

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: P869700

Luminaire Tested: **SMX18RLSFS010-1500LM-5000K**

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: P869700
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS010-1500LM-5000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

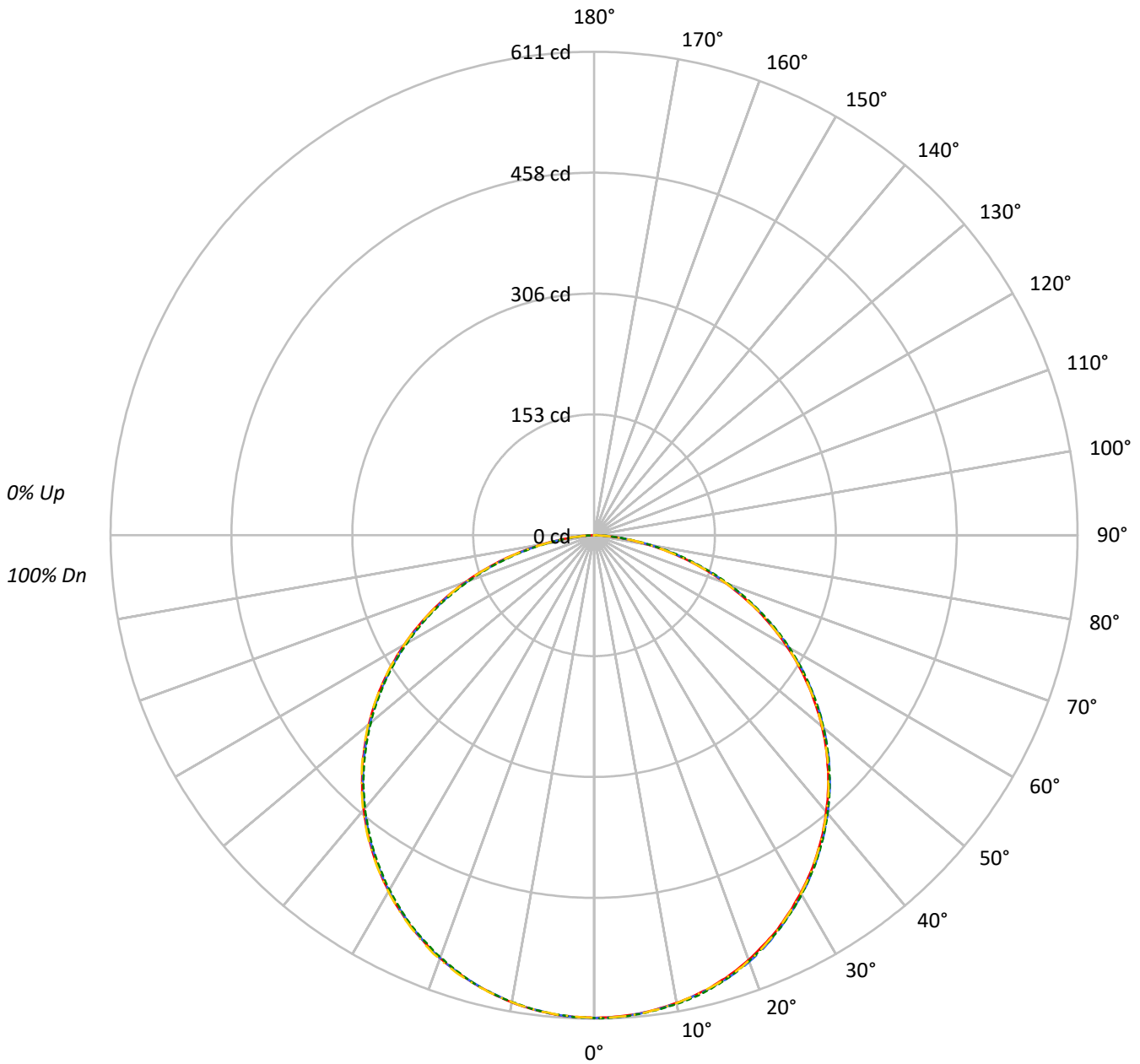
Lumens per Lamp: N/A
 Luminaire Lumens: 1780.9 lumens
 Efficiency: N/A
 Efficacy: 109.3 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 16.3
 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: P869700
CATALOG NUMBER: SMX18RLSFS010-1500LM-5000K

Luminous Intensity Polar Plot



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

TEST NUMBER: P869700
 CATALOG NUMBER: SMX18RLSFS010-1500LM-5000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3716	3716	3716	3716
5°	3716	3718	3712	3713
10°	3712	3720	3708	3705
15°	3710	3721	3697	3698
20°	3701	3712	3687	3679
25°	3690	3700	3671	3664
30°	3673	3688	3652	3638
35°	3653	3671	3630	3612
40°	3627	3650	3602	3580
45°	3600	3624	3565	3540
50°	3561	3588	3521	3488
55°	3503	3542	3462	3422
60°	3429	3474	3381	3327
65°	3319	3377	3262	3197
70°	3149	3231	3079	2992
75°	2883	2998	2796	2681
80°	2462	2620	2340	2182
85°	1775	2027	1572	1370

TEST NUMBER: P869700
 CATALOG NUMBER: SMX18RLSFS010-1500LM-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	3.2
10°-20°	165.9	9.3
20°-30°	252.6	14.2
30°-40°	306.8	17.2
40°-50°	321.1	18.0
50°-60°	293.3	16.5
60°-70°	225.6	12.7
70°-80°	127.6	7.2
80°-90°	30.1	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°	476.3	26.7
0°-40°	783.1	44.0
0°-60°	1397.5	78.5
0°-90°	1780.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1780.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	610	610	610	610	610	
5°	608	608	607	607	608	58
15°	588	590	586	586	588	166
25°	549	551	546	545	549	253
35°	491	494	488	486	491	307
45°	418	421	414	411	418	322
55°	330	334	326	322	330	295
65°	230	234	226	222	230	228
75°	122	127	119	114	122	130
85°	25	29	22	20	25	31
90°	0	0	0	0	0	

TEST NUMBER: P869700
 CATALOG NUMBER: SMX18RLSFS010-1500LM-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1
0.5°	609.6	610.1	610.0	610.1	610.4	610.8	610.1	610.3	609.5	610.0	610.1
1°	609.6	610.1	609.9	610.3	610.6	610.6	609.6	609.9	609.6	609.9	609.9
1.5°	609.6	610.4	609.9	609.9	610.3	610.3	609.9	609.7	609.4	609.9	609.8
2°	609.4	610.1	609.7	609.6	610.1	610.3	609.8	609.6	609.2	609.5	609.3
2.5°	609.0	609.9	609.6	609.6	610.1	610.0	609.5	609.0	609.2	609.4	609.3
3°	608.7	609.6	609.6	609.2	609.6	609.4	609.2	608.8	608.5	609.6	608.8
3.5°	608.4	609.2	609.4	609.2	609.2	609.0	609.2	608.7	608.7	609.1	608.7
4°	608.2	608.9	608.9	608.7	609.2	608.9	608.7	608.4	608.4	608.3	608.3
4.5°	607.9	608.2	608.3	608.6	608.5	608.7	608.4	608.0	607.8	607.9	607.8
5°	607.7	607.6	607.7	608.1	608.0	608.2	608.0	607.2	607.1	607.4	607.5
5.5°	606.9	607.5	607.5	607.8	607.7	608.0	607.6	606.9	606.6	606.7	606.8
6°	606.2	606.9	606.5	607.1	607.3	607.3	606.8	606.5	605.9	606.0	605.5
6.5°	605.7	606.2	606.1	606.4	606.5	606.8	606.0	606.0	605.6	605.1	604.9
7°	605.0	605.4	605.5	605.6	605.7	606.1	605.2	605.0	604.7	604.7	604.5
7.5°	604.2	604.7	604.8	605.2	605.5	605.2	604.9	604.0	604.0	603.9	603.7
8°	603.4	603.9	603.9	604.2	604.7	604.7	604.3	603.6	603.1	602.9	602.9
8.5°	602.7	603.4	603.3	603.4	603.9	604.0	603.0	602.7	602.4	602.2	602.1
9°	601.8	602.6	602.3	602.7	602.9	603.2	602.2	601.8	601.3	601.2	601.1
9.5°	600.8	601.8	601.7	602.0	602.2	602.4	601.5	600.9	600.5	600.1	600.1
10°	600.1	600.8	600.6	600.9	601.5	601.4	600.4	599.7	599.5	598.9	598.8
10.5°	599.4	599.7	599.7	600.3	600.7	600.4	599.2	598.9	598.1	597.9	597.7
11°	598.3	598.7	598.7	599.3	599.6	599.4	598.3	597.8	597.0	597.1	596.4
11.5°	597.1	597.6	597.6	598.3	598.8	598.5	597.3	596.3	595.9	596.2	595.4
12°	596.1	596.7	596.6	597.4	597.6	597.3	596.3	595.2	594.8	594.5	594.2
12.5°	594.8	595.4	595.2	596.2	596.8	596.2	595.2	593.9	593.3	593.2	593.1
13°	593.7	594.5	594.1	595.3	595.7	595.2	593.9	592.6	592.1	591.9	591.7
13.5°	592.4	593.1	593.2	593.9	594.3	593.9	592.6	591.6	590.6	590.3	590.6
14°	591.7	591.9	592.0	593.0	593.0	592.6	591.1	590.3	589.2	589.1	589.2
14.5°	590.1	590.3	590.8	591.7	591.7	591.4	590.1	588.6	588.0	587.3	587.5
15°	588.3	588.9	589.5	589.8	590.0	589.8	588.8	587.3	586.3	586.1	586.1
15.5°	586.8	587.6	588.0	588.6	588.9	588.5	587.3	585.5	584.8	584.6	584.7
16°	585.1	586.5	586.9	587.1	587.0	587.1	585.9	583.9	583.3	583.1	583.2
16.5°	583.9	584.9	585.7	585.5	585.5	585.5	584.1	582.7	581.7	581.5	581.4
17°	582.1	583.1	584.1	584.0	584.0	583.8	582.6	581.0	579.8	579.6	579.4
17.5°	580.2	581.5	582.4	582.4	582.2	582.1	581.3	579.2	578.5	577.8	577.9
18°	578.7	579.8	580.8	580.3	580.4	580.3	579.9	577.5	576.6	576.0	576.2
18.5°	576.7	577.8	579.2	578.5	578.2	578.4	577.9	575.4	574.5	574.2	574.3
19°	574.7	576.1	577.4	576.6	576.4	576.4	576.4	573.8	572.8	572.1	572.7
19.5°	572.9	574.2	575.4	574.7	574.8	574.7	574.1	572.0	570.7	570.0	570.8
20°	571.0	572.5	573.5	572.4	572.6	572.7	572.2	569.8	568.8	568.3	568.7
20.5°	569.1	570.1	571.7	570.6	570.5	570.3	570.1	567.8	567.1	566.3	566.7
21°	567.0	567.9	569.8	568.5	568.7	568.0	568.5	565.7	565.0	564.1	564.7
21.5°	564.6	565.8	567.7	566.6	566.3	566.3	566.2	563.8	562.6	561.9	562.6
22°	562.4	563.7	565.6	564.3	564.3	564.0	564.1	561.9	560.1	559.6	560.5

TEST NUMBER: P869700
 CATALOG NUMBER: SMX18RLSFS010-1500LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	560.4	561.6	563.3	562.1	562.1	561.7	561.9	559.6	558.0	557.1	557.8
23°	558.4	559.6	560.7	560.1	559.9	559.7	559.2	557.1	555.7	555.1	555.4
23.5°	555.9	557.6	558.7	558.0	557.7	557.6	557.1	555.0	553.3	553.1	552.8
24°	553.7	555.2	556.2	555.6	555.4	554.9	554.8	552.9	551.2	550.3	550.3
24.5°	551.5	552.9	553.5	553.1	553.3	552.2	552.2	550.5	548.7	547.8	548.2
25°	549.1	550.4	551.1	550.9	550.6	550.2	549.7	548.2	546.2	545.4	545.2
25.5°	546.1	547.8	548.5	548.6	548.4	548.1	547.1	545.9	543.8	542.9	542.6
26°	543.8	545.6	545.9	546.1	545.9	545.2	544.5	543.3	541.1	540.5	540.4
26.5°	540.9	542.9	543.4	543.3	543.4	542.7	541.8	540.8	538.7	537.9	537.5
27°	538.5	540.5	540.7	540.9	540.5	540.3	539.1	538.1	535.9	535.5	534.8
27.5°	535.9	538.0	538.2	538.7	538.1	537.4	536.3	535.6	533.2	533.0	532.2
28°	533.3	535.2	535.7	536.0	535.6	535.0	533.5	532.8	530.8	530.3	529.5
28.5°	530.3	532.8	532.6	533.1	532.8	532.4	531.2	530.3	528.1	527.5	526.9
29°	527.5	530.2	529.8	530.3	530.2	529.6	528.3	527.6	525.2	524.5	524.0
29.5°	524.9	527.4	527.4	527.8	527.2	526.6	525.6	524.9	522.3	521.7	521.2
30°	522.2	524.5	524.7	525.0	524.3	523.8	522.9	521.9	519.3	518.9	518.0
30.5°	519.3	521.9	521.7	522.2	521.4	521.0	520.1	519.2	516.4	516.1	515.3
31°	516.3	518.9	518.9	519.1	518.8	518.2	517.0	516.2	513.5	512.8	512.4
31.5°	513.6	515.7	515.8	516.3	515.7	515.0	514.1	513.0	510.5	509.7	509.3
32°	510.4	512.5	512.9	513.6	512.6	511.9	511.0	510.0	507.4	507.0	506.0
32.5°	507.3	509.6	509.6	510.6	509.5	509.2	507.8	507.1	504.3	504.0	503.1
33°	504.4	506.5	506.5	507.4	506.6	506.0	504.8	503.8	501.1	501.0	499.8
33.5°	501.2	503.5	503.5	504.2	503.8	503.0	501.5	500.6	497.9	497.7	496.6
34°	497.9	500.5	500.5	501.0	500.5	499.8	498.1	497.8	494.9	494.4	493.1
34.5°	494.6	497.2	497.1	497.8	497.0	496.7	495.1	494.5	491.7	491.1	490.0
35°	491.2	494.0	493.7	494.7	493.7	493.5	491.7	490.9	488.2	487.8	486.6
35.5°	487.7	490.6	490.5	491.5	490.5	490.2	488.4	487.7	484.9	484.6	483.3
36°	484.7	487.4	487.1	488.1	487.0	486.8	485.1	484.2	481.5	481.1	479.9
36.5°	481.3	484.0	483.8	484.6	483.5	483.3	481.7	480.9	478.1	478.0	476.7
37°	478.0	480.7	480.5	481.0	480.4	480.2	478.3	477.5	474.6	474.3	472.8
37.5°	474.6	477.0	477.0	477.8	477.2	476.7	474.9	474.2	471.1	470.4	469.3
38°	470.5	473.4	473.4	474.3	473.5	473.0	471.3	470.7	467.5	466.9	465.8
38.5°	467.1	469.8	470.0	470.9	469.9	469.4	467.8	467.3	463.9	463.0	462.3
39°	463.7	466.5	466.4	467.3	466.4	466.1	464.0	463.5	460.3	459.6	458.7
39.5°	460.1	462.5	462.8	463.6	462.8	462.3	460.5	459.9	456.6	456.1	455.1
40°	456.1	458.8	459.2	459.7	459.0	458.7	457.0	456.1	453.0	452.2	451.2
40.5°	452.5	455.1	455.4	456.1	455.4	455.2	453.6	452.1	449.3	448.2	447.7
41°	449.1	451.4	451.7	452.4	451.6	451.4	449.6	448.1	445.5	444.6	443.7
41.5°	445.4	447.5	448.1	448.6	447.9	447.4	446.0	444.4	441.9	440.7	440.0
42°	441.4	443.5	444.4	444.8	444.2	443.7	442.1	440.5	437.9	436.7	436.0
42.5°	437.6	439.8	440.7	440.9	440.2	439.9	438.4	436.4	434.0	433.0	432.1
43°	433.7	435.8	436.7	436.9	436.3	436.0	434.2	432.6	429.9	429.2	428.3
43.5°	429.7	432.0	432.6	433.1	432.5	431.9	430.1	428.6	426.0	425.3	424.4
44°	426.0	428.2	428.9	429.0	428.6	428.3	426.2	424.8	421.9	421.4	420.3
44.5°	422.2	424.2	425.0	425.2	424.7	424.2	422.3	420.6	418.1	417.4	416.3

TEST NUMBER: P869700
 CATALOG NUMBER: SMX18RLSFS010-1500LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	417.9	419.8	421.1	421.3	420.7	420.2	418.3	416.5	413.9	413.2	412.1
45.5°	413.6	416.0	417.0	417.2	416.4	416.2	414.4	412.6	410.0	408.7	408.2
46°	409.9	412.0	412.8	412.9	412.3	412.0	410.2	408.5	405.8	404.7	404.0
46.5°	405.6	407.8	409.0	408.6	408.3	407.9	406.3	404.2	401.3	400.5	400.0
47°	401.6	403.7	404.6	404.8	404.1	403.8	402.0	400.3	397.4	396.4	395.8
47.5°	397.1	399.4	400.6	400.7	400.1	399.6	397.6	396.3	393.1	392.1	391.3
48°	393.0	395.3	396.2	396.3	395.8	395.6	393.6	391.8	389.0	387.8	386.9
48.5°	389.0	391.1	392.0	391.9	391.4	391.1	389.3	387.2	384.4	383.5	382.8
49°	384.4	386.7	387.6	387.8	387.2	386.9	384.8	383.0	380.4	379.2	378.3
49.5°	380.1	382.2	383.2	383.5	382.8	382.7	380.6	378.6	376.2	374.8	374.1
50°	375.8	378.1	378.8	379.0	378.6	378.3	376.3	374.4	371.6	370.6	369.7
50.5°	371.4	373.8	374.6	374.7	374.3	373.7	371.8	369.9	367.1	365.9	365.2
51°	366.7	369.3	370.0	370.1	369.9	369.3	367.3	365.6	362.5	361.3	360.6
51.5°	362.4	364.9	365.7	365.8	365.3	364.9	362.7	361.1	358.3	357.1	356.1
52°	357.9	360.3	361.2	361.3	360.9	360.3	358.3	356.7	353.9	352.3	351.7
52.5°	353.1	355.7	356.5	356.6	356.2	356.0	353.9	352.2	349.2	347.9	347.0
53°	348.3	351.1	352.0	352.0	351.5	351.4	349.4	347.4	344.5	343.2	342.4
53.5°	344.0	346.5	347.4	347.6	347.2	346.8	344.8	342.9	339.9	338.6	337.9
54°	339.5	341.8	342.7	342.8	342.7	342.0	340.1	338.1	335.5	333.8	333.1
54.5°	335.0	337.1	338.2	338.1	338.1	337.6	335.5	333.6	330.8	329.0	328.3
55°	329.9	332.5	333.5	333.4	333.5	332.7	330.9	328.8	326.0	324.5	323.8
55.5°	325.3	327.8	328.8	328.6	328.7	328.1	326.2	324.5	321.2	320.1	318.9
56°	320.8	323.0	324.1	323.9	324.1	323.3	321.3	319.4	316.4	315.1	313.9
56.5°	315.9	318.1	319.2	319.2	319.4	318.5	316.4	314.8	311.6	310.1	309.1
57°	310.9	313.3	314.5	314.4	314.6	313.8	311.8	309.9	307.0	305.3	304.1
57.5°	306.1	308.5	309.7	309.5	309.8	308.8	306.8	305.0	302.0	300.3	299.4
58°	301.3	303.8	304.8	304.7	304.8	304.0	302.0	300.1	297.1	295.5	294.5
58.5°	296.5	299.0	300.1	299.8	299.9	299.2	297.1	295.3	292.4	290.6	289.6
59°	291.4	294.0	295.0	294.8	295.2	294.1	292.2	290.1	287.4	285.9	284.8
59.5°	286.5	288.9	290.1	289.9	290.3	289.2	287.1	285.2	282.4	280.5	279.6
60°	281.5	283.9	285.0	284.8	285.2	284.1	282.0	280.1	277.5	275.5	274.6
60.5°	276.5	278.8	279.9	279.8	280.3	279.3	277.2	275.2	272.4	270.6	269.7
61°	271.7	273.9	275.0	274.8	275.4	274.1	272.1	270.3	267.4	265.6	264.7
61.5°	266.4	268.7	269.9	269.9	270.4	269.1	267.1	265.2	262.4	260.5	259.6
62°	261.3	263.6	265.0	264.9	265.4	264.1	262.0	260.1	257.4	255.3	254.2
62.5°	256.1	258.7	259.7	259.7	260.2	259.0	256.8	254.9	252.0	250.3	249.1
63°	251.0	253.5	254.4	254.5	255.0	253.9	251.7	249.7	247.0	245.0	244.0
63.5°	245.8	248.2	249.2	249.4	250.0	248.9	246.6	244.7	241.7	239.8	238.7
64°	240.8	243.1	244.1	244.1	244.7	243.5	241.4	239.4	236.6	234.6	233.6
64.5°	235.6	238.0	238.9	239.2	239.7	238.4	236.3	234.1	231.4	229.4	228.2
65°	230.3	232.7	233.7	234.0	234.3	233.2	230.9	228.8	226.3	224.2	223.1
65.5°	225.0	227.4	228.4	228.6	229.0	228.0	225.7	223.6	221.1	218.9	217.9
66°	220.0	222.2	223.1	223.2	223.8	222.6	220.3	218.2	215.6	213.8	212.8
66.5°	214.5	216.9	217.9	218.0	218.7	217.3	215.2	212.9	210.5	208.4	207.3
67°	209.2	211.6	212.6	212.8	213.5	212.2	210.0	207.6	205.1	203.0	201.9

TEST NUMBER: P869700
 CATALOG NUMBER: SMX18RLSFS010-1500LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	203.9	206.2	207.2	207.3	208.2	206.8	204.7	202.3	199.8	197.6	196.6
68°	198.4	200.7	201.7	201.8	202.8	201.3	199.3	196.9	194.5	192.4	191.2
68.5°	193.1	195.6	196.5	196.8	197.7	196.0	194.0	191.5	189.3	187.2	186.0
69°	187.9	190.2	191.0	191.5	192.4	190.7	188.4	186.2	183.8	181.7	180.7
69.5°	182.2	184.7	185.7	185.8	186.8	185.4	183.1	181.0	178.5	176.3	175.1
70°	176.8	179.3	180.2	180.3	181.4	180.0	177.7	175.4	172.9	171.0	169.7
70.5°	171.6	173.8	174.7	175.1	176.2	174.6	172.3	170.0	167.7	165.5	164.3
71°	166.0	168.6	169.3	169.6	170.9	169.4	167.1	164.6	162.3	160.2	159.0
71.5°	160.5	163.1	163.9	164.2	165.4	163.9	161.6	159.1	156.8	154.7	153.6
72°	155.3	157.6	158.4	158.8	160.0	158.6	156.1	153.7	151.3	149.1	148.0
72.5°	149.8	152.0	153.0	153.2	154.6	153.1	150.9	148.1	145.8	143.7	142.6
73°	144.3	146.5	147.5	147.7	149.0	147.5	145.1	142.6	140.5	138.3	137.2
73.5°	139.0	141.1	142.1	142.3	143.8	142.1	139.8	137.2	135.1	132.8	131.8
74°	133.5	135.8	136.7	136.9	138.3	136.8	134.4	131.8	129.7	127.4	126.4
74.5°	128.1	130.4	131.4	131.4	132.8	131.4	129.1	126.3	124.2	122.1	120.9
75°	122.5	124.8	125.8	125.9	127.4	126.0	123.7	120.9	118.8	116.6	115.5
75.5°	117.4	119.5	120.5	120.4	122.1	120.5	118.2	115.8	113.5	111.4	110.3
76°	112.0	114.2	115.2	115.1	116.7	115.2	112.8	110.4	108.2	106.1	104.9
76.5°	106.6	108.8	109.8	109.7	111.4	109.8	107.4	105.1	102.8	100.5	99.5
77°	101.3	103.5	104.6	104.4	106.0	104.5	102.1	99.9	97.4	95.3	94.2
77.5°	95.9	98.1	99.2	99.2	100.7	99.2	96.9	94.4	92.3	90.1	89.1
78°	90.7	93.0	93.8	94.0	95.4	94.0	91.6	89.3	86.9	85.1	83.9
78.5°	85.5	87.6	88.7	88.8	90.2	88.6	86.4	83.9	81.8	79.7	78.7
79°	80.4	82.6	83.6	83.7	85.0	83.5	81.3	78.8	76.6	74.6	73.8
79.5°	75.2	77.3	78.4	78.5	79.8	78.4	76.2	73.7	71.6	69.7	68.6
80°	70.2	72.2	73.2	73.4	74.7	73.5	71.0	68.6	66.7	65.0	63.8
80.5°	65.3	67.3	68.3	68.5	69.7	68.5	66.3	63.9	61.8	60.0	59.0
81°	60.4	62.4	63.4	63.6	65.1	63.7	61.4	59.0	57.1	55.2	54.4
81.5°	55.7	57.5	58.5	58.7	59.9	58.8	56.6	54.3	52.2	50.6	49.8
82°	50.8	52.8	53.6	53.6	55.1	53.9	52.1	49.7	47.5	45.9	45.1
82.5°	46.2	48.1	49.0	49.0	50.5	49.4	47.4	45.1	43.0	41.4	40.7
83°	41.8	43.6	44.4	44.5	46.0	44.8	42.9	40.7	38.7	37.1	36.4
83.5°	37.4	39.2	40.1	40.2	41.5	40.3	38.5	36.2	34.4	32.9	32.2
84°	33.3	35.0	35.7	35.9	37.1	36.0	34.2	32.1	30.2	29.0	28.1
84.5°	29.3	30.9	31.6	31.8	32.9	32.0	30.1	28.1	26.3	25.0	24.3
85°	25.4	27.0	27.6	27.6	29.0	28.0	26.2	24.2	22.5	21.2	20.6
85.5°	21.8	23.2	23.9	23.9	25.0	24.0	22.3	20.5	19.0	17.8	17.2
86°	18.5	19.8	20.3	20.4	21.3	20.3	18.7	17.1	15.9	14.6	14.1
86.5°	15.5	16.7	17.2	17.2	17.7	16.9	15.5	13.9	12.7	11.9	11.5
87°	12.5	13.8	14.1	14.1	14.8	13.9	12.7	11.3	10.2	9.3	9.0
87.5°	9.9	11.0	11.4	11.4	11.8	11.3	10.2	8.9	7.8	7.1	6.7
88°	7.5	8.4	8.9	8.8	9.4	8.7	7.7	6.5	5.6	4.9	4.8
88.5°	5.0	5.9	6.3	6.3	7.0	6.5	5.5	4.5	3.7	3.2	2.9
89°	3.4	4.1	4.4	4.3	5.0	4.5	3.6	2.8	2.2	1.8	1.7
89.5°	2.2	2.7	2.9	2.8	3.2	2.7	2.1	1.5	1.0	0.8	0.6

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



TEST NUMBER: P869700
CATALOG NUMBER: SMX18RLSFS010-1500LM-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: P869700
 CATALOG NUMBER: SMX18RLSFS010-1500LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	610.1	610.1	610.1	610.1	610.1	610.1
0.5°	610.0	609.9	610.6	609.8	609.8	609.6
1°	609.5	609.6	610.2	609.4	609.7	609.6
1.5°	609.4	609.8	610.1	609.3	609.6	609.6
2°	609.2	609.8	609.7	609.1	609.6	609.4
2.5°	609.0	609.3	609.6	609.0	609.4	609.0
3°	608.6	608.8	609.6	608.5	609.4	608.7
3.5°	608.3	608.3	609.0	608.3	608.9	608.4
4°	608.3	607.7	608.5	608.3	608.3	608.2
4.5°	607.6	607.5	608.0	607.5	607.6	607.9
5°	607.3	607.3	607.6	606.8	606.9	607.7
5.5°	606.1	606.3	606.9	606.1	606.6	606.9
6°	605.5	605.7	606.1	605.9	606.3	606.2
6.5°	605.0	605.0	605.6	605.4	605.6	605.7
7°	604.5	604.2	604.9	604.6	605.2	605.0
7.5°	603.2	603.6	603.8	603.9	604.5	604.2
8°	602.6	602.5	603.1	602.9	603.4	603.4
8.5°	601.8	601.7	602.4	601.9	602.6	602.7
9°	600.6	600.6	601.7	601.3	601.6	601.8
9.5°	599.9	599.7	600.1	600.3	600.6	600.8
10°	599.0	599.0	599.1	598.9	599.7	600.1
10.5°	597.8	598.0	598.0	597.6	598.8	599.4
11°	596.6	596.7	596.9	596.8	598.0	598.3
11.5°	595.6	595.6	596.0	595.7	597.1	597.1
12°	594.3	594.3	595.2	594.5	595.9	596.1
12.5°	593.0	593.1	593.4	593.3	594.7	594.8
13°	591.7	591.9	592.5	592.4	593.4	593.7
13.5°	590.6	590.8	591.1	590.9	592.4	592.4
14°	589.0	589.2	589.9	589.7	591.2	591.7
14.5°	587.8	587.8	588.5	588.4	590.0	590.1
15°	586.4	586.4	586.9	586.8	588.5	588.3
15.5°	585.1	584.6	585.4	585.5	586.7	586.8
16°	583.6	582.9	584.0	583.8	585.1	585.1
16.5°	581.9	581.2	582.2	582.6	583.4	583.9
17°	580.3	579.2	580.3	581.3	581.8	582.1
17.5°	578.2	577.3	578.6	579.4	580.1	580.2
18°	576.4	575.5	576.5	577.6	578.2	578.7
18.5°	574.1	573.6	574.1	575.8	576.2	576.7
19°	572.1	571.7	572.2	574.3	574.3	574.7
19.5°	570.1	569.4	570.3	572.1	572.4	572.9
20°	568.2	567.5	568.7	570.1	570.7	571.0
20.5°	566.0	565.6	566.6	568.4	568.4	569.1
21°	564.0	563.4	564.5	566.4	566.3	567.0
21.5°	561.8	561.0	562.3	564.1	564.0	564.6
22°	559.7	558.7	559.8	561.7	561.7	562.4

TEST NUMBER: P869700
 CATALOG NUMBER: SMX18RLSFS010-1500LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	557.3	556.6	557.8	559.5	559.9	560.4
23°	555.2	554.4	555.7	557.2	558.0	558.4
23.5°	552.6	552.2	553.0	554.8	555.4	555.9
24°	550.3	549.8	550.5	552.1	552.7	553.7
24.5°	547.7	547.4	548.0	549.6	550.6	551.5
25°	545.4	545.1	546.2	547.3	548.4	549.1
25.5°	542.9	542.3	543.6	544.7	545.9	546.1
26°	540.2	539.8	541.2	542.1	543.5	543.8
26.5°	537.4	536.8	538.5	539.4	540.8	540.9
27°	534.9	534.2	535.9	536.9	538.0	538.5
27.5°	532.2	531.3	533.1	534.2	535.4	535.9
28°	529.6	528.7	530.7	531.5	533.0	533.3
28.5°	526.6	525.9	527.6	528.5	530.3	530.3
29°	524.0	523.0	524.7	525.8	527.5	527.5
29.5°	520.9	520.0	521.7	522.9	524.5	524.9
30°	518.0	517.3	518.9	520.1	521.7	522.2
30.5°	515.3	514.3	515.8	516.8	518.9	519.3
31°	512.2	511.3	512.9	514.0	516.1	516.3
31.5°	509.0	508.2	509.8	511.0	512.9	513.6
32°	505.9	504.9	507.0	508.2	510.0	510.4
32.5°	502.9	501.8	504.0	505.0	506.9	507.3
33°	499.8	498.9	500.9	501.9	504.1	504.4
33.5°	496.6	495.5	497.5	498.6	501.1	501.2
34°	493.5	492.1	494.3	495.5	497.9	497.9
34.5°	489.8	488.9	490.9	492.3	494.6	494.6
35°	486.5	485.8	487.7	488.8	491.2	491.2
35.5°	483.2	482.3	484.0	485.4	487.7	487.7
36°	479.8	479.0	480.9	482.3	484.6	484.7
36.5°	476.7	475.4	477.4	479.0	481.4	481.3
37°	473.3	471.9	473.9	475.4	477.9	478.0
37.5°	469.8	468.6	470.2	472.1	474.4	474.6
38°	465.8	465.0	466.6	468.3	470.7	470.5
38.5°	462.6	461.2	463.0	464.7	467.1	467.1
39°	458.9	457.7	459.3	461.2	463.5	463.7
39.5°	455.1	454.1	455.4	457.4	459.6	460.1
40°	451.4	450.2	452.1	453.8	455.9	456.1
40.5°	447.5	446.5	448.1	450.1	452.4	452.5
41°	443.5	442.8	444.3	446.0	448.1	449.1
41.5°	440.0	438.8	440.4	442.5	444.4	445.4
42°	436.0	434.9	436.7	438.6	440.4	441.4
42.5°	432.0	431.2	432.6	434.5	436.6	437.6
43°	428.4	427.4	428.8	430.6	432.7	433.7
43.5°	424.4	423.4	424.8	426.9	429.1	429.7
44°	420.1	419.2	420.7	423.0	425.3	426.0
44.5°	416.2	415.2	416.8	418.8	421.2	422.2

TEST NUMBER: P869700
 CATALOG NUMBER: SMX18RLSFS010-1500LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	412.2	411.0	412.7	414.9	417.0	417.9
45.5°	408.3	406.9	408.8	410.9	412.7	413.6
46°	403.8	402.6	404.6	406.5	408.5	409.9
46.5°	399.7	398.6	400.4	402.5	404.5	405.6
47°	395.5	394.1	395.9	398.1	400.4	401.6
47.5°	391.0	390.0	391.8	394.1	396.1	397.1
48°	386.7	385.5	387.3	389.7	391.8	393.0
48.5°	382.5	381.3	383.0	385.5	387.8	389.0
49°	378.1	377.2	378.8	381.0	383.6	384.4
49.5°	373.7	372.7	374.4	376.8	379.0	380.1
50°	369.3	368.1	369.8	372.3	374.7	375.8
50.5°	364.8	363.7	365.4	368.0	370.2	371.4
51°	360.3	359.4	360.9	363.6	365.8	366.7
51.5°	355.9	354.8	356.2	358.9	361.3	362.4
52°	351.2	350.1	351.8	354.2	356.7	357.9
52.5°	346.5	345.7	347.4	349.7	352.0	353.1
53°	342.2	340.9	342.7	345.1	347.6	348.3
53.5°	337.4	336.2	338.1	340.6	342.9	344.0
54°	332.7	331.5	333.3	335.7	338.1	339.5
54.5°	328.0	326.8	328.6	331.1	333.4	335.0
55°	323.6	322.2	324.1	326.4	328.6	329.9
55.5°	318.7	317.5	319.4	321.7	324.3	325.3
56°	313.8	312.8	314.5	317.1	319.5	320.8
56.5°	308.9	307.9	309.7	312.2	314.6	315.9
57°	304.3	302.9	304.8	307.4	309.6	310.9
57.5°	299.3	298.2	299.9	302.3	304.7	306.1
58°	294.3	293.2	295.0	297.5	299.8	301.3
58.5°	289.4	288.2	290.2	292.6	295.0	296.5
59°	284.5	283.3	285.2	287.5	289.9	291.4
59.5°	279.4	278.1	280.1	282.5	284.8	286.5
60°	274.5	273.1	275.1	277.5	279.8	281.5
60.5°	269.5	268.2	269.8	272.6	274.8	276.5
61°	264.4	263.1	265.0	267.4	269.8	271.7
61.5°	259.2	258.0	259.9	262.4	264.8	266.4
62°	254.2	252.9	254.8	257.2	259.7	261.3
62.5°	249.1	247.8	249.6	252.0	254.5	256.1
63°	243.8	242.6	244.3	246.6	249.3	251.0
63.5°	238.7	237.4	239.2	241.5	244.1	245.8
64°	233.4	232.0	233.8	236.4	238.9	240.8
64.5°	228.1	226.9	228.7	231.0	233.6	235.6
65°	223.0	221.8	223.4	225.6	228.5	230.3
65.5°	217.7	216.4	218.3	220.5	223.1	225.0
66°	212.4	211.2	212.8	215.2	217.9	220.0
66.5°	207.1	205.6	207.6	209.8	212.5	214.5
67°	201.6	200.4	202.1	204.4	207.2	209.2

TEST NUMBER: P869700
 CATALOG NUMBER: SMX18RLSFS010-1500LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	196.5	195.1	196.8	199.2	201.9	203.9
68°	191.2	189.5	191.5	193.8	196.6	198.4
68.5°	185.7	184.3	185.9	188.3	191.1	193.1
69°	180.3	178.8	180.5	182.9	185.7	187.9
69.5°	174.9	173.3	175.2	177.5	180.2	182.2
70°	169.6	168.0	170.0	172.2	174.7	176.8
70.5°	164.3	162.6	164.4	166.7	169.5	171.6
71°	158.8	157.2	159.1	161.4	164.0	166.0
71.5°	153.3	151.7	153.5	155.7	158.6	160.5
72°	147.9	146.4	147.9	150.3	153.1	155.3
72.5°	142.4	140.9	142.6	144.9	147.7	149.8
73°	137.0	135.4	137.1	139.5	142.1	144.3
73.5°	131.7	130.0	131.6	134.0	136.8	139.0
74°	126.3	124.6	126.2	128.6	131.2	133.5
74.5°	120.9	119.3	120.8	123.1	125.7	128.1
75°	115.5	113.9	115.5	117.8	120.3	122.5
75.5°	110.4	108.6	110.0	112.5	115.1	117.4
76°	104.9	103.2	104.8	107.0	109.6	112.0
76.5°	99.5	97.9	99.4	101.8	104.4	106.6
77°	94.1	92.7	94.2	96.5	99.1	101.3
77.5°	89.0	87.4	89.0	91.4	93.9	95.9
78°	83.7	82.3	83.9	86.1	88.7	90.7
78.5°	78.6	77.2	78.7	80.9	83.5	85.5
79°	73.6	72.0	73.6	75.8	78.5	80.4
79.5°	68.6	67.0	68.5	70.7	73.3	75.2
80°	63.7	62.2	63.6	65.8	68.2	70.2
80.5°	59.0	57.3	58.8	60.9	63.2	65.3
81°	54.3	52.5	53.9	56.1	58.4	60.4
81.5°	49.5	47.9	49.2	51.4	53.7	55.7
82°	44.9	43.4	44.6	46.8	48.9	50.8
82.5°	40.5	39.0	40.4	42.2	44.4	46.2
83°	36.3	34.8	36.1	38.0	40.1	41.8
83.5°	32.1	30.7	31.8	33.7	35.9	37.4
84°	28.1	26.7	27.9	29.7	31.6	33.3
84.5°	24.3	23.1	24.1	25.9	27.7	29.3
85°	20.5	19.6	20.6	22.2	23.9	25.4
85.5°	17.1	16.5	17.4	18.7	20.4	21.8
86°	14.1	13.4	14.3	15.7	17.3	18.5
86.5°	11.5	10.7	11.5	12.7	14.2	15.5
87°	9.0	8.2	8.9	10.1	11.4	12.5
87.5°	6.7	5.7	6.5	7.6	8.9	9.9
88°	4.6	4.0	4.4	5.3	6.3	7.5
88.5°	3.0	2.5	3.0	3.6	4.4	5.0
89°	1.7	1.5	1.8	2.4	2.9	3.4
89.5°	0.7	1.0	1.2	1.5	1.9	2.2

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869700
CATALOG NUMBER: SMX18RLSFS010-1500LM-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)