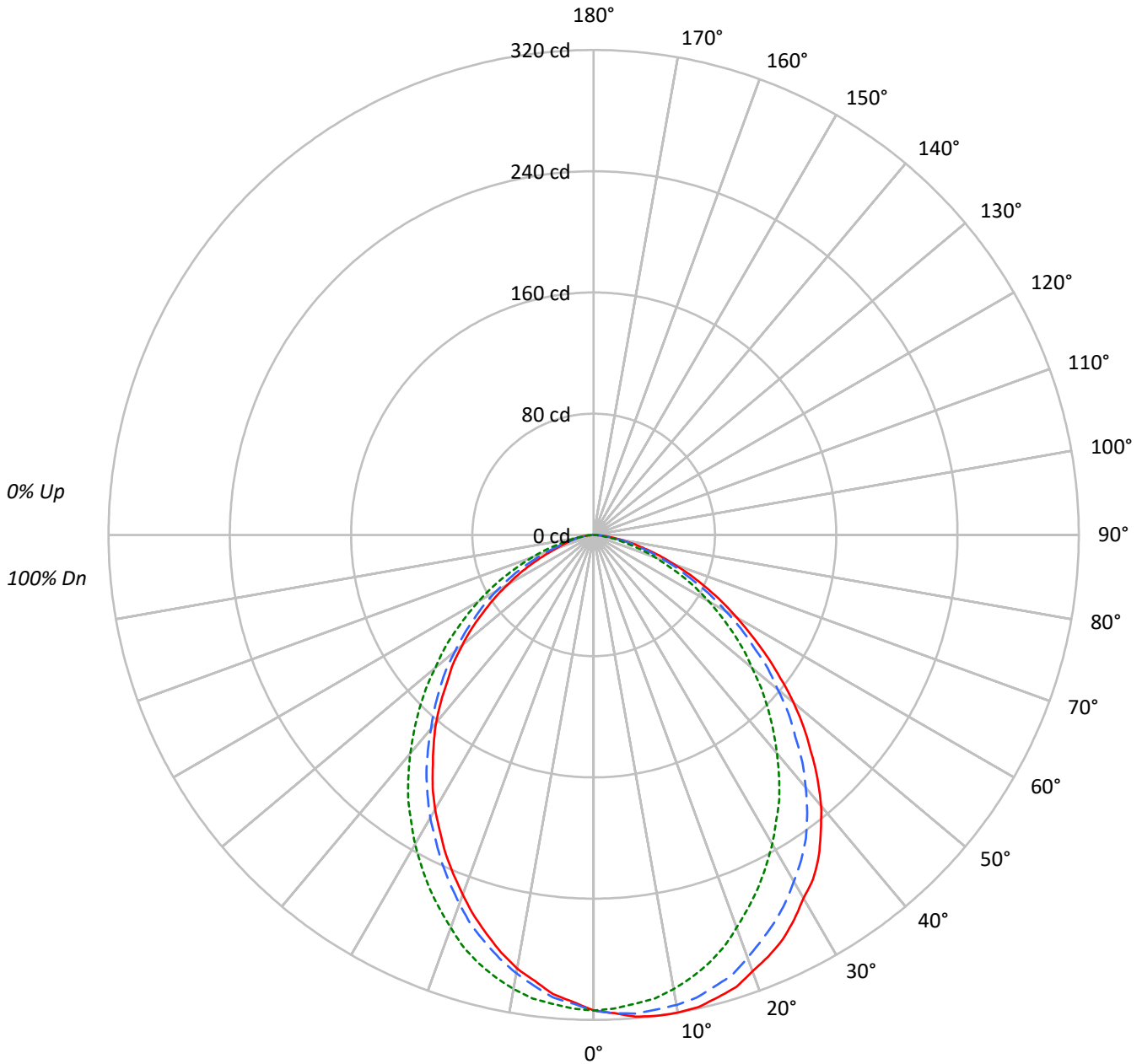
Lumens per Lamp: N/A
Luminaire Lumens: 692.7 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.13 / 1.25
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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: 24 FT



TEST NUMBER: P644168
CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P644168

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 900LM - 3500K

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 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 87 | | | | |
| 2 | 101 | 94 | 88 | 82 | 99 | 92 | 86 | 81 | 88 | 84 | 80 | 85 | 81 | 78 | 82 | 79 | 76 | 74 | | | | |
| 3 | 93 | 83 | 76 | 70 | 91 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 74 | 69 | 66 | 64 | | | | |
| 4 | 86 | 75 | 66 | 60 | 83 | 73 | 66 | 60 | 71 | 64 | 59 | 69 | 63 | 58 | 66 | 62 | 57 | 55 | | | | |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | 49 | | | | |
| 6 | 73 | 61 | 52 | 46 | 72 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 43 | | | | |
| 7 | 68 | 55 | 47 | 41 | 67 | 55 | 47 | 41 | 53 | 46 | 41 | 52 | 45 | 41 | 50 | 45 | 40 | 38 | | | | |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 46 | 41 | 36 | 35 | | | | |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | | | | |
| 10 | 56 | 43 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 29 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 17203 | 17203 | 17203 | 17203 | 17203 |
| 5° | 17560 | 17444 | 17092 | 16861 | 16745 |
| 10° | 17819 | 17529 | 16939 | 16349 | 16176 |
| 15° | 17929 | 17509 | 16612 | 15772 | 15471 |
| 20° | 17875 | 17321 | 16090 | 15104 | 14730 |
| 25° | 17832 | 17063 | 15533 | 14378 | 13997 |
| 30° | 17522 | 16718 | 14914 | 13641 | 13243 |
| 35° | 17326 | 16336 | 14281 | 12869 | 12374 |
| 40° | 16710 | 15579 | 13461 | 11944 | 11572 |
| 45° | 15730 | 14583 | 12614 | 11141 | 10567 |
| 50° | 14686 | 13518 | 11624 | 10183 | 9646 |
| 55° | 13333 | 12320 | 10705 | 9194 | 8487 |
| 60° | 11929 | 11008 | 9615 | 8113 | 7181 |
| 65° | 10559 | 9599 | 8367 | 6849 | 5759 |
| 70° | 8976 | 8303 | 6940 | 5257 | 4231 |
| 75° | 7392 | 6714 | 5147 | 3580 | 3580 |
| 80° | 5683 | 4988 | 3662 | 2999 | 3346 |
| 85° | 3963 | 3334 | 2642 | 2642 | 2642 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15730 cd/sqm



TEST NUMBER: P644168

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 900LM - 3500K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.5 | 4.3 |
| 10°-20° | 82.6 | 11.9 |
| 20°-30° | 119.5 | 17.3 |
| 30°-40° | 135.7 | 19.6 |
| 40°-50° | 128.1 | 18.5 |
| 50°-60° | 101.1 | 14.6 |
| 60°-70° | 63.2 | 9.1 |
| 70°-80° | 27.3 | 3.9 |
| 80°-90° | 5.6 | 0.8 |
| 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° | 231.6 | 33.4 |
| 0°-40° | 367.3 | 53.0 |
| 0°-60° | 596.5 | 86.1 |
| 0°-90° | 692.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 692.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 314 | 314 | 314 | 314 | 314 | |
| 5° | 319 | 317 | 311 | 306 | 304 | 30 |
| 15° | 316 | 308 | 293 | 278 | 273 | 89 |
| 25° | 295 | 282 | 257 | 238 | 231 | 135 |
| 35° | 259 | 244 | 213 | 192 | 185 | 161 |
| 45° | 203 | 188 | 163 | 144 | 136 | 157 |
| 55° | 140 | 129 | 112 | 96 | 89 | 125 |
| 65° | 81 | 74 | 64 | 53 | 44 | 81 |
| 75° | 35 | 32 | 24 | 17 | 17 | 38 |
| 85° | 6 | 5 | 4 | 4 | 4 | 8 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P644168

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 |
| 2.5° | 315.9 | 315.9 | 317.0 | 317.0 | 315.9 | 315.9 | 315.9 | 315.9 | 315.9 | 315.9 | 315.9 |
| 5° | 319.1 | 319.1 | 319.1 | 319.1 | 318.0 | 318.0 | 318.0 | 318.0 | 318.0 | 317.0 | 317.0 |
| 7.5° | 320.1 | 320.1 | 320.1 | 320.1 | 319.1 | 319.1 | 318.0 | 318.0 | 318.0 | 317.0 | 315.9 |
| 10° | 320.1 | 320.1 | 320.1 | 319.1 | 319.1 | 318.0 | 319.1 | 318.0 | 317.0 | 315.9 | 314.9 |
| 12.5° | 319.1 | 318.0 | 318.0 | 318.0 | 317.0 | 317.0 | 317.0 | 315.9 | 314.9 | 313.8 | 312.8 |
| 15° | 315.9 | 315.9 | 315.9 | 314.9 | 314.9 | 313.8 | 313.8 | 312.8 | 311.7 | 309.6 | 308.5 |
| 17.5° | 312.8 | 312.8 | 311.7 | 311.7 | 310.6 | 309.6 | 309.6 | 308.5 | 307.5 | 305.4 | 304.3 |
| 20° | 306.4 | 306.4 | 306.4 | 305.4 | 304.3 | 304.3 | 303.2 | 302.2 | 300.1 | 298.0 | 296.9 |
| 22.5° | 301.1 | 300.1 | 300.1 | 299.0 | 298.0 | 298.0 | 296.9 | 294.8 | 293.7 | 291.6 | 289.5 |
| 25° | 294.8 | 293.7 | 293.7 | 292.7 | 291.6 | 290.6 | 290.6 | 288.5 | 286.3 | 284.2 | 282.1 |
| 27.5° | 286.3 | 286.3 | 285.3 | 284.2 | 283.2 | 283.2 | 282.1 | 281.1 | 277.9 | 275.8 | 273.7 |
| 30° | 276.8 | 277.9 | 276.8 | 275.8 | 274.7 | 274.7 | 273.7 | 271.5 | 269.4 | 266.3 | 264.1 |
| 32.5° | 269.4 | 269.4 | 268.4 | 267.3 | 265.2 | 265.2 | 265.2 | 262.0 | 259.9 | 257.8 | 254.6 |
| 35° | 258.9 | 258.9 | 258.9 | 256.8 | 255.7 | 254.6 | 253.6 | 251.5 | 249.4 | 247.2 | 244.1 |
| 37.5° | 246.2 | 247.2 | 246.2 | 245.1 | 244.1 | 243.0 | 242.0 | 239.8 | 236.7 | 234.6 | 231.4 |
| 40° | 233.5 | 233.5 | 232.5 | 231.4 | 230.3 | 229.3 | 228.2 | 226.1 | 224.0 | 220.8 | 217.7 |
| 42.5° | 218.7 | 218.7 | 217.7 | 216.6 | 215.5 | 214.5 | 214.5 | 212.4 | 209.2 | 207.1 | 203.9 |
| 45° | 202.9 | 202.9 | 202.9 | 201.8 | 200.8 | 199.7 | 198.6 | 197.6 | 195.5 | 192.3 | 188.1 |
| 47.5° | 188.1 | 188.1 | 188.1 | 186.0 | 186.0 | 183.8 | 182.8 | 180.7 | 179.6 | 176.5 | 174.3 |
| 50° | 172.2 | 171.2 | 171.2 | 170.1 | 169.1 | 168.0 | 168.0 | 164.8 | 163.8 | 161.7 | 158.5 |
| 52.5° | 155.3 | 155.3 | 155.3 | 154.3 | 153.2 | 152.2 | 152.2 | 150.0 | 147.9 | 145.8 | 144.8 |
| 55° | 139.5 | 139.5 | 139.5 | 138.4 | 137.4 | 137.4 | 136.3 | 134.2 | 133.1 | 131.0 | 128.9 |
| 57.5° | 123.6 | 124.7 | 123.6 | 122.6 | 122.6 | 121.5 | 121.5 | 120.5 | 118.3 | 116.2 | 115.2 |
| 60° | 108.8 | 108.8 | 108.8 | 107.8 | 106.7 | 106.7 | 106.7 | 105.7 | 103.5 | 102.5 | 100.4 |
| 62.5° | 95.1 | 95.1 | 94.0 | 94.0 | 93.0 | 93.0 | 91.9 | 90.9 | 89.8 | 88.8 | 87.7 |
| 65° | 81.4 | 80.3 | 80.3 | 80.3 | 79.2 | 79.2 | 79.2 | 78.2 | 76.1 | 75.0 | 74.0 |
| 67.5° | 68.7 | 68.7 | 67.6 | 67.6 | 66.6 | 66.6 | 66.6 | 65.5 | 64.5 | 63.4 | 62.3 |
| 70° | 56.0 | 56.0 | 56.0 | 56.0 | 54.9 | 54.9 | 54.9 | 53.9 | 52.8 | 52.8 | 51.8 |
| 72.5° | 45.4 | 45.4 | 45.4 | 45.4 | 44.4 | 44.4 | 44.4 | 43.3 | 42.3 | 41.2 | 41.2 |
| 75° | 34.9 | 35.9 | 34.9 | 34.9 | 34.9 | 34.9 | 33.8 | 33.8 | 32.8 | 31.7 | 31.7 |
| 77.5° | 26.4 | 26.4 | 26.4 | 26.4 | 25.4 | 25.4 | 25.4 | 25.4 | 24.3 | 23.2 | 23.2 |
| 80° | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 16.9 | 16.9 | 15.8 |
| 82.5° | 10.6 | 11.6 | 11.6 | 11.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 9.5 |
| 85° | 6.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 87.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 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: P644168

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 900LM - 3500K

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 |
| 2.5° | 314.9 | 314.9 | 314.9 | 314.9 | 313.8 | 313.8 | 313.8 | 312.8 | 312.8 | 312.8 | 312.8 |
| 5° | 315.9 | 314.9 | 314.9 | 313.8 | 313.8 | 313.8 | 312.8 | 312.8 | 311.7 | 310.6 | 310.6 |
| 7.5° | 314.9 | 314.9 | 313.8 | 312.8 | 312.8 | 311.7 | 310.6 | 309.6 | 308.5 | 308.5 | 306.4 |
| 10° | 313.8 | 312.8 | 311.7 | 310.6 | 309.6 | 309.6 | 307.5 | 306.4 | 305.4 | 304.3 | 303.2 |
| 12.5° | 310.6 | 309.6 | 308.5 | 306.4 | 306.4 | 305.4 | 303.2 | 302.2 | 300.1 | 299.0 | 296.9 |
| 15° | 306.4 | 305.4 | 304.3 | 302.2 | 301.1 | 300.1 | 298.0 | 295.8 | 293.7 | 292.7 | 290.6 |
| 17.5° | 302.2 | 300.1 | 298.0 | 295.8 | 294.8 | 293.7 | 291.6 | 289.5 | 287.4 | 285.3 | 283.2 |
| 20° | 294.8 | 292.7 | 290.6 | 287.4 | 286.3 | 285.3 | 282.1 | 280.0 | 277.9 | 275.8 | 273.7 |
| 22.5° | 287.4 | 285.3 | 282.1 | 280.0 | 278.9 | 276.8 | 274.7 | 271.5 | 269.4 | 266.3 | 264.1 |
| 25° | 280.0 | 276.8 | 273.7 | 271.5 | 269.4 | 268.4 | 265.2 | 263.1 | 258.9 | 256.8 | 254.6 |
| 27.5° | 270.5 | 268.4 | 265.2 | 262.0 | 259.9 | 257.8 | 255.7 | 252.5 | 249.4 | 246.2 | 244.1 |
| 30° | 261.0 | 257.8 | 254.6 | 252.5 | 249.4 | 248.3 | 245.1 | 242.0 | 238.8 | 235.6 | 233.5 |
| 32.5° | 251.5 | 248.3 | 245.1 | 242.0 | 239.8 | 237.7 | 234.6 | 231.4 | 227.2 | 224.0 | 221.9 |
| 35° | 240.9 | 237.7 | 233.5 | 230.3 | 228.2 | 226.1 | 222.9 | 219.8 | 216.6 | 213.4 | 210.3 |
| 37.5° | 228.2 | 224.0 | 221.9 | 218.7 | 215.5 | 213.4 | 210.3 | 206.0 | 203.9 | 200.8 | 197.6 |
| 40° | 214.5 | 211.3 | 208.1 | 205.0 | 201.8 | 200.8 | 196.5 | 193.4 | 191.2 | 188.1 | 184.9 |
| 42.5° | 200.8 | 197.6 | 193.4 | 190.2 | 188.1 | 187.0 | 183.8 | 180.7 | 177.5 | 175.4 | 172.2 |
| 45° | 186.0 | 182.8 | 179.6 | 176.5 | 174.3 | 173.3 | 170.1 | 168.0 | 164.8 | 162.7 | 159.5 |
| 47.5° | 171.2 | 168.0 | 165.9 | 162.7 | 160.6 | 159.5 | 157.4 | 154.3 | 151.1 | 150.0 | 147.9 |
| 50° | 156.4 | 153.2 | 151.1 | 147.9 | 146.9 | 145.8 | 143.7 | 141.6 | 139.5 | 136.3 | 135.2 |
| 52.5° | 141.6 | 138.4 | 136.3 | 134.2 | 134.2 | 132.1 | 130.0 | 128.9 | 126.8 | 124.7 | 122.6 |
| 55° | 126.8 | 125.7 | 123.6 | 120.5 | 120.5 | 119.4 | 117.3 | 115.2 | 113.1 | 112.0 | 109.9 |
| 57.5° | 112.0 | 110.9 | 108.8 | 107.8 | 106.7 | 105.7 | 104.6 | 102.5 | 101.4 | 99.3 | 98.3 |
| 60° | 99.3 | 98.3 | 96.2 | 95.1 | 94.0 | 93.0 | 91.9 | 89.8 | 88.8 | 87.7 | 86.6 |
| 62.5° | 85.6 | 84.5 | 83.5 | 82.4 | 81.4 | 80.3 | 80.3 | 78.2 | 77.1 | 76.1 | 75.0 |
| 65° | 74.0 | 71.8 | 70.8 | 69.7 | 69.7 | 68.7 | 67.6 | 66.6 | 65.5 | 64.5 | 63.4 |
| 67.5° | 61.3 | 60.2 | 60.2 | 58.1 | 58.1 | 57.1 | 56.0 | 56.0 | 53.9 | 52.8 | 51.8 |
| 70° | 50.7 | 49.7 | 48.6 | 47.5 | 47.5 | 46.5 | 45.4 | 44.4 | 43.3 | 43.3 | 42.3 |
| 72.5° | 40.2 | 39.1 | 39.1 | 38.0 | 37.0 | 37.0 | 35.9 | 34.9 | 33.8 | 33.8 | 32.8 |
| 75° | 30.6 | 29.6 | 29.6 | 28.5 | 28.5 | 27.5 | 26.4 | 26.4 | 25.4 | 24.3 | 23.2 |
| 77.5° | 22.2 | 22.2 | 21.1 | 21.1 | 20.1 | 20.1 | 19.0 | 19.0 | 18.0 | 16.9 | 16.9 |
| 80° | 15.8 | 14.8 | 14.8 | 13.7 | 13.7 | 13.7 | 12.7 | 12.7 | 11.6 | 11.6 | 10.6 |
| 82.5° | 9.5 | 9.5 | 8.5 | 8.5 | 8.5 | 8.5 | 7.4 | 7.4 | 7.4 | 6.3 | 6.3 |
| 85° | 5.3 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 3.2 |
| 87.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 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: P644168

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 900LM - 3500K

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 |
| 2.5° | 311.7 | 311.7 | 310.6 | 311.7 | 310.6 | 310.6 | 310.6 | 310.6 | 309.6 | 309.6 | 309.6 |
| 5° | 309.6 | 308.5 | 308.5 | 307.5 | 308.5 | 307.5 | 306.4 | 306.4 | 306.4 | 306.4 | 305.4 |
| 7.5° | 305.4 | 305.4 | 304.3 | 303.2 | 303.2 | 302.2 | 301.1 | 301.1 | 300.1 | 300.1 | 299.0 |
| 10° | 302.2 | 300.1 | 299.0 | 298.0 | 298.0 | 296.9 | 295.8 | 294.8 | 293.7 | 292.7 | 292.7 |
| 12.5° | 294.8 | 293.7 | 292.7 | 291.6 | 291.6 | 289.5 | 288.5 | 287.4 | 286.3 | 285.3 | 284.2 |
| 15° | 289.5 | 287.4 | 285.3 | 284.2 | 284.2 | 282.1 | 281.1 | 280.0 | 277.9 | 277.9 | 275.8 |
| 17.5° | 281.1 | 278.9 | 276.8 | 275.8 | 274.7 | 273.7 | 272.6 | 270.5 | 269.4 | 267.3 | 267.3 |
| 20° | 270.5 | 269.4 | 266.3 | 265.2 | 264.1 | 263.1 | 261.0 | 259.9 | 258.9 | 256.8 | 255.7 |
| 22.5° | 262.0 | 258.9 | 256.8 | 255.7 | 255.7 | 252.5 | 251.5 | 249.4 | 248.3 | 247.2 | 245.1 |
| 25° | 251.5 | 249.4 | 247.2 | 245.1 | 245.1 | 243.0 | 242.0 | 239.8 | 237.7 | 236.7 | 235.6 |
| 27.5° | 240.9 | 238.8 | 235.6 | 234.6 | 233.5 | 232.5 | 230.3 | 228.2 | 226.1 | 225.1 | 224.0 |
| 30° | 229.3 | 227.2 | 225.1 | 224.0 | 221.9 | 219.8 | 217.7 | 216.6 | 215.5 | 213.4 | 212.4 |
| 32.5° | 218.7 | 215.5 | 213.4 | 211.3 | 211.3 | 208.1 | 207.1 | 205.0 | 203.9 | 202.9 | 200.8 |
| 35° | 207.1 | 203.9 | 201.8 | 200.8 | 199.7 | 196.5 | 194.4 | 192.3 | 192.3 | 190.2 | 189.1 |
| 37.5° | 194.4 | 191.2 | 190.2 | 188.1 | 187.0 | 184.9 | 182.8 | 181.7 | 179.6 | 177.5 | 177.5 |
| 40° | 182.8 | 179.6 | 176.5 | 176.5 | 174.3 | 173.3 | 170.1 | 169.1 | 166.9 | 165.9 | 164.8 |
| 42.5° | 170.1 | 166.9 | 164.8 | 163.8 | 162.7 | 160.6 | 158.5 | 156.4 | 155.3 | 154.3 | 153.2 |
| 45° | 156.4 | 154.3 | 153.2 | 151.1 | 150.0 | 147.9 | 146.9 | 144.8 | 143.7 | 141.6 | 140.5 |
| 47.5° | 144.8 | 142.6 | 140.5 | 139.5 | 138.4 | 136.3 | 135.2 | 133.1 | 132.1 | 130.0 | 128.9 |
| 50° | 133.1 | 131.0 | 128.9 | 127.8 | 126.8 | 124.7 | 122.6 | 121.5 | 119.4 | 118.3 | 116.2 |
| 52.5° | 120.5 | 118.3 | 116.2 | 116.2 | 115.2 | 113.1 | 112.0 | 109.9 | 107.8 | 105.7 | 104.6 |
| 55° | 108.8 | 106.7 | 104.6 | 103.5 | 103.5 | 101.4 | 99.3 | 98.3 | 96.2 | 95.1 | 93.0 |
| 57.5° | 96.2 | 94.0 | 93.0 | 91.9 | 91.9 | 89.8 | 88.8 | 86.6 | 85.6 | 83.5 | 82.4 |
| 60° | 84.5 | 83.5 | 81.4 | 81.4 | 80.3 | 78.2 | 77.1 | 75.0 | 74.0 | 72.9 | 71.8 |
| 62.5° | 72.9 | 71.8 | 69.7 | 69.7 | 68.7 | 67.6 | 66.6 | 64.5 | 63.4 | 61.3 | 60.2 |
| 65° | 61.3 | 60.2 | 59.2 | 58.1 | 58.1 | 56.0 | 54.9 | 53.9 | 52.8 | 51.8 | 50.7 |
| 67.5° | 50.7 | 49.7 | 48.6 | 48.6 | 47.5 | 46.5 | 44.4 | 43.3 | 42.3 | 41.2 | 40.2 |
| 70° | 41.2 | 39.1 | 38.0 | 38.0 | 37.0 | 35.9 | 34.9 | 33.8 | 32.8 | 31.7 | 30.6 |
| 72.5° | 31.7 | 29.6 | 29.6 | 28.5 | 27.5 | 26.4 | 26.4 | 25.4 | 24.3 | 24.3 | 22.2 |
| 75° | 23.2 | 22.2 | 21.1 | 21.1 | 20.1 | 19.0 | 18.0 | 18.0 | 16.9 | 16.9 | 16.9 |
| 77.5° | 15.8 | 14.8 | 14.8 | 13.7 | 13.7 | 13.7 | 12.7 | 12.7 | 12.7 | 12.7 | 13.7 |
| 80° | 10.6 | 10.6 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 10.6 | 10.6 |
| 82.5° | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 7.4 |
| 85° | 3.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 87.5° | 1.1 | 1.1 | 2.1 | 1.1 | 2.1 | 1.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 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: P644168

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 900LM - 3500K

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 |
| 2.5° | 308.5 | 309.6 | 309.6 | 308.5 | 309.6 | 308.5 | 308.5 | 308.5 |
| 5° | 305.4 | 304.3 | 304.3 | 304.3 | 303.2 | 304.3 | 304.3 | 304.3 |
| 7.5° | 299.0 | 299.0 | 298.0 | 298.0 | 296.9 | 296.9 | 298.0 | 296.9 |
| 10° | 291.6 | 290.6 | 291.6 | 290.6 | 290.6 | 290.6 | 289.5 | 290.6 |
| 12.5° | 284.2 | 283.2 | 283.2 | 282.1 | 282.1 | 282.1 | 282.1 | 282.1 |
| 15° | 275.8 | 274.7 | 274.7 | 273.7 | 273.7 | 272.6 | 273.7 | 272.6 |
| 17.5° | 266.3 | 266.3 | 264.1 | 264.1 | 264.1 | 264.1 | 264.1 | 263.1 |
| 20° | 254.6 | 254.6 | 253.6 | 254.6 | 252.5 | 252.5 | 252.5 | 252.5 |
| 22.5° | 245.1 | 244.1 | 243.0 | 243.0 | 243.0 | 242.0 | 242.0 | 242.0 |
| 25° | 233.5 | 233.5 | 232.5 | 232.5 | 231.4 | 231.4 | 231.4 | 231.4 |
| 27.5° | 222.9 | 221.9 | 221.9 | 221.9 | 220.8 | 219.8 | 219.8 | 219.8 |
| 30° | 211.3 | 211.3 | 210.3 | 210.3 | 209.2 | 209.2 | 209.2 | 209.2 |
| 32.5° | 199.7 | 199.7 | 198.6 | 197.6 | 197.6 | 197.6 | 196.5 | 197.6 |
| 35° | 188.1 | 187.0 | 187.0 | 186.0 | 186.0 | 186.0 | 184.9 | 184.9 |
| 37.5° | 176.5 | 175.4 | 174.3 | 175.4 | 174.3 | 173.3 | 173.3 | 173.3 |
| 40° | 163.8 | 162.7 | 162.7 | 161.7 | 161.7 | 161.7 | 160.6 | 161.7 |
| 42.5° | 152.2 | 152.2 | 151.1 | 150.0 | 150.0 | 150.0 | 149.0 | 149.0 |
| 45° | 140.5 | 138.4 | 139.5 | 138.4 | 138.4 | 137.4 | 137.4 | 136.3 |
| 47.5° | 127.8 | 126.8 | 126.8 | 126.8 | 125.7 | 125.7 | 125.7 | 125.7 |
| 50° | 115.2 | 114.1 | 115.2 | 114.1 | 114.1 | 113.1 | 113.1 | 113.1 |
| 52.5° | 103.5 | 102.5 | 102.5 | 102.5 | 102.5 | 101.4 | 101.4 | 101.4 |
| 55° | 91.9 | 90.9 | 90.9 | 90.9 | 89.8 | 89.8 | 88.8 | 88.8 |
| 57.5° | 81.4 | 80.3 | 79.2 | 78.2 | 78.2 | 78.2 | 77.1 | 77.1 |
| 60° | 69.7 | 68.7 | 67.6 | 67.6 | 66.6 | 66.6 | 66.6 | 65.5 |
| 62.5° | 59.2 | 58.1 | 57.1 | 57.1 | 56.0 | 54.9 | 54.9 | 54.9 |
| 65° | 48.6 | 47.5 | 47.5 | 46.5 | 45.4 | 45.4 | 44.4 | 44.4 |
| 67.5° | 39.1 | 38.0 | 38.0 | 37.0 | 35.9 | 34.9 | 34.9 | 34.9 |
| 70° | 30.6 | 29.6 | 28.5 | 28.5 | 28.5 | 27.5 | 26.4 | 26.4 |
| 72.5° | 22.2 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 |
| 75° | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 |
| 77.5° | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 |
| 80° | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 82.5° | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| 85° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 87.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.1 |
| 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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(END OF REPORT)