

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: P644160

Luminaire Tested: ML5615LSWW9FS1E - 692W WW - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644160
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 - 1200LM - 5000K
Description: ML56 RR, WW OPTIC, 6" WW INSERT WITH WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 943.0 lumens
Efficiency: N/A
Efficacy: 70.4 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

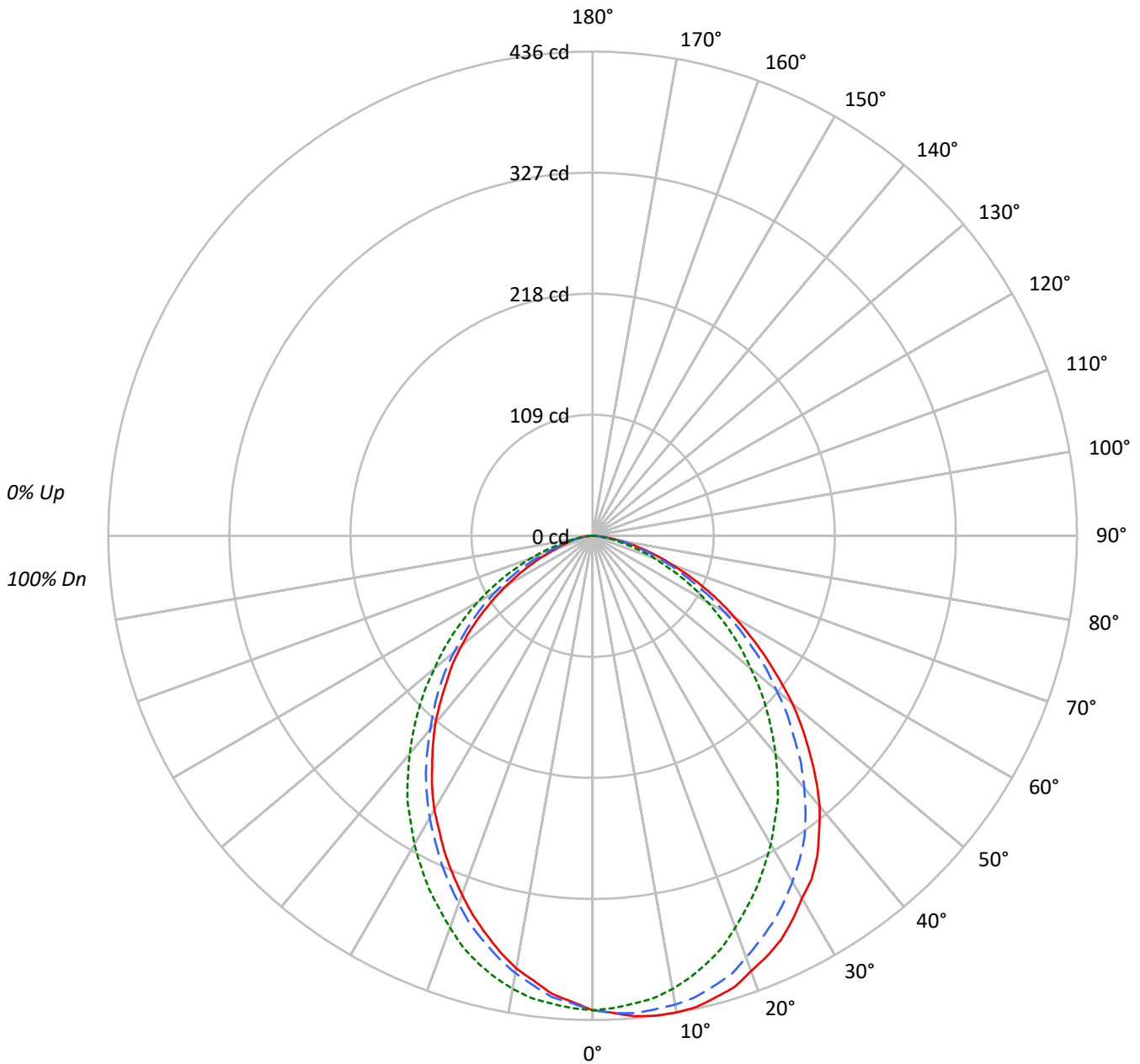
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P644160

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 1200LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P644160

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 1200LM - 5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 23419 | 23419 | 23419 | 23419 | 23419 |
| 5° | 23905 | 23745 | 23272 | 22953 | 22799 |
| 10° | 24259 | 23858 | 23062 | 22261 | 22021 |
| 15° | 24410 | 23837 | 22611 | 21470 | 21061 |
| 20° | 24333 | 23580 | 21900 | 20558 | 20057 |
| 25° | 24274 | 23233 | 21140 | 19574 | 19054 |
| 30° | 23858 | 22763 | 20307 | 18572 | 18028 |
| 35° | 23584 | 22239 | 19448 | 17520 | 16845 |
| 40° | 22750 | 21204 | 18320 | 16266 | 15751 |
| 45° | 21413 | 19847 | 17172 | 15164 | 14389 |
| 50° | 19999 | 18405 | 15829 | 13859 | 13125 |
| 55° | 18150 | 16774 | 14575 | 12511 | 11546 |
| 60° | 16249 | 14977 | 13091 | 11041 | 9780 |
| 65° | 14372 | 13062 | 11376 | 9327 | 7835 |
| 70° | 12214 | 11300 | 9457 | 7149 | 5770 |
| 75° | 10061 | 9150 | 7011 | 4872 | 4872 |
| 80° | 7735 | 6819 | 4988 | 4072 | 4546 |
| 85° | 5409 | 4529 | 3648 | 3648 | 3648 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21413 cd/sqm



TEST NUMBER: P644160

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 1200LM - 5000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.1 | 4.3 |
| 10°-20° | 112.4 | 11.9 |
| 20°-30° | 162.7 | 17.3 |
| 30°-40° | 184.8 | 19.6 |
| 40°-50° | 174.4 | 18.5 |
| 50°-60° | 137.6 | 14.6 |
| 60°-70° | 86.1 | 9.1 |
| 70°-80° | 37.2 | 3.9 |
| 80°-90° | 7.7 | 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° | 315.2 | 33.4 |
| 0°-40° | 500.0 | 53.0 |
| 0°-60° | 812.0 | 86.1 |
| 0°-90° | 943.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 943.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 427 | 427 | 427 | 427 | 427 | |
| 5° | 434 | 432 | 423 | 417 | 414 | 41 |
| 15° | 430 | 420 | 398 | 378 | 371 | 121 |
| 25° | 401 | 384 | 350 | 324 | 315 | 184 |
| 35° | 352 | 332 | 291 | 262 | 252 | 219 |
| 45° | 276 | 256 | 222 | 196 | 186 | 213 |
| 55° | 190 | 176 | 152 | 131 | 121 | 170 |
| 65° | 111 | 101 | 88 | 72 | 60 | 110 |
| 75° | 48 | 43 | 33 | 23 | 23 | 52 |
| 85° | 9 | 7 | 6 | 6 | 6 | 10 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P644160

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 1200LM - 5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 |
| 2.5° | 430.1 | 430.1 | 431.5 | 431.5 | 430.1 | 430.1 | 430.1 | 430.1 | 430.1 | 430.1 | 430.1 |
| 5° | 434.4 | 434.4 | 434.4 | 434.4 | 433.0 | 433.0 | 433.0 | 433.0 | 433.0 | 431.5 | 431.5 |
| 7.5° | 435.8 | 435.8 | 435.8 | 435.8 | 434.4 | 434.4 | 433.0 | 433.0 | 433.0 | 431.5 | 430.1 |
| 10° | 435.8 | 435.8 | 435.8 | 434.4 | 434.4 | 433.0 | 434.4 | 433.0 | 431.5 | 430.1 | 428.6 |
| 12.5° | 434.4 | 433.0 | 433.0 | 433.0 | 431.5 | 431.5 | 431.5 | 430.1 | 428.6 | 427.2 | 425.8 |
| 15° | 430.1 | 430.1 | 430.1 | 428.6 | 428.6 | 427.2 | 427.2 | 425.8 | 424.3 | 421.4 | 420.0 |
| 17.5° | 425.8 | 425.8 | 424.3 | 424.3 | 422.9 | 421.4 | 421.4 | 420.0 | 418.6 | 415.7 | 414.3 |
| 20° | 417.1 | 417.1 | 417.1 | 415.7 | 414.3 | 414.3 | 412.8 | 411.4 | 408.5 | 405.6 | 404.2 |
| 22.5° | 409.9 | 408.5 | 408.5 | 407.1 | 405.6 | 405.6 | 404.2 | 401.3 | 399.9 | 397.0 | 394.1 |
| 25° | 401.3 | 399.9 | 399.9 | 398.4 | 397.0 | 395.6 | 395.6 | 392.7 | 389.8 | 386.9 | 384.1 |
| 27.5° | 389.8 | 389.8 | 388.4 | 386.9 | 385.5 | 385.5 | 384.1 | 382.6 | 378.3 | 375.4 | 372.5 |
| 30° | 376.9 | 378.3 | 376.9 | 375.4 | 374.0 | 374.0 | 372.5 | 369.7 | 366.8 | 362.5 | 359.6 |
| 32.5° | 366.8 | 366.8 | 365.4 | 363.9 | 361.0 | 361.0 | 361.0 | 356.7 | 353.8 | 351.0 | 346.7 |
| 35° | 352.4 | 352.4 | 352.4 | 349.5 | 348.1 | 346.7 | 345.2 | 342.3 | 339.5 | 336.6 | 332.3 |
| 37.5° | 335.1 | 336.6 | 335.1 | 333.7 | 332.3 | 330.8 | 329.4 | 326.5 | 322.2 | 319.3 | 315.0 |
| 40° | 317.9 | 317.9 | 316.4 | 315.0 | 313.6 | 312.1 | 310.7 | 307.8 | 304.9 | 300.6 | 296.3 |
| 42.5° | 297.7 | 297.7 | 296.3 | 294.9 | 293.4 | 292.0 | 292.0 | 289.1 | 284.8 | 281.9 | 277.6 |
| 45° | 276.2 | 276.2 | 276.2 | 274.7 | 273.3 | 271.9 | 270.4 | 269.0 | 266.1 | 261.8 | 256.0 |
| 47.5° | 256.0 | 256.0 | 256.0 | 253.2 | 253.2 | 250.3 | 248.8 | 246.0 | 244.5 | 240.2 | 237.3 |
| 50° | 234.5 | 233.0 | 233.0 | 231.6 | 230.1 | 228.7 | 228.7 | 224.4 | 223.0 | 220.1 | 215.8 |
| 52.5° | 211.4 | 211.4 | 211.4 | 210.0 | 208.6 | 207.1 | 207.1 | 204.3 | 201.4 | 198.5 | 197.1 |
| 55° | 189.9 | 189.9 | 189.9 | 188.4 | 187.0 | 187.0 | 185.6 | 182.7 | 181.2 | 178.4 | 175.5 |
| 57.5° | 168.3 | 169.7 | 168.3 | 166.9 | 166.9 | 165.4 | 165.4 | 164.0 | 161.1 | 158.2 | 156.8 |
| 60° | 148.2 | 148.2 | 148.2 | 146.7 | 145.3 | 145.3 | 145.3 | 143.8 | 141.0 | 139.5 | 136.6 |
| 62.5° | 129.5 | 129.5 | 128.0 | 128.0 | 126.6 | 126.6 | 125.1 | 123.7 | 122.3 | 120.8 | 119.4 |
| 65° | 110.8 | 109.3 | 109.3 | 109.3 | 107.9 | 107.9 | 107.9 | 106.4 | 103.6 | 102.1 | 100.7 |
| 67.5° | 93.5 | 93.5 | 92.1 | 92.1 | 90.6 | 90.6 | 90.6 | 89.2 | 87.7 | 86.3 | 84.9 |
| 70° | 76.2 | 76.2 | 76.2 | 76.2 | 74.8 | 74.8 | 74.8 | 73.4 | 71.9 | 71.9 | 70.5 |
| 72.5° | 61.9 | 61.9 | 61.9 | 61.9 | 60.4 | 60.4 | 60.4 | 59.0 | 57.5 | 56.1 | 56.1 |
| 75° | 47.5 | 48.9 | 47.5 | 47.5 | 47.5 | 47.5 | 46.0 | 46.0 | 44.6 | 43.2 | 43.2 |
| 77.5° | 36.0 | 36.0 | 36.0 | 36.0 | 34.5 | 34.5 | 34.5 | 34.5 | 33.1 | 31.6 | 31.6 |
| 80° | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 23.0 | 23.0 | 21.6 |
| 82.5° | 14.4 | 15.8 | 15.8 | 15.8 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 12.9 |
| 85° | 8.6 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 87.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 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: P644160

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 1200LM - 5000K

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 |
| 2.5° | 428.6 | 428.6 | 428.6 | 428.6 | 427.2 | 427.2 | 427.2 | 425.8 | 425.8 | 425.8 | 425.8 |
| 5° | 430.1 | 428.6 | 428.6 | 427.2 | 427.2 | 427.2 | 425.8 | 425.8 | 424.3 | 422.9 | 422.9 |
| 7.5° | 428.6 | 428.6 | 427.2 | 425.8 | 425.8 | 424.3 | 422.9 | 421.4 | 420.0 | 420.0 | 417.1 |
| 10° | 427.2 | 425.8 | 424.3 | 422.9 | 421.4 | 421.4 | 418.6 | 417.1 | 415.7 | 414.3 | 412.8 |
| 12.5° | 422.9 | 421.4 | 420.0 | 417.1 | 417.1 | 415.7 | 412.8 | 411.4 | 408.5 | 407.1 | 404.2 |
| 15° | 417.1 | 415.7 | 414.3 | 411.4 | 409.9 | 408.5 | 405.6 | 402.7 | 399.9 | 398.4 | 395.6 |
| 17.5° | 411.4 | 408.5 | 405.6 | 402.7 | 401.3 | 399.9 | 397.0 | 394.1 | 391.2 | 388.4 | 385.5 |
| 20° | 401.3 | 398.4 | 395.6 | 391.2 | 389.8 | 388.4 | 384.1 | 381.2 | 378.3 | 375.4 | 372.5 |
| 22.5° | 391.2 | 388.4 | 384.1 | 381.2 | 379.7 | 376.9 | 374.0 | 369.7 | 366.8 | 362.5 | 359.6 |
| 25° | 381.2 | 376.9 | 372.5 | 369.7 | 366.8 | 365.4 | 361.0 | 358.2 | 352.4 | 349.5 | 346.7 |
| 27.5° | 368.2 | 365.4 | 361.0 | 356.7 | 353.8 | 351.0 | 348.1 | 343.8 | 339.5 | 335.1 | 332.3 |
| 30° | 355.3 | 351.0 | 346.7 | 343.8 | 339.5 | 338.0 | 333.7 | 329.4 | 325.1 | 320.8 | 317.9 |
| 32.5° | 342.3 | 338.0 | 333.7 | 329.4 | 326.5 | 323.6 | 319.3 | 315.0 | 309.3 | 304.9 | 302.1 |
| 35° | 328.0 | 323.6 | 317.9 | 313.6 | 310.7 | 307.8 | 303.5 | 299.2 | 294.9 | 290.6 | 286.2 |
| 37.5° | 310.7 | 304.9 | 302.1 | 297.7 | 293.4 | 290.6 | 286.2 | 280.5 | 277.6 | 273.3 | 269.0 |
| 40° | 292.0 | 287.7 | 283.4 | 279.0 | 274.7 | 273.3 | 267.5 | 263.2 | 260.3 | 256.0 | 251.7 |
| 42.5° | 273.3 | 269.0 | 263.2 | 258.9 | 256.0 | 254.6 | 250.3 | 246.0 | 241.6 | 238.8 | 234.5 |
| 45° | 253.2 | 248.8 | 244.5 | 240.2 | 237.3 | 235.9 | 231.6 | 228.7 | 224.4 | 221.5 | 217.2 |
| 47.5° | 233.0 | 228.7 | 225.8 | 221.5 | 218.6 | 217.2 | 214.3 | 210.0 | 205.7 | 204.3 | 201.4 |
| 50° | 212.9 | 208.6 | 205.7 | 201.4 | 199.9 | 198.5 | 195.6 | 192.7 | 189.9 | 185.6 | 184.1 |
| 52.5° | 192.7 | 188.4 | 185.6 | 182.7 | 182.7 | 179.8 | 176.9 | 175.5 | 172.6 | 169.7 | 166.9 |
| 55° | 172.6 | 171.2 | 168.3 | 164.0 | 164.0 | 162.5 | 159.7 | 156.8 | 153.9 | 152.5 | 149.6 |
| 57.5° | 152.5 | 151.0 | 148.2 | 146.7 | 145.3 | 143.8 | 142.4 | 139.5 | 138.1 | 135.2 | 133.8 |
| 60° | 135.2 | 133.8 | 130.9 | 129.5 | 128.0 | 126.6 | 125.1 | 122.3 | 120.8 | 119.4 | 117.9 |
| 62.5° | 116.5 | 115.1 | 113.6 | 112.2 | 110.8 | 109.3 | 109.3 | 106.4 | 105.0 | 103.6 | 102.1 |
| 65° | 100.7 | 97.8 | 96.4 | 94.9 | 94.9 | 93.5 | 92.1 | 90.6 | 89.2 | 87.7 | 86.3 |
| 67.5° | 83.4 | 82.0 | 82.0 | 79.1 | 79.1 | 77.7 | 76.2 | 76.2 | 73.4 | 71.9 | 70.5 |
| 70° | 69.0 | 67.6 | 66.2 | 64.7 | 64.7 | 63.3 | 61.9 | 60.4 | 59.0 | 59.0 | 57.5 |
| 72.5° | 54.7 | 53.2 | 53.2 | 51.8 | 50.3 | 50.3 | 48.9 | 47.5 | 46.0 | 46.0 | 44.6 |
| 75° | 41.7 | 40.3 | 40.3 | 38.8 | 38.8 | 37.4 | 36.0 | 36.0 | 34.5 | 33.1 | 31.6 |
| 77.5° | 30.2 | 30.2 | 28.8 | 28.8 | 27.3 | 27.3 | 25.9 | 25.9 | 24.5 | 23.0 | 23.0 |
| 80° | 21.6 | 20.1 | 20.1 | 18.7 | 18.7 | 18.7 | 17.3 | 17.3 | 15.8 | 15.8 | 14.4 |
| 82.5° | 12.9 | 12.9 | 11.5 | 11.5 | 11.5 | 11.5 | 10.1 | 10.1 | 10.1 | 8.6 | 8.6 |
| 85° | 7.2 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 4.3 |
| 87.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 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: P644160

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 1200LM - 5000K

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 |
| 2.5° | 424.3 | 424.3 | 422.9 | 424.3 | 422.9 | 422.9 | 422.9 | 422.9 | 421.4 | 421.4 | 421.4 |
| 5° | 421.4 | 420.0 | 420.0 | 418.6 | 420.0 | 418.6 | 417.1 | 417.1 | 417.1 | 417.1 | 415.7 |
| 7.5° | 415.7 | 415.7 | 414.3 | 412.8 | 412.8 | 411.4 | 409.9 | 409.9 | 408.5 | 408.5 | 407.1 |
| 10° | 411.4 | 408.5 | 407.1 | 405.6 | 405.6 | 404.2 | 402.7 | 401.3 | 399.9 | 398.4 | 398.4 |
| 12.5° | 401.3 | 399.9 | 398.4 | 397.0 | 397.0 | 394.1 | 392.7 | 391.2 | 389.8 | 388.4 | 386.9 |
| 15° | 394.1 | 391.2 | 388.4 | 386.9 | 386.9 | 384.1 | 382.6 | 381.2 | 378.3 | 378.3 | 375.4 |
| 17.5° | 382.6 | 379.7 | 376.9 | 375.4 | 374.0 | 372.5 | 371.1 | 368.2 | 366.8 | 363.9 | 363.9 |
| 20° | 368.2 | 366.8 | 362.5 | 361.0 | 359.6 | 358.2 | 355.3 | 353.8 | 352.4 | 349.5 | 348.1 |
| 22.5° | 356.7 | 352.4 | 349.5 | 348.1 | 348.1 | 343.8 | 342.3 | 339.5 | 338.0 | 336.6 | 333.7 |
| 25° | 342.3 | 339.5 | 336.6 | 333.7 | 333.7 | 330.8 | 329.4 | 326.5 | 323.6 | 322.2 | 320.8 |
| 27.5° | 328.0 | 325.1 | 320.8 | 319.3 | 317.9 | 316.4 | 313.6 | 310.7 | 307.8 | 306.4 | 304.9 |
| 30° | 312.1 | 309.3 | 306.4 | 304.9 | 302.1 | 299.2 | 296.3 | 294.9 | 293.4 | 290.6 | 289.1 |
| 32.5° | 297.7 | 293.4 | 290.6 | 287.7 | 287.7 | 283.4 | 281.9 | 279.0 | 277.6 | 276.2 | 273.3 |
| 35° | 281.9 | 277.6 | 274.7 | 273.3 | 271.9 | 267.5 | 264.7 | 261.8 | 261.8 | 258.9 | 257.5 |
| 37.5° | 264.7 | 260.3 | 258.9 | 256.0 | 254.6 | 251.7 | 248.8 | 247.4 | 244.5 | 241.6 | 241.6 |
| 40° | 248.8 | 244.5 | 240.2 | 240.2 | 237.3 | 235.9 | 231.6 | 230.1 | 227.3 | 225.8 | 224.4 |
| 42.5° | 231.6 | 227.3 | 224.4 | 223.0 | 221.5 | 218.6 | 215.8 | 212.9 | 211.4 | 210.0 | 208.6 |
| 45° | 212.9 | 210.0 | 208.6 | 205.7 | 204.3 | 201.4 | 199.9 | 197.1 | 195.6 | 192.7 | 191.3 |
| 47.5° | 197.1 | 194.2 | 191.3 | 189.9 | 188.4 | 185.6 | 184.1 | 181.2 | 179.8 | 176.9 | 175.5 |
| 50° | 181.2 | 178.4 | 175.5 | 174.0 | 172.6 | 169.7 | 166.9 | 165.4 | 162.5 | 161.1 | 158.2 |
| 52.5° | 164.0 | 161.1 | 158.2 | 158.2 | 156.8 | 153.9 | 152.5 | 149.6 | 146.7 | 143.8 | 142.4 |
| 55° | 148.2 | 145.3 | 142.4 | 141.0 | 141.0 | 138.1 | 135.2 | 133.8 | 130.9 | 129.5 | 126.6 |
| 57.5° | 130.9 | 128.0 | 126.6 | 125.1 | 125.1 | 122.3 | 120.8 | 117.9 | 116.5 | 113.6 | 112.2 |
| 60° | 115.1 | 113.6 | 110.8 | 110.8 | 109.3 | 106.4 | 105.0 | 102.1 | 100.7 | 99.2 | 97.8 |
| 62.5° | 99.2 | 97.8 | 94.9 | 94.9 | 93.5 | 92.1 | 90.6 | 87.7 | 86.3 | 83.4 | 82.0 |
| 65° | 83.4 | 82.0 | 80.5 | 79.1 | 79.1 | 76.2 | 74.8 | 73.4 | 71.9 | 70.5 | 69.0 |
| 67.5° | 69.0 | 67.6 | 66.2 | 66.2 | 64.7 | 63.3 | 60.4 | 59.0 | 57.5 | 56.1 | 54.7 |
| 70° | 56.1 | 53.2 | 51.8 | 51.8 | 50.3 | 48.9 | 47.5 | 46.0 | 44.6 | 43.2 | 41.7 |
| 72.5° | 43.2 | 40.3 | 40.3 | 38.8 | 37.4 | 36.0 | 36.0 | 34.5 | 33.1 | 33.1 | 30.2 |
| 75° | 31.6 | 30.2 | 28.8 | 28.8 | 27.3 | 25.9 | 24.5 | 24.5 | 23.0 | 23.0 | 23.0 |
| 77.5° | 21.6 | 20.1 | 20.1 | 18.7 | 18.7 | 18.7 | 17.3 | 17.3 | 17.3 | 17.3 | 18.7 |
| 80° | 14.4 | 14.4 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 14.4 | 14.4 |
| 82.5° | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 10.1 |
| 85° | 4.3 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 87.5° | 1.4 | 1.4 | 2.9 | 1.4 | 2.9 | 1.4 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 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: P644160

CATALOG NUMBER: ML5615LSWW9FS1E - 692W WW - 1200LM - 5000K

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 | 427.2 |
| 2.5° | 420.0 | 421.4 | 421.4 | 420.0 | 421.4 | 420.0 | 420.0 | 420.0 |
| 5° | 415.7 | 414.3 | 414.3 | 414.3 | 412.8 | 414.3 | 414.3 | 414.3 |
| 7.5° | 407.1 | 407.1 | 405.6 | 405.6 | 404.2 | 404.2 | 405.6 | 404.2 |
| 10° | 397.0 | 395.6 | 397.0 | 395.6 | 395.6 | 395.6 | 394.1 | 395.6 |
| 12.5° | 386.9 | 385.5 | 385.5 | 384.1 | 384.1 | 384.1 | 384.1 | 384.1 |
| 15° | 375.4 | 374.0 | 374.0 | 372.5 | 372.5 | 371.1 | 372.5 | 371.1 |
| 17.5° | 362.5 | 362.5 | 359.6 | 359.6 | 359.6 | 359.6 | 359.6 | 358.2 |
| 20° | 346.7 | 346.7 | 345.2 | 346.7 | 343.8 | 343.8 | 343.8 | 343.8 |
| 22.5° | 333.7 | 332.3 | 330.8 | 330.8 | 330.8 | 329.4 | 329.4 | 329.4 |
| 25° | 317.9 | 317.9 | 316.4 | 316.4 | 315.0 | 315.0 | 315.0 | 315.0 |
| 27.5° | 303.5 | 302.1 | 302.1 | 302.1 | 300.6 | 299.2 | 299.2 | 299.2 |
| 30° | 287.7 | 287.7 | 286.2 | 286.2 | 284.8 | 284.8 | 284.8 | 284.8 |
| 32.5° | 271.9 | 271.9 | 270.4 | 269.0 | 269.0 | 269.0 | 267.5 | 269.0 |
| 35° | 256.0 | 254.6 | 254.6 | 253.2 | 253.2 | 253.2 | 251.7 | 251.7 |
| 37.5° | 240.2 | 238.8 | 237.3 | 238.8 | 237.3 | 235.9 | 235.9 | 235.9 |
| 40° | 223.0 | 221.5 | 221.5 | 220.1 | 220.1 | 220.1 | 218.6 | 220.1 |
| 42.5° | 207.1 | 207.1 | 205.7 | 204.3 | 204.3 | 204.3 | 202.8 | 202.8 |
| 45° | 191.3 | 188.4 | 189.9 | 188.4 | 188.4 | 187.0 | 187.0 | 185.6 |
| 47.5° | 174.0 | 172.6 | 172.6 | 172.6 | 171.2 | 171.2 | 171.2 | 171.2 |
| 50° | 156.8 | 155.3 | 156.8 | 155.3 | 155.3 | 153.9 | 153.9 | 153.9 |
| 52.5° | 141.0 | 139.5 | 139.5 | 139.5 | 139.5 | 138.1 | 138.1 | 138.1 |
| 55° | 125.1 | 123.7 | 123.7 | 123.7 | 122.3 | 122.3 | 120.8 | 120.8 |
| 57.5° | 110.8 | 109.3 | 107.9 | 106.4 | 106.4 | 106.4 | 105.0 | 105.0 |
| 60° | 94.9 | 93.5 | 92.1 | 92.1 | 90.6 | 90.6 | 90.6 | 89.2 |
| 62.5° | 80.5 | 79.1 | 77.7 | 77.7 | 76.2 | 74.8 | 74.8 | 74.8 |
| 65° | 66.2 | 64.7 | 64.7 | 63.3 | 61.9 | 61.9 | 60.4 | 60.4 |
| 67.5° | 53.2 | 51.8 | 51.8 | 50.3 | 48.9 | 47.5 | 47.5 | 47.5 |
| 70° | 41.7 | 40.3 | 38.8 | 38.8 | 38.8 | 37.4 | 36.0 | 36.0 |
| 72.5° | 30.2 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 |
| 75° | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 |
| 77.5° | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 |
| 80° | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 |
| 82.5° | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 |
| 85° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 87.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 1.4 |
| 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)