

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: P869704

Luminaire Tested: **SMX18RLSFS010-2000LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-08
 Report Number: P869704
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS010-2000LM-4000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

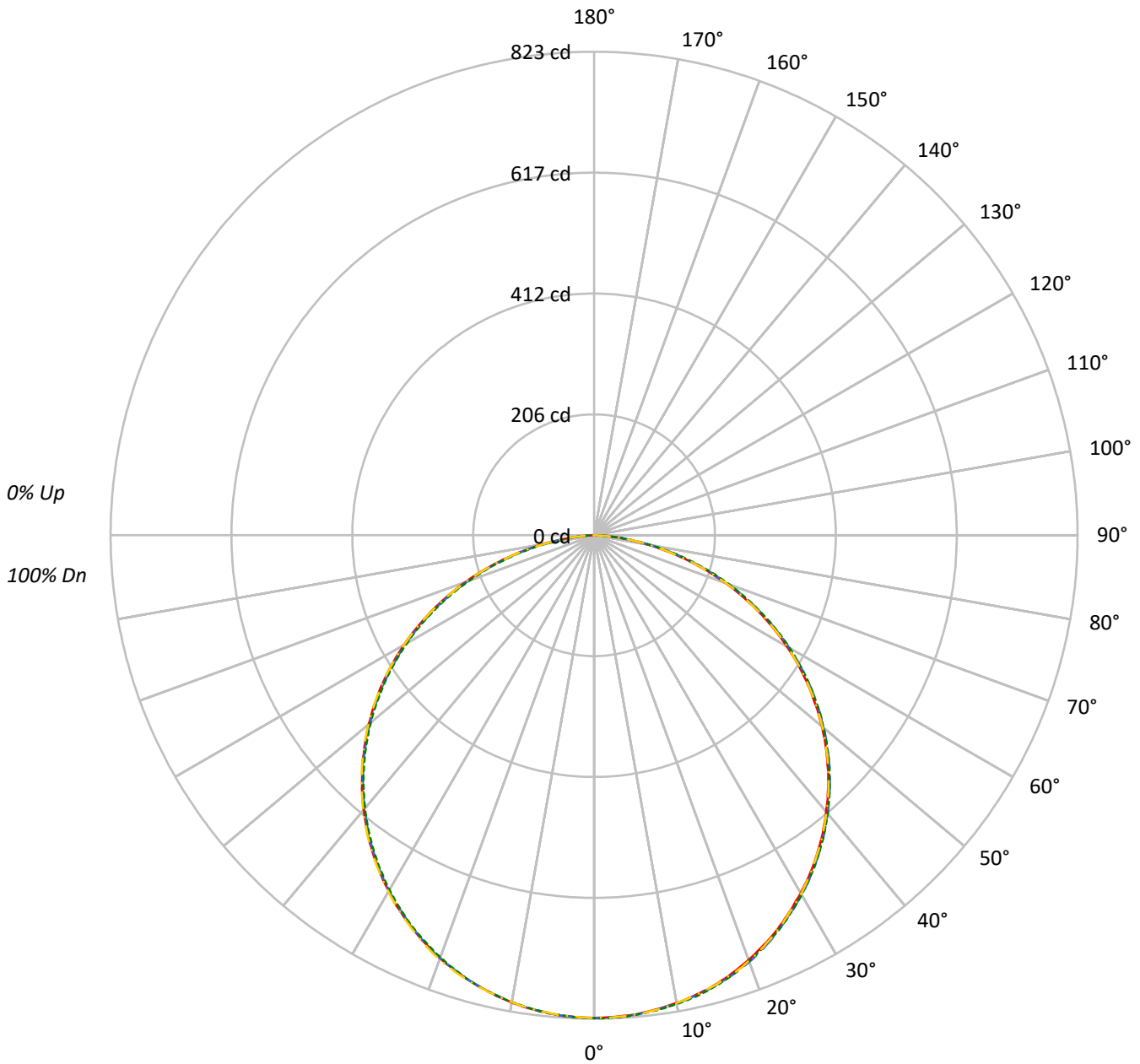
Lumens per Lamp: N/A
 Luminaire Lumens: 2399.3 lumens
 Efficiency: N/A
 Efficacy: 103.4 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 23.2
 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: P869704
CATALOG NUMBER: SMX18RLSFS010-2000LM-4000K

Luminous Intensity Polar Plot



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

TEST NUMBER: P869704
 CATALOG NUMBER: SMX18RLSFS010-2000LM-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	5007	5007	5007	5007
5°	5006	5009	5002	5002
10°	5001	5012	4996	4991
15°	4998	5013	4981	4982
20°	4987	5000	4967	4956
25°	4971	4986	4945	4936
30°	4948	4968	4921	4902
35°	4921	4946	4891	4866
40°	4886	4917	4852	4823
45°	4851	4882	4804	4770
50°	4798	4833	4745	4700
55°	4720	4771	4664	4610
60°	4620	4680	4555	4482
65°	4472	4550	4393	4307
70°	4242	4353	4148	4030
75°	3886	4041	3768	3613
80°	3315	3529	3150	2936
85°	2390	2733	2125	1845

TEST NUMBER: P869704
 CATALOG NUMBER: SMX18RLSFS010-2000LM-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	3.2
10°-20°	223.6	9.3
20°-30°	340.4	14.2
30°-40°	413.3	17.2
40°-50°	432.6	18.0
50°-60°	395.2	16.5
60°-70°	304.0	12.7
70°-80°	171.9	7.2
80°-90°	40.6	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°	641.7	26.7
0°-40°	1055.0	44.0
0°-60°	1882.8	78.5
0°-90°	2399.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2399.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	822	822	822	822	822	
5°	819	819	818	818	819	78
15°	793	795	790	790	793	224
25°	740	742	736	734	740	341
35°	662	665	658	654	662	414
45°	563	567	558	554	563	434
55°	444	449	439	434	444	397
65°	310	316	305	299	310	307
75°	165	172	160	154	165	175
85°	34	39	30	26	34	42
90°	0	0	0	0	0	

TEST NUMBER: P869704
 CATALOG NUMBER: SMX18RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0
0.5°	821.3	821.9	821.8	821.9	822.4	822.9	821.9	822.2	821.1	821.8	822.0
1°	821.3	822.0	821.7	822.2	822.6	822.7	821.3	821.7	821.3	821.6	821.7
1.5°	821.3	822.3	821.6	821.6	822.2	822.2	821.7	821.4	821.0	821.6	821.6
2°	821.0	821.9	821.5	821.3	821.9	822.2	821.6	821.2	820.8	821.1	820.9
2.5°	820.5	821.7	821.3	821.2	821.9	821.8	821.1	820.5	820.7	821.0	820.9
3°	820.0	821.3	821.3	820.7	821.3	821.0	820.8	820.2	819.8	821.2	820.2
3.5°	819.7	820.7	821.0	820.7	820.8	820.4	820.7	820.0	820.0	820.6	820.0
4°	819.4	820.3	820.3	820.1	820.8	820.3	820.0	819.7	819.7	819.6	819.5
4.5°	819.0	819.3	819.5	819.9	819.8	820.1	819.7	819.2	818.9	819.0	818.9
5°	818.7	818.6	818.7	819.2	819.2	819.4	819.1	818.0	818.0	818.3	818.4
5.5°	817.6	818.5	818.5	818.9	818.7	819.1	818.6	817.6	817.3	817.4	817.4
6°	816.7	817.7	817.1	818.0	818.1	818.2	817.4	817.1	816.2	816.4	815.8
6.5°	816.0	816.8	816.5	817.0	817.1	817.5	816.4	816.4	815.9	815.2	814.9
7°	815.0	815.6	815.7	815.9	816.1	816.6	815.4	815.0	814.7	814.7	814.3
7.5°	814.0	814.6	814.8	815.3	815.8	815.4	814.9	813.7	813.7	813.7	813.3
8°	813.0	813.7	813.6	814.0	814.7	814.6	814.1	813.1	812.5	812.3	812.2
8.5°	811.9	812.9	812.8	813.0	813.6	813.7	812.4	811.9	811.6	811.3	811.2
9°	810.8	811.9	811.4	812.0	812.3	812.6	811.3	810.8	810.1	810.0	809.8
9.5°	809.5	810.7	810.6	811.0	811.3	811.6	810.4	809.5	809.0	808.5	808.4
10°	808.5	809.4	809.2	809.5	810.4	810.2	808.9	807.9	807.7	806.9	806.7
10.5°	807.6	808.0	807.9	808.8	809.3	808.9	807.3	806.8	805.8	805.5	805.3
11°	806.1	806.5	806.6	807.4	807.8	807.5	806.0	805.3	804.3	804.5	803.5
11.5°	804.4	805.2	805.2	806.1	806.7	806.3	804.7	803.4	802.8	803.2	802.1
12°	803.1	803.9	803.7	804.8	805.1	804.7	803.4	801.9	801.4	801.0	800.5
12.5°	801.4	802.2	801.8	803.2	804.1	803.2	801.9	800.1	799.2	799.2	799.1
13°	799.8	800.9	800.4	802.0	802.5	801.8	800.1	798.3	797.7	797.4	797.2
13.5°	798.0	799.0	799.2	800.1	800.6	800.1	798.4	797.0	795.7	795.3	795.6
14°	797.1	797.4	797.5	798.9	798.9	798.4	796.3	795.2	793.8	793.7	793.8
14.5°	795.0	795.3	795.9	797.2	797.2	796.8	795.0	793.0	792.2	791.3	791.4
15°	792.6	793.3	794.2	794.6	794.9	794.6	793.2	791.2	789.9	789.6	789.6
15.5°	790.6	791.7	792.2	793.0	793.4	792.8	791.2	788.8	787.8	787.6	787.8
16°	788.3	790.2	790.7	791.0	790.8	791.0	789.4	786.6	785.9	785.6	785.7
16.5°	786.6	788.0	789.0	788.9	788.8	788.8	786.9	785.0	783.6	783.4	783.3
17°	784.2	785.6	786.9	786.7	786.8	786.6	784.9	782.8	781.1	780.9	780.6
17.5°	781.7	783.4	784.7	784.7	784.3	784.2	783.1	780.3	779.3	778.4	778.6
18°	779.6	781.1	782.4	781.7	781.9	781.7	781.3	778.0	776.8	776.0	776.3
18.5°	776.9	778.4	780.3	779.4	779.0	779.3	778.6	775.2	774.0	773.6	773.7
19°	774.2	776.2	777.9	776.9	776.6	776.5	776.5	773.0	771.7	770.8	771.5
19.5°	771.9	773.6	775.1	774.2	774.4	774.2	773.4	770.6	768.9	767.9	769.0
20°	769.3	771.3	772.7	771.1	771.4	771.5	770.9	767.7	766.3	765.6	766.2
20.5°	766.6	768.1	770.3	768.7	768.6	768.3	768.0	764.9	764.0	762.9	763.5
21°	763.9	765.1	767.6	766.0	766.1	765.2	766.0	762.2	761.2	760.0	760.7
21.5°	760.6	762.3	764.8	763.4	763.0	762.9	762.8	759.6	757.9	757.0	758.0
22°	757.7	759.4	761.9	760.3	760.3	759.8	760.0	757.0	754.6	753.9	755.1

TEST NUMBER: P869704
 CATALOG NUMBER: SMX18RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	755.0	756.6	758.8	757.3	757.3	756.7	757.0	753.9	751.8	750.6	751.5
23°	752.3	753.9	755.4	754.6	754.3	754.0	753.4	750.6	748.7	747.9	748.2
23.5°	749.0	751.2	752.7	751.7	751.4	751.2	750.6	747.7	745.5	745.2	744.7
24°	746.0	748.0	749.3	748.5	748.3	747.5	747.4	744.9	742.6	741.3	741.4
24.5°	743.0	744.9	745.7	745.2	745.5	743.9	743.9	741.6	739.3	738.1	738.5
25°	739.7	741.5	742.5	742.2	741.9	741.3	740.6	738.6	735.8	734.7	734.5
25.5°	735.8	738.0	739.0	739.1	738.8	738.4	737.1	735.5	732.6	731.5	731.0
26°	732.7	735.0	735.5	735.7	735.4	734.6	733.6	732.0	729.0	728.2	728.0
26.5°	728.7	731.5	732.1	732.0	732.1	731.1	729.9	728.6	725.7	724.7	724.1
27°	725.5	728.2	728.4	728.7	728.1	728.0	726.3	725.0	721.9	721.4	720.5
27.5°	721.9	724.9	725.0	725.8	725.0	724.0	722.5	721.6	718.3	718.1	717.1
28°	718.4	721.0	721.7	722.1	721.6	720.7	718.8	717.7	715.2	714.5	713.4
28.5°	714.4	717.7	717.6	718.3	717.8	717.2	715.6	714.4	711.5	710.6	709.9
29°	710.6	714.3	713.8	714.5	714.3	713.5	711.7	710.8	707.6	706.7	705.9
29.5°	707.2	710.5	710.5	711.1	710.2	709.5	708.1	707.2	703.7	702.8	702.2
30°	703.5	706.7	706.8	707.4	706.3	705.7	704.5	703.2	699.6	699.0	697.8
30.5°	699.6	703.1	702.9	703.5	702.5	702.0	700.8	699.5	695.7	695.3	694.2
31°	695.5	699.1	699.0	699.4	699.0	698.1	696.5	695.4	691.7	690.8	690.3
31.5°	691.9	694.8	694.9	695.6	694.8	693.8	692.6	691.1	687.8	686.7	686.1
32°	687.6	690.5	691.0	691.9	690.5	689.6	688.4	687.1	683.6	683.1	681.7
32.5°	683.4	686.5	686.6	687.9	686.4	686.0	684.1	683.2	679.4	679.0	677.8
33°	679.5	682.4	682.3	683.6	682.6	681.7	680.1	678.7	675.1	674.9	673.4
33.5°	675.3	678.3	678.4	679.2	678.8	677.7	675.6	674.4	670.7	670.6	669.0
34°	670.8	674.2	674.2	675.0	674.2	673.4	671.1	670.6	666.8	666.1	664.4
34.5°	666.4	669.8	669.7	670.6	669.6	669.2	667.0	666.3	662.5	661.6	660.1
35°	661.8	665.5	665.1	666.4	665.1	664.8	662.4	661.4	657.7	657.2	655.6
35.5°	657.0	660.9	660.9	662.2	660.8	660.3	658.0	657.0	653.2	652.9	651.2
36°	653.0	656.7	656.2	657.6	656.1	655.8	653.5	652.4	648.7	648.2	646.5
36.5°	648.4	652.0	651.8	652.9	651.4	651.2	648.9	647.9	644.1	644.0	642.2
37°	644.0	647.6	647.4	648.1	647.2	646.9	644.4	643.4	639.4	639.0	637.0
37.5°	639.3	642.6	642.6	643.7	642.8	642.2	639.8	638.8	634.7	633.8	632.2
38°	633.9	637.8	637.8	639.0	637.9	637.3	635.0	634.2	629.9	629.0	627.5
38.5°	629.3	632.9	633.2	634.4	633.1	632.4	630.2	629.5	624.9	623.7	622.8
39°	624.7	628.4	628.3	629.5	628.3	627.9	625.1	624.5	620.2	619.3	618.0
39.5°	619.9	623.0	623.5	624.6	623.5	622.8	620.4	619.6	615.1	614.5	613.2
40°	614.5	618.1	618.7	619.3	618.4	618.0	615.7	614.5	610.2	609.2	607.9
40.5°	609.6	613.1	613.6	614.5	613.5	613.2	611.1	609.0	605.3	603.8	603.1
41°	605.0	608.1	608.5	609.5	608.4	608.1	605.7	603.6	600.2	599.0	597.7
41.5°	600.0	602.9	603.6	604.3	603.5	602.8	600.9	598.7	595.3	593.7	592.8
42°	594.6	597.5	598.7	599.3	598.4	597.8	595.6	593.4	590.0	588.4	587.4
42.5°	589.5	592.6	593.7	593.9	593.1	592.7	590.6	587.9	584.7	583.4	582.1
43°	584.3	587.1	588.3	588.5	587.9	587.3	585.0	582.9	579.2	578.2	577.0
43.5°	578.8	582.0	582.8	583.5	582.6	581.9	579.4	577.5	573.9	573.0	571.7
44°	573.9	576.9	577.8	578.0	577.4	577.0	574.2	572.3	568.5	567.8	566.2
44.5°	568.8	571.6	572.6	572.8	572.2	571.5	568.9	566.7	563.2	562.3	560.9

TEST NUMBER: P869704
 CATALOG NUMBER: SMX18RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	563.1	565.6	567.3	567.6	566.7	566.1	563.6	561.2	557.7	556.6	555.3
45.5°	557.2	560.5	561.8	562.0	561.0	560.7	558.3	555.9	552.3	550.6	549.9
46°	552.3	555.0	556.1	556.3	555.5	555.1	552.7	550.4	546.7	545.2	544.3
46.5°	546.5	549.4	551.0	550.5	550.1	549.6	547.4	544.5	540.7	539.6	538.9
47°	541.1	543.8	545.1	545.3	544.4	544.0	541.6	539.3	535.3	534.1	533.2
47.5°	535.0	538.1	539.6	539.8	539.0	538.4	535.7	533.9	529.6	528.3	527.1
48°	529.5	532.6	533.7	533.9	533.2	532.9	530.3	527.9	524.1	522.5	521.3
48.5°	524.0	526.9	528.1	528.0	527.3	526.9	524.5	521.7	517.9	516.6	515.8
49°	517.9	520.9	522.1	522.4	521.6	521.2	518.4	516.0	512.5	510.8	509.6
49.5°	512.1	514.9	516.3	516.6	515.8	515.5	512.8	510.1	506.8	505.0	504.0
50°	506.3	509.4	510.3	510.6	510.0	509.6	507.0	504.4	500.7	499.3	498.0
50.5°	500.3	503.6	504.6	504.8	504.3	503.5	500.9	498.4	494.6	493.0	492.0
51°	494.1	497.5	498.5	498.6	498.4	497.5	494.9	492.5	488.4	486.8	485.8
51.5°	488.2	491.6	492.6	492.8	492.2	491.6	488.6	486.5	482.7	481.0	479.8
52°	482.2	485.4	486.6	486.8	486.3	485.4	482.8	480.5	476.8	474.7	473.8
52.5°	475.7	479.2	480.3	480.4	479.9	479.6	476.8	474.5	470.5	468.7	467.5
53°	469.2	473.0	474.2	474.2	473.6	473.4	470.7	468.0	464.1	462.3	461.3
53.5°	463.5	466.8	468.1	468.3	467.7	467.2	464.5	461.9	457.9	456.2	455.2
54°	457.4	460.5	461.7	461.8	461.7	460.8	458.2	455.5	452.0	449.7	448.8
54.5°	451.3	454.1	455.6	455.5	455.6	454.8	452.0	449.4	445.7	443.2	442.3
55°	444.5	448.0	449.3	449.1	449.3	448.3	445.8	443.0	439.2	437.1	436.3
55.5°	438.3	441.6	443.0	442.7	442.9	442.1	439.4	437.1	432.7	431.2	429.6
56°	432.1	435.1	436.6	436.4	436.7	435.6	432.9	430.3	426.3	424.5	423.0
56.5°	425.6	428.6	430.1	430.0	430.3	429.1	426.3	424.2	419.8	417.8	416.4
57°	418.8	422.1	423.7	423.6	423.9	422.7	420.0	417.6	413.6	411.3	409.7
57.5°	412.4	415.7	417.2	417.0	417.4	416.0	413.3	410.9	406.8	404.6	403.4
58°	406.0	409.2	410.7	410.5	410.6	409.6	406.8	404.3	400.3	398.1	396.8
58.5°	399.5	402.9	404.3	403.9	404.1	403.1	400.3	397.8	393.9	391.6	390.2
59°	392.6	396.0	397.5	397.1	397.7	396.2	393.6	390.9	387.2	385.1	383.7
59.5°	386.0	389.2	390.8	390.5	391.0	389.6	386.8	384.2	380.4	377.8	376.7
60°	379.2	382.5	383.9	383.7	384.2	382.8	379.9	377.3	373.9	371.2	369.9
60.5°	372.5	375.6	377.1	377.0	377.6	376.3	373.5	370.8	367.0	364.6	363.3
61°	366.0	369.0	370.5	370.2	371.0	369.3	366.6	364.1	360.2	357.8	356.6
61.5°	359.0	362.0	363.7	363.6	364.3	362.5	359.8	357.3	353.5	350.9	349.7
62°	352.0	355.2	357.0	356.9	357.5	355.9	353.0	350.4	346.8	343.9	342.5
62.5°	345.1	348.5	349.9	349.9	350.6	348.9	346.0	343.3	339.6	337.2	335.6
63°	338.2	341.5	342.7	342.9	343.6	342.1	339.1	336.4	332.7	330.1	328.7
63.5°	331.2	334.3	335.8	336.0	336.8	335.3	332.3	329.6	325.7	323.0	321.6
64°	324.4	327.6	328.8	328.8	329.7	328.0	325.2	322.5	318.8	316.1	314.7
64.5°	317.3	320.7	321.9	322.2	322.9	321.2	318.3	315.4	311.8	309.0	307.4
65°	310.3	313.5	314.9	315.2	315.7	314.2	311.1	308.3	304.8	302.0	300.5
65.5°	303.2	306.4	307.7	307.9	308.5	307.1	304.1	301.2	297.9	295.0	293.6
66°	296.3	299.3	300.6	300.7	301.6	299.9	296.8	293.9	290.5	288.0	286.7
66.5°	289.0	292.2	293.6	293.7	294.7	292.7	290.0	286.9	283.5	280.7	279.3
67°	281.8	285.1	286.5	286.6	287.6	285.9	282.9	279.7	276.3	273.5	272.0

TEST NUMBER: P869704
 CATALOG NUMBER: SMX18RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	274.7	277.8	279.1	279.3	280.5	278.6	275.8	272.6	269.2	266.2	264.8
68°	267.3	270.4	271.8	271.9	273.2	271.2	268.5	265.3	262.0	259.3	257.6
68.5°	260.2	263.5	264.7	265.1	266.4	264.1	261.3	258.0	255.0	252.2	250.6
69°	253.1	256.3	257.3	258.0	259.2	257.0	253.8	250.9	247.6	244.8	243.4
69.5°	245.5	248.9	250.2	250.3	251.7	249.7	246.7	243.8	240.5	237.5	235.8
70°	238.2	241.6	242.8	243.0	244.4	242.5	239.4	236.3	232.9	230.4	228.6
70.5°	231.1	234.1	235.3	235.8	237.4	235.2	232.2	229.1	225.9	223.0	221.3
71°	223.7	227.1	228.1	228.6	230.2	228.2	225.1	221.7	218.6	215.8	214.2
71.5°	216.3	219.7	220.8	221.3	222.8	220.7	217.7	214.3	211.2	208.4	206.9
72°	209.2	212.3	213.5	213.9	215.6	213.6	210.4	207.1	203.8	200.8	199.4
72.5°	201.8	204.8	206.1	206.4	208.3	206.2	203.2	199.6	196.4	193.6	192.2
73°	194.4	197.4	198.7	199.0	200.8	198.7	195.5	192.2	189.3	186.3	184.8
73.5°	187.2	190.1	191.5	191.7	193.7	191.5	188.3	184.8	182.1	179.0	177.6
74°	179.9	182.9	184.1	184.5	186.3	184.3	181.1	177.6	174.7	171.7	170.3
74.5°	172.6	175.7	177.0	177.1	179.0	177.1	173.9	170.2	167.4	164.5	162.9
75°	165.1	168.2	169.4	169.6	171.7	169.7	166.6	162.8	160.1	157.1	155.6
75.5°	158.1	160.9	162.3	162.2	164.6	162.3	159.2	156.0	152.9	150.1	148.6
76°	150.8	153.8	155.2	155.1	157.2	155.2	152.0	148.7	145.8	142.9	141.3
76.5°	143.6	146.5	147.9	147.7	150.1	147.9	144.6	141.6	138.5	135.4	134.0
77°	136.4	139.4	140.9	140.7	142.8	140.8	137.6	134.5	131.3	128.4	126.9
77.5°	129.2	132.2	133.6	133.6	135.7	133.7	130.6	127.2	124.4	121.4	120.0
78°	122.3	125.3	126.4	126.6	128.5	126.6	123.5	120.3	117.0	114.6	113.0
78.5°	115.1	118.1	119.5	119.7	121.6	119.4	116.3	113.0	110.2	107.3	106.0
79°	108.4	111.3	112.6	112.7	114.5	112.5	109.6	106.2	103.2	100.5	99.4
79.5°	101.3	104.2	105.6	105.8	107.5	105.6	102.6	99.3	96.4	93.9	92.5
80°	94.5	97.3	98.7	98.8	100.6	99.0	95.7	92.5	89.8	87.5	86.0
80.5°	88.0	90.7	92.0	92.3	93.9	92.2	89.3	86.1	83.2	80.8	79.5
81°	81.4	84.1	85.4	85.7	87.7	85.9	82.7	79.5	76.9	74.4	73.3
81.5°	75.0	77.5	78.8	79.0	80.7	79.2	76.3	73.1	70.4	68.1	67.1
82°	68.4	71.1	72.2	72.2	74.2	72.7	70.2	66.9	64.0	61.9	60.7
82.5°	62.2	64.8	66.0	66.1	68.0	66.5	63.8	60.7	58.0	55.8	54.8
83°	56.4	58.8	59.9	60.0	62.0	60.4	57.7	54.8	52.2	50.0	49.1
83.5°	50.4	52.8	54.0	54.1	55.9	54.3	51.8	48.8	46.3	44.4	43.3
84°	44.9	47.2	48.1	48.3	49.9	48.6	46.1	43.2	40.7	39.0	37.9
84.5°	39.5	41.7	42.6	42.8	44.4	43.1	40.5	37.9	35.4	33.6	32.8
85°	34.2	36.4	37.2	37.2	39.1	37.7	35.3	32.6	30.4	28.6	27.8
85.5°	29.3	31.3	32.2	32.2	33.6	32.3	30.0	27.6	25.6	24.0	23.2
86°	24.9	26.7	27.4	27.5	28.7	27.4	25.2	23.1	21.4	19.7	19.0
86.5°	20.8	22.5	23.2	23.2	23.9	22.8	20.9	18.8	17.2	16.0	15.5
87°	16.8	18.5	19.0	19.0	19.9	18.7	17.1	15.3	13.7	12.5	12.1
87.5°	13.4	14.8	15.4	15.4	16.0	15.3	13.7	11.9	10.5	9.5	9.0
88°	10.0	11.3	11.9	11.8	12.7	11.8	10.4	8.8	7.5	6.6	6.4
88.5°	6.8	8.0	8.5	8.5	9.4	8.8	7.5	6.1	5.0	4.4	3.9
89°	4.6	5.6	5.9	5.7	6.7	6.0	4.9	3.8	2.9	2.4	2.2
89.5°	3.0	3.7	3.9	3.8	4.3	3.7	2.8	2.0	1.4	1.0	0.9

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



TEST NUMBER: P869704
CATALOG NUMBER: SMX18RLSFS010-2000LM-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: P869704
 CATALOG NUMBER: SMX18RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	822.0	822.0	822.0	822.0	822.0	822.0
0.5°	821.8	821.7	822.6	821.6	821.6	821.3
1°	821.1	821.2	822.1	821.0	821.4	821.3
1.5°	821.0	821.6	821.9	820.9	821.3	821.3
2°	820.7	821.6	821.4	820.6	821.3	821.0
2.5°	820.5	820.9	821.2	820.5	821.0	820.5
3°	819.9	820.2	821.2	819.8	821.0	820.0
3.5°	819.6	819.6	820.5	819.6	820.3	819.7
4°	819.6	818.7	819.8	819.5	819.5	819.4
4.5°	818.6	818.5	819.1	818.5	818.6	819.0
5°	818.1	818.1	818.6	817.5	817.7	818.7
5.5°	816.6	816.8	817.6	816.5	817.2	817.6
6°	815.7	816.0	816.6	816.3	816.8	816.7
6.5°	815.0	815.0	815.9	815.6	815.9	816.0
7°	814.4	814.0	814.9	814.5	815.3	815.0
7.5°	812.7	813.1	813.5	813.6	814.3	814.0
8°	811.9	811.7	812.5	812.3	813.0	813.0
8.5°	810.7	810.7	811.6	810.9	811.9	811.9
9°	809.2	809.2	810.6	810.1	810.5	810.8
9.5°	808.3	808.0	808.5	808.7	809.2	809.5
10°	807.1	807.0	807.1	806.8	808.0	808.5
10.5°	805.4	805.7	805.6	805.1	806.7	807.6
11°	803.7	803.9	804.2	804.1	805.6	806.1
11.5°	802.4	802.4	802.9	802.6	804.5	804.4
12°	800.7	800.6	801.8	800.9	802.8	803.1
12.5°	798.9	799.0	799.5	799.2	801.1	801.4
13°	797.2	797.4	798.2	798.0	799.5	799.8
13.5°	795.6	795.9	796.3	796.1	798.0	798.0
14°	793.5	793.8	794.7	794.5	796.5	797.1
14.5°	791.9	792.0	792.8	792.7	794.9	795.0
15°	790.0	790.0	790.8	790.5	792.8	792.6
15.5°	788.3	787.6	788.7	788.8	790.4	790.6
16°	786.3	785.3	786.8	786.5	788.3	788.3
16.5°	783.9	782.9	784.3	784.8	786.0	786.6
17°	781.7	780.3	781.7	783.1	783.8	784.2
17.5°	779.0	777.7	779.5	780.6	781.5	781.7
18°	776.6	775.4	776.7	778.2	779.0	779.6
18.5°	773.5	772.8	773.5	775.7	776.3	776.9
19°	770.8	770.3	770.9	773.7	773.7	774.2
19.5°	768.1	767.2	768.4	770.8	771.2	771.9
20°	765.4	764.6	766.2	768.0	768.9	769.3
20.5°	762.5	762.0	763.3	765.7	765.8	766.6
21°	759.8	759.1	760.6	763.1	763.0	763.9
21.5°	756.9	755.8	757.6	760.0	759.8	760.6
22°	754.0	752.7	754.1	756.7	756.8	757.7

TEST NUMBER: P869704
 CATALOG NUMBER: SMX18RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	750.9	749.8	751.5	753.8	754.3	755.0
23°	748.0	746.9	748.6	750.7	751.7	752.3
23.5°	744.5	743.9	745.0	747.4	748.2	749.0
24°	741.4	740.7	741.7	743.8	744.6	746.0
24.5°	737.8	737.5	738.3	740.5	741.8	743.0
25°	734.7	734.4	735.8	737.3	738.8	739.7
25.5°	731.4	730.6	732.4	733.9	735.4	735.8
26°	727.8	727.2	729.1	730.4	732.2	732.7
26.5°	724.0	723.1	725.6	726.8	728.6	728.7
27°	720.7	719.7	721.9	723.3	724.9	725.5
27.5°	717.0	715.8	718.3	719.7	721.3	721.9
28°	713.5	712.3	714.9	716.1	718.1	718.4
28.5°	709.5	708.6	710.8	712.0	714.5	714.4
29°	706.0	704.6	706.9	708.4	710.6	710.6
29.5°	701.8	700.6	702.8	704.4	706.6	707.2
30°	697.8	697.0	699.1	700.7	702.8	703.5
30.5°	694.2	692.9	694.9	696.3	699.0	699.6
31°	690.0	688.8	691.0	692.4	695.4	695.5
31.5°	685.7	684.6	686.8	688.4	691.0	691.9
32°	681.5	680.3	683.1	684.6	687.1	687.6
32.5°	677.5	676.0	679.0	680.3	682.9	683.4
33°	673.3	672.2	674.8	676.2	679.1	679.5
33.5°	669.0	667.6	670.2	671.8	675.1	675.3
34°	664.9	663.0	665.9	667.6	670.7	670.8
34.5°	659.9	658.7	661.4	663.3	666.4	666.4
35°	655.4	654.4	657.1	658.5	661.8	661.8
35.5°	651.0	649.8	652.0	653.9	657.1	657.0
36°	646.5	645.3	647.8	649.7	652.9	653.0
36.5°	642.2	640.5	643.2	645.3	648.6	648.4
37°	637.7	635.8	638.5	640.5	643.8	644.0
37.5°	632.9	631.4	633.4	636.0	639.2	639.3
38°	627.5	626.5	628.6	630.9	634.2	633.9
38.5°	623.2	621.4	623.7	626.0	629.3	629.3
39°	618.3	616.7	618.8	621.4	624.5	624.7
39.5°	613.1	611.8	613.6	616.2	619.3	619.9
40°	608.1	606.6	609.1	611.4	614.2	614.5
40.5°	602.9	601.5	603.7	606.4	609.5	609.6
41°	597.5	596.5	598.6	600.9	603.6	605.0
41.5°	592.7	591.1	593.3	596.1	598.7	600.0
42°	587.4	585.9	588.4	590.9	593.3	594.6
42.5°	582.0	580.9	582.8	585.4	588.2	589.5
43°	577.2	575.8	577.7	580.1	583.0	584.3
43.5°	571.8	570.4	572.2	575.2	578.1	578.8
44°	566.0	564.8	566.8	569.8	572.9	573.9
44.5°	560.7	559.4	561.5	564.2	567.4	568.8

TEST NUMBER: P869704
 CATALOG NUMBER: SMX18RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	555.3	553.7	556.0	559.0	561.8	563.1
45.5°	550.1	548.1	550.7	553.6	555.9	557.2
46°	544.0	542.4	545.1	547.7	550.4	552.3
46.5°	538.4	537.0	539.4	542.2	545.0	546.5
47°	532.9	531.0	533.4	536.3	539.4	541.1
47.5°	526.8	525.4	527.9	530.9	533.6	535.0
48°	521.0	519.4	521.8	525.0	527.8	529.5
48.5°	515.3	513.6	516.0	519.3	522.4	524.0
49°	509.4	508.2	510.3	513.3	516.7	517.9
49.5°	503.4	502.1	504.4	507.6	510.6	512.1
50°	497.5	496.0	498.2	501.5	504.8	506.3
50.5°	491.4	490.1	492.3	495.8	498.8	500.3
51°	485.4	484.1	486.2	489.8	492.9	494.1
51.5°	479.5	478.0	479.9	483.5	486.7	488.2
52°	473.1	471.6	474.0	477.2	480.5	482.2
52.5°	466.8	465.7	468.0	471.2	474.2	475.7
53°	461.1	459.3	461.7	464.9	468.3	469.2
53.5°	454.6	453.0	455.5	458.8	461.9	463.5
54°	448.2	446.6	449.0	452.3	455.5	457.4
54.5°	441.8	440.3	442.7	446.0	449.2	451.3
55°	435.9	434.1	436.6	439.8	442.7	444.5
55.5°	429.3	427.8	430.3	433.3	436.9	438.3
56°	422.7	421.4	423.6	427.2	430.4	432.1
56.5°	416.2	414.8	417.2	420.6	423.8	425.6
57°	410.0	408.1	410.6	414.1	417.0	418.8
57.5°	403.2	401.8	404.1	407.3	410.5	412.4
58°	396.5	395.0	397.5	400.7	403.9	406.0
58.5°	389.9	388.2	391.0	394.1	397.4	399.5
59°	383.3	381.6	384.2	387.3	390.6	392.6
59.5°	376.5	374.7	377.3	380.6	383.8	386.0
60°	369.8	367.9	370.6	373.9	377.0	379.2
60.5°	363.1	361.4	363.4	367.2	370.2	372.5
61°	356.2	354.5	357.0	360.2	363.4	366.0
61.5°	349.3	347.6	350.2	353.6	356.8	359.0
62°	342.4	340.8	343.3	346.5	349.9	352.0
62.5°	335.6	333.9	336.3	339.6	342.8	345.1
63°	328.5	326.8	329.2	332.3	335.9	338.2
63.5°	321.6	319.8	322.2	325.3	328.8	331.2
64°	314.4	312.5	315.0	318.5	321.9	324.4
64.5°	307.3	305.7	308.1	311.3	314.8	317.3
65°	300.4	298.8	301.0	304.0	307.8	310.3
65.5°	293.2	291.5	294.1	297.0	300.5	303.2
66°	286.1	284.6	286.7	290.0	293.5	296.3
66.5°	279.0	276.9	279.7	282.7	286.3	289.0
67°	271.6	270.0	272.3	275.4	279.2	281.8

TEST NUMBER: P869704
 CATALOG NUMBER: SMX18RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	264.8	262.9	265.2	268.4	272.0	274.7
68°	257.6	255.3	258.0	261.1	264.9	267.3
68.5°	250.2	248.3	250.5	253.7	257.5	260.2
69°	243.0	240.9	243.2	246.4	250.2	253.1
69.5°	235.6	233.5	236.0	239.1	242.8	245.5
70°	228.5	226.3	229.0	232.0	235.4	238.2
70.5°	221.3	219.0	221.5	224.5	228.4	231.1
71°	214.0	211.7	214.4	217.5	221.0	223.7
71.5°	206.6	204.4	206.8	209.8	213.6	216.3
72°	199.3	197.2	199.3	202.5	206.2	209.2
72.5°	191.8	189.9	192.2	195.3	199.0	201.8
73°	184.5	182.5	184.7	187.9	191.5	194.4
73.5°	177.4	175.2	177.3	180.6	184.3	187.2
74°	170.2	167.8	170.0	173.3	176.7	179.9
74.5°	162.8	160.7	162.7	165.8	169.4	172.6
75°	155.6	153.5	155.6	158.7	162.1	165.1
75.5°	148.7	146.4	148.3	151.6	155.0	158.1
76°	141.3	139.0	141.1	144.2	147.6	150.8
76.5°	134.1	131.9	133.9	137.1	140.7	143.6
77°	126.8	124.8	127.0	130.1	133.5	136.4
77.5°	119.9	117.8	119.9	123.2	126.5	129.2
78°	112.8	110.8	113.0	116.0	119.5	122.3
78.5°	106.0	104.0	106.0	109.0	112.6	115.1
79°	99.2	96.9	99.2	102.2	105.7	108.4
79.5°	92.4	90.3	92.3	95.3	98.7	101.3
80°	85.9	83.7	85.6	88.7	91.9	94.5
80.5°	79.4	77.2	79.2	82.0	85.1	88.0
81°	73.2	70.8	72.7	75.6	78.7	81.4
81.5°	66.7	64.5	66.3	69.2	72.4	75.0
82°	60.5	58.5	60.1	63.1	65.9	68.4
82.5°	54.6	52.6	54.4	56.9	59.9	62.2
83°	48.9	46.8	48.6	51.2	54.0	56.4
83.5°	43.2	41.4	42.8	45.4	48.3	50.4
84°	37.8	36.0	37.6	40.0	42.6	44.9
84.5°	32.7	31.1	32.5	34.8	37.3	39.5
85°	27.6	26.4	27.8	29.9	32.3	34.2
85.5°	23.1	22.2	23.4	25.2	27.5	29.3
86°	19.0	18.1	19.3	21.1	23.2	24.9
86.5°	15.4	14.4	15.4	17.2	19.1	20.8
87°	12.2	11.0	12.0	13.6	15.4	16.8
87.5°	9.0	7.6	8.8	10.3	11.9	13.4
88°	6.3	5.4	5.9	7.1	8.5	10.0
88.5°	4.0	3.4	4.0	4.9	5.9	6.8
89°	2.2	2.1	2.5	3.3	3.9	4.6
89.5°	0.9	1.3	1.6	2.1	2.6	3.0

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869704
CATALOG NUMBER: SMX18RLSFS010-2000LM-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)