

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: P869719

Luminaire Tested: **SMX18RLSFSD2W-2000LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869719
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS2W-2000LM-4000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

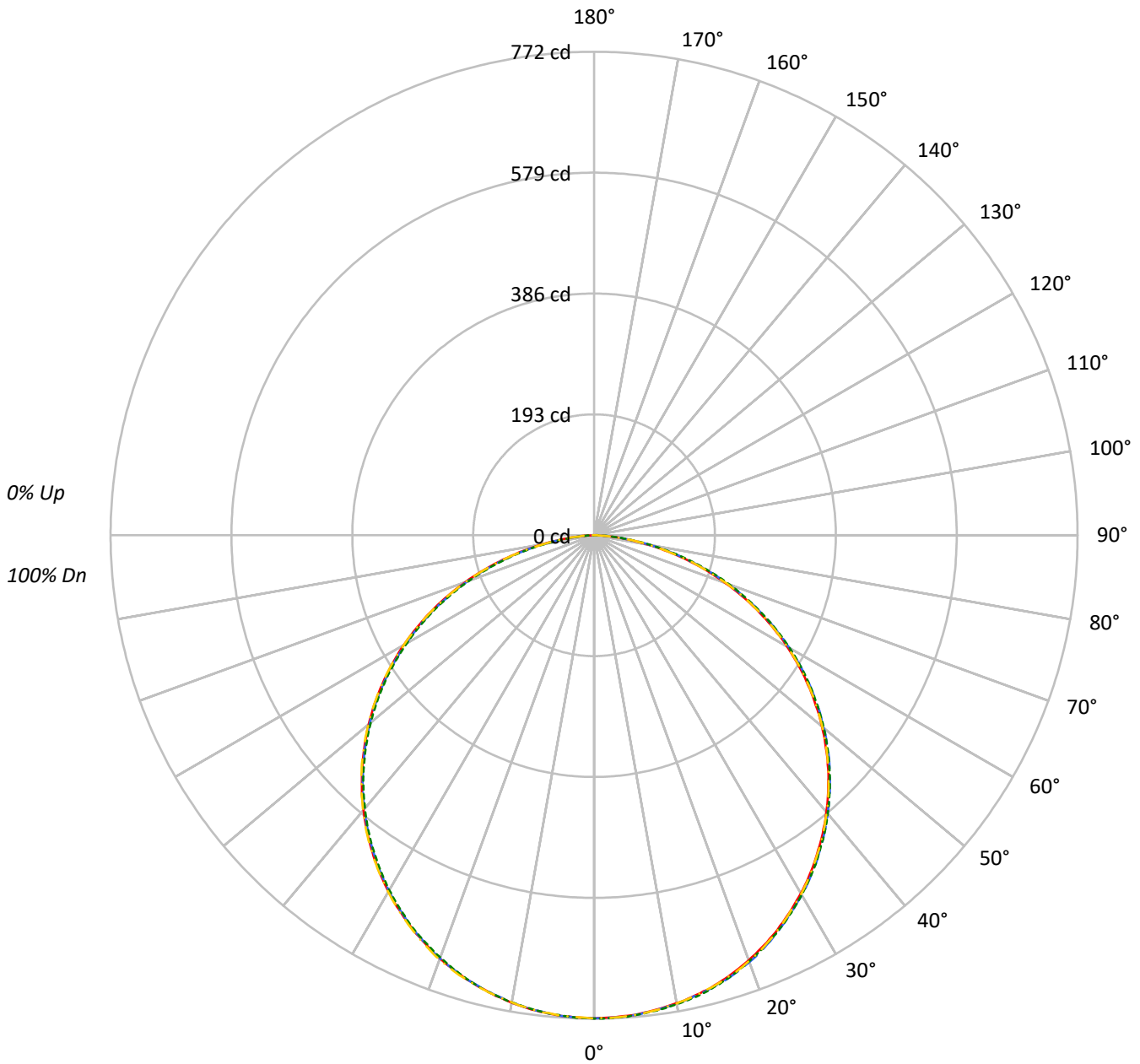
Lumens per Lamp: N/A
 Luminaire Lumens: 2251.9 lumens
 Efficiency: N/A
 Efficacy: 93.4 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 24.1
 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 |

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Luminous Intensity Polar Plot



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

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 |
| 2 | 99 | 90 | 83 | 78 | 96 | 88 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 58 | 52 | 62 | 56 | 52 | 50 |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 40 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 26 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 4699 | 4699 | 4699 | 4699 |
| 5° | 4698 | 4701 | 4694 | 4695 |
| 10° | 4693 | 4704 | 4688 | 4685 |
| 15° | 4691 | 4704 | 4675 | 4676 |
| 20° | 4680 | 4693 | 4662 | 4652 |
| 25° | 4666 | 4680 | 4641 | 4633 |
| 30° | 4644 | 4662 | 4619 | 4601 |
| 35° | 4619 | 4641 | 4590 | 4567 |
| 40° | 4586 | 4615 | 4555 | 4527 |
| 45° | 4553 | 4582 | 4509 | 4477 |
| 50° | 4503 | 4536 | 4453 | 4411 |
| 55° | 4430 | 4478 | 4377 | 4326 |
| 60° | 4336 | 4393 | 4275 | 4207 |
| 65° | 4197 | 4271 | 4124 | 4043 |
| 70° | 3982 | 4085 | 3893 | 3783 |
| 75° | 3645 | 3791 | 3537 | 3391 |
| 80° | 3111 | 3315 | 2957 | 2757 |
| 85° | 2243 | 2565 | 1992 | 1733 |

TEST NUMBER: P869719
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-4000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.0 | 3.2 |
| 10°-20° | 209.8 | 9.3 |
| 20°-30° | 319.4 | 14.2 |
| 30°-40° | 387.9 | 17.2 |
| 40°-50° | 406.0 | 18.0 |
| 50°-60° | 370.9 | 16.5 |
| 60°-70° | 285.3 | 12.7 |
| 70°-80° | 161.4 | 7.2 |
| 80°-90° | 38.1 | 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° | 602.3 | 26.7 |
| 0°-40° | 990.2 | 44.0 |
| 0°-60° | 1767.1 | 78.5 |
| 0°-90° | 2251.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2251.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 772 | 772 | 772 | 772 | 772 | |
| 5° | 768 | 769 | 768 | 768 | 768 | 73 |
| 15° | 744 | 746 | 741 | 742 | 744 | 210 |
| 25° | 694 | 696 | 691 | 689 | 694 | 320 |
| 35° | 621 | 624 | 617 | 614 | 621 | 389 |
| 45° | 528 | 532 | 523 | 520 | 528 | 407 |
| 55° | 417 | 422 | 412 | 407 | 417 | 373 |
| 65° | 291 | 296 | 286 | 280 | 291 | 288 |
| 75° | 155 | 161 | 150 | 144 | 155 | 164 |
| 85° | 32 | 37 | 28 | 25 | 32 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

TEST NUMBER: P869719
 CATALOG NUMBER: SMX18RLSFS2W-2000LM-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 771.5 | 771.5 | 771.5 | 771.5 | 771.5 | 771.5 | 771.5 | 771.5 | 771.5 | 771.5 | 771.5 |
| 0.5° | 770.8 | 771.4 | 771.3 | 771.4 | 771.9 | 772.4 | 771.4 | 771.6 | 770.7 | 771.3 | 771.5 |
| 1° | 770.8 | 771.5 | 771.2 | 771.6 | 772.0 | 772.1 | 770.8 | 771.2 | 770.8 | 771.2 | 771.2 |
| 1.5° | 770.8 | 771.8 | 771.2 | 771.2 | 771.7 | 771.7 | 771.2 | 770.9 | 770.5 | 771.2 | 771.1 |
| 2° | 770.6 | 771.4 | 771.0 | 770.8 | 771.4 | 771.7 | 771.1 | 770.8 | 770.4 | 770.7 | 770.4 |
| 2.5° | 770.1 | 771.2 | 770.8 | 770.8 | 771.4 | 771.3 | 770.7 | 770.1 | 770.3 | 770.6 | 770.4 |
| 3° | 769.6 | 770.8 | 770.8 | 770.3 | 770.8 | 770.5 | 770.4 | 769.8 | 769.5 | 770.8 | 769.8 |
| 3.5° | 769.3 | 770.3 | 770.5 | 770.3 | 770.4 | 770.0 | 770.3 | 769.6 | 769.6 | 770.2 | 769.6 |
| 4° | 769.1 | 769.9 | 769.9 | 769.7 | 770.4 | 769.9 | 769.6 | 769.3 | 769.3 | 769.2 | 769.2 |
| 4.5° | 768.7 | 769.0 | 769.2 | 769.6 | 769.4 | 769.7 | 769.3 | 768.8 | 768.6 | 768.7 | 768.6 |
| 5° | 768.4 | 768.3 | 768.4 | 768.9 | 768.8 | 769.1 | 768.7 | 767.8 | 767.7 | 768.0 | 768.1 |
| 5.5° | 767.4 | 768.2 | 768.2 | 768.6 | 768.4 | 768.7 | 768.3 | 767.4 | 767.1 | 767.1 | 767.2 |
| 6° | 766.5 | 767.5 | 766.9 | 767.7 | 767.9 | 767.9 | 767.2 | 766.9 | 766.1 | 766.3 | 765.7 |
| 6.5° | 765.8 | 766.6 | 766.3 | 766.8 | 766.9 | 767.3 | 766.3 | 766.3 | 765.8 | 765.1 | 764.9 |
| 7° | 765.0 | 765.5 | 765.6 | 765.8 | 765.9 | 766.4 | 765.3 | 765.0 | 764.6 | 764.6 | 764.3 |
| 7.5° | 764.0 | 764.6 | 764.7 | 765.2 | 765.7 | 765.3 | 764.9 | 763.8 | 763.8 | 763.7 | 763.4 |
| 8° | 763.0 | 763.7 | 763.6 | 764.0 | 764.6 | 764.6 | 764.1 | 763.2 | 762.6 | 762.4 | 762.3 |
| 8.5° | 762.1 | 763.0 | 762.9 | 763.0 | 763.6 | 763.8 | 762.5 | 762.1 | 761.7 | 761.4 | 761.3 |
| 9° | 761.0 | 762.0 | 761.6 | 762.1 | 762.4 | 762.7 | 761.4 | 761.0 | 760.4 | 760.2 | 760.1 |
| 9.5° | 759.7 | 760.9 | 760.8 | 761.2 | 761.4 | 761.7 | 760.6 | 759.8 | 759.3 | 758.8 | 758.8 |
| 10° | 758.8 | 759.6 | 759.5 | 759.8 | 760.6 | 760.5 | 759.2 | 758.3 | 758.0 | 757.3 | 757.2 |
| 10.5° | 758.0 | 758.4 | 758.3 | 759.1 | 759.6 | 759.2 | 757.7 | 757.2 | 756.3 | 756.0 | 755.8 |
| 11° | 756.6 | 757.0 | 757.1 | 757.8 | 758.2 | 757.9 | 756.5 | 755.9 | 754.9 | 755.1 | 754.2 |
| 11.5° | 755.0 | 755.7 | 755.7 | 756.6 | 757.2 | 756.8 | 755.2 | 754.0 | 753.4 | 753.9 | 752.8 |
| 12° | 753.8 | 754.5 | 754.3 | 755.4 | 755.6 | 755.3 | 754.0 | 752.6 | 752.2 | 751.8 | 751.4 |
| 12.5° | 752.2 | 752.9 | 752.6 | 753.9 | 754.7 | 753.9 | 752.6 | 751.0 | 750.1 | 750.1 | 750.0 |
| 13° | 750.7 | 751.7 | 751.3 | 752.7 | 753.2 | 752.6 | 751.0 | 749.3 | 748.7 | 748.4 | 748.2 |
| 13.5° | 749.0 | 749.9 | 750.1 | 751.0 | 751.4 | 751.0 | 749.3 | 748.1 | 746.8 | 746.4 | 746.8 |
| 14° | 748.1 | 748.4 | 748.5 | 749.8 | 749.8 | 749.3 | 747.4 | 746.4 | 745.1 | 744.9 | 745.1 |
| 14.5° | 746.2 | 746.4 | 747.0 | 748.2 | 748.2 | 747.8 | 746.1 | 744.3 | 743.5 | 742.7 | 742.8 |
| 15° | 743.9 | 744.6 | 745.4 | 745.8 | 746.0 | 745.8 | 744.5 | 742.6 | 741.4 | 741.1 | 741.1 |
| 15.5° | 742.0 | 743.1 | 743.5 | 744.3 | 744.7 | 744.1 | 742.6 | 740.3 | 739.4 | 739.2 | 739.4 |
| 16° | 739.8 | 741.6 | 742.1 | 742.4 | 742.3 | 742.4 | 740.9 | 738.3 | 737.6 | 737.3 | 737.4 |
| 16.5° | 738.3 | 739.6 | 740.6 | 740.4 | 740.3 | 740.3 | 738.6 | 736.8 | 735.5 | 735.3 | 735.2 |
| 17° | 736.1 | 737.3 | 738.6 | 738.4 | 738.5 | 738.2 | 736.7 | 734.7 | 733.2 | 732.9 | 732.7 |
| 17.5° | 733.6 | 735.3 | 736.5 | 736.5 | 736.1 | 736.1 | 735.0 | 732.4 | 731.5 | 730.6 | 730.7 |
| 18° | 731.7 | 733.1 | 734.4 | 733.7 | 733.9 | 733.7 | 733.3 | 730.2 | 729.1 | 728.3 | 728.6 |
| 18.5° | 729.2 | 730.6 | 732.4 | 731.5 | 731.1 | 731.4 | 730.7 | 727.6 | 726.5 | 726.1 | 726.2 |
| 19° | 726.6 | 728.5 | 730.1 | 729.1 | 728.9 | 728.8 | 728.8 | 725.5 | 724.3 | 723.4 | 724.1 |
| 19.5° | 724.5 | 726.1 | 727.5 | 726.6 | 726.8 | 726.6 | 725.9 | 723.3 | 721.6 | 720.8 | 721.8 |
| 20° | 722.0 | 723.9 | 725.2 | 723.7 | 724.0 | 724.1 | 723.6 | 720.5 | 719.2 | 718.6 | 719.1 |
| 20.5° | 719.5 | 720.9 | 722.9 | 721.5 | 721.4 | 721.1 | 720.8 | 717.9 | 717.1 | 716.0 | 716.6 |
| 21° | 717.0 | 718.1 | 720.4 | 718.9 | 719.1 | 718.2 | 718.9 | 715.4 | 714.5 | 713.3 | 714.0 |
| 21.5° | 713.9 | 715.4 | 717.8 | 716.5 | 716.1 | 716.0 | 715.9 | 712.9 | 711.3 | 710.5 | 711.4 |
| 22° | 711.2 | 712.8 | 715.1 | 713.6 | 713.6 | 713.1 | 713.3 | 710.5 | 708.3 | 707.6 | 708.7 |

TEST NUMBER: P869719
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 708.6 | 710.1 | 712.2 | 710.8 | 710.8 | 710.2 | 710.5 | 707.6 | 705.6 | 704.5 | 705.4 |
| 23° | 706.1 | 707.6 | 709.0 | 708.3 | 708.0 | 707.7 | 707.1 | 704.5 | 702.7 | 701.9 | 702.2 |
| 23.5° | 703.0 | 705.1 | 706.4 | 705.5 | 705.2 | 705.1 | 704.5 | 701.8 | 699.7 | 699.4 | 698.9 |
| 24° | 700.1 | 702.1 | 703.3 | 702.5 | 702.3 | 701.6 | 701.5 | 699.1 | 697.0 | 695.8 | 695.9 |
| 24.5° | 697.3 | 699.2 | 699.9 | 699.4 | 699.7 | 698.2 | 698.2 | 696.0 | 693.9 | 692.7 | 693.1 |
| 25° | 694.3 | 696.0 | 696.8 | 696.6 | 696.3 | 695.7 | 695.1 | 693.2 | 690.6 | 689.6 | 689.4 |
| 25.5° | 690.6 | 692.7 | 693.6 | 693.7 | 693.5 | 693.1 | 691.8 | 690.3 | 687.6 | 686.5 | 686.1 |
| 26° | 687.7 | 689.8 | 690.3 | 690.5 | 690.2 | 689.4 | 688.5 | 687.0 | 684.2 | 683.5 | 683.3 |
| 26.5° | 684.0 | 686.5 | 687.1 | 687.0 | 687.1 | 686.2 | 685.1 | 683.8 | 681.1 | 680.2 | 679.6 |
| 27° | 680.9 | 683.5 | 683.6 | 684.0 | 683.4 | 683.2 | 681.7 | 680.4 | 677.6 | 677.1 | 676.2 |
| 27.5° | 677.6 | 680.3 | 680.5 | 681.2 | 680.4 | 679.5 | 678.1 | 677.3 | 674.2 | 674.0 | 673.0 |
| 28° | 674.3 | 676.7 | 677.4 | 677.8 | 677.3 | 676.5 | 674.6 | 673.7 | 671.2 | 670.6 | 669.5 |
| 28.5° | 670.5 | 673.7 | 673.5 | 674.1 | 673.7 | 673.2 | 671.6 | 670.5 | 667.8 | 667.0 | 666.2 |
| 29° | 667.0 | 670.4 | 669.9 | 670.6 | 670.4 | 669.6 | 668.0 | 667.1 | 664.1 | 663.3 | 662.5 |
| 29.5° | 663.7 | 666.9 | 666.9 | 667.4 | 666.6 | 665.9 | 664.6 | 663.7 | 660.4 | 659.6 | 659.1 |
| 30° | 660.3 | 663.3 | 663.4 | 663.9 | 662.9 | 662.4 | 661.3 | 660.0 | 656.7 | 656.1 | 655.0 |
| 30.5° | 656.7 | 659.9 | 659.7 | 660.3 | 659.3 | 658.8 | 657.7 | 656.5 | 653.0 | 652.6 | 651.6 |
| 31° | 652.8 | 656.2 | 656.1 | 656.4 | 656.0 | 655.2 | 653.7 | 652.7 | 649.3 | 648.4 | 647.9 |
| 31.5° | 649.4 | 652.1 | 652.2 | 652.9 | 652.1 | 651.2 | 650.1 | 648.7 | 645.5 | 644.5 | 643.9 |
| 32° | 645.4 | 648.0 | 648.5 | 649.4 | 648.1 | 647.2 | 646.1 | 644.9 | 641.6 | 641.1 | 639.8 |
| 32.5° | 641.4 | 644.3 | 644.4 | 645.6 | 644.3 | 643.9 | 642.1 | 641.2 | 637.7 | 637.3 | 636.1 |
| 33° | 637.7 | 640.5 | 640.4 | 641.6 | 640.6 | 639.8 | 638.3 | 637.0 | 633.6 | 633.5 | 632.0 |
| 33.5° | 633.8 | 636.6 | 636.7 | 637.5 | 637.1 | 636.0 | 634.1 | 633.0 | 629.5 | 629.4 | 627.9 |
| 34° | 629.6 | 632.8 | 632.8 | 633.6 | 632.8 | 632.0 | 629.8 | 629.4 | 625.8 | 625.2 | 623.6 |
| 34.5° | 625.4 | 628.6 | 628.6 | 629.4 | 628.5 | 628.1 | 626.1 | 625.3 | 621.8 | 621.0 | 619.5 |
| 35° | 621.2 | 624.6 | 624.2 | 625.5 | 624.2 | 624.0 | 621.7 | 620.7 | 617.3 | 616.8 | 615.4 |
| 35.5° | 616.6 | 620.3 | 620.3 | 621.5 | 620.2 | 619.8 | 617.6 | 616.6 | 613.1 | 612.8 | 611.2 |
| 36° | 612.9 | 616.3 | 615.9 | 617.2 | 615.8 | 615.5 | 613.3 | 612.3 | 608.8 | 608.3 | 606.8 |
| 36.5° | 608.6 | 612.0 | 611.7 | 612.8 | 611.4 | 611.2 | 609.1 | 608.1 | 604.6 | 604.4 | 602.7 |
| 37° | 604.4 | 607.8 | 607.6 | 608.3 | 607.5 | 607.1 | 604.8 | 603.8 | 600.1 | 599.7 | 597.9 |
| 37.5° | 600.1 | 603.1 | 603.1 | 604.2 | 603.4 | 602.7 | 600.5 | 599.6 | 595.7 | 594.8 | 593.4 |
| 38° | 595.0 | 598.6 | 598.6 | 599.7 | 598.7 | 598.1 | 595.9 | 595.2 | 591.2 | 590.4 | 588.9 |
| 38.5° | 590.6 | 594.0 | 594.3 | 595.5 | 594.2 | 593.5 | 591.5 | 590.9 | 586.5 | 585.4 | 584.5 |
| 39° | 586.3 | 589.8 | 589.7 | 590.9 | 589.7 | 589.3 | 586.7 | 586.1 | 582.1 | 581.2 | 580.0 |
| 39.5° | 581.8 | 584.8 | 585.2 | 586.2 | 585.2 | 584.5 | 582.3 | 581.5 | 577.3 | 576.7 | 575.5 |
| 40° | 576.8 | 580.1 | 580.6 | 581.3 | 580.4 | 580.0 | 577.8 | 576.7 | 572.8 | 571.8 | 570.6 |
| 40.5° | 572.2 | 575.4 | 575.9 | 576.8 | 575.8 | 575.6 | 573.6 | 571.6 | 568.1 | 566.7 | 566.1 |
| 41° | 567.8 | 570.7 | 571.1 | 572.0 | 571.0 | 570.7 | 568.5 | 566.6 | 563.3 | 562.2 | 561.0 |
| 41.5° | 563.2 | 565.8 | 566.6 | 567.2 | 566.4 | 565.8 | 564.0 | 562.0 | 558.7 | 557.2 | 556.4 |
| 42° | 558.1 | 560.8 | 561.9 | 562.4 | 561.6 | 561.1 | 559.0 | 557.0 | 553.8 | 552.2 | 551.3 |
| 42.5° | 553.3 | 556.2 | 557.2 | 557.5 | 556.7 | 556.2 | 554.3 | 551.8 | 548.8 | 547.6 | 546.3 |
| 43° | 548.4 | 551.0 | 552.1 | 552.4 | 551.7 | 551.3 | 549.1 | 547.1 | 543.6 | 542.7 | 541.6 |
| 43.5° | 543.3 | 546.3 | 547.0 | 547.6 | 546.8 | 546.2 | 543.8 | 542.0 | 538.6 | 537.8 | 536.6 |
| 44° | 538.6 | 541.4 | 542.3 | 542.5 | 541.9 | 541.6 | 538.9 | 537.2 | 533.5 | 532.9 | 531.4 |
| 44.5° | 533.9 | 536.4 | 537.4 | 537.6 | 537.0 | 536.4 | 533.9 | 531.9 | 528.6 | 527.7 | 526.5 |

TEST NUMBER: P869719
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45° | 528.5 | 530.9 | 532.5 | 532.7 | 531.9 | 531.3 | 529.0 | 526.7 | 523.4 | 522.4 | 521.1 |
| 45.5° | 523.0 | 526.1 | 527.3 | 527.5 | 526.5 | 526.2 | 524.0 | 521.7 | 518.4 | 516.8 | 516.1 |
| 46° | 518.3 | 520.9 | 521.9 | 522.1 | 521.4 | 521.0 | 518.7 | 516.6 | 513.1 | 511.7 | 510.8 |
| 46.5° | 512.9 | 515.7 | 517.1 | 516.7 | 516.3 | 515.8 | 513.7 | 511.1 | 507.5 | 506.4 | 505.8 |
| 47° | 507.9 | 510.4 | 511.6 | 511.8 | 511.0 | 510.6 | 508.3 | 506.2 | 502.5 | 501.3 | 500.4 |
| 47.5° | 502.1 | 505.0 | 506.5 | 506.6 | 505.9 | 505.3 | 502.8 | 501.1 | 497.1 | 495.9 | 494.7 |
| 48° | 497.0 | 499.9 | 500.9 | 501.1 | 500.4 | 500.2 | 497.7 | 495.5 | 491.9 | 490.4 | 489.3 |
| 48.5° | 491.8 | 494.6 | 495.7 | 495.5 | 494.9 | 494.6 | 492.3 | 489.7 | 486.1 | 484.9 | 484.1 |
| 49° | 486.1 | 488.9 | 490.1 | 490.3 | 489.6 | 489.2 | 486.6 | 484.3 | 481.0 | 479.4 | 478.3 |
| 49.5° | 480.6 | 483.3 | 484.6 | 484.9 | 484.1 | 483.9 | 481.3 | 478.8 | 475.6 | 474.0 | 473.1 |
| 50° | 475.2 | 478.1 | 478.9 | 479.2 | 478.7 | 478.3 | 475.8 | 473.4 | 469.9 | 468.6 | 467.4 |
| 50.5° | 469.6 | 472.7 | 473.6 | 473.8 | 473.3 | 472.6 | 470.2 | 467.8 | 464.2 | 462.7 | 461.8 |
| 51° | 463.7 | 467.0 | 467.9 | 468.0 | 467.8 | 467.0 | 464.5 | 462.3 | 458.4 | 456.9 | 455.9 |
| 51.5° | 458.3 | 461.4 | 462.4 | 462.5 | 462.0 | 461.4 | 458.6 | 456.6 | 453.0 | 451.5 | 450.3 |
| 52° | 452.5 | 455.6 | 456.7 | 456.9 | 456.4 | 455.6 | 453.1 | 451.0 | 447.5 | 445.5 | 444.7 |
| 52.5° | 446.5 | 449.8 | 450.8 | 450.9 | 450.4 | 450.1 | 447.5 | 445.4 | 441.6 | 439.9 | 438.8 |
| 53° | 440.4 | 443.9 | 445.0 | 445.0 | 444.5 | 444.3 | 441.8 | 439.3 | 435.6 | 433.9 | 433.0 |
| 53.5° | 435.0 | 438.1 | 439.3 | 439.5 | 439.0 | 438.5 | 435.9 | 433.5 | 429.7 | 428.1 | 427.3 |
| 54° | 429.3 | 432.2 | 433.4 | 433.5 | 433.3 | 432.5 | 430.1 | 427.5 | 424.3 | 422.1 | 421.2 |
| 54.5° | 423.5 | 426.2 | 427.7 | 427.5 | 427.6 | 426.8 | 424.3 | 421.8 | 418.3 | 416.0 | 415.1 |
| 55° | 417.2 | 420.5 | 421.7 | 421.5 | 421.7 | 420.7 | 418.4 | 415.8 | 412.2 | 410.3 | 409.5 |
| 55.5° | 411.4 | 414.4 | 415.8 | 415.5 | 415.7 | 414.9 | 412.4 | 410.3 | 406.2 | 404.7 | 403.2 |
| 56° | 405.6 | 408.4 | 409.8 | 409.6 | 409.9 | 408.8 | 406.3 | 403.9 | 400.1 | 398.4 | 397.0 |
| 56.5° | 399.5 | 402.3 | 403.7 | 403.6 | 403.9 | 402.7 | 400.1 | 398.1 | 394.0 | 392.1 | 390.9 |
| 57° | 393.1 | 396.2 | 397.7 | 397.5 | 397.9 | 396.7 | 394.2 | 391.9 | 388.2 | 386.0 | 384.6 |
| 57.5° | 387.1 | 390.1 | 391.6 | 391.3 | 391.7 | 390.5 | 387.9 | 385.7 | 381.8 | 379.7 | 378.6 |
| 58° | 381.0 | 384.1 | 385.5 | 385.3 | 385.4 | 384.4 | 381.8 | 379.4 | 375.7 | 373.6 | 372.4 |
| 58.5° | 374.9 | 378.1 | 379.4 | 379.1 | 379.3 | 378.3 | 375.7 | 373.4 | 369.7 | 367.5 | 366.2 |
| 59° | 368.5 | 371.7 | 373.1 | 372.7 | 373.3 | 371.9 | 369.4 | 366.9 | 363.4 | 361.5 | 360.1 |
| 59.5° | 362.3 | 365.3 | 366.8 | 366.5 | 367.0 | 365.7 | 363.1 | 360.6 | 357.0 | 354.6 | 353.6 |
| 60° | 355.9 | 359.0 | 360.3 | 360.1 | 360.6 | 359.3 | 356.6 | 354.1 | 350.9 | 348.4 | 347.2 |
| 60.5° | 349.6 | 352.5 | 354.0 | 353.8 | 354.4 | 353.2 | 350.5 | 348.0 | 344.5 | 342.2 | 341.0 |
| 61° | 343.5 | 346.3 | 347.7 | 347.5 | 348.2 | 346.6 | 344.1 | 341.7 | 338.1 | 335.9 | 334.7 |
| 61.5° | 336.9 | 339.8 | 341.3 | 341.3 | 341.9 | 340.2 | 337.7 | 335.4 | 331.8 | 329.3 | 328.2 |
| 62° | 330.4 | 333.4 | 335.1 | 335.0 | 335.5 | 334.0 | 331.3 | 328.9 | 325.5 | 322.8 | 321.4 |
| 62.5° | 323.9 | 327.1 | 328.4 | 328.4 | 329.0 | 327.5 | 324.7 | 322.3 | 318.7 | 316.5 | 315.0 |
| 63° | 317.4 | 320.6 | 321.7 | 321.8 | 322.5 | 321.0 | 318.2 | 315.7 | 312.3 | 309.9 | 308.5 |
| 63.5° | 310.8 | 313.8 | 315.2 | 315.3 | 316.1 | 314.7 | 311.9 | 309.4 | 305.7 | 303.2 | 301.9 |
| 64° | 304.5 | 307.4 | 308.6 | 308.6 | 309.4 | 307.8 | 305.3 | 302.7 | 299.2 | 296.6 | 295.4 |
| 64.5° | 297.9 | 301.0 | 302.1 | 302.4 | 303.1 | 301.5 | 298.7 | 296.0 | 292.6 | 290.0 | 288.5 |
| 65° | 291.2 | 294.2 | 295.5 | 295.8 | 296.3 | 294.9 | 292.0 | 289.3 | 286.1 | 283.4 | 282.1 |
| 65.5° | 284.6 | 287.5 | 288.8 | 289.0 | 289.6 | 288.3 | 285.5 | 282.7 | 279.6 | 276.8 | 275.5 |
| 66° | 278.1 | 280.9 | 282.2 | 282.2 | 283.0 | 281.5 | 278.6 | 275.9 | 272.6 | 270.3 | 269.1 |
| 66.5° | 271.2 | 274.3 | 275.5 | 275.6 | 276.6 | 274.7 | 272.2 | 269.3 | 266.1 | 263.5 | 262.2 |
| 67° | 264.5 | 267.6 | 268.9 | 269.0 | 269.9 | 268.4 | 265.5 | 262.5 | 259.4 | 256.7 | 255.3 |

TEST NUMBER: P869719
 CATALOG NUMBER: SMX18RLSFS2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 257.8 | 260.7 | 261.9 | 262.2 | 263.3 | 261.5 | 258.9 | 255.8 | 252.7 | 249.9 | 248.6 |
| 68° | 250.9 | 253.8 | 255.1 | 255.2 | 256.4 | 254.5 | 252.0 | 249.0 | 245.9 | 243.3 | 241.8 |
| 68.5° | 244.2 | 247.3 | 248.4 | 248.8 | 250.0 | 247.8 | 245.3 | 242.1 | 239.3 | 236.7 | 235.2 |
| 69° | 237.5 | 240.5 | 241.5 | 242.1 | 243.3 | 241.2 | 238.2 | 235.4 | 232.4 | 229.7 | 228.4 |
| 69.5° | 230.4 | 233.6 | 234.8 | 234.9 | 236.3 | 234.4 | 231.6 | 228.8 | 225.7 | 222.9 | 221.4 |
| 70° | 223.6 | 226.8 | 227.9 | 228.0 | 229.4 | 227.6 | 224.7 | 221.8 | 218.6 | 216.2 | 214.6 |
| 70.5° | 216.9 | 219.7 | 220.9 | 221.4 | 222.8 | 220.8 | 217.9 | 215.0 | 212.0 | 209.3 | 207.7 |
| 71° | 209.9 | 213.1 | 214.1 | 214.5 | 216.0 | 214.2 | 211.3 | 208.1 | 205.2 | 202.5 | 201.1 |
| 71.5° | 203.0 | 206.2 | 207.3 | 207.7 | 209.1 | 207.2 | 204.3 | 201.1 | 198.2 | 195.6 | 194.2 |
| 72° | 196.3 | 199.3 | 200.3 | 200.7 | 202.4 | 200.5 | 197.4 | 194.4 | 191.3 | 188.5 | 187.1 |
| 72.5° | 189.4 | 192.2 | 193.4 | 193.7 | 195.5 | 193.6 | 190.8 | 187.3 | 184.3 | 181.7 | 180.4 |
| 73° | 182.5 | 185.3 | 186.5 | 186.8 | 188.4 | 186.5 | 183.5 | 180.4 | 177.6 | 174.9 | 173.4 |
| 73.5° | 175.7 | 178.4 | 179.7 | 179.9 | 181.8 | 179.7 | 176.7 | 173.4 | 170.9 | 168.0 | 166.7 |
| 74° | 168.9 | 171.7 | 172.8 | 173.1 | 174.9 | 173.0 | 170.0 | 166.7 | 163.9 | 161.1 | 159.8 |
| 74.5° | 162.0 | 164.9 | 166.1 | 166.2 | 168.0 | 166.2 | 163.2 | 159.8 | 157.1 | 154.4 | 152.9 |
| 75° | 154.9 | 157.8 | 159.0 | 159.2 | 161.1 | 159.3 | 156.4 | 152.8 | 150.3 | 147.4 | 146.1 |
| 75.5° | 148.4 | 151.1 | 152.3 | 152.3 | 154.4 | 152.3 | 149.4 | 146.4 | 143.5 | 140.9 | 139.5 |
| 76° | 141.6 | 144.4 | 145.7 | 145.6 | 147.5 | 145.7 | 142.7 | 139.5 | 136.8 | 134.2 | 132.6 |
| 76.5° | 134.8 | 137.5 | 138.8 | 138.7 | 140.8 | 138.8 | 135.8 | 132.9 | 130.0 | 127.1 | 125.8 |
| 77° | 128.0 | 130.8 | 132.2 | 132.1 | 134.0 | 132.1 | 129.2 | 126.3 | 123.2 | 120.5 | 119.1 |
| 77.5° | 121.3 | 124.1 | 125.4 | 125.4 | 127.4 | 125.5 | 122.6 | 119.4 | 116.8 | 113.9 | 112.7 |
| 78° | 114.7 | 117.6 | 118.6 | 118.9 | 120.6 | 118.9 | 115.9 | 112.9 | 109.8 | 107.6 | 106.0 |
| 78.5° | 108.1 | 110.8 | 112.2 | 112.3 | 114.1 | 112.1 | 109.2 | 106.0 | 103.4 | 100.7 | 99.5 |
| 79° | 101.7 | 104.4 | 105.7 | 105.8 | 107.5 | 105.6 | 102.8 | 99.7 | 96.9 | 94.4 | 93.3 |
| 79.5° | 95.1 | 97.8 | 99.1 | 99.3 | 100.9 | 99.1 | 96.3 | 93.2 | 90.5 | 88.1 | 86.8 |
| 80° | 88.7 | 91.3 | 92.6 | 92.8 | 94.5 | 92.9 | 89.8 | 86.8 | 84.3 | 82.1 | 80.7 |
| 80.5° | 82.6 | 85.1 | 86.3 | 86.6 | 88.2 | 86.6 | 83.8 | 80.8 | 78.1 | 75.9 | 74.6 |
| 81° | 76.4 | 78.9 | 80.1 | 80.4 | 82.3 | 80.6 | 77.6 | 74.6 | 72.1 | 69.8 | 68.8 |
| 81.5° | 70.4 | 72.7 | 74.0 | 74.2 | 75.8 | 74.3 | 71.6 | 68.6 | 66.0 | 63.9 | 63.0 |
| 82° | 64.2 | 66.8 | 67.8 | 67.8 | 69.7 | 68.2 | 65.9 | 62.8 | 60.1 | 58.1 | 57.0 |
| 82.5° | 58.4 | 60.8 | 61.9 | 62.0 | 63.9 | 62.4 | 59.9 | 57.0 | 54.4 | 52.3 | 51.5 |
| 83° | 52.9 | 55.2 | 56.2 | 56.3 | 58.2 | 56.7 | 54.2 | 51.5 | 49.0 | 46.9 | 46.1 |
| 83.5° | 47.3 | 49.6 | 50.6 | 50.8 | 52.5 | 51.0 | 48.6 | 45.8 | 43.5 | 41.6 | 40.7 |
| 84° | 42.1 | 44.3 | 45.2 | 45.3 | 46.9 | 45.6 | 43.2 | 40.6 | 38.2 | 36.6 | 35.6 |
| 84.5° | 37.0 | 39.1 | 39.9 | 40.2 | 41.6 | 40.4 | 38.0 | 35.6 | 33.3 | 31.6 | 30.8 |
| 85° | 32.1 | 34.1 | 34.9 | 34.9 | 36.7 | 35.3 | 33.1 | 30.6 | 28.5 | 26.8 | 26.1 |
| 85.5° | 27.5 | 29.4 | 30.2 | 30.2 | 31.6 | 30.4 | 28.2 | 25.9 | 24.0 | 22.5 | 21.7 |
| 86° | 23.4 | 25.0 | 25.7 | 25.8 | 27.0 | 25.7 | 23.7 | 21.7 | 20.1 | 18.5 | 17.9 |
| 86.5° | 19.6 | 21.1 | 21.7 | 21.7 | 22.4 | 21.4 | 19.6 | 17.6 | 16.1 | 15.1 | 14.6 |
| 87° | 15.8 | 17.4 | 17.9 | 17.9 | 18.7 | 17.6 | 16.0 | 14.3 | 12.9 | 11.8 | 11.4 |
| 87.5° | 12.6 | 13.9 | 14.4 | 14.4 | 15.0 | 14.3 | 12.9 | 11.2 | 9.8 | 8.9 | 8.5 |
| 88° | 9.4 | 10.6 | 11.2 | 11.1 | 11.9 | 11.0 | 9.7 | 8.2 | 7.1 | 6.2 | 6.0 |
| 88.5° | 6.4 | 7.5 | 8.0 | 8.0 | 8.9 | 8.2 | 7.0 | 5.7 | 4.7 | 4.1 | 3.7 |
| 89° | 4.3 | 5.2 | 5.6 | 5.4 | 6.3 | 5.6 | 4.6 | 3.5 | 2.7 | 2.3 | 2.1 |
| 89.5° | 2.8 | 3.5 | 3.7 | 3.5 | 4.0 | 3.5 | 2.7 | 1.9 | 1.3 | 1.0 | 0.8 |

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



TEST NUMBER: P869719
CATALOG NUMBER: SMX18RLSFSD2W-2000LM-4000K

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: P869719
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 0° | 771.5 | 771.5 | 771.5 | 771.5 | 771.5 | 771.5 |
| 0.5° | 771.3 | 771.2 | 772.0 | 771.1 | 771.1 | 770.8 |
| 1° | 770.7 | 770.8 | 771.6 | 770.5 | 770.9 | 770.8 |
| 1.5° | 770.6 | 771.1 | 771.4 | 770.4 | 770.8 | 770.8 |
| 2° | 770.3 | 771.1 | 770.9 | 770.2 | 770.8 | 770.6 |
| 2.5° | 770.1 | 770.4 | 770.8 | 770.1 | 770.6 | 770.1 |
| 3° | 769.6 | 769.8 | 770.8 | 769.4 | 770.5 | 769.6 |
| 3.5° | 769.2 | 769.2 | 770.1 | 769.2 | 769.9 | 769.3 |
| 4° | 769.2 | 768.4 | 769.4 | 769.2 | 769.2 | 769.1 |
| 4.5° | 768.3 | 768.2 | 768.7 | 768.2 | 768.3 | 768.7 |
| 5° | 767.9 | 767.9 | 768.3 | 767.3 | 767.5 | 768.4 |
| 5.5° | 766.4 | 766.7 | 767.4 | 766.3 | 767.0 | 767.4 |
| 6° | 765.6 | 765.8 | 766.4 | 766.2 | 766.7 | 766.5 |
| 6.5° | 765.0 | 765.0 | 765.8 | 765.5 | 765.8 | 765.8 |
| 7° | 764.4 | 764.0 | 764.9 | 764.5 | 765.2 | 765.0 |
| 7.5° | 762.8 | 763.2 | 763.5 | 763.6 | 764.3 | 764.0 |
| 8° | 762.0 | 761.8 | 762.5 | 762.4 | 763.0 | 763.0 |
| 8.5° | 760.9 | 760.9 | 761.7 | 761.1 | 762.0 | 762.1 |
| 9° | 759.5 | 759.5 | 760.8 | 760.3 | 760.7 | 761.0 |
| 9.5° | 758.6 | 758.4 | 758.8 | 759.0 | 759.5 | 759.7 |
| 10° | 757.5 | 757.4 | 757.6 | 757.2 | 758.4 | 758.8 |
| 10.5° | 755.9 | 756.2 | 756.1 | 755.6 | 757.2 | 758.0 |
| 11° | 754.3 | 754.5 | 754.8 | 754.7 | 756.1 | 756.6 |
| 11.5° | 753.1 | 753.1 | 753.6 | 753.3 | 755.1 | 755.0 |
| 12° | 751.5 | 751.4 | 752.6 | 751.7 | 753.4 | 753.8 |
| 12.5° | 749.8 | 749.9 | 750.4 | 750.1 | 751.9 | 752.2 |
| 13° | 748.2 | 748.5 | 749.2 | 749.0 | 750.4 | 750.7 |
| 13.5° | 746.8 | 747.0 | 747.4 | 747.2 | 749.0 | 749.0 |
| 14° | 744.8 | 745.1 | 745.9 | 745.7 | 747.6 | 748.1 |
| 14.5° | 743.2 | 743.3 | 744.1 | 744.0 | 746.0 | 746.2 |
| 15° | 741.5 | 741.5 | 742.2 | 741.9 | 744.1 | 743.9 |
| 15.5° | 739.8 | 739.2 | 740.2 | 740.3 | 741.9 | 742.0 |
| 16° | 738.0 | 737.1 | 738.5 | 738.1 | 739.8 | 739.8 |
| 16.5° | 735.7 | 734.8 | 736.1 | 736.6 | 737.7 | 738.3 |
| 17° | 733.7 | 732.4 | 733.7 | 735.0 | 735.7 | 736.1 |
| 17.5° | 731.1 | 729.9 | 731.6 | 732.7 | 733.5 | 733.6 |
| 18° | 728.9 | 727.8 | 729.0 | 730.4 | 731.1 | 731.7 |
| 18.5° | 726.0 | 725.3 | 726.0 | 728.1 | 728.6 | 729.2 |
| 19° | 723.4 | 722.9 | 723.5 | 726.2 | 726.2 | 726.6 |
| 19.5° | 720.9 | 720.0 | 721.2 | 723.4 | 723.8 | 724.5 |
| 20° | 718.4 | 717.6 | 719.1 | 720.8 | 721.6 | 722.0 |
| 20.5° | 715.7 | 715.2 | 716.4 | 718.7 | 718.7 | 719.5 |
| 21° | 713.1 | 712.5 | 713.8 | 716.2 | 716.1 | 717.0 |
| 21.5° | 710.4 | 709.4 | 711.0 | 713.3 | 713.1 | 713.9 |
| 22° | 707.7 | 706.5 | 707.8 | 710.2 | 710.3 | 711.2 |

TEST NUMBER: P869719

CATALOG NUMBER: SMX18RLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 704.7 | 703.8 | 705.3 | 707.5 | 708.0 | 708.6 |
| 23° | 702.1 | 701.0 | 702.6 | 704.6 | 705.5 | 706.1 |
| 23.5° | 698.8 | 698.2 | 699.3 | 701.5 | 702.2 | 703.0 |
| 24° | 695.9 | 695.2 | 696.1 | 698.1 | 698.9 | 700.1 |
| 24.5° | 692.5 | 692.2 | 693.0 | 695.0 | 696.2 | 697.3 |
| 25° | 689.6 | 689.3 | 690.6 | 692.0 | 693.5 | 694.3 |
| 25.5° | 686.5 | 685.7 | 687.4 | 688.8 | 690.2 | 690.6 |
| 26° | 683.1 | 682.5 | 684.3 | 685.5 | 687.2 | 687.7 |
| 26.5° | 679.5 | 678.7 | 681.0 | 682.1 | 683.8 | 684.0 |
| 27° | 676.4 | 675.5 | 677.6 | 678.9 | 680.3 | 680.9 |
| 27.5° | 672.9 | 671.8 | 674.1 | 675.5 | 677.0 | 677.6 |
| 28° | 669.6 | 668.6 | 671.0 | 672.1 | 674.0 | 674.3 |
| 28.5° | 665.9 | 665.0 | 667.1 | 668.3 | 670.6 | 670.5 |
| 29° | 662.6 | 661.3 | 663.5 | 664.9 | 667.0 | 667.0 |
| 29.5° | 658.7 | 657.5 | 659.6 | 661.2 | 663.2 | 663.7 |
| 30° | 655.0 | 654.2 | 656.2 | 657.6 | 659.6 | 660.3 |
| 30.5° | 651.6 | 650.3 | 652.2 | 653.5 | 656.1 | 656.7 |
| 31° | 647.6 | 646.5 | 648.5 | 649.9 | 652.6 | 652.8 |
| 31.5° | 643.6 | 642.6 | 644.6 | 646.1 | 648.5 | 649.4 |
| 32° | 639.7 | 638.5 | 641.1 | 642.6 | 644.9 | 645.4 |
| 32.5° | 635.9 | 634.5 | 637.3 | 638.5 | 641.0 | 641.4 |
| 33° | 631.9 | 630.9 | 633.4 | 634.7 | 637.4 | 637.7 |
| 33.5° | 627.9 | 626.5 | 629.0 | 630.5 | 633.6 | 633.8 |
| 34° | 624.0 | 622.3 | 625.0 | 626.5 | 629.5 | 629.6 |
| 34.5° | 619.4 | 618.3 | 620.7 | 622.5 | 625.4 | 625.4 |
| 35° | 615.1 | 614.2 | 616.7 | 618.0 | 621.2 | 621.2 |
| 35.5° | 611.0 | 609.9 | 612.0 | 613.7 | 616.7 | 616.6 |
| 36° | 606.7 | 605.7 | 608.0 | 609.8 | 612.8 | 612.9 |
| 36.5° | 602.8 | 601.2 | 603.7 | 605.7 | 608.8 | 608.6 |
| 37° | 598.5 | 596.8 | 599.2 | 601.2 | 604.2 | 604.4 |
| 37.5° | 594.0 | 592.6 | 594.5 | 596.9 | 599.9 | 600.1 |
| 38° | 588.9 | 588.0 | 590.0 | 592.2 | 595.2 | 595.0 |
| 38.5° | 584.9 | 583.2 | 585.4 | 587.6 | 590.6 | 590.6 |
| 39° | 580.3 | 578.8 | 580.8 | 583.2 | 586.1 | 586.3 |
| 39.5° | 575.4 | 574.2 | 575.9 | 578.3 | 581.2 | 581.8 |
| 40° | 570.7 | 569.3 | 571.7 | 573.8 | 576.5 | 576.8 |
| 40.5° | 565.8 | 564.5 | 566.6 | 569.1 | 572.0 | 572.2 |
| 41° | 560.8 | 559.9 | 561.8 | 564.0 | 566.6 | 567.8 |
| 41.5° | 556.3 | 554.8 | 556.9 | 559.5 | 562.0 | 563.2 |
| 42° | 551.3 | 549.9 | 552.2 | 554.6 | 556.9 | 558.1 |
| 42.5° | 546.3 | 545.2 | 547.0 | 549.4 | 552.1 | 553.3 |
| 43° | 541.8 | 540.4 | 542.2 | 544.5 | 547.2 | 548.4 |
| 43.5° | 536.7 | 535.4 | 537.1 | 539.8 | 542.6 | 543.3 |
| 44° | 531.2 | 530.1 | 532.0 | 534.8 | 537.7 | 538.6 |
| 44.5° | 526.3 | 525.0 | 527.0 | 529.5 | 532.6 | 533.9 |

TEST NUMBER: P869719
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 45° | 521.2 | 519.7 | 521.9 | 524.7 | 527.3 | 528.5 |
| 45.5° | 516.3 | 514.5 | 516.9 | 519.6 | 521.8 | 523.0 |
| 46° | 510.6 | 509.1 | 511.6 | 514.1 | 516.6 | 518.3 |
| 46.5° | 505.4 | 504.0 | 506.2 | 508.9 | 511.5 | 512.9 |
| 47° | 500.1 | 498.4 | 500.6 | 503.3 | 506.2 | 507.9 |
| 47.5° | 494.4 | 493.1 | 495.5 | 498.3 | 500.9 | 502.1 |
| 48° | 489.0 | 487.5 | 489.7 | 492.7 | 495.4 | 497.0 |
| 48.5° | 483.6 | 482.1 | 484.3 | 487.4 | 490.3 | 491.8 |
| 49° | 478.1 | 477.0 | 478.9 | 481.8 | 485.0 | 486.1 |
| 49.5° | 472.5 | 471.3 | 473.4 | 476.5 | 479.3 | 480.6 |
| 50° | 467.0 | 465.5 | 467.6 | 470.7 | 473.8 | 475.2 |
| 50.5° | 461.2 | 459.9 | 462.0 | 465.3 | 468.2 | 469.6 |
| 51° | 455.6 | 454.4 | 456.3 | 459.7 | 462.6 | 463.7 |
| 51.5° | 450.0 | 448.6 | 450.4 | 453.8 | 456.8 | 458.3 |
| 52° | 444.1 | 442.6 | 444.9 | 447.9 | 451.0 | 452.5 |
| 52.5° | 438.1 | 437.1 | 439.3 | 442.2 | 445.0 | 446.5 |
| 53° | 432.7 | 431.1 | 433.4 | 436.4 | 439.6 | 440.4 |
| 53.5° | 426.7 | 425.2 | 427.5 | 430.6 | 433.5 | 435.0 |
| 54° | 420.6 | 419.2 | 421.5 | 424.5 | 427.5 | 429.3 |
| 54.5° | 414.7 | 413.2 | 415.5 | 418.6 | 421.6 | 423.5 |
| 55° | 409.1 | 407.4 | 409.8 | 412.8 | 415.5 | 417.2 |
| 55.5° | 402.9 | 401.5 | 403.9 | 406.7 | 410.0 | 411.4 |
| 56° | 396.7 | 395.5 | 397.6 | 401.0 | 404.0 | 405.6 |
| 56.5° | 390.6 | 389.3 | 391.6 | 394.8 | 397.8 | 399.5 |
| 57° | 384.8 | 383.0 | 385.4 | 388.7 | 391.4 | 393.1 |
| 57.5° | 378.5 | 377.1 | 379.3 | 382.2 | 385.3 | 387.1 |
| 58° | 372.2 | 370.7 | 373.1 | 376.1 | 379.1 | 381.0 |
| 58.5° | 366.0 | 364.4 | 366.9 | 369.9 | 373.0 | 374.9 |
| 59° | 359.8 | 358.2 | 360.6 | 363.5 | 366.6 | 368.5 |
| 59.5° | 353.3 | 351.6 | 354.1 | 357.2 | 360.2 | 362.3 |
| 60° | 347.1 | 345.3 | 347.9 | 350.9 | 353.8 | 355.9 |
| 60.5° | 340.8 | 339.2 | 341.1 | 344.6 | 347.5 | 349.6 |
| 61° | 334.3 | 332.7 | 335.1 | 338.1 | 341.1 | 343.5 |
| 61.5° | 327.8 | 326.3 | 328.7 | 331.8 | 334.9 | 336.9 |
| 62° | 321.4 | 319.8 | 322.2 | 325.2 | 328.4 | 330.4 |
| 62.5° | 315.0 | 313.4 | 315.6 | 318.7 | 321.8 | 323.9 |
| 63° | 308.3 | 306.7 | 309.0 | 311.9 | 315.2 | 317.4 |
| 63.5° | 301.9 | 300.2 | 302.4 | 305.3 | 308.6 | 310.8 |
| 64° | 295.1 | 293.3 | 295.7 | 299.0 | 302.1 | 304.5 |
| 64.5° | 288.4 | 286.9 | 289.2 | 292.1 | 295.4 | 297.9 |
| 65° | 282.0 | 280.5 | 282.5 | 285.3 | 288.9 | 291.2 |
| 65.5° | 275.2 | 273.6 | 276.0 | 278.8 | 282.1 | 284.6 |
| 66° | 268.5 | 267.1 | 269.1 | 272.2 | 275.5 | 278.1 |
| 66.5° | 261.9 | 259.9 | 262.5 | 265.3 | 268.7 | 271.2 |
| 67° | 254.9 | 253.4 | 255.6 | 258.5 | 262.0 | 264.5 |

TEST NUMBER: P869719
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 248.5 | 246.7 | 248.9 | 251.9 | 255.3 | 257.8 |
| 68° | 241.7 | 239.6 | 242.1 | 245.0 | 248.7 | 250.9 |
| 68.5° | 234.8 | 233.0 | 235.1 | 238.1 | 241.6 | 244.2 |
| 69° | 228.0 | 226.1 | 228.3 | 231.3 | 234.8 | 237.5 |
| 69.5° | 221.1 | 219.2 | 221.5 | 224.4 | 227.9 | 230.4 |
| 70° | 214.4 | 212.4 | 214.9 | 217.7 | 221.0 | 223.6 |
| 70.5° | 207.7 | 205.6 | 207.9 | 210.7 | 214.4 | 216.9 |
| 71° | 200.8 | 198.7 | 201.2 | 204.1 | 207.4 | 209.9 |
| 71.5° | 193.9 | 191.8 | 194.1 | 196.9 | 200.5 | 203.0 |
| 72° | 187.1 | 185.1 | 187.1 | 190.0 | 193.6 | 196.3 |
| 72.5° | 180.0 | 178.2 | 180.4 | 183.3 | 186.7 | 189.4 |
| 73° | 173.2 | 171.3 | 173.4 | 176.3 | 179.7 | 182.5 |
| 73.5° | 166.5 | 164.4 | 166.4 | 169.5 | 173.0 | 175.7 |
| 74° | 159.8 | 157.5 | 159.6 | 162.7 | 165.9 | 168.9 |
| 74.5° | 152.8 | 150.8 | 152.8 | 155.7 | 159.0 | 162.0 |
| 75° | 146.1 | 144.1 | 146.1 | 149.0 | 152.1 | 154.9 |
| 75.5° | 139.5 | 137.4 | 139.1 | 142.3 | 145.5 | 148.4 |
| 76° | 132.6 | 130.4 | 132.5 | 135.4 | 138.6 | 141.6 |
| 76.5° | 125.9 | 123.8 | 125.7 | 128.7 | 132.1 | 134.8 |
| 77° | 119.0 | 117.2 | 119.2 | 122.1 | 125.3 | 128.0 |
| 77.5° | 112.5 | 110.6 | 112.6 | 115.6 | 118.8 | 121.3 |
| 78° | 105.9 | 104.0 | 106.0 | 108.9 | 112.2 | 114.7 |
| 78.5° | 99.4 | 97.6 | 99.5 | 102.3 | 105.6 | 108.1 |
| 79° | 93.1 | 91.0 | 93.1 | 95.9 | 99.2 | 101.7 |
| 79.5° | 86.7 | 84.7 | 86.6 | 89.5 | 92.7 | 95.1 |
| 80° | 80.6 | 78.6 | 80.4 | 83.3 | 86.2 | 88.7 |
| 80.5° | 74.6 | 72.5 | 74.3 | 77.0 | 79.9 | 82.6 |
| 81° | 68.7 | 66.4 | 68.2 | 70.9 | 73.8 | 76.4 |
| 81.5° | 62.6 | 60.6 | 62.2 | 65.0 | 68.0 | 70.4 |
| 82° | 56.8 | 54.9 | 56.4 | 59.2 | 61.8 | 64.2 |
| 82.5° | 51.2 | 49.4 | 51.1 | 53.4 | 56.2 | 58.4 |
| 83° | 45.9 | 44.0 | 45.7 | 48.1 | 50.7 | 52.9 |
| 83.5° | 40.6 | 38.8 | 40.2 | 42.6 | 45.3 | 47.3 |
| 84° | 35.5 | 33.8 | 35.3 | 37.5 | 40.0 | 42.1 |
| 84.5° | 30.7 | 29.2 | 30.5 | 32.7 | 35.0 | 37.0 |
| 85° | 25.9 | 24.8 | 26.1 | 28.1 | 30.3 | 32.1 |
| 85.5° | 21.7 | 20.9 | 22.0 | 23.7 | 25.8 | 27.5 |
| 86° | 17.8 | 17.0 | 18.1 | 19.8 | 21.8 | 23.4 |
| 86.5° | 14.5 | 13.5 | 14.5 | 16.1 | 18.0 | 19.6 |
| 87° | 11.4 | 10.3 | 11.3 | 12.7 | 14.4 | 15.8 |
| 87.5° | 8.5 | 7.2 | 8.2 | 9.7 | 11.2 | 12.6 |
| 88° | 5.9 | 5.1 | 5.6 | 6.7 | 8.0 | 9.4 |
| 88.5° | 3.8 | 3.2 | 3.8 | 4.6 | 5.6 | 6.4 |
| 89° | 2.1 | 1.9 | 2.3 | 3.1 | 3.7 | 4.3 |
| 89.5° | 0.9 | 1.2 | 1.5 | 1.9 | 2.4 | 2.8 |

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869719
CATALOG NUMBER: SMX18RLSFSD2W-2000LM-4000K

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)