

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: P642314

Luminaire Tested: ML5612LSWW97FS1E - 692H WW - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-132)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWW97FS1E - 692H WW - 1200LM - 4000K
Description: ML56 RR, WW OPTIC, 6" WW INSERT WITH HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 972.6 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.12 / 1.23
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

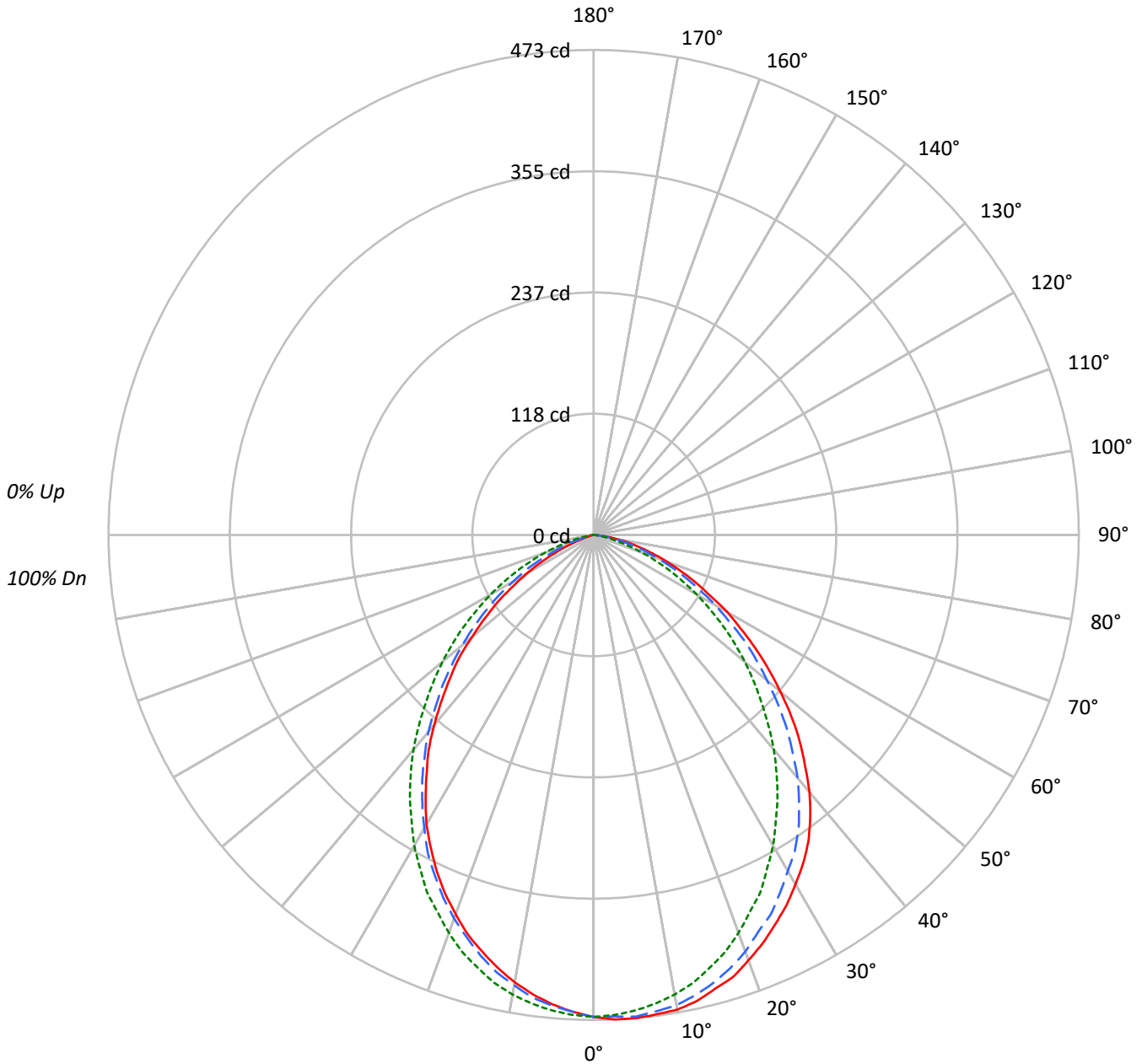
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P642314

CATALOG NUMBER: ML5612LSWW97FS1E - 692H WW - 1200LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P642314

CATALOG NUMBER: ML5612LSWW97FS1E - 692H WW - 1200LM - 4000K

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 | 104 | 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 | 86 | 83 | 79 | 84 | 80 | 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 | 68 | 60 | 54 | 66 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | 51 | | | | | 51 | | | |
| 6 | 75 | 62 | 54 | 48 | 73 | 61 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 45 | | | | | 45 | | | |
| 7 | 69 | 57 | 49 | 43 | 68 | 56 | 48 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | 40 | | | |
| 8 | 65 | 52 | 44 | 39 | 63 | 52 | 44 | 39 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 36 | | | | | 36 | | | |
| 9 | 61 | 48 | 40 | 35 | 59 | 48 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 33 | | | | | 33 | | | |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 30 | | | | | 30 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 25771 | 25771 | 25771 | 25771 | 25771 |
| 5° | 26034 | 25952 | 25622 | 25374 | 25292 |
| 10° | 26169 | 25918 | 25334 | 24833 | 24660 |
| 15° | 25999 | 25658 | 24802 | 24120 | 23865 |
| 20° | 25756 | 25231 | 24094 | 23219 | 22956 |
| 25° | 25344 | 24709 | 23257 | 22169 | 21890 |
| 30° | 24909 | 23959 | 22149 | 20915 | 20630 |
| 35° | 24427 | 23316 | 20907 | 19501 | 18999 |
| 40° | 23430 | 22141 | 19558 | 17948 | 17304 |
| 45° | 22010 | 20607 | 17932 | 16188 | 15366 |
| 50° | 20238 | 18831 | 16392 | 14217 | 13194 |
| 55° | 18370 | 17079 | 14642 | 12205 | 10905 |
| 60° | 16468 | 14988 | 12674 | 9879 | 8234 |
| 65° | 14217 | 12855 | 10520 | 7407 | 5266 |
| 70° | 12037 | 10595 | 7950 | 4568 | 2404 |
| 75° | 9870 | 8261 | 5083 | 1589 | 953 |
| 80° | 7103 | 5683 | 2368 | 474 | 474 |
| 85° | 3774 | 2830 | 943 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22010 cd/sqm



TEST NUMBER: P642314

CATALOG NUMBER: ML5612LSWW97FS1E - 692H WW - 1200LM - 4000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.2 | 4.5 |
| 10°-20° | 123.4 | 12.7 |
| 20°-30° | 177.9 | 18.3 |
| 30°-40° | 198.8 | 20.4 |
| 40°-50° | 182.3 | 18.7 |
| 50°-60° | 136.9 | 14.1 |
| 60°-70° | 78.2 | 8.0 |
| 70°-80° | 27.3 | 2.8 |
| 80°-90° | 3.5 | 0.4 |
| 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° | 345.5 | 35.5 |
| 0°-40° | 544.3 | 56.0 |
| 0°-60° | 863.6 | 88.8 |
| 0°-90° | 972.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 972.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 470 | 470 | 470 | 470 | 470 | |
| 5° | 473 | 472 | 466 | 461 | 460 | 45 |
| 15° | 458 | 452 | 437 | 425 | 420 | 129 |
| 25° | 419 | 408 | 384 | 366 | 362 | 193 |
| 35° | 365 | 348 | 312 | 291 | 284 | 227 |
| 45° | 284 | 266 | 231 | 209 | 198 | 218 |
| 55° | 192 | 179 | 153 | 128 | 114 | 172 |
| 65° | 110 | 99 | 81 | 57 | 41 | 109 |
| 75° | 47 | 39 | 24 | 8 | 4 | 50 |
| 85° | 6 | 4 | 2 | 0 | 0 | 9 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P642314

CATALOG NUMBER: ML5612LSWW97FS1E - 692H WW - 1200LM - 4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 |
| 2.5° | 473.1 | 471.6 | 471.6 | 471.6 | 471.6 | 471.6 | 471.6 | 471.6 | 471.6 | 471.6 | 470.1 |
| 5° | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 471.6 | 471.6 | 471.6 | 471.6 |
| 7.5° | 471.6 | 471.6 | 471.6 | 471.6 | 471.6 | 471.6 | 471.6 | 470.1 | 470.1 | 468.6 | 468.6 |
| 10° | 470.1 | 470.1 | 470.1 | 468.6 | 468.6 | 468.6 | 468.6 | 468.6 | 467.1 | 467.1 | 465.6 |
| 12.5° | 465.6 | 465.6 | 465.6 | 465.6 | 464.1 | 464.1 | 464.1 | 462.6 | 461.1 | 461.1 | 459.6 |
| 15° | 458.1 | 459.6 | 459.6 | 458.1 | 458.1 | 458.1 | 458.1 | 456.6 | 455.1 | 453.6 | 452.1 |
| 17.5° | 452.1 | 452.1 | 452.1 | 450.6 | 449.1 | 450.6 | 449.1 | 447.6 | 446.1 | 444.6 | 443.0 |
| 20° | 441.5 | 441.5 | 440.0 | 440.0 | 440.0 | 440.0 | 438.5 | 437.0 | 435.5 | 434.0 | 432.5 |
| 22.5° | 431.0 | 431.0 | 431.0 | 428.0 | 428.0 | 428.0 | 426.5 | 426.5 | 423.5 | 422.0 | 419.0 |
| 25° | 419.0 | 419.0 | 419.0 | 417.5 | 416.0 | 414.5 | 416.0 | 413.0 | 411.5 | 408.5 | 408.5 |
| 27.5° | 407.0 | 407.0 | 405.5 | 405.5 | 404.0 | 404.0 | 402.5 | 399.5 | 398.0 | 396.5 | 393.5 |
| 30° | 393.5 | 393.5 | 392.0 | 392.0 | 390.5 | 389.0 | 389.0 | 386.0 | 384.5 | 381.5 | 378.5 |
| 32.5° | 380.0 | 380.0 | 378.5 | 378.5 | 377.0 | 375.5 | 375.5 | 372.5 | 369.5 | 366.5 | 365.0 |
| 35° | 365.0 | 365.0 | 363.5 | 363.5 | 361.9 | 360.4 | 358.9 | 355.9 | 354.4 | 349.9 | 348.4 |
| 37.5° | 346.9 | 348.4 | 345.4 | 345.4 | 343.9 | 342.4 | 340.9 | 339.4 | 336.4 | 333.4 | 328.9 |
| 40° | 327.4 | 325.9 | 325.9 | 324.4 | 322.9 | 322.9 | 321.4 | 318.4 | 316.9 | 312.4 | 309.4 |
| 42.5° | 304.9 | 304.9 | 304.9 | 303.4 | 301.9 | 301.9 | 298.9 | 297.4 | 294.4 | 291.4 | 286.9 |
| 45° | 283.9 | 283.9 | 282.4 | 282.4 | 279.3 | 279.3 | 277.8 | 274.8 | 273.3 | 268.8 | 265.8 |
| 47.5° | 261.3 | 259.8 | 259.8 | 258.3 | 256.8 | 256.8 | 255.3 | 253.8 | 250.8 | 246.3 | 243.3 |
| 50° | 237.3 | 237.3 | 237.3 | 235.8 | 234.3 | 234.3 | 232.8 | 229.8 | 228.3 | 225.3 | 220.8 |
| 52.5° | 214.8 | 214.8 | 214.8 | 213.3 | 211.8 | 211.8 | 210.3 | 208.8 | 205.8 | 202.8 | 199.7 |
| 55° | 192.2 | 192.2 | 192.2 | 190.7 | 190.7 | 187.7 | 187.7 | 186.2 | 183.2 | 180.2 | 178.7 |
| 57.5° | 169.7 | 169.7 | 169.7 | 169.7 | 168.2 | 168.2 | 166.7 | 165.2 | 162.2 | 160.7 | 156.2 |
| 60° | 150.2 | 148.7 | 148.7 | 147.2 | 147.2 | 145.7 | 144.2 | 142.7 | 141.2 | 138.2 | 136.7 |
| 62.5° | 127.7 | 129.2 | 127.7 | 127.7 | 126.2 | 126.2 | 126.2 | 123.2 | 121.7 | 118.6 | 117.1 |
| 65° | 109.6 | 109.6 | 109.6 | 109.6 | 106.6 | 106.6 | 106.6 | 103.6 | 102.1 | 102.1 | 99.1 |
| 67.5° | 91.6 | 91.6 | 91.6 | 90.1 | 90.1 | 90.1 | 88.6 | 87.1 | 85.6 | 84.1 | 82.6 |
| 70° | 75.1 | 75.1 | 75.1 | 73.6 | 73.6 | 72.1 | 72.1 | 70.6 | 69.1 | 69.1 | 66.1 |
| 72.5° | 60.1 | 60.1 | 60.1 | 60.1 | 58.6 | 58.6 | 57.1 | 57.1 | 55.6 | 54.1 | 52.6 |
| 75° | 46.6 | 46.6 | 46.6 | 45.1 | 45.1 | 45.1 | 43.6 | 43.6 | 42.1 | 40.6 | 39.0 |
| 77.5° | 34.5 | 33.0 | 33.0 | 33.0 | 33.0 | 31.5 | 31.5 | 31.5 | 30.0 | 28.5 | 28.5 |
| 80° | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 21.0 | 21.0 | 21.0 | 19.5 | 19.5 | 18.0 |
| 82.5° | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 12.0 | 12.0 | 12.0 | 10.5 | 10.5 | 10.5 |
| 85° | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 4.5 | 4.5 | 4.5 |
| 87.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 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: P642314

CATALOG NUMBER: ML5612LSWW97FS1E - 692H WW - 1200LM - 4000K

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 |
| 2.5° | 471.6 | 471.6 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 468.6 | 468.6 | 468.6 | 468.6 |
| 5° | 471.6 | 470.1 | 468.6 | 468.6 | 468.6 | 468.6 | 467.1 | 467.1 | 467.1 | 465.6 | 465.6 |
| 7.5° | 467.1 | 467.1 | 467.1 | 465.6 | 465.6 | 464.1 | 464.1 | 462.6 | 462.6 | 461.1 | 461.1 |
| 10° | 464.1 | 462.6 | 462.6 | 461.1 | 461.1 | 459.6 | 459.6 | 456.6 | 455.1 | 455.1 | 453.6 |
| 12.5° | 458.1 | 456.6 | 456.6 | 453.6 | 453.6 | 453.6 | 452.1 | 449.1 | 447.6 | 447.6 | 446.1 |
| 15° | 450.6 | 449.1 | 447.6 | 444.6 | 444.6 | 443.0 | 441.5 | 440.0 | 438.5 | 437.0 | 435.5 |
| 17.5° | 441.5 | 438.5 | 437.0 | 435.5 | 434.0 | 432.5 | 431.0 | 429.5 | 426.5 | 426.5 | 423.5 |
| 20° | 431.0 | 428.0 | 426.5 | 423.5 | 422.0 | 422.0 | 419.0 | 416.0 | 414.5 | 413.0 | 410.0 |
| 22.5° | 417.5 | 416.0 | 413.0 | 410.0 | 408.5 | 408.5 | 405.5 | 402.5 | 401.0 | 398.0 | 396.5 |
| 25° | 405.5 | 401.0 | 399.5 | 396.5 | 395.0 | 395.0 | 392.0 | 389.0 | 386.0 | 384.5 | 381.5 |
| 27.5° | 390.5 | 387.5 | 386.0 | 381.5 | 380.0 | 378.5 | 375.5 | 372.5 | 369.5 | 366.5 | 363.5 |
| 30° | 375.5 | 372.5 | 369.5 | 365.0 | 365.0 | 361.9 | 358.9 | 354.4 | 352.9 | 349.9 | 345.4 |
| 32.5° | 360.4 | 357.4 | 352.9 | 349.9 | 346.9 | 345.4 | 340.9 | 337.9 | 334.9 | 330.4 | 328.9 |
| 35° | 343.9 | 339.4 | 336.4 | 331.9 | 330.4 | 327.4 | 324.4 | 319.9 | 316.9 | 312.4 | 307.9 |
| 37.5° | 325.9 | 319.9 | 316.9 | 312.4 | 310.9 | 307.9 | 304.9 | 301.9 | 297.4 | 292.9 | 289.9 |
| 40° | 306.4 | 300.4 | 295.9 | 292.9 | 289.9 | 286.9 | 285.4 | 279.3 | 276.3 | 273.3 | 270.3 |
| 42.5° | 283.9 | 279.3 | 274.8 | 271.8 | 268.8 | 267.3 | 262.8 | 259.8 | 255.3 | 252.3 | 249.3 |
| 45° | 262.8 | 258.3 | 253.8 | 249.3 | 247.8 | 246.3 | 243.3 | 238.8 | 234.3 | 231.3 | 228.3 |
| 47.5° | 240.3 | 237.3 | 231.3 | 229.8 | 226.8 | 225.3 | 220.8 | 217.8 | 216.3 | 211.8 | 208.8 |
| 50° | 217.8 | 214.8 | 211.8 | 207.3 | 205.8 | 204.3 | 201.2 | 198.2 | 195.2 | 192.2 | 189.2 |
| 52.5° | 195.2 | 193.7 | 190.7 | 186.2 | 186.2 | 184.7 | 181.7 | 178.7 | 175.7 | 172.7 | 169.7 |
| 55° | 175.7 | 172.7 | 169.7 | 166.7 | 165.2 | 163.7 | 160.7 | 159.2 | 156.2 | 153.2 | 150.2 |
| 57.5° | 154.7 | 151.7 | 150.2 | 147.2 | 145.7 | 144.2 | 141.2 | 139.7 | 136.7 | 133.7 | 130.7 |
| 60° | 135.2 | 132.2 | 130.7 | 127.7 | 126.2 | 126.2 | 123.2 | 120.1 | 118.6 | 115.6 | 112.6 |
| 62.5° | 115.6 | 112.6 | 111.1 | 108.1 | 108.1 | 106.6 | 105.1 | 102.1 | 100.6 | 97.6 | 96.1 |
| 65° | 97.6 | 96.1 | 93.1 | 91.6 | 90.1 | 88.6 | 87.1 | 85.6 | 82.6 | 81.1 | 78.1 |
| 67.5° | 81.1 | 78.1 | 76.6 | 75.1 | 73.6 | 72.1 | 70.6 | 69.1 | 66.1 | 64.6 | 61.6 |
| 70° | 64.6 | 63.1 | 61.6 | 60.1 | 58.6 | 58.6 | 55.6 | 54.1 | 51.1 | 49.6 | 46.6 |
| 72.5° | 51.1 | 49.6 | 48.1 | 45.1 | 45.1 | 43.6 | 42.1 | 40.6 | 37.5 | 36.0 | 33.0 |
| 75° | 37.5 | 37.5 | 34.5 | 33.0 | 33.0 | 31.5 | 30.0 | 28.5 | 27.0 | 24.0 | 22.5 |
| 77.5° | 27.0 | 25.5 | 24.0 | 22.5 | 21.0 | 21.0 | 19.5 | 18.0 | 16.5 | 15.0 | 12.0 |
| 80° | 18.0 | 16.5 | 15.0 | 13.5 | 13.5 | 12.0 | 10.5 | 10.5 | 9.0 | 7.5 | 6.0 |
| 82.5° | 9.0 | 9.0 | 7.5 | 7.5 | 6.0 | 6.0 | 6.0 | 4.5 | 4.5 | 3.0 | 3.0 |
| 85° | 4.5 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 1.5 | 1.5 | 1.5 | 1.5 | 0.0 |
| 87.5° | 1.5 | 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: P642314

CATALOG NUMBER: ML5612LSWW97FS1E - 692H WW - 1200LM - 4000K

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 |
| 2.5° | 468.6 | 467.1 | 468.6 | 468.6 | 467.1 | 467.1 | 467.1 | 467.1 | 465.6 | 467.1 | 465.6 |
| 5° | 465.6 | 464.1 | 464.1 | 464.1 | 464.1 | 462.6 | 462.6 | 461.1 | 461.1 | 461.1 | 461.1 |
| 7.5° | 459.6 | 458.1 | 458.1 | 456.6 | 456.6 | 456.6 | 456.6 | 455.1 | 455.1 | 453.6 | 453.6 |
| 10° | 453.6 | 452.1 | 450.6 | 450.6 | 449.1 | 449.1 | 449.1 | 447.6 | 446.1 | 446.1 | 444.6 |
| 12.5° | 443.0 | 443.0 | 441.5 | 441.5 | 440.0 | 440.0 | 438.5 | 437.0 | 437.0 | 435.5 | 435.5 |
| 15° | 434.0 | 432.5 | 431.0 | 431.0 | 429.5 | 428.0 | 426.5 | 426.5 | 425.0 | 425.0 | 423.5 |
| 17.5° | 422.0 | 419.0 | 419.0 | 417.5 | 416.0 | 416.0 | 414.5 | 413.0 | 411.5 | 411.5 | 411.5 |
| 20° | 408.5 | 407.0 | 405.5 | 404.0 | 402.5 | 402.5 | 401.0 | 399.5 | 398.0 | 396.5 | 396.5 |
| 22.5° | 393.5 | 392.0 | 390.5 | 389.0 | 389.0 | 387.5 | 386.0 | 384.5 | 383.0 | 381.5 | 381.5 |
| 25° | 378.5 | 377.0 | 375.5 | 374.0 | 372.5 | 371.0 | 369.5 | 368.0 | 366.5 | 365.0 | 365.0 |
| 27.5° | 361.9 | 358.9 | 357.4 | 355.9 | 354.4 | 352.9 | 352.9 | 349.9 | 349.9 | 348.4 | 346.9 |
| 30° | 343.9 | 340.9 | 337.9 | 337.9 | 336.4 | 334.9 | 331.9 | 331.9 | 330.4 | 328.9 | 327.4 |
| 32.5° | 324.4 | 322.9 | 319.9 | 319.9 | 316.9 | 315.4 | 313.9 | 312.4 | 310.9 | 309.4 | 309.4 |
| 35° | 306.4 | 301.9 | 300.4 | 300.4 | 297.4 | 295.9 | 294.4 | 291.4 | 291.4 | 288.4 | 288.4 |
| 37.5° | 286.9 | 283.9 | 282.4 | 279.3 | 277.8 | 276.3 | 274.8 | 271.8 | 270.3 | 268.8 | 267.3 |
| 40° | 267.3 | 264.3 | 261.3 | 259.8 | 258.3 | 255.3 | 253.8 | 250.8 | 250.8 | 247.8 | 246.3 |
| 42.5° | 246.3 | 243.3 | 240.3 | 238.8 | 237.3 | 234.3 | 232.8 | 229.8 | 228.3 | 226.8 | 225.3 |
| 45° | 225.3 | 222.3 | 220.8 | 219.3 | 217.8 | 216.3 | 211.8 | 210.3 | 208.8 | 205.8 | 204.3 |
| 47.5° | 205.8 | 202.8 | 199.7 | 199.7 | 196.7 | 195.2 | 192.2 | 189.2 | 187.7 | 184.7 | 183.2 |
| 50° | 186.2 | 183.2 | 180.2 | 178.7 | 178.7 | 174.2 | 172.7 | 169.7 | 166.7 | 163.7 | 162.2 |
| 52.5° | 166.7 | 163.7 | 160.7 | 159.2 | 157.7 | 154.7 | 151.7 | 150.2 | 147.2 | 144.2 | 142.7 |
| 55° | 147.2 | 144.2 | 141.2 | 139.7 | 138.2 | 135.2 | 133.7 | 129.2 | 127.7 | 124.7 | 121.7 |
| 57.5° | 129.2 | 126.2 | 123.2 | 121.7 | 120.1 | 117.1 | 114.1 | 111.1 | 109.6 | 106.6 | 103.6 |
| 60° | 109.6 | 108.1 | 105.1 | 103.6 | 102.1 | 100.6 | 96.1 | 93.1 | 90.1 | 88.6 | 85.6 |
| 62.5° | 93.1 | 90.1 | 87.1 | 85.6 | 84.1 | 82.6 | 79.6 | 76.6 | 75.1 | 70.6 | 67.6 |
| 65° | 76.6 | 73.6 | 70.6 | 69.1 | 67.6 | 66.1 | 63.1 | 60.1 | 57.1 | 54.1 | 52.6 |
| 67.5° | 58.6 | 57.1 | 54.1 | 54.1 | 52.6 | 49.6 | 46.6 | 45.1 | 42.1 | 40.6 | 37.5 |
| 70° | 45.1 | 43.6 | 40.6 | 39.0 | 37.5 | 34.5 | 33.0 | 30.0 | 28.5 | 27.0 | 24.0 |
| 72.5° | 31.5 | 30.0 | 27.0 | 25.5 | 24.0 | 22.5 | 19.5 | 18.0 | 16.5 | 15.0 | 13.5 |
| 75° | 21.0 | 18.0 | 16.5 | 15.0 | 15.0 | 12.0 | 10.5 | 9.0 | 7.5 | 6.0 | 6.0 |
| 77.5° | 12.0 | 10.5 | 7.5 | 7.5 | 7.5 | 6.0 | 4.5 | 4.5 | 3.0 | 3.0 | 3.0 |
| 80° | 6.0 | 4.5 | 3.0 | 3.0 | 3.0 | 3.0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 82.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 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: P642314

CATALOG NUMBER: ML5612LSWW97FS1E - 692H WW - 1200LM - 4000K

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 | 470.1 |
| 2.5° | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 |
| 5° | 461.1 | 459.6 | 459.6 | 459.6 | 459.6 | 459.6 | 459.6 | 459.6 |
| 7.5° | 453.6 | 453.6 | 452.1 | 453.6 | 452.1 | 452.1 | 452.1 | 452.1 |
| 10° | 444.6 | 444.6 | 444.6 | 444.6 | 443.0 | 443.0 | 443.0 | 443.0 |
| 12.5° | 435.5 | 434.0 | 434.0 | 434.0 | 432.5 | 434.0 | 432.5 | 432.5 |
| 15° | 423.5 | 422.0 | 422.0 | 422.0 | 422.0 | 420.5 | 422.0 | 420.5 |
| 17.5° | 410.0 | 410.0 | 408.5 | 410.0 | 408.5 | 408.5 | 408.5 | 408.5 |
| 20° | 395.0 | 395.0 | 395.0 | 393.5 | 395.0 | 393.5 | 393.5 | 393.5 |
| 22.5° | 380.0 | 380.0 | 378.5 | 378.5 | 378.5 | 378.5 | 378.5 | 378.5 |
| 25° | 363.5 | 363.5 | 363.5 | 363.5 | 361.9 | 361.9 | 361.9 | 361.9 |
| 27.5° | 346.9 | 345.4 | 345.4 | 345.4 | 343.9 | 345.4 | 343.9 | 343.9 |
| 30° | 327.4 | 327.4 | 325.9 | 325.9 | 325.9 | 324.4 | 324.4 | 325.9 |
| 32.5° | 306.4 | 306.4 | 306.4 | 306.4 | 304.9 | 304.9 | 304.9 | 304.9 |
| 35° | 286.9 | 286.9 | 285.4 | 285.4 | 285.4 | 283.9 | 283.9 | 283.9 |
| 37.5° | 265.8 | 265.8 | 264.3 | 264.3 | 264.3 | 262.8 | 262.8 | 264.3 |
| 40° | 244.8 | 244.8 | 243.3 | 243.3 | 243.3 | 241.8 | 241.8 | 241.8 |
| 42.5° | 223.8 | 222.3 | 222.3 | 220.8 | 220.8 | 220.8 | 219.3 | 219.3 |
| 45° | 202.8 | 201.2 | 201.2 | 201.2 | 199.7 | 198.2 | 198.2 | 198.2 |
| 47.5° | 181.7 | 180.2 | 178.7 | 178.7 | 177.2 | 177.2 | 177.2 | 178.7 |
| 50° | 160.7 | 159.2 | 159.2 | 157.7 | 156.2 | 156.2 | 156.2 | 154.7 |
| 52.5° | 139.7 | 138.2 | 138.2 | 136.7 | 136.7 | 135.2 | 133.7 | 133.7 |
| 55° | 120.1 | 118.6 | 117.1 | 115.6 | 115.6 | 114.1 | 114.1 | 114.1 |
| 57.5° | 100.6 | 99.1 | 97.6 | 97.6 | 96.1 | 96.1 | 94.6 | 93.1 |
| 60° | 82.6 | 81.1 | 79.6 | 79.6 | 78.1 | 76.6 | 75.1 | 75.1 |
| 62.5° | 66.1 | 64.6 | 63.1 | 61.6 | 60.1 | 58.6 | 57.1 | 58.6 |
| 65° | 51.1 | 48.1 | 46.6 | 45.1 | 45.1 | 43.6 | 42.1 | 40.6 |
| 67.5° | 36.0 | 34.5 | 33.0 | 31.5 | 30.0 | 28.5 | 27.0 | 27.0 |
| 70° | 22.5 | 19.5 | 19.5 | 19.5 | 18.0 | 16.5 | 15.0 | 15.0 |
| 72.5° | 12.0 | 10.5 | 9.0 | 9.0 | 7.5 | 7.5 | 7.5 | 7.5 |
| 75° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 77.5° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 80° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 82.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 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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(END OF REPORT)