

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P869715

Luminaire Tested: **SMX18RLSFSD2W-1500LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869715
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS2W-1500LM-5000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

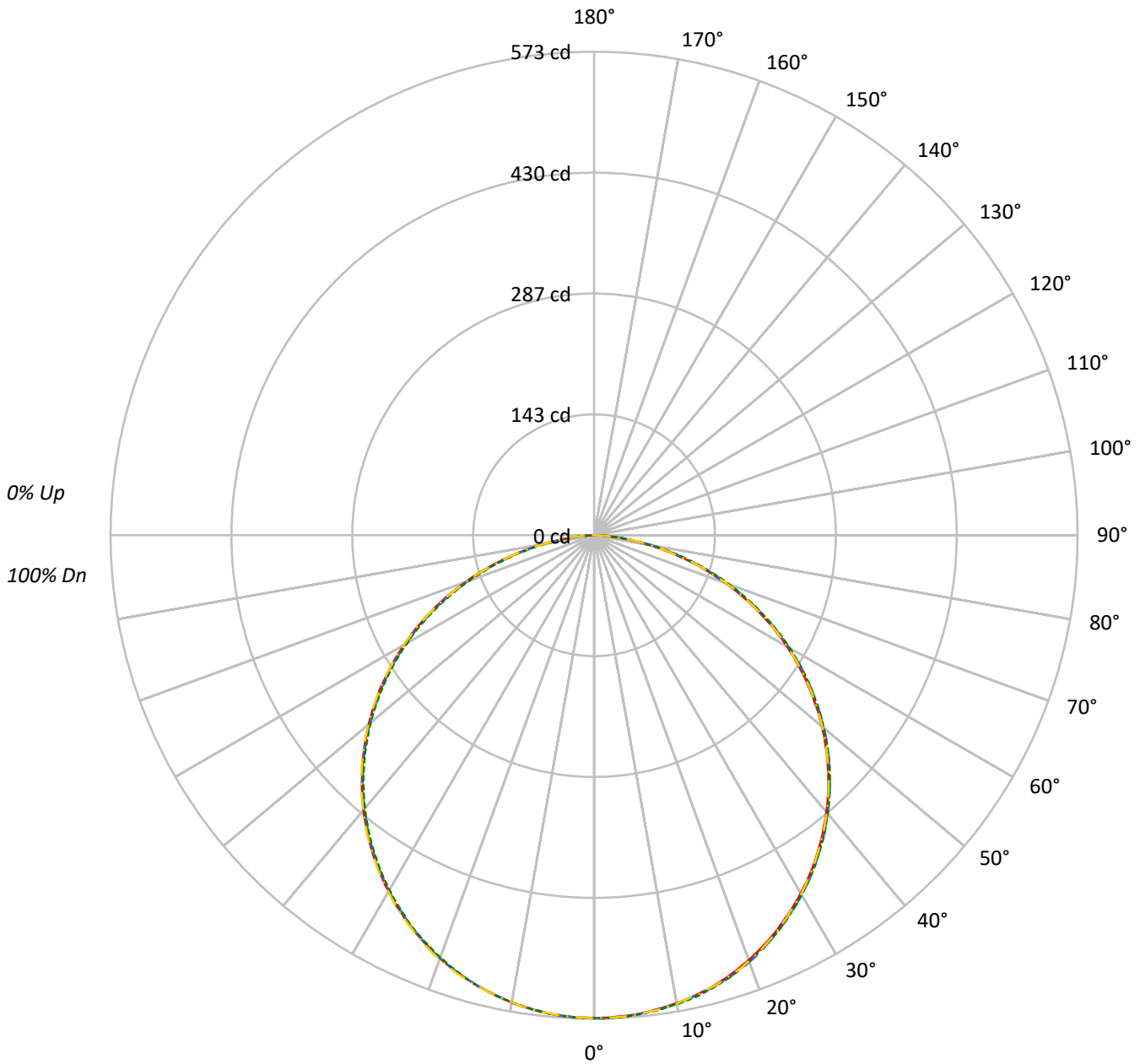
Lumens per Lamp: N/A
 Luminaire Lumens: 1671.1 lumens
 Efficiency: N/A
 Efficacy: 99.5 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 16.8
 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: 25 FT

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | GONIO 1 IN0055 | 4/22/2021 | 10/22/2021 |
| Power Meter | XITRON 2801 IN0197 | 12/1/2020 | 12/1/2021 |
| AC Power Source | CHROMA 61505 IN0196 | 12/1/2020 | 12/1/2021 |
| DC Power Supply | AGILENT E3634A IN0198 | 11/30/2020 | 11/30/2021 |
| Room Thermometer | ONSET IN0143 | 12/1/2020 | 12/1/2021 |

TEST NUMBER: P869715
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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°

TEST NUMBER: P869715
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|-----|----|----|---|--|--|--|--|--|
| RF | 20 | | | | | 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 | 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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 | | | | | | | | | 84 | | | | | | | | |
| 2 | 99 | 90 | 83 | 78 | 96 | 88 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 69 | | | | | | | | | 69 | | | | | | | | |
| 3 | 90 | 79 | 71 | 64 | 87 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | 58 | | | | | | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 58 | 52 | 62 | 56 | 52 | 50 | | | | | | | | | 50 | | | | | | | | |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 | | | | | | | | | 43 | | | | | | | | |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 40 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 | | | | | | | | | 37 | | | | | | | | |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 33 | | | | | | | | | 33 | | | | | | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | | | | | | | | | 29 | | | | | | | | |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 26 | | | | | | | | | 26 | | | | | | | | |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 | | | | | | | | | 24 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 3487 | 3487 | 3487 | 3487 |
| 5° | 3486 | 3488 | 3483 | 3484 |
| 10° | 3483 | 3491 | 3479 | 3476 |
| 15° | 3482 | 3491 | 3470 | 3470 |
| 20° | 3473 | 3482 | 3459 | 3452 |
| 25° | 3463 | 3473 | 3444 | 3438 |
| 30° | 3446 | 3460 | 3427 | 3414 |
| 35° | 3427 | 3444 | 3406 | 3389 |
| 40° | 3403 | 3425 | 3379 | 3359 |
| 45° | 3378 | 3400 | 3346 | 3322 |
| 50° | 3341 | 3366 | 3304 | 3273 |
| 55° | 3288 | 3323 | 3249 | 3211 |
| 60° | 3217 | 3260 | 3172 | 3121 |
| 65° | 3115 | 3169 | 3060 | 2999 |
| 70° | 2955 | 3031 | 2889 | 2807 |
| 75° | 2706 | 2815 | 2624 | 2516 |
| 80° | 2308 | 2459 | 2196 | 2045 |
| 85° | 1663 | 1901 | 1482 | 1286 |

TEST NUMBER: P869715
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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------------|---------------|--------------|
| 0°-10° | 54.2 | 3.2 |
| 10°-20° | 155.7 | 9.3 |
| 20°-30° | 237.1 | 14.2 |
| 30°-40° | 287.9 | 17.2 |
| 40°-50° | 301.3 | 18.0 |
| 50°-60° | 275.2 | 16.5 |
| 60°-70° | 211.7 | 12.7 |
| 70°-80° | 119.8 | 7.2 |
| 80°-90° | 28.2 | 1.7 |
| 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° | 446.9 | 26.7 |
| 0°-40° | 734.8 | 44.0 |
| 0°-60° | 1311.4 | 78.5 |
| 0°-90° | 1671.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1671.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 572 | 572 | 572 | 572 | 572 | |
| 5° | 570 | 570 | 570 | 570 | 570 | 54 |
| 15° | 552 | 554 | 550 | 550 | 552 | 156 |
| 25° | 515 | 517 | 512 | 512 | 515 | 237 |
| 35° | 461 | 463 | 458 | 456 | 461 | 288 |
| 45° | 392 | 395 | 388 | 386 | 392 | 302 |
| 55° | 310 | 313 | 306 | 302 | 310 | 277 |
| 65° | 216 | 220 | 212 | 208 | 216 | 214 |
| 75° | 115 | 120 | 112 | 107 | 115 | 122 |
| 85° | 24 | 27 | 21 | 18 | 24 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

TEST NUMBER: P869715
 CATALOG NUMBER: SMX18RLSFS2W-1500LM-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 |
| 0.5° | 572.0 | 572.4 | 572.4 | 572.4 | 572.8 | 573.2 | 572.4 | 572.6 | 571.9 | 572.4 | 572.5 |
| 1° | 572.0 | 572.5 | 572.3 | 572.6 | 572.9 | 573.0 | 572.0 | 572.3 | 572.0 | 572.3 | 572.3 |
| 1.5° | 572.0 | 572.7 | 572.3 | 572.3 | 572.7 | 572.7 | 572.3 | 572.1 | 571.8 | 572.3 | 572.2 |
| 2° | 571.8 | 572.4 | 572.1 | 572.0 | 572.4 | 572.7 | 572.2 | 572.0 | 571.7 | 571.9 | 571.7 |
| 2.5° | 571.5 | 572.3 | 572.0 | 572.0 | 572.4 | 572.4 | 571.9 | 571.5 | 571.6 | 571.8 | 571.7 |
| 3° | 571.1 | 572.0 | 572.0 | 571.6 | 572.0 | 571.8 | 571.7 | 571.2 | 571.0 | 572.0 | 571.2 |
| 3.5° | 570.9 | 571.6 | 571.8 | 571.6 | 571.7 | 571.4 | 571.6 | 571.1 | 571.1 | 571.5 | 571.1 |
| 4° | 570.7 | 571.3 | 571.3 | 571.2 | 571.7 | 571.3 | 571.1 | 570.9 | 570.9 | 570.8 | 570.8 |
| 4.5° | 570.4 | 570.6 | 570.8 | 571.1 | 570.9 | 571.2 | 570.9 | 570.5 | 570.4 | 570.4 | 570.4 |
| 5° | 570.2 | 570.2 | 570.2 | 570.6 | 570.5 | 570.7 | 570.5 | 569.8 | 569.7 | 569.9 | 570.0 |
| 5.5° | 569.5 | 570.1 | 570.1 | 570.4 | 570.2 | 570.5 | 570.1 | 569.5 | 569.2 | 569.3 | 569.3 |
| 6° | 568.8 | 569.5 | 569.1 | 569.7 | 569.8 | 569.9 | 569.3 | 569.1 | 568.5 | 568.6 | 568.2 |
| 6.5° | 568.3 | 568.9 | 568.7 | 569.0 | 569.1 | 569.4 | 568.6 | 568.6 | 568.3 | 567.8 | 567.6 |
| 7° | 567.7 | 568.1 | 568.1 | 568.3 | 568.4 | 568.7 | 567.9 | 567.7 | 567.4 | 567.4 | 567.2 |
| 7.5° | 566.9 | 567.4 | 567.5 | 567.8 | 568.2 | 567.9 | 567.6 | 566.8 | 566.8 | 566.7 | 566.5 |
| 8° | 566.2 | 566.7 | 566.6 | 566.9 | 567.4 | 567.4 | 567.0 | 566.3 | 565.9 | 565.8 | 565.7 |
| 8.5° | 565.5 | 566.2 | 566.1 | 566.2 | 566.6 | 566.8 | 565.8 | 565.5 | 565.3 | 565.0 | 565.0 |
| 9° | 564.7 | 565.5 | 565.2 | 565.6 | 565.8 | 566.0 | 565.0 | 564.7 | 564.3 | 564.1 | 564.0 |
| 9.5° | 563.8 | 564.7 | 564.6 | 564.9 | 565.0 | 565.3 | 564.4 | 563.8 | 563.5 | 563.1 | 563.1 |
| 10° | 563.1 | 563.7 | 563.6 | 563.8 | 564.4 | 564.3 | 563.4 | 562.7 | 562.5 | 562.0 | 561.9 |
| 10.5° | 562.5 | 562.8 | 562.7 | 563.3 | 563.7 | 563.4 | 562.3 | 561.9 | 561.2 | 561.0 | 560.9 |
| 11° | 561.4 | 561.7 | 561.8 | 562.3 | 562.6 | 562.4 | 561.4 | 560.9 | 560.2 | 560.3 | 559.7 |
| 11.5° | 560.3 | 560.8 | 560.8 | 561.4 | 561.9 | 561.6 | 560.4 | 559.5 | 559.1 | 559.4 | 558.6 |
| 12° | 559.4 | 559.9 | 559.8 | 560.6 | 560.7 | 560.5 | 559.5 | 558.5 | 558.2 | 557.9 | 557.6 |
| 12.5° | 558.2 | 558.7 | 558.5 | 559.4 | 560.0 | 559.4 | 558.5 | 557.3 | 556.7 | 556.6 | 556.5 |
| 13° | 557.1 | 557.8 | 557.5 | 558.6 | 558.9 | 558.5 | 557.3 | 556.0 | 555.6 | 555.4 | 555.2 |
| 13.5° | 555.8 | 556.5 | 556.6 | 557.3 | 557.6 | 557.3 | 556.1 | 555.1 | 554.2 | 553.9 | 554.2 |
| 14° | 555.2 | 555.4 | 555.5 | 556.4 | 556.4 | 556.1 | 554.6 | 553.9 | 552.9 | 552.8 | 552.9 |
| 14.5° | 553.7 | 553.9 | 554.3 | 555.2 | 555.2 | 554.9 | 553.7 | 552.3 | 551.8 | 551.1 | 551.2 |
| 15° | 552.1 | 552.5 | 553.1 | 553.4 | 553.6 | 553.4 | 552.5 | 551.1 | 550.2 | 550.0 | 550.0 |
| 15.5° | 550.6 | 551.4 | 551.8 | 552.3 | 552.6 | 552.2 | 551.1 | 549.4 | 548.7 | 548.5 | 548.7 |
| 16° | 549.0 | 550.3 | 550.7 | 550.9 | 550.8 | 550.9 | 549.8 | 547.9 | 547.3 | 547.2 | 547.2 |
| 16.5° | 547.9 | 548.8 | 549.6 | 549.4 | 549.4 | 549.4 | 548.1 | 546.7 | 545.8 | 545.6 | 545.6 |
| 17° | 546.2 | 547.2 | 548.1 | 547.9 | 548.0 | 547.8 | 546.7 | 545.2 | 544.1 | 543.9 | 543.7 |
| 17.5° | 544.4 | 545.6 | 546.5 | 546.5 | 546.3 | 546.2 | 545.4 | 543.5 | 542.8 | 542.1 | 542.3 |
| 18° | 543.0 | 544.0 | 545.0 | 544.5 | 544.6 | 544.5 | 544.2 | 541.8 | 541.0 | 540.5 | 540.7 |
| 18.5° | 541.1 | 542.1 | 543.5 | 542.9 | 542.6 | 542.7 | 542.3 | 539.9 | 539.1 | 538.8 | 538.9 |
| 19° | 539.2 | 540.6 | 541.8 | 541.1 | 540.9 | 540.8 | 540.8 | 538.4 | 537.5 | 536.8 | 537.4 |
| 19.5° | 537.6 | 538.8 | 539.9 | 539.2 | 539.3 | 539.2 | 538.7 | 536.7 | 535.5 | 534.9 | 535.6 |
| 20° | 535.8 | 537.2 | 538.1 | 537.1 | 537.2 | 537.4 | 536.9 | 534.7 | 533.7 | 533.2 | 533.7 |
| 20.5° | 534.0 | 535.0 | 536.5 | 535.4 | 535.3 | 535.1 | 534.9 | 532.8 | 532.1 | 531.3 | 531.8 |
| 21° | 532.0 | 532.9 | 534.6 | 533.5 | 533.6 | 532.9 | 533.5 | 530.9 | 530.2 | 529.4 | 529.8 |
| 21.5° | 529.8 | 530.9 | 532.6 | 531.7 | 531.4 | 531.3 | 531.3 | 529.1 | 527.9 | 527.2 | 527.9 |
| 22° | 527.7 | 528.9 | 530.7 | 529.5 | 529.5 | 529.2 | 529.4 | 527.2 | 525.6 | 525.1 | 525.9 |

TEST NUMBER: P869715
 CATALOG NUMBER: SMX18RLSFS2W-1500LM-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 525.8 | 527.0 | 528.5 | 527.4 | 527.4 | 527.0 | 527.2 | 525.1 | 523.6 | 522.8 | 523.4 |
| 23° | 524.0 | 525.1 | 526.1 | 525.6 | 525.4 | 525.2 | 524.8 | 522.8 | 521.5 | 520.9 | 521.1 |
| 23.5° | 521.7 | 523.2 | 524.2 | 523.6 | 523.3 | 523.2 | 522.8 | 520.8 | 519.2 | 519.0 | 518.7 |
| 24° | 519.6 | 521.0 | 521.9 | 521.3 | 521.2 | 520.6 | 520.6 | 518.8 | 517.2 | 516.3 | 516.4 |
| 24.5° | 517.5 | 518.8 | 519.4 | 519.0 | 519.2 | 518.1 | 518.1 | 516.5 | 514.9 | 514.1 | 514.4 |
| 25° | 515.2 | 516.5 | 517.1 | 516.9 | 516.7 | 516.3 | 515.8 | 514.4 | 512.5 | 511.7 | 511.6 |
| 25.5° | 512.4 | 514.0 | 514.7 | 514.8 | 514.6 | 514.3 | 513.4 | 512.3 | 510.2 | 509.5 | 509.1 |
| 26° | 510.3 | 511.9 | 512.3 | 512.4 | 512.2 | 511.6 | 511.0 | 509.8 | 507.7 | 507.2 | 507.1 |
| 26.5° | 507.5 | 509.5 | 509.9 | 509.8 | 509.9 | 509.2 | 508.4 | 507.4 | 505.5 | 504.7 | 504.3 |
| 27° | 505.3 | 507.2 | 507.3 | 507.5 | 507.1 | 507.0 | 505.9 | 504.9 | 502.8 | 502.5 | 501.8 |
| 27.5° | 502.8 | 504.9 | 505.0 | 505.5 | 504.9 | 504.3 | 503.2 | 502.6 | 500.3 | 500.1 | 499.4 |
| 28° | 500.4 | 502.2 | 502.7 | 502.9 | 502.6 | 502.0 | 500.6 | 499.9 | 498.1 | 497.6 | 496.9 |
| 28.5° | 497.6 | 499.9 | 499.8 | 500.3 | 500.0 | 499.5 | 498.4 | 497.6 | 495.5 | 494.9 | 494.4 |
| 29° | 494.9 | 497.5 | 497.2 | 497.6 | 497.5 | 496.9 | 495.7 | 495.1 | 492.9 | 492.2 | 491.7 |
| 29.5° | 492.6 | 494.9 | 494.9 | 495.2 | 494.6 | 494.2 | 493.1 | 492.6 | 490.1 | 489.5 | 489.1 |
| 30° | 490.0 | 492.2 | 492.3 | 492.7 | 492.0 | 491.5 | 490.7 | 489.7 | 487.3 | 486.9 | 486.0 |
| 30.5° | 487.3 | 489.7 | 489.6 | 490.0 | 489.3 | 488.9 | 488.1 | 487.2 | 484.5 | 484.2 | 483.5 |
| 31° | 484.4 | 486.9 | 486.9 | 487.1 | 486.8 | 486.2 | 485.1 | 484.4 | 481.8 | 481.1 | 480.8 |
| 31.5° | 481.9 | 483.9 | 484.0 | 484.5 | 483.9 | 483.2 | 482.4 | 481.4 | 479.0 | 478.3 | 477.9 |
| 32° | 478.9 | 480.9 | 481.3 | 481.9 | 481.0 | 480.3 | 479.5 | 478.6 | 476.1 | 475.8 | 474.8 |
| 32.5° | 476.0 | 478.2 | 478.2 | 479.1 | 478.1 | 477.8 | 476.5 | 475.8 | 473.2 | 472.9 | 472.1 |
| 33° | 473.3 | 475.3 | 475.2 | 476.1 | 475.4 | 474.8 | 473.7 | 472.7 | 470.2 | 470.1 | 469.0 |
| 33.5° | 470.3 | 472.4 | 472.5 | 473.1 | 472.8 | 472.0 | 470.6 | 469.7 | 467.2 | 467.0 | 466.0 |
| 34° | 467.2 | 469.6 | 469.6 | 470.1 | 469.6 | 469.0 | 467.4 | 467.1 | 464.4 | 463.9 | 462.7 |
| 34.5° | 464.1 | 466.5 | 466.4 | 467.1 | 466.4 | 466.1 | 464.6 | 464.0 | 461.4 | 460.8 | 459.7 |
| 35° | 460.9 | 463.5 | 463.2 | 464.2 | 463.2 | 463.0 | 461.4 | 460.6 | 458.1 | 457.7 | 456.6 |
| 35.5° | 457.6 | 460.3 | 460.3 | 461.2 | 460.2 | 459.9 | 458.3 | 457.6 | 455.0 | 454.7 | 453.5 |
| 36° | 454.8 | 457.4 | 457.1 | 458.0 | 457.0 | 456.8 | 455.1 | 454.4 | 451.8 | 451.4 | 450.3 |
| 36.5° | 451.6 | 454.1 | 454.0 | 454.7 | 453.7 | 453.5 | 452.0 | 451.3 | 448.6 | 448.5 | 447.3 |
| 37° | 448.5 | 451.0 | 450.9 | 451.4 | 450.8 | 450.5 | 448.8 | 448.1 | 445.3 | 445.0 | 443.7 |
| 37.5° | 445.3 | 447.6 | 447.6 | 448.3 | 447.7 | 447.3 | 445.6 | 444.9 | 442.1 | 441.4 | 440.3 |
| 38° | 441.5 | 444.2 | 444.2 | 445.0 | 444.3 | 443.9 | 442.2 | 441.7 | 438.7 | 438.1 | 437.0 |
| 38.5° | 438.3 | 440.8 | 441.0 | 441.9 | 440.9 | 440.4 | 439.0 | 438.5 | 435.2 | 434.4 | 433.8 |
| 39° | 435.1 | 437.7 | 437.6 | 438.5 | 437.6 | 437.3 | 435.4 | 434.9 | 432.0 | 431.3 | 430.4 |
| 39.5° | 431.7 | 433.9 | 434.2 | 435.0 | 434.2 | 433.8 | 432.1 | 431.5 | 428.4 | 428.0 | 427.1 |
| 40° | 428.0 | 430.5 | 430.9 | 431.4 | 430.7 | 430.4 | 428.8 | 428.0 | 425.0 | 424.3 | 423.4 |
| 40.5° | 424.6 | 427.0 | 427.4 | 428.0 | 427.3 | 427.1 | 425.6 | 424.2 | 421.6 | 420.5 | 420.1 |
| 41° | 421.4 | 423.5 | 423.8 | 424.5 | 423.7 | 423.5 | 421.9 | 420.4 | 418.0 | 417.2 | 416.3 |
| 41.5° | 417.9 | 419.9 | 420.4 | 420.9 | 420.3 | 419.8 | 418.5 | 417.0 | 414.6 | 413.5 | 412.9 |
| 42° | 414.2 | 416.2 | 417.0 | 417.4 | 416.8 | 416.4 | 414.8 | 413.3 | 410.9 | 409.8 | 409.1 |
| 42.5° | 410.6 | 412.7 | 413.5 | 413.7 | 413.1 | 412.8 | 411.3 | 409.5 | 407.2 | 406.3 | 405.4 |
| 43° | 406.9 | 408.9 | 409.7 | 409.9 | 409.4 | 409.1 | 407.5 | 406.0 | 403.4 | 402.7 | 401.9 |
| 43.5° | 403.2 | 405.4 | 405.9 | 406.4 | 405.8 | 405.3 | 403.6 | 402.2 | 399.7 | 399.1 | 398.2 |
| 44° | 399.7 | 401.8 | 402.4 | 402.6 | 402.1 | 401.9 | 399.9 | 398.6 | 395.9 | 395.5 | 394.4 |
| 44.5° | 396.2 | 398.1 | 398.8 | 399.0 | 398.5 | 398.0 | 396.2 | 394.7 | 392.3 | 391.6 | 390.7 |

TEST NUMBER: P869715
 CATALOG NUMBER: SMX18RLSFS2W-1500LM-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45° | 392.2 | 394.0 | 395.2 | 395.3 | 394.7 | 394.3 | 392.5 | 390.9 | 388.4 | 387.7 | 386.7 |
| 45.5° | 388.1 | 390.4 | 391.3 | 391.4 | 390.7 | 390.5 | 388.8 | 387.1 | 384.7 | 383.5 | 383.0 |
| 46° | 384.6 | 386.5 | 387.3 | 387.4 | 386.9 | 386.6 | 384.9 | 383.3 | 380.8 | 379.7 | 379.1 |
| 46.5° | 380.6 | 382.7 | 383.7 | 383.4 | 383.1 | 382.8 | 381.2 | 379.3 | 376.6 | 375.8 | 375.3 |
| 47° | 376.9 | 378.8 | 379.7 | 379.8 | 379.2 | 378.9 | 377.2 | 375.6 | 372.9 | 372.0 | 371.4 |
| 47.5° | 372.6 | 374.8 | 375.9 | 376.0 | 375.4 | 375.0 | 373.1 | 371.8 | 368.9 | 368.0 | 367.1 |
| 48° | 368.8 | 371.0 | 371.7 | 371.8 | 371.4 | 371.2 | 369.3 | 367.7 | 365.0 | 363.9 | 363.1 |
| 48.5° | 365.0 | 367.0 | 367.8 | 367.7 | 367.2 | 367.0 | 365.3 | 363.4 | 360.7 | 359.8 | 359.2 |
| 49° | 360.7 | 362.8 | 363.7 | 363.8 | 363.3 | 363.0 | 361.1 | 359.4 | 357.0 | 355.8 | 354.9 |
| 49.5° | 356.7 | 358.6 | 359.6 | 359.8 | 359.2 | 359.1 | 357.1 | 355.3 | 353.0 | 351.7 | 351.1 |
| 50° | 352.6 | 354.8 | 355.4 | 355.6 | 355.2 | 354.9 | 353.1 | 351.3 | 348.7 | 347.8 | 346.9 |
| 50.5° | 348.5 | 350.8 | 351.5 | 351.6 | 351.2 | 350.7 | 348.9 | 347.1 | 344.5 | 343.3 | 342.7 |
| 51° | 344.1 | 346.5 | 347.2 | 347.3 | 347.1 | 346.5 | 344.7 | 343.0 | 340.2 | 339.0 | 338.3 |
| 51.5° | 340.1 | 342.4 | 343.1 | 343.2 | 342.8 | 342.4 | 340.3 | 338.9 | 336.2 | 335.0 | 334.1 |
| 52° | 335.8 | 338.1 | 338.9 | 339.0 | 338.7 | 338.1 | 336.2 | 334.7 | 332.1 | 330.6 | 330.0 |
| 52.5° | 331.3 | 333.8 | 334.5 | 334.6 | 334.3 | 334.0 | 332.1 | 330.5 | 327.7 | 326.4 | 325.6 |
| 53° | 326.8 | 329.4 | 330.3 | 330.3 | 329.8 | 329.7 | 327.9 | 326.0 | 323.3 | 322.0 | 321.3 |
| 53.5° | 322.8 | 325.1 | 326.0 | 326.1 | 325.8 | 325.4 | 323.5 | 321.7 | 318.9 | 317.7 | 317.1 |
| 54° | 318.5 | 320.7 | 321.6 | 321.7 | 321.5 | 320.9 | 319.1 | 317.2 | 314.8 | 313.2 | 312.6 |
| 54.5° | 314.3 | 316.3 | 317.4 | 317.2 | 317.3 | 316.8 | 314.8 | 313.0 | 310.4 | 308.7 | 308.0 |
| 55° | 309.6 | 312.0 | 312.9 | 312.8 | 312.9 | 312.2 | 310.5 | 308.6 | 305.9 | 304.4 | 303.8 |
| 55.5° | 305.3 | 307.6 | 308.6 | 308.3 | 308.4 | 307.9 | 306.1 | 304.4 | 301.4 | 300.3 | 299.2 |
| 56° | 301.0 | 303.1 | 304.1 | 304.0 | 304.1 | 303.4 | 301.5 | 299.7 | 296.9 | 295.7 | 294.6 |
| 56.5° | 296.4 | 298.5 | 299.5 | 299.5 | 299.7 | 298.8 | 296.9 | 295.4 | 292.4 | 291.0 | 290.0 |
| 57° | 291.7 | 294.0 | 295.1 | 295.0 | 295.2 | 294.4 | 292.6 | 290.8 | 288.1 | 286.5 | 285.4 |
| 57.5° | 287.2 | 289.5 | 290.6 | 290.4 | 290.7 | 289.7 | 287.8 | 286.2 | 283.4 | 281.8 | 281.0 |
| 58° | 282.8 | 285.0 | 286.0 | 285.9 | 286.0 | 285.3 | 283.4 | 281.6 | 278.8 | 277.3 | 276.4 |
| 58.5° | 278.2 | 280.6 | 281.6 | 281.3 | 281.4 | 280.7 | 278.8 | 277.1 | 274.3 | 272.7 | 271.8 |
| 59° | 273.4 | 275.8 | 276.8 | 276.6 | 277.0 | 275.9 | 274.2 | 272.2 | 269.7 | 268.2 | 267.2 |
| 59.5° | 268.8 | 271.1 | 272.2 | 272.0 | 272.4 | 271.3 | 269.4 | 267.6 | 264.9 | 263.2 | 262.4 |
| 60° | 264.1 | 266.4 | 267.4 | 267.2 | 267.6 | 266.6 | 264.6 | 262.8 | 260.4 | 258.6 | 257.7 |
| 60.5° | 259.5 | 261.6 | 262.7 | 262.6 | 263.0 | 262.1 | 260.1 | 258.3 | 255.6 | 254.0 | 253.1 |
| 61° | 254.9 | 257.0 | 258.0 | 257.8 | 258.4 | 257.2 | 255.3 | 253.6 | 250.9 | 249.2 | 248.4 |
| 61.5° | 250.0 | 252.2 | 253.3 | 253.2 | 253.7 | 252.5 | 250.6 | 248.9 | 246.2 | 244.4 | 243.6 |
| 62° | 245.2 | 247.4 | 248.6 | 248.6 | 249.0 | 247.9 | 245.8 | 244.0 | 241.5 | 239.6 | 238.5 |
| 62.5° | 240.3 | 242.7 | 243.7 | 243.7 | 244.2 | 243.0 | 241.0 | 239.1 | 236.5 | 234.8 | 233.8 |
| 63° | 235.5 | 237.9 | 238.7 | 238.8 | 239.3 | 238.2 | 236.1 | 234.3 | 231.7 | 229.9 | 228.9 |
| 63.5° | 230.7 | 232.9 | 233.9 | 234.0 | 234.6 | 233.5 | 231.4 | 229.6 | 226.8 | 225.0 | 224.0 |
| 64° | 225.9 | 228.1 | 229.0 | 229.0 | 229.6 | 228.4 | 226.5 | 224.6 | 222.0 | 220.1 | 219.2 |
| 64.5° | 221.0 | 223.4 | 224.2 | 224.4 | 224.9 | 223.7 | 221.7 | 219.7 | 217.1 | 215.2 | 214.1 |
| 65° | 216.1 | 218.3 | 219.3 | 219.5 | 219.9 | 218.8 | 216.7 | 214.7 | 212.3 | 210.3 | 209.3 |
| 65.5° | 211.2 | 213.4 | 214.3 | 214.5 | 214.9 | 213.9 | 211.8 | 209.8 | 207.5 | 205.4 | 204.5 |
| 66° | 206.4 | 208.5 | 209.4 | 209.4 | 210.0 | 208.9 | 206.7 | 204.7 | 202.3 | 200.6 | 199.7 |
| 66.5° | 201.3 | 203.5 | 204.5 | 204.5 | 205.3 | 203.9 | 202.0 | 199.8 | 197.5 | 195.5 | 194.6 |
| 67° | 196.3 | 198.6 | 199.5 | 199.6 | 200.3 | 199.2 | 197.0 | 194.8 | 192.5 | 190.5 | 189.4 |

TEST NUMBER: P869715
 CATALOG NUMBER: SMX18RLSFS2W-1500LM-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 191.3 | 193.5 | 194.4 | 194.6 | 195.4 | 194.0 | 192.1 | 189.8 | 187.5 | 185.4 | 184.5 |
| 68° | 186.2 | 188.3 | 189.3 | 189.4 | 190.3 | 188.9 | 187.0 | 184.8 | 182.5 | 180.6 | 179.4 |
| 68.5° | 181.2 | 183.5 | 184.3 | 184.6 | 185.5 | 183.9 | 182.0 | 179.7 | 177.6 | 175.7 | 174.5 |
| 69° | 176.3 | 178.5 | 179.2 | 179.7 | 180.5 | 179.0 | 176.8 | 174.7 | 172.4 | 170.5 | 169.5 |
| 69.5° | 171.0 | 173.3 | 174.2 | 174.3 | 175.3 | 173.9 | 171.9 | 169.8 | 167.5 | 165.4 | 164.3 |
| 70° | 165.9 | 168.3 | 169.1 | 169.2 | 170.2 | 168.9 | 166.7 | 164.6 | 162.2 | 160.4 | 159.2 |
| 70.5° | 161.0 | 163.1 | 163.9 | 164.3 | 165.3 | 163.8 | 161.7 | 159.5 | 157.3 | 155.3 | 154.2 |
| 71° | 155.8 | 158.2 | 158.9 | 159.2 | 160.3 | 158.9 | 156.8 | 154.4 | 152.3 | 150.3 | 149.2 |
| 71.5° | 150.6 | 153.0 | 153.8 | 154.1 | 155.2 | 153.7 | 151.6 | 149.3 | 147.1 | 145.1 | 144.1 |
| 72° | 145.7 | 147.9 | 148.7 | 149.0 | 150.2 | 148.8 | 146.5 | 144.2 | 142.0 | 139.9 | 138.9 |
| 72.5° | 140.5 | 142.6 | 143.5 | 143.8 | 145.1 | 143.6 | 141.6 | 139.0 | 136.8 | 134.9 | 133.8 |
| 73° | 135.4 | 137.5 | 138.4 | 138.6 | 139.8 | 138.4 | 136.2 | 133.8 | 131.8 | 129.8 | 128.7 |
| 73.5° | 130.4 | 132.4 | 133.4 | 133.5 | 134.9 | 133.4 | 131.2 | 128.7 | 126.8 | 124.6 | 123.7 |
| 74° | 125.3 | 127.4 | 128.2 | 128.5 | 129.8 | 128.4 | 126.1 | 123.7 | 121.7 | 119.6 | 118.6 |
| 74.5° | 120.2 | 122.4 | 123.3 | 123.3 | 124.6 | 123.3 | 121.1 | 118.6 | 116.6 | 114.5 | 113.5 |
| 75° | 115.0 | 117.1 | 118.0 | 118.1 | 119.6 | 118.2 | 116.0 | 113.4 | 111.5 | 109.4 | 108.4 |
| 75.5° | 110.1 | 112.1 | 113.1 | 113.0 | 114.6 | 113.1 | 110.9 | 108.6 | 106.5 | 104.6 | 103.5 |
| 76° | 105.0 | 107.1 | 108.1 | 108.0 | 109.5 | 108.1 | 105.9 | 103.6 | 101.5 | 99.6 | 98.4 |
| 76.5° | 100.0 | 102.1 | 103.0 | 102.9 | 104.5 | 103.0 | 100.7 | 98.7 | 96.4 | 94.3 | 93.3 |
| 77° | 95.0 | 97.1 | 98.1 | 98.0 | 99.4 | 98.1 | 95.8 | 93.7 | 91.4 | 89.5 | 88.4 |
| 77.5° | 90.0 | 92.1 | 93.0 | 93.0 | 94.5 | 93.1 | 90.9 | 88.6 | 86.6 | 84.6 | 83.6 |
| 78° | 85.1 | 87.2 | 88.0 | 88.2 | 89.5 | 88.2 | 86.0 | 83.8 | 81.5 | 79.8 | 78.7 |
| 78.5° | 80.2 | 82.2 | 83.2 | 83.4 | 84.7 | 83.2 | 81.0 | 78.7 | 76.7 | 74.8 | 73.9 |
| 79° | 75.5 | 77.5 | 78.5 | 78.5 | 79.8 | 78.3 | 76.3 | 74.0 | 71.9 | 70.0 | 69.3 |
| 79.5° | 70.6 | 72.5 | 73.6 | 73.7 | 74.9 | 73.6 | 71.5 | 69.1 | 67.2 | 65.4 | 64.4 |
| 80° | 65.8 | 67.8 | 68.7 | 68.8 | 70.1 | 69.0 | 66.6 | 64.4 | 62.6 | 60.9 | 59.9 |
| 80.5° | 61.3 | 63.2 | 64.1 | 64.3 | 65.4 | 64.2 | 62.2 | 60.0 | 58.0 | 56.3 | 55.4 |
| 81° | 56.7 | 58.6 | 59.5 | 59.7 | 61.1 | 59.8 | 57.6 | 55.4 | 53.5 | 51.8 | 51.0 |
| 81.5° | 52.2 | 54.0 | 54.9 | 55.0 | 56.2 | 55.2 | 53.1 | 50.9 | 49.0 | 47.4 | 46.7 |
| 82° | 47.6 | 49.5 | 50.3 | 50.3 | 51.7 | 50.6 | 48.9 | 46.6 | 44.6 | 43.1 | 42.3 |
| 82.5° | 43.3 | 45.1 | 46.0 | 46.0 | 47.4 | 46.3 | 44.5 | 42.3 | 40.4 | 38.8 | 38.2 |
| 83° | 39.3 | 40.9 | 41.7 | 41.8 | 43.2 | 42.1 | 40.2 | 38.2 | 36.3 | 34.8 | 34.2 |
| 83.5° | 35.1 | 36.8 | 37.6 | 37.7 | 39.0 | 37.8 | 36.1 | 34.0 | 32.3 | 30.9 | 30.2 |
| 84° | 31.3 | 32.9 | 33.5 | 33.6 | 34.8 | 33.8 | 32.1 | 30.1 | 28.3 | 27.2 | 26.4 |
| 84.5° | 27.5 | 29.0 | 29.6 | 29.8 | 30.9 | 30.0 | 28.2 | 26.4 | 24.7 | 23.4 | 22.8 |
| 85° | 23.8 | 25.3 | 25.9 | 25.9 | 27.2 | 26.2 | 24.6 | 22.7 | 21.2 | 19.9 | 19.4 |
| 85.5° | 20.4 | 21.8 | 22.4 | 22.4 | 23.4 | 22.5 | 20.9 | 19.2 | 17.8 | 16.7 | 16.1 |
| 86° | 17.3 | 18.6 | 19.1 | 19.1 | 20.0 | 19.1 | 17.6 | 16.1 | 14.9 | 13.7 | 13.3 |
| 86.5° | 14.5 | 15.7 | 16.1 | 16.1 | 16.6 | 15.9 | 14.6 | 13.1 | 12.0 | 11.2 | 10.8 |
| 87° | 11.7 | 12.9 | 13.3 | 13.3 | 13.9 | 13.0 | 11.9 | 10.6 | 9.6 | 8.7 | 8.4 |
| 87.5° | 9.3 | 10.3 | 10.7 | 10.7 | 11.1 | 10.6 | 9.6 | 8.3 | 7.3 | 6.6 | 6.3 |
| 88° | 7.0 | 7.9 | 8.3 | 8.2 | 8.8 | 8.2 | 7.2 | 6.1 | 5.3 | 4.6 | 4.5 |
| 88.5° | 4.7 | 5.6 | 5.9 | 5.9 | 6.6 | 6.1 | 5.2 | 4.2 | 3.5 | 3.0 | 2.7 |
| 89° | 3.2 | 3.9 | 4.1 | 4.0 | 4.7 | 4.2 | 3.4 | 2.6 | 2.0 | 1.7 | 1.6 |
| 89.5° | 2.1 | 2.6 | 2.7 | 2.6 | 3.0 | 2.6 | 2.0 | 1.4 | 1.0 | 0.7 | 0.6 |

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



TEST NUMBER: P869715
CATALOG NUMBER: SMX18RLSFSD2W-1500LM-5000K

CANDELA DISTRIBUTION (continued):

| | | | | | | | | | | | |
|-----|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
| 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: P869715
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 0° | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 |
| 0.5° | 572.4 | 572.3 | 572.9 | 572.2 | 572.2 | 572.0 |
| 1° | 571.9 | 572.0 | 572.6 | 571.8 | 572.1 | 572.0 |
| 1.5° | 571.8 | 572.2 | 572.4 | 571.7 | 572.0 | 572.0 |
| 2° | 571.6 | 572.2 | 572.1 | 571.5 | 572.0 | 571.8 |
| 2.5° | 571.5 | 571.7 | 572.0 | 571.5 | 571.8 | 571.5 |
| 3° | 571.1 | 571.2 | 572.0 | 570.9 | 571.8 | 571.1 |
| 3.5° | 570.8 | 570.8 | 571.5 | 570.8 | 571.3 | 570.9 |
| 4° | 570.8 | 570.2 | 570.9 | 570.8 | 570.8 | 570.7 |
| 4.5° | 570.2 | 570.1 | 570.5 | 570.1 | 570.1 | 570.4 |
| 5° | 569.8 | 569.8 | 570.2 | 569.4 | 569.5 | 570.2 |
| 5.5° | 568.7 | 568.9 | 569.5 | 568.7 | 569.2 | 569.5 |
| 6° | 568.1 | 568.3 | 568.7 | 568.6 | 568.9 | 568.8 |
| 6.5° | 567.7 | 567.7 | 568.3 | 568.1 | 568.3 | 568.3 |
| 7° | 567.2 | 566.9 | 567.6 | 567.3 | 567.8 | 567.7 |
| 7.5° | 566.0 | 566.3 | 566.6 | 566.6 | 567.2 | 566.9 |
| 8° | 565.5 | 565.3 | 565.9 | 565.8 | 566.2 | 566.2 |
| 8.5° | 564.7 | 564.6 | 565.3 | 564.8 | 565.5 | 565.5 |
| 9° | 563.6 | 563.6 | 564.6 | 564.2 | 564.5 | 564.7 |
| 9.5° | 562.9 | 562.8 | 563.1 | 563.2 | 563.6 | 563.8 |
| 10° | 562.1 | 562.0 | 562.2 | 561.9 | 562.8 | 563.1 |
| 10.5° | 561.0 | 561.1 | 561.1 | 560.7 | 561.9 | 562.5 |
| 11° | 559.8 | 559.9 | 560.1 | 560.0 | 561.1 | 561.4 |
| 11.5° | 558.9 | 558.9 | 559.2 | 559.0 | 560.3 | 560.3 |
| 12° | 557.7 | 557.6 | 558.5 | 557.8 | 559.1 | 559.4 |
| 12.5° | 556.4 | 556.5 | 556.8 | 556.7 | 558.0 | 558.2 |
| 13° | 555.2 | 555.4 | 556.0 | 555.8 | 556.8 | 557.1 |
| 13.5° | 554.2 | 554.3 | 554.6 | 554.5 | 555.8 | 555.8 |
| 14° | 552.7 | 552.9 | 553.5 | 553.4 | 554.8 | 555.2 |
| 14.5° | 551.5 | 551.6 | 552.2 | 552.1 | 553.6 | 553.7 |
| 15° | 550.2 | 550.2 | 550.8 | 550.6 | 552.2 | 552.1 |
| 15.5° | 549.0 | 548.5 | 549.3 | 549.4 | 550.5 | 550.6 |
| 16° | 547.6 | 547.0 | 548.0 | 547.8 | 549.0 | 549.0 |
| 16.5° | 546.0 | 545.3 | 546.3 | 546.6 | 547.4 | 547.9 |
| 17° | 544.5 | 543.5 | 544.5 | 545.4 | 545.9 | 546.2 |
| 17.5° | 542.6 | 541.7 | 542.9 | 543.7 | 544.3 | 544.4 |
| 18° | 540.9 | 540.1 | 541.0 | 542.0 | 542.6 | 543.0 |
| 18.5° | 538.7 | 538.3 | 538.7 | 540.3 | 540.7 | 541.1 |
| 19° | 536.8 | 536.5 | 536.9 | 538.9 | 538.9 | 539.2 |
| 19.5° | 535.0 | 534.3 | 535.2 | 536.8 | 537.1 | 537.6 |
| 20° | 533.1 | 532.5 | 533.7 | 534.9 | 535.5 | 535.8 |
| 20.5° | 531.1 | 530.7 | 531.6 | 533.3 | 533.4 | 534.0 |
| 21° | 529.2 | 528.7 | 529.7 | 531.5 | 531.4 | 532.0 |
| 21.5° | 527.1 | 526.4 | 527.6 | 529.3 | 529.2 | 529.8 |
| 22° | 525.2 | 524.3 | 525.2 | 527.0 | 527.1 | 527.7 |

TEST NUMBER: P869715
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 523.0 | 522.2 | 523.4 | 525.0 | 525.4 | 525.8 |
| 23° | 521.0 | 520.2 | 521.4 | 522.8 | 523.6 | 524.0 |
| 23.5° | 518.5 | 518.1 | 518.9 | 520.6 | 521.1 | 521.7 |
| 24° | 516.4 | 515.9 | 516.6 | 518.1 | 518.6 | 519.6 |
| 24.5° | 513.9 | 513.6 | 514.2 | 515.7 | 516.6 | 517.5 |
| 25° | 511.7 | 511.5 | 512.5 | 513.5 | 514.6 | 515.2 |
| 25.5° | 509.4 | 508.9 | 510.1 | 511.1 | 512.2 | 512.4 |
| 26° | 506.9 | 506.5 | 507.8 | 508.7 | 509.9 | 510.3 |
| 26.5° | 504.3 | 503.7 | 505.3 | 506.2 | 507.4 | 507.5 |
| 27° | 501.9 | 501.3 | 502.8 | 503.8 | 504.9 | 505.3 |
| 27.5° | 499.4 | 498.5 | 500.3 | 501.3 | 502.4 | 502.8 |
| 28° | 496.9 | 496.1 | 497.9 | 498.8 | 500.1 | 500.4 |
| 28.5° | 494.2 | 493.5 | 495.1 | 495.9 | 497.6 | 497.6 |
| 29° | 491.7 | 490.8 | 492.4 | 493.4 | 494.9 | 494.9 |
| 29.5° | 488.8 | 488.0 | 489.5 | 490.6 | 492.1 | 492.6 |
| 30° | 486.0 | 485.4 | 486.9 | 488.0 | 489.5 | 490.0 |
| 30.5° | 483.5 | 482.6 | 484.0 | 485.0 | 486.9 | 487.3 |
| 31° | 480.6 | 479.8 | 481.3 | 482.3 | 484.3 | 484.4 |
| 31.5° | 477.6 | 476.8 | 478.3 | 479.5 | 481.3 | 481.9 |
| 32° | 474.7 | 473.8 | 475.8 | 476.8 | 478.6 | 478.9 |
| 32.5° | 471.9 | 470.9 | 472.9 | 473.8 | 475.6 | 476.0 |
| 33° | 468.9 | 468.2 | 470.0 | 471.0 | 473.0 | 473.3 |
| 33.5° | 466.0 | 464.9 | 466.8 | 467.9 | 470.2 | 470.3 |
| 34° | 463.1 | 461.8 | 463.8 | 464.9 | 467.2 | 467.2 |
| 34.5° | 459.6 | 458.8 | 460.6 | 462.0 | 464.1 | 464.1 |
| 35° | 456.5 | 455.8 | 457.7 | 458.6 | 460.9 | 460.9 |
| 35.5° | 453.4 | 452.6 | 454.1 | 455.4 | 457.7 | 457.6 |
| 36° | 450.2 | 449.5 | 451.2 | 452.5 | 454.7 | 454.8 |
| 36.5° | 447.3 | 446.1 | 448.0 | 449.5 | 451.7 | 451.6 |
| 37° | 444.2 | 442.8 | 444.7 | 446.1 | 448.4 | 448.5 |
| 37.5° | 440.8 | 439.7 | 441.2 | 443.0 | 445.2 | 445.3 |
| 38° | 437.0 | 436.3 | 437.8 | 439.4 | 441.7 | 441.5 |
| 38.5° | 434.1 | 432.8 | 434.4 | 436.0 | 438.3 | 438.3 |
| 39° | 430.6 | 429.5 | 431.0 | 432.8 | 434.9 | 435.1 |
| 39.5° | 427.0 | 426.1 | 427.4 | 429.2 | 431.3 | 431.7 |
| 40° | 423.5 | 422.5 | 424.3 | 425.8 | 427.8 | 428.0 |
| 40.5° | 419.9 | 418.9 | 420.5 | 422.3 | 424.5 | 424.6 |
| 41° | 416.2 | 415.5 | 416.9 | 418.5 | 420.4 | 421.4 |
| 41.5° | 412.8 | 411.7 | 413.3 | 415.2 | 417.0 | 417.9 |
| 42° | 409.1 | 408.1 | 409.8 | 411.5 | 413.3 | 414.2 |
| 42.5° | 405.4 | 404.6 | 405.9 | 407.7 | 409.7 | 410.6 |
| 43° | 402.0 | 401.0 | 402.4 | 404.1 | 406.0 | 406.9 |
| 43.5° | 398.3 | 397.3 | 398.6 | 400.6 | 402.6 | 403.2 |
| 44° | 394.2 | 393.4 | 394.8 | 396.9 | 399.0 | 399.7 |
| 44.5° | 390.6 | 389.6 | 391.1 | 392.9 | 395.2 | 396.2 |

TEST NUMBER: P869715
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 45° | 386.8 | 385.7 | 387.3 | 389.4 | 391.3 | 392.2 |
| 45.5° | 383.1 | 381.8 | 383.6 | 385.6 | 387.2 | 388.1 |
| 46° | 378.9 | 377.8 | 379.7 | 381.5 | 383.3 | 384.6 |
| 46.5° | 375.0 | 374.0 | 375.7 | 377.6 | 379.6 | 380.6 |
| 47° | 371.1 | 369.8 | 371.5 | 373.5 | 375.7 | 376.9 |
| 47.5° | 366.9 | 365.9 | 367.7 | 369.8 | 371.7 | 372.6 |
| 48° | 362.9 | 361.8 | 363.4 | 365.6 | 367.6 | 368.8 |
| 48.5° | 358.9 | 357.7 | 359.4 | 361.7 | 363.8 | 365.0 |
| 49° | 354.8 | 354.0 | 355.4 | 357.5 | 359.9 | 360.7 |
| 49.5° | 350.6 | 349.7 | 351.3 | 353.6 | 355.7 | 356.7 |
| 50° | 346.5 | 345.4 | 347.0 | 349.3 | 351.6 | 352.6 |
| 50.5° | 342.3 | 341.3 | 342.9 | 345.3 | 347.4 | 348.5 |
| 51° | 338.1 | 337.2 | 338.6 | 341.1 | 343.3 | 344.1 |
| 51.5° | 334.0 | 332.9 | 334.3 | 336.8 | 339.0 | 340.1 |
| 52° | 329.5 | 328.5 | 330.1 | 332.4 | 334.7 | 335.8 |
| 52.5° | 325.1 | 324.3 | 326.0 | 328.2 | 330.3 | 331.3 |
| 53° | 321.1 | 319.9 | 321.6 | 323.8 | 326.2 | 326.8 |
| 53.5° | 316.6 | 315.5 | 317.2 | 319.6 | 321.7 | 322.8 |
| 54° | 312.2 | 311.1 | 312.8 | 315.0 | 317.2 | 318.5 |
| 54.5° | 307.7 | 306.7 | 308.3 | 310.7 | 312.9 | 314.3 |
| 55° | 303.6 | 302.4 | 304.1 | 306.3 | 308.3 | 309.6 |
| 55.5° | 299.0 | 297.9 | 299.7 | 301.8 | 304.3 | 305.3 |
| 56° | 294.4 | 293.5 | 295.1 | 297.6 | 299.8 | 301.0 |
| 56.5° | 289.9 | 288.9 | 290.6 | 293.0 | 295.2 | 296.4 |
| 57° | 285.6 | 284.2 | 286.0 | 288.4 | 290.5 | 291.7 |
| 57.5° | 280.8 | 279.8 | 281.4 | 283.7 | 285.9 | 287.2 |
| 58° | 276.2 | 275.1 | 276.8 | 279.1 | 281.3 | 282.8 |
| 58.5° | 271.6 | 270.4 | 272.3 | 274.5 | 276.8 | 278.2 |
| 59° | 267.0 | 265.8 | 267.6 | 269.7 | 272.1 | 273.4 |
| 59.5° | 262.2 | 260.9 | 262.8 | 265.1 | 267.3 | 268.8 |
| 60° | 257.5 | 256.2 | 258.1 | 260.4 | 262.6 | 264.1 |
| 60.5° | 252.9 | 251.7 | 253.1 | 255.7 | 257.8 | 259.5 |
| 61° | 248.1 | 246.9 | 248.6 | 250.9 | 253.1 | 254.9 |
| 61.5° | 243.3 | 242.1 | 243.9 | 246.2 | 248.5 | 250.0 |
| 62° | 238.5 | 237.3 | 239.1 | 241.3 | 243.7 | 245.2 |
| 62.5° | 233.8 | 232.6 | 234.2 | 236.5 | 238.8 | 240.3 |
| 63° | 228.8 | 227.6 | 229.3 | 231.4 | 233.9 | 235.5 |
| 63.5° | 224.0 | 222.8 | 224.4 | 226.6 | 229.0 | 230.7 |
| 64° | 219.0 | 217.7 | 219.4 | 221.9 | 224.2 | 225.9 |
| 64.5° | 214.0 | 212.9 | 214.6 | 216.8 | 219.2 | 221.0 |
| 65° | 209.3 | 208.1 | 209.6 | 211.7 | 214.4 | 216.1 |
| 65.5° | 204.2 | 203.0 | 204.8 | 206.9 | 209.3 | 211.2 |
| 66° | 199.3 | 198.2 | 199.7 | 202.0 | 204.4 | 206.4 |
| 66.5° | 194.3 | 192.9 | 194.8 | 196.9 | 199.4 | 201.3 |
| 67° | 189.2 | 188.0 | 189.7 | 191.8 | 194.4 | 196.3 |

TEST NUMBER: P869715
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 184.4 | 183.1 | 184.7 | 186.9 | 189.5 | 191.3 |
| 68° | 179.4 | 177.8 | 179.7 | 181.8 | 184.5 | 186.2 |
| 68.5° | 174.2 | 172.9 | 174.5 | 176.7 | 179.3 | 181.2 |
| 69° | 169.2 | 167.8 | 169.4 | 171.6 | 174.2 | 176.3 |
| 69.5° | 164.1 | 162.7 | 164.4 | 166.5 | 169.1 | 171.0 |
| 70° | 159.1 | 157.6 | 159.5 | 161.6 | 164.0 | 165.9 |
| 70.5° | 154.2 | 152.6 | 154.3 | 156.4 | 159.1 | 161.0 |
| 71° | 149.0 | 147.5 | 149.3 | 151.5 | 153.9 | 155.8 |
| 71.5° | 143.9 | 142.3 | 144.0 | 146.1 | 148.8 | 150.6 |
| 72° | 138.8 | 137.4 | 138.8 | 141.0 | 143.6 | 145.7 |
| 72.5° | 133.6 | 132.2 | 133.8 | 136.0 | 138.6 | 140.5 |
| 73° | 128.5 | 127.1 | 128.7 | 130.9 | 133.4 | 135.4 |
| 73.5° | 123.6 | 122.0 | 123.5 | 125.8 | 128.4 | 130.4 |
| 74° | 118.6 | 116.9 | 118.4 | 120.7 | 123.1 | 125.3 |
| 74.5° | 113.4 | 111.9 | 113.4 | 115.5 | 118.0 | 120.2 |
| 75° | 108.4 | 106.9 | 108.4 | 110.5 | 112.9 | 115.0 |
| 75.5° | 103.6 | 101.9 | 103.3 | 105.6 | 108.0 | 110.1 |
| 76° | 98.4 | 96.8 | 98.3 | 100.4 | 102.8 | 105.0 |
| 76.5° | 93.4 | 91.9 | 93.3 | 95.5 | 98.0 | 100.0 |
| 77° | 88.3 | 86.9 | 88.4 | 90.6 | 93.0 | 95.0 |
| 77.5° | 83.5 | 82.0 | 83.5 | 85.8 | 88.1 | 90.0 |
| 78° | 78.6 | 77.2 | 78.7 | 80.8 | 83.2 | 85.1 |
| 78.5° | 73.8 | 72.4 | 73.9 | 75.9 | 78.4 | 80.2 |
| 79° | 69.1 | 67.5 | 69.1 | 71.2 | 73.6 | 75.5 |
| 79.5° | 64.4 | 62.9 | 64.3 | 66.4 | 68.8 | 70.6 |
| 80° | 59.8 | 58.3 | 59.6 | 61.8 | 64.0 | 65.8 |
| 80.5° | 55.3 | 53.8 | 55.2 | 57.1 | 59.3 | 61.3 |
| 81° | 51.0 | 49.3 | 50.6 | 52.6 | 54.8 | 56.7 |
| 81.5° | 46.5 | 44.9 | 46.2 | 48.2 | 50.4 | 52.2 |
| 82° | 42.1 | 40.8 | 41.9 | 43.9 | 45.9 | 47.6 |
| 82.5° | 38.0 | 36.6 | 37.9 | 39.6 | 41.7 | 43.3 |
| 83° | 34.1 | 32.6 | 33.9 | 35.7 | 37.6 | 39.3 |
| 83.5° | 30.1 | 28.8 | 29.8 | 31.6 | 33.6 | 35.1 |
| 84° | 26.4 | 25.1 | 26.2 | 27.8 | 29.7 | 31.3 |
| 84.5° | 22.8 | 21.7 | 22.6 | 24.3 | 26.0 | 27.5 |
| 85° | 19.2 | 18.4 | 19.4 | 20.9 | 22.5 | 23.8 |
| 85.5° | 16.1 | 15.5 | 16.3 | 17.6 | 19.2 | 20.4 |
| 86° | 13.2 | 12.6 | 13.4 | 14.7 | 16.2 | 17.3 |
| 86.5° | 10.8 | 10.0 | 10.8 | 12.0 | 13.3 | 14.5 |
| 87° | 8.5 | 7.6 | 8.4 | 9.4 | 10.7 | 11.7 |
| 87.5° | 6.3 | 5.3 | 6.1 | 7.2 | 8.3 | 9.3 |
| 88° | 4.4 | 3.8 | 4.1 | 5.0 | 5.9 | 7.0 |
| 88.5° | 2.8 | 2.4 | 2.8 | 3.4 | 4.1 | 4.7 |
| 89° | 1.6 | 1.4 | 1.7 | 2.3 | 2.7 | 3.2 |
| 89.5° | 0.7 | 0.9 | 1.1 | 1.4 | 1.8 | 2.1 |

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



TEST NUMBER: P869715
CATALOG NUMBER: SMX18RLSFSD2W-1500LM-5000K

CANDELA DISTRIBUTION (continued):

| | | | | | | |
|-----|--------|------|--------|------|--------|------|
| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)