

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: P644084

Luminaire Tested: ML5615LSWW9FS1E - 592H WW - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644084
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: ML5615LSWW9FS1E - 592H WW - 1200LM - 4000K
Description: ML56 RR, WW OPTIC, 5" WW INSERT WITH HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 911.3 lumens
Efficiency: N/A
Efficacy: 68.0 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

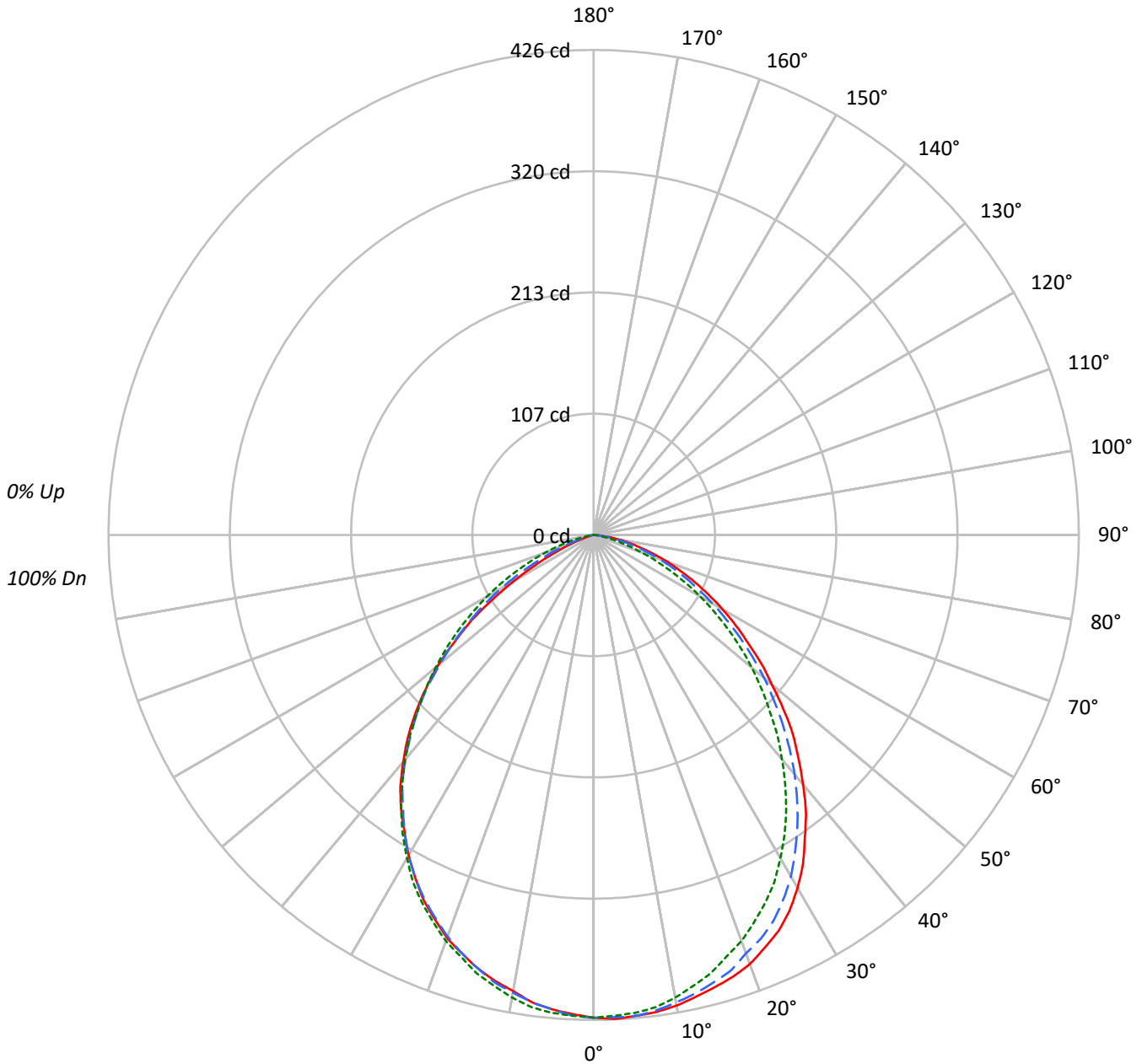
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P644084

CATALOG NUMBER: ML5615LSWW9FS1E - 592H WW - 1200LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P644084

CATALOG NUMBER: ML5615LSWW9FS1E - 592H WW - 1200LM - 4000K

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 33479 | 33479 | 33479 | 33479 | 33479 |
| 5° | 33607 | 33607 | 33385 | 33155 | 33155 |
| 10° | 33651 | 33426 | 33073 | 32729 | 32617 |
| 15° | 33606 | 33254 | 32551 | 32200 | 32200 |
| 20° | 33695 | 32855 | 31889 | 31528 | 31646 |
| 25° | 33438 | 32559 | 31060 | 30686 | 30808 |
| 30° | 32633 | 31585 | 29880 | 29616 | 29616 |
| 35° | 31175 | 30067 | 28400 | 28130 | 28400 |
| 40° | 29483 | 28298 | 26525 | 26525 | 26814 |
| 45° | 27608 | 26168 | 24393 | 24393 | 24717 |
| 50° | 25078 | 24009 | 22253 | 21541 | 21897 |
| 55° | 22750 | 21567 | 19791 | 18401 | 18002 |
| 60° | 20651 | 19072 | 17020 | 14762 | 12709 |
| 65° | 18268 | 16643 | 13692 | 10199 | 7528 |
| 70° | 15926 | 13941 | 10294 | 5632 | 2977 |
| 75° | 12719 | 10950 | 6588 | 1769 | 885 |
| 80° | 9819 | 7183 | 2637 | 636 | 636 |
| 85° | 5253 | 3895 | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27608 cd/sqm



TEST NUMBER: P644084

CATALOG NUMBER: ML5615LSWW9FS1E - 592H WW - 1200LM - 4000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.0 | 4.4 |
| 10°-20° | 112.9 | 12.4 |
| 20°-30° | 166.5 | 18.3 |
| 30°-40° | 188.5 | 20.7 |
| 40°-50° | 174.2 | 19.1 |
| 50°-60° | 130.1 | 14.3 |
| 60°-70° | 71.9 | 7.9 |
| 70°-80° | 24.2 | 2.7 |
| 80°-90° | 3.0 | 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° | 319.3 | 35.0 |
| 0°-40° | 507.9 | 55.7 |
| 0°-60° | 812.1 | 89.1 |
| 0°-90° | 911.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 911.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 424 | 424 | 424 | 424 | 424 | |
| 5° | 424 | 424 | 421 | 418 | 418 | 40 |
| 15° | 411 | 407 | 398 | 394 | 394 | 116 |
| 25° | 384 | 374 | 357 | 352 | 354 | 176 |
| 35° | 324 | 312 | 295 | 292 | 295 | 202 |
| 45° | 247 | 234 | 218 | 218 | 221 | 190 |
| 55° | 165 | 157 | 144 | 134 | 131 | 149 |
| 65° | 98 | 89 | 73 | 55 | 40 | 97 |
| 75° | 42 | 36 | 22 | 6 | 3 | 46 |
| 85° | 6 | 4 | 0 | 0 | 0 | 8 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P644084

CATALOG NUMBER: ML5615LSWW9FS1E - 592H WW - 1200LM - 4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |
| 2.5° | 425.6 | 425.6 | 425.6 | 425.6 | 424.1 | 424.1 | 425.6 | 424.1 | 424.1 | 424.1 | 424.1 |
| 5° | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |
| 7.5° | 422.7 | 422.7 | 422.7 | 422.7 | 422.7 | 422.7 | 422.7 | 422.7 | 421.3 | 421.3 | 421.3 |
| 10° | 419.8 | 419.8 | 419.8 | 419.8 | 419.8 | 419.8 | 419.8 | 418.4 | 418.4 | 418.4 | 417.0 |
| 12.5° | 415.5 | 417.0 | 415.5 | 417.0 | 415.5 | 415.5 | 414.1 | 414.1 | 414.1 | 412.6 | 412.6 |
| 15° | 411.2 | 411.2 | 411.2 | 411.2 | 411.2 | 409.8 | 409.8 | 408.3 | 408.3 | 408.3 | 406.9 |
| 17.5° | 406.9 | 405.5 | 405.5 | 405.5 | 404.0 | 404.0 | 404.0 | 404.0 | 402.6 | 401.1 | 401.1 |
| 20° | 401.1 | 399.7 | 399.7 | 399.7 | 398.3 | 398.3 | 396.8 | 396.8 | 394.0 | 394.0 | 391.1 |
| 22.5° | 392.5 | 392.5 | 392.5 | 391.1 | 391.1 | 389.6 | 389.6 | 388.2 | 386.8 | 385.3 | 383.9 |
| 25° | 383.9 | 383.9 | 382.4 | 382.4 | 381.0 | 381.0 | 381.0 | 378.1 | 376.7 | 375.3 | 373.8 |
| 27.5° | 372.4 | 372.4 | 370.9 | 370.9 | 369.5 | 368.1 | 368.1 | 365.2 | 365.2 | 362.3 | 360.9 |
| 30° | 358.0 | 358.0 | 358.0 | 355.1 | 355.1 | 355.1 | 353.7 | 352.3 | 349.4 | 347.9 | 346.5 |
| 32.5° | 342.2 | 340.8 | 340.8 | 340.8 | 339.3 | 337.9 | 337.9 | 335.0 | 333.6 | 332.1 | 329.3 |
| 35° | 323.5 | 323.5 | 323.5 | 323.5 | 322.1 | 320.6 | 320.6 | 317.7 | 316.3 | 313.4 | 312.0 |
| 37.5° | 306.2 | 306.2 | 304.8 | 304.8 | 301.9 | 303.4 | 301.9 | 300.5 | 299.1 | 294.7 | 293.3 |
| 40° | 286.1 | 286.1 | 286.1 | 284.7 | 283.2 | 283.2 | 281.8 | 280.4 | 277.5 | 276.1 | 274.6 |
| 42.5° | 266.0 | 266.0 | 266.0 | 264.6 | 263.1 | 263.1 | 263.1 | 260.2 | 258.8 | 257.4 | 254.5 |
| 45° | 247.3 | 245.9 | 245.9 | 244.4 | 244.4 | 243.0 | 241.5 | 240.1 | 238.7 | 237.2 | 234.4 |
| 47.5° | 225.7 | 225.7 | 224.3 | 224.3 | 222.9 | 222.9 | 221.4 | 220.0 | 218.5 | 217.1 | 214.2 |
| 50° | 204.2 | 205.6 | 205.6 | 204.2 | 204.2 | 202.7 | 201.3 | 201.3 | 199.9 | 198.4 | 195.5 |
| 52.5° | 185.5 | 185.5 | 185.5 | 184.0 | 184.0 | 182.6 | 182.6 | 181.2 | 179.7 | 176.8 | 175.4 |
| 55° | 165.3 | 166.8 | 165.3 | 165.3 | 165.3 | 163.9 | 163.9 | 162.5 | 161.0 | 158.2 | 156.7 |
| 57.5° | 148.1 | 148.1 | 146.7 | 146.7 | 145.2 | 145.2 | 145.2 | 143.8 | 142.3 | 140.9 | 138.0 |
| 60° | 130.8 | 129.4 | 129.4 | 129.4 | 128.0 | 128.0 | 128.0 | 125.1 | 123.6 | 122.2 | 120.8 |
| 62.5° | 113.6 | 113.6 | 113.6 | 112.1 | 112.1 | 110.7 | 109.3 | 109.3 | 107.8 | 106.4 | 103.5 |
| 65° | 97.8 | 97.8 | 96.3 | 96.3 | 96.3 | 94.9 | 94.9 | 93.5 | 92.0 | 90.6 | 89.1 |
| 67.5° | 82.0 | 82.0 | 82.0 | 80.5 | 80.5 | 80.5 | 79.1 | 77.6 | 77.6 | 76.2 | 74.8 |
| 70° | 69.0 | 67.6 | 67.6 | 67.6 | 66.1 | 66.1 | 66.1 | 64.7 | 63.3 | 61.8 | 60.4 |
| 72.5° | 54.6 | 54.6 | 54.6 | 54.6 | 53.2 | 53.2 | 51.8 | 51.8 | 50.3 | 48.9 | 47.4 |
| 75° | 41.7 | 41.7 | 41.7 | 41.7 | 40.3 | 40.3 | 40.3 | 38.8 | 38.8 | 37.4 | 35.9 |
| 77.5° | 31.6 | 31.6 | 31.6 | 30.2 | 30.2 | 28.8 | 28.8 | 28.8 | 27.3 | 27.3 | 25.9 |
| 80° | 21.6 | 21.6 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 18.7 | 17.3 | 17.3 | 15.8 |
| 82.5° | 12.9 | 12.9 | 12.9 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 10.1 | 10.1 | 8.6 |
| 85° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 87.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 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: P644084

CATALOG NUMBER: ML5615LSWW9FS1E - 592H WW - 1200LM - 4000K

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |
| 2.5° | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 422.7 | 422.7 | 422.7 | 422.7 |
| 5° | 422.7 | 422.7 | 422.7 | 422.7 | 422.7 | 421.3 | 422.7 | 421.3 | 421.3 | 421.3 | 421.3 |
| 7.5° | 419.8 | 419.8 | 419.8 | 419.8 | 418.4 | 419.8 | 418.4 | 418.4 | 418.4 | 418.4 | 417.0 |
| 10° | 417.0 | 415.5 | 415.5 | 415.5 | 415.5 | 414.1 | 414.1 | 412.6 | 412.6 | 412.6 | 411.2 |
| 12.5° | 412.6 | 411.2 | 411.2 | 409.8 | 409.8 | 409.8 | 408.3 | 408.3 | 406.9 | 405.5 | 405.5 |
| 15° | 405.5 | 405.5 | 404.0 | 402.6 | 402.6 | 401.1 | 401.1 | 399.7 | 399.7 | 398.3 | 396.8 |
| 17.5° | 399.7 | 398.3 | 396.8 | 395.4 | 394.0 | 394.0 | 392.5 | 391.1 | 391.1 | 388.2 | 388.2 |
| 20° | 389.6 | 388.2 | 386.8 | 385.3 | 385.3 | 385.3 | 382.4 | 382.4 | 381.0 | 379.6 | 378.1 |
| 22.5° | 381.0 | 379.6 | 376.7 | 375.3 | 375.3 | 373.8 | 372.4 | 370.9 | 369.5 | 368.1 | 366.6 |
| 25° | 370.9 | 369.5 | 366.6 | 365.2 | 363.8 | 362.3 | 360.9 | 359.4 | 358.0 | 356.6 | 355.1 |
| 27.5° | 358.0 | 355.1 | 355.1 | 352.3 | 350.8 | 349.4 | 347.9 | 346.5 | 345.1 | 343.6 | 342.2 |
| 30° | 343.6 | 342.2 | 339.3 | 336.4 | 335.0 | 335.0 | 332.1 | 330.7 | 330.7 | 327.8 | 326.4 |
| 32.5° | 327.8 | 324.9 | 322.1 | 320.6 | 319.2 | 317.7 | 316.3 | 314.9 | 313.4 | 312.0 | 310.6 |
| 35° | 310.6 | 306.2 | 304.8 | 301.9 | 301.9 | 300.5 | 299.1 | 296.2 | 296.2 | 294.7 | 291.9 |
| 37.5° | 291.9 | 289.0 | 287.6 | 284.7 | 283.2 | 281.8 | 280.4 | 278.9 | 277.5 | 276.1 | 274.6 |
| 40° | 271.7 | 268.9 | 267.4 | 266.0 | 264.6 | 263.1 | 261.7 | 260.2 | 258.8 | 257.4 | 255.9 |
| 42.5° | 251.6 | 250.2 | 247.3 | 244.4 | 244.4 | 243.0 | 241.5 | 240.1 | 238.7 | 238.7 | 237.2 |
| 45° | 231.5 | 230.0 | 227.2 | 225.7 | 224.3 | 224.3 | 221.4 | 221.4 | 220.0 | 218.5 | 218.5 |
| 47.5° | 212.8 | 209.9 | 207.0 | 207.0 | 204.2 | 205.6 | 202.7 | 202.7 | 199.9 | 199.9 | 198.4 |
| 50° | 192.7 | 191.2 | 188.3 | 186.9 | 186.9 | 185.5 | 184.0 | 184.0 | 182.6 | 181.2 | 179.7 |
| 52.5° | 174.0 | 171.1 | 169.7 | 168.2 | 166.8 | 166.8 | 165.3 | 165.3 | 162.5 | 162.5 | 161.0 |
| 55° | 155.3 | 153.8 | 151.0 | 149.5 | 149.5 | 149.5 | 146.7 | 145.2 | 145.2 | 143.8 | 142.3 |
| 57.5° | 136.6 | 135.2 | 133.7 | 132.3 | 130.8 | 130.8 | 129.4 | 128.0 | 126.5 | 125.1 | 122.2 |
| 60° | 119.3 | 117.9 | 116.5 | 115.0 | 113.6 | 113.6 | 112.1 | 110.7 | 109.3 | 107.8 | 106.4 |
| 62.5° | 102.1 | 102.1 | 99.2 | 97.8 | 96.3 | 96.3 | 94.9 | 93.5 | 92.0 | 90.6 | 89.1 |
| 65° | 87.7 | 86.3 | 83.4 | 82.0 | 82.0 | 82.0 | 79.1 | 77.6 | 76.2 | 73.3 | 71.9 |
| 67.5° | 73.3 | 70.5 | 69.0 | 69.0 | 67.6 | 66.1 | 64.7 | 63.3 | 60.4 | 58.9 | 56.1 |
| 70° | 58.9 | 57.5 | 56.1 | 54.6 | 53.2 | 51.8 | 50.3 | 48.9 | 46.0 | 44.6 | 43.1 |
| 72.5° | 46.0 | 44.6 | 43.1 | 41.7 | 40.3 | 40.3 | 37.4 | 35.9 | 34.5 | 31.6 | 30.2 |
| 75° | 34.5 | 33.1 | 31.6 | 30.2 | 28.8 | 27.3 | 27.3 | 24.4 | 23.0 | 21.6 | 18.7 |
| 77.5° | 24.4 | 23.0 | 21.6 | 20.1 | 20.1 | 18.7 | 17.3 | 15.8 | 14.4 | 12.9 | 11.5 |
| 80° | 15.8 | 14.4 | 12.9 | 12.9 | 11.5 | 11.5 | 10.1 | 8.6 | 7.2 | 5.8 | 5.8 |
| 82.5° | 8.6 | 7.2 | 7.2 | 5.8 | 5.8 | 5.8 | 4.3 | 2.9 | 2.9 | 2.9 | 1.4 |
| 85° | 2.9 | 2.9 | 2.9 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 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: P644084

CATALOG NUMBER: ML5615LSWW9FS1E - 592H WW - 1200LM - 4000K

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |
| 2.5° | 422.7 | 422.7 | 422.7 | 422.7 | 422.7 | 422.7 | 422.7 | 422.7 | 422.7 | 421.3 | 421.3 |
| 5° | 419.8 | 419.8 | 419.8 | 419.8 | 419.8 | 419.8 | 418.4 | 418.4 | 418.4 | 418.4 | 418.4 |
| 7.5° | 417.0 | 417.0 | 417.0 | 415.5 | 415.5 | 415.5 | 415.5 | 414.1 | 414.1 | 414.1 | 414.1 |
| 10° | 411.2 | 411.2 | 411.2 | 409.8 | 409.8 | 409.8 | 409.8 | 409.8 | 408.3 | 408.3 | 408.3 |
| 12.5° | 404.0 | 404.0 | 404.0 | 404.0 | 404.0 | 402.6 | 402.6 | 402.6 | 402.6 | 401.1 | 402.6 |
| 15° | 396.8 | 396.8 | 395.4 | 395.4 | 395.4 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 |
| 17.5° | 388.2 | 386.8 | 386.8 | 385.3 | 385.3 | 385.3 | 385.3 | 385.3 | 385.3 | 385.3 | 385.3 |
| 20° | 378.1 | 376.7 | 376.7 | 376.7 | 376.7 | 375.3 | 375.3 | 373.8 | 375.3 | 375.3 | 375.3 |
| 22.5° | 366.6 | 365.2 | 365.2 | 365.2 | 363.8 | 363.8 | 363.8 | 363.8 | 363.8 | 363.8 | 363.8 |
| 25° | 355.1 | 353.7 | 352.3 | 352.3 | 352.3 | 350.8 | 350.8 | 352.3 | 352.3 | 352.3 | 352.3 |
| 27.5° | 340.8 | 340.8 | 339.3 | 339.3 | 339.3 | 337.9 | 337.9 | 337.9 | 339.3 | 339.3 | 339.3 |
| 30° | 324.9 | 324.9 | 324.9 | 324.9 | 323.5 | 323.5 | 324.9 | 323.5 | 324.9 | 323.5 | 324.9 |
| 32.5° | 310.6 | 310.6 | 309.1 | 307.7 | 307.7 | 309.1 | 307.7 | 307.7 | 309.1 | 309.1 | 309.1 |
| 35° | 291.9 | 291.9 | 291.9 | 291.9 | 291.9 | 291.9 | 291.9 | 291.9 | 291.9 | 293.3 | 294.7 |
| 37.5° | 274.6 | 274.6 | 274.6 | 274.6 | 274.6 | 274.6 | 274.6 | 276.1 | 276.1 | 276.1 | 276.1 |
| 40° | 255.9 | 255.9 | 255.9 | 255.9 | 255.9 | 255.9 | 255.9 | 255.9 | 257.4 | 257.4 | 258.8 |
| 42.5° | 235.8 | 237.2 | 237.2 | 237.2 | 235.8 | 235.8 | 237.2 | 237.2 | 237.2 | 238.7 | 238.7 |
| 45° | 217.1 | 217.1 | 217.1 | 217.1 | 218.5 | 217.1 | 217.1 | 217.1 | 218.5 | 218.5 | 218.5 |
| 47.5° | 198.4 | 197.0 | 197.0 | 198.4 | 197.0 | 197.0 | 197.0 | 197.0 | 198.4 | 198.4 | 197.0 |
| 50° | 179.7 | 178.3 | 178.3 | 178.3 | 176.8 | 176.8 | 178.3 | 175.4 | 175.4 | 175.4 | 176.8 |
| 52.5° | 161.0 | 159.6 | 158.2 | 158.2 | 158.2 | 156.7 | 155.3 | 155.3 | 155.3 | 153.8 | 153.8 |
| 55° | 140.9 | 139.5 | 138.0 | 138.0 | 138.0 | 136.6 | 136.6 | 133.7 | 133.7 | 132.3 | 132.3 |
| 57.5° | 122.2 | 120.8 | 119.3 | 119.3 | 117.9 | 116.5 | 116.5 | 113.6 | 113.6 | 112.1 | 109.3 |
| 60° | 103.5 | 102.1 | 100.6 | 100.6 | 100.6 | 97.8 | 96.3 | 93.5 | 93.5 | 90.6 | 89.1 |
| 62.5° | 86.3 | 84.8 | 83.4 | 82.0 | 82.0 | 79.1 | 77.6 | 74.8 | 73.3 | 71.9 | 69.0 |
| 65° | 70.5 | 67.6 | 66.1 | 64.7 | 64.7 | 61.8 | 60.4 | 57.5 | 54.6 | 53.2 | 50.3 |
| 67.5° | 54.6 | 53.2 | 50.3 | 48.9 | 48.9 | 46.0 | 43.1 | 41.7 | 38.8 | 35.9 | 34.5 |
| 70° | 40.3 | 38.8 | 35.9 | 34.5 | 33.1 | 31.6 | 28.8 | 27.3 | 24.4 | 23.0 | 20.1 |
| 72.5° | 27.3 | 25.9 | 23.0 | 23.0 | 21.6 | 18.7 | 17.3 | 15.8 | 12.9 | 11.5 | 10.1 |
| 75° | 17.3 | 15.8 | 14.4 | 12.9 | 11.5 | 10.1 | 8.6 | 7.2 | 5.8 | 4.3 | 4.3 |
| 77.5° | 10.1 | 8.6 | 7.2 | 5.8 | 5.8 | 4.3 | 2.9 | 2.9 | 2.9 | 1.4 | 1.4 |
| 80° | 4.3 | 2.9 | 2.9 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 82.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 1.4 | 1.4 |
| 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: P644084

CATALOG NUMBER: ML5615LSWW9FS1E - 592H WW - 1200LM - 4000K

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |
| 2.5° | 422.7 | 421.3 | 422.7 | 422.7 | 421.3 | 421.3 | 421.3 | 421.3 |
| 5° | 418.4 | 418.4 | 418.4 | 418.4 | 418.4 | 418.4 | 418.4 | 418.4 |
| 7.5° | 415.5 | 414.1 | 414.1 | 414.1 | 414.1 | 414.1 | 414.1 | 414.1 |
| 10° | 408.3 | 408.3 | 408.3 | 408.3 | 408.3 | 408.3 | 408.3 | 406.9 |
| 12.5° | 401.1 | 401.1 | 401.1 | 401.1 | 401.1 | 401.1 | 401.1 | 401.1 |
| 15° | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 |
| 17.5° | 385.3 | 385.3 | 385.3 | 385.3 | 385.3 | 383.9 | 385.3 | 385.3 |
| 20° | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 376.7 |
| 22.5° | 363.8 | 363.8 | 363.8 | 363.8 | 363.8 | 363.8 | 363.8 | 365.2 |
| 25° | 352.3 | 352.3 | 352.3 | 352.3 | 352.3 | 352.3 | 352.3 | 353.7 |
| 27.5° | 339.3 | 339.3 | 339.3 | 339.3 | 339.3 | 339.3 | 339.3 | 339.3 |
| 30° | 324.9 | 324.9 | 326.4 | 324.9 | 324.9 | 324.9 | 326.4 | 324.9 |
| 32.5° | 310.6 | 310.6 | 310.6 | 310.6 | 310.6 | 310.6 | 310.6 | 309.1 |
| 35° | 294.7 | 293.3 | 294.7 | 294.7 | 294.7 | 294.7 | 294.7 | 294.7 |
| 37.5° | 277.5 | 277.5 | 277.5 | 277.5 | 277.5 | 277.5 | 278.9 | 278.9 |
| 40° | 260.2 | 258.8 | 258.8 | 260.2 | 260.2 | 260.2 | 258.8 | 260.2 |
| 42.5° | 238.7 | 240.1 | 240.1 | 240.1 | 241.5 | 240.1 | 241.5 | 241.5 |
| 45° | 218.5 | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 | 221.4 | 221.4 |
| 47.5° | 198.4 | 198.4 | 198.4 | 198.4 | 199.9 | 199.9 | 199.9 | 199.9 |
| 50° | 176.8 | 176.8 | 176.8 | 176.8 | 178.3 | 176.8 | 178.3 | 178.3 |
| 52.5° | 153.8 | 153.8 | 153.8 | 153.8 | 153.8 | 153.8 | 155.3 | 153.8 |
| 55° | 130.8 | 130.8 | 130.8 | 130.8 | 129.4 | 129.4 | 129.4 | 130.8 |
| 57.5° | 109.3 | 107.8 | 106.4 | 107.8 | 105.0 | 105.0 | 105.0 | 105.0 |
| 60° | 86.3 | 84.8 | 84.8 | 83.4 | 82.0 | 80.5 | 82.0 | 80.5 |
| 62.5° | 66.1 | 64.7 | 64.7 | 61.8 | 60.4 | 60.4 | 58.9 | 58.9 |
| 65° | 48.9 | 46.0 | 44.6 | 44.6 | 43.1 | 41.7 | 40.3 | 40.3 |
| 67.5° | 31.6 | 30.2 | 28.8 | 28.8 | 27.3 | 25.9 | 25.9 | 24.4 |
| 70° | 18.7 | 17.3 | 15.8 | 17.3 | 14.4 | 12.9 | 12.9 | 12.9 |
| 72.5° | 8.6 | 7.2 | 7.2 | 7.2 | 5.8 | 5.8 | 5.8 | 5.8 |
| 75° | 4.3 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 77.5° | 1.4 | 1.4 | 2.9 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 80° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 82.5° | 1.4 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 0.0 | 1.4 |
| 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
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Peachtree City, GA 30269

Scaled Data Report





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

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(END OF REPORT)