

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: P869721

Luminaire Tested: **SMX18RLSFSD2W-2500LM-2700K**

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: P869721
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS2W-2500LM-2700K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

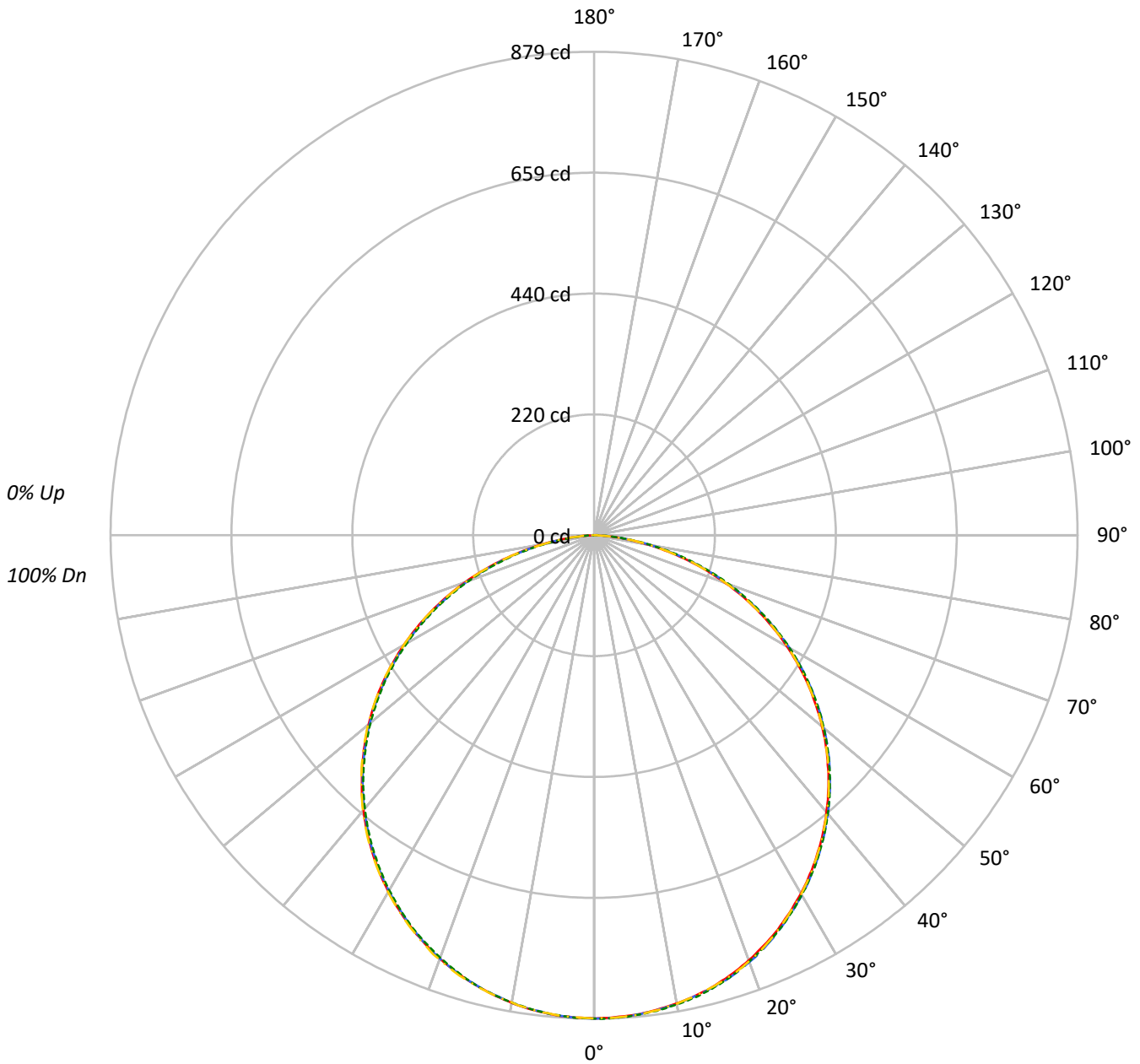
Lumens per Lamp: N/A
 Luminaire Lumens: 2565.0 lumens
 Efficiency: N/A
 Efficacy: 84.7 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 30.3
 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: P869721
CATALOG NUMBER: SMX18RLSFSD2W-2500LM-2700K

Luminous Intensity Polar Plot



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

TEST NUMBER: P869721
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-2700K

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												
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°	5353	5353	5353	5353
5°	5352	5354	5346	5348
10°	5346	5359	5340	5336
15°	5344	5359	5325	5325
20°	5331	5345	5310	5298
25°	5315	5330	5287	5277
30°	5290	5311	5261	5241
35°	5261	5287	5228	5202
40°	5224	5257	5187	5156
45°	5186	5219	5136	5100
50°	5128	5167	5073	5024
55°	5046	5101	4986	4929
60°	4939	5003	4869	4791
65°	4781	4864	4697	4605
70°	4536	4654	4435	4310
75°	4154	4319	4027	3862
80°	3546	3774	3367	3139
85°	2558	2921	2271	1971

TEST NUMBER: P869721
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.2
10°-20°	239.0	9.3
20°-30°	363.9	14.2
30°-40°	441.9	17.2
40°-50°	462.5	18.0
50°-60°	422.5	16.5
60°-70°	325.0	12.7
70°-80°	183.8	7.2
80°-90°	43.4	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°	686.0	26.7
0°-40°	1127.9	44.0
0°-60°	2012.9	78.5
0°-90°	2565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2565.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	879	879	879	879	879	
5°	875	876	874	875	875	83
15°	847	850	844	844	847	239
25°	791	793	787	785	791	364
35°	708	711	703	700	708	443
45°	602	606	596	592	602	464
55°	475	480	470	464	475	425
65°	332	338	326	320	332	328
75°	176	184	171	164	176	187
85°	37	42	32	28	37	45
90°	0	0	0	0	0	

TEST NUMBER: P869721
 CATALOG NUMBER: SMX18RLSFS2W-2500LM-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8
0.5°	878.0	878.7	878.6	878.7	879.2	879.8	878.7	878.9	877.8	878.6	878.8
1°	878.0	878.8	878.5	878.9	879.4	879.5	878.0	878.5	878.0	878.4	878.5
1.5°	878.0	879.1	878.4	878.4	879.0	879.0	878.5	878.1	877.7	878.4	878.3
2°	877.8	878.7	878.2	878.0	878.7	879.0	878.3	877.9	877.5	877.8	877.6
2.5°	877.2	878.5	878.0	877.9	878.7	878.6	877.8	877.2	877.4	877.8	877.6
3°	876.6	878.0	878.0	877.4	878.0	877.7	877.5	876.8	876.5	877.9	876.8
3.5°	876.3	877.4	877.7	877.4	877.5	877.1	877.4	876.6	876.6	877.3	876.6
4°	876.0	876.9	876.9	876.7	877.5	876.9	876.6	876.3	876.3	876.2	876.1
4.5°	875.5	875.9	876.1	876.6	876.4	876.7	876.3	875.7	875.5	875.5	875.5
5°	875.3	875.2	875.3	875.8	875.7	876.0	875.6	874.5	874.4	874.8	874.9
5.5°	874.1	875.0	875.0	875.5	875.3	875.6	875.1	874.1	873.7	873.8	873.9
6°	873.1	874.2	873.5	874.4	874.6	874.7	873.9	873.5	872.6	872.8	872.2
6.5°	872.3	873.2	872.9	873.4	873.5	874.0	872.8	872.8	872.2	871.5	871.2
7°	871.3	872.0	872.1	872.2	872.4	873.0	871.7	871.3	871.0	871.0	870.6
7.5°	870.2	870.9	871.1	871.6	872.2	871.7	871.2	870.0	870.0	869.9	869.5
8°	869.1	869.9	869.8	870.2	871.0	870.9	870.3	869.3	868.7	868.4	868.3
8.5°	868.0	869.0	868.9	869.1	869.8	870.0	868.5	868.0	867.7	867.3	867.2
9°	866.8	867.9	867.5	868.1	868.4	868.8	867.3	866.8	866.1	865.9	865.7
9.5°	865.4	866.7	866.6	867.0	867.3	867.7	866.4	865.5	864.9	864.4	864.3
10°	864.4	865.3	865.1	865.5	866.4	866.2	864.8	863.7	863.4	862.6	862.4
10.5°	863.4	863.8	863.7	864.6	865.2	864.8	863.1	862.5	861.4	861.1	860.9
11°	861.8	862.2	862.3	863.2	863.6	863.3	861.7	861.0	859.9	860.0	859.0
11.5°	860.0	860.8	860.8	861.8	862.4	862.0	860.2	858.9	858.2	858.7	857.5
12°	858.6	859.4	859.2	860.4	860.7	860.3	858.9	857.3	856.7	856.3	855.8
12.5°	856.7	857.6	857.2	858.7	859.6	858.7	857.3	855.4	854.5	854.4	854.3
13°	855.1	856.2	855.7	857.4	857.9	857.2	855.4	853.4	852.8	852.4	852.3
13.5°	853.2	854.2	854.4	855.4	855.9	855.4	853.5	852.1	850.7	850.2	850.6
14°	852.2	852.4	852.6	854.1	854.1	853.5	851.3	850.1	848.7	848.5	848.7
14.5°	850.0	850.2	850.9	852.3	852.3	851.8	849.9	847.8	846.9	845.9	846.1
15°	847.4	848.1	849.0	849.5	849.8	849.5	848.0	845.8	844.5	844.2	844.2
15.5°	845.2	846.4	846.9	847.8	848.2	847.6	845.8	843.3	842.3	842.0	842.2
16°	842.7	844.7	845.3	845.6	845.5	845.6	843.9	841.0	840.1	839.9	840.0
16.5°	841.0	842.4	843.5	843.4	843.3	843.3	841.2	839.2	837.8	837.5	837.4
17°	838.4	839.9	841.2	841.1	841.2	840.9	839.1	836.8	835.1	834.8	834.6
17.5°	835.7	837.5	838.9	838.9	838.5	838.4	837.2	834.2	833.2	832.2	832.3
18°	833.4	835.0	836.5	835.7	835.9	835.7	835.3	831.7	830.4	829.6	830.0
18.5°	830.6	832.2	834.2	833.3	832.8	833.1	832.3	828.8	827.5	827.0	827.1
19°	827.7	829.8	831.6	830.5	830.2	830.1	830.1	826.4	825.0	824.0	824.8
19.5°	825.2	827.0	828.7	827.7	827.9	827.7	826.8	823.8	822.0	821.0	822.2
20°	822.4	824.6	826.0	824.4	824.6	824.8	824.2	820.7	819.2	818.5	819.1
20.5°	819.6	821.2	823.5	821.8	821.7	821.3	821.1	817.8	816.8	815.6	816.2
21°	816.7	817.9	820.6	818.9	819.1	818.0	818.9	814.8	813.8	812.5	813.3
21.5°	813.2	814.9	817.6	816.1	815.7	815.6	815.5	812.1	810.2	809.2	810.3
22°	810.1	811.9	814.6	812.8	812.8	812.3	812.5	809.2	806.8	805.9	807.2

TEST NUMBER: P869721
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	807.1	808.9	811.3	809.6	809.6	809.0	809.2	806.0	803.7	802.4	803.5
23°	804.3	806.0	807.6	806.8	806.4	806.1	805.5	802.4	800.4	799.5	799.9
23.5°	800.7	803.1	804.7	803.6	803.3	803.1	802.4	799.3	796.9	796.7	796.1
24°	797.5	799.7	801.1	800.2	800.0	799.1	799.1	796.3	793.9	792.5	792.6
24.5°	794.3	796.4	797.2	796.7	796.9	795.3	795.3	792.8	790.3	789.1	789.5
25°	790.8	792.7	793.7	793.5	793.1	792.5	791.7	789.6	786.7	785.5	785.2
25.5°	786.6	789.0	790.1	790.2	789.9	789.4	788.0	786.3	783.2	782.0	781.4
26°	783.3	785.8	786.3	786.5	786.2	785.3	784.3	782.5	779.3	778.5	778.3
26.5°	779.1	782.0	782.6	782.5	782.6	781.6	780.3	778.9	775.9	774.7	774.1
27°	775.6	778.5	778.7	779.1	778.4	778.2	776.5	775.0	771.8	771.3	770.3
27.5°	771.8	774.9	775.1	775.9	775.0	774.0	772.4	771.4	768.0	767.7	766.6
28°	768.1	770.8	771.5	772.0	771.4	770.5	768.4	767.3	764.6	763.8	762.6
28.5°	763.7	767.3	767.1	767.9	767.4	766.8	765.0	763.7	760.6	759.7	758.9
29°	759.7	763.7	763.1	763.8	763.7	762.7	760.9	759.9	756.5	755.5	754.7
29.5°	756.0	759.6	759.6	760.2	759.2	758.5	757.0	756.0	752.3	751.4	750.7
30°	752.1	755.5	755.7	756.2	755.1	754.5	753.2	751.7	748.0	747.3	746.0
30.5°	748.0	751.6	751.5	752.1	751.0	750.4	749.2	747.8	743.7	743.3	742.2
31°	743.6	747.4	747.3	747.7	747.2	746.3	744.6	743.5	739.5	738.5	738.0
31.5°	739.7	742.7	742.9	743.7	742.7	741.7	740.4	738.9	735.3	734.1	733.5
32°	735.1	738.2	738.7	739.7	738.2	737.2	736.0	734.6	730.8	730.3	728.8
32.5°	730.6	733.9	734.0	735.4	733.8	733.4	731.4	730.4	726.3	725.9	724.6
33°	726.4	729.5	729.4	730.8	729.7	728.8	727.1	725.6	721.7	721.6	719.9
33.5°	721.9	725.1	725.2	726.1	725.7	724.5	722.3	721.0	717.1	716.9	715.2
34°	717.2	720.8	720.8	721.6	720.8	719.9	717.4	717.0	712.8	712.1	710.3
34.5°	712.4	716.0	716.0	717.0	715.9	715.4	713.1	712.3	708.3	707.3	705.7
35°	707.5	711.5	711.0	712.5	711.0	710.7	708.2	707.1	703.1	702.6	700.9
35.5°	702.4	706.6	706.5	707.9	706.4	706.0	703.5	702.4	698.3	698.0	696.1
36°	698.1	702.0	701.6	703.0	701.5	701.1	698.6	697.4	693.5	692.9	691.2
36.5°	693.2	697.1	696.8	698.0	696.4	696.1	693.8	692.7	688.6	688.4	686.5
37°	688.4	692.3	692.1	692.8	691.9	691.6	688.9	687.8	683.6	683.1	681.0
37.5°	683.5	687.0	687.0	688.2	687.2	686.5	684.0	682.9	678.5	677.5	675.9
38°	677.7	681.8	681.8	683.1	681.9	681.3	678.8	678.0	673.4	672.5	670.8
38.5°	672.8	676.6	676.9	678.3	676.8	676.1	673.8	673.0	668.1	666.8	665.8
39°	667.8	671.8	671.7	673.0	671.7	671.3	668.3	667.6	663.0	662.0	660.7
39.5°	662.7	666.1	666.5	667.7	666.5	665.8	663.2	662.4	657.6	656.9	655.5
40°	657.0	660.7	661.4	662.1	661.1	660.7	658.2	656.9	652.4	651.3	649.9
40.5°	651.8	655.4	656.0	657.0	655.9	655.6	653.3	651.1	647.1	645.5	644.8
41°	646.8	650.1	650.6	651.6	650.4	650.1	647.5	645.3	641.7	640.4	639.0
41.5°	641.5	644.5	645.3	646.1	645.2	644.4	642.4	640.1	636.4	634.7	633.8
42°	635.7	638.8	640.0	640.7	639.7	639.1	636.7	634.4	630.8	629.0	628.0
42.5°	630.2	633.5	634.7	635.0	634.1	633.6	631.4	628.5	625.1	623.7	622.3
43°	624.6	627.6	628.9	629.2	628.5	627.9	625.4	623.1	619.2	618.2	616.9
43.5°	618.8	622.2	623.0	623.8	622.9	622.1	619.5	617.4	613.5	612.6	611.2
44°	613.5	616.7	617.7	617.9	617.3	616.9	613.9	611.9	607.7	607.0	605.3
44.5°	608.1	611.0	612.1	612.4	611.7	610.9	608.2	605.8	602.1	601.1	599.7

TEST NUMBER: P869721
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	602.0	604.7	606.5	606.8	605.9	605.2	602.5	599.9	596.2	595.1	593.6
45.5°	595.7	599.2	600.6	600.9	599.8	599.4	596.8	594.2	590.5	588.7	587.9
46°	590.4	593.3	594.5	594.7	593.9	593.4	590.9	588.4	584.4	582.9	581.9
46.5°	584.2	587.4	589.0	588.6	588.1	587.6	585.2	582.1	578.0	576.8	576.1
47°	578.5	581.4	582.8	583.0	582.0	581.6	579.0	576.5	572.3	571.0	570.0
47.5°	572.0	575.3	576.9	577.1	576.3	575.5	572.7	570.8	566.2	564.8	563.5
48°	566.1	569.4	570.6	570.8	570.0	569.8	566.9	564.3	560.3	558.6	557.3
48.5°	560.2	563.3	564.6	564.4	563.7	563.3	560.8	557.7	553.7	552.3	551.4
49°	553.7	556.9	558.2	558.5	557.7	557.2	554.3	551.6	547.9	546.1	544.8
49.5°	547.5	550.5	552.0	552.3	551.4	551.1	548.2	545.4	541.8	539.9	538.8
50°	541.2	544.5	545.5	545.8	545.3	544.8	542.0	539.2	535.3	533.8	532.4
50.5°	534.9	538.4	539.5	539.7	539.1	538.3	535.5	532.8	528.8	527.0	526.0
51°	528.2	531.9	533.0	533.1	532.8	531.9	529.0	526.6	522.2	520.4	519.3
51.5°	522.0	525.5	526.7	526.8	526.2	525.5	522.3	520.1	516.0	514.3	512.9
52°	515.5	518.9	520.2	520.4	519.9	518.9	516.1	513.7	509.8	507.5	506.6
52.5°	508.6	512.3	513.4	513.6	513.1	512.7	509.8	507.3	503.0	501.1	499.8
53°	501.6	505.6	506.9	506.9	506.3	506.1	503.3	500.3	496.2	494.3	493.2
53.5°	495.5	499.0	500.4	500.6	500.1	499.5	496.6	493.8	489.5	487.7	486.7
54°	489.0	492.3	493.6	493.7	493.5	492.6	489.9	486.9	483.3	480.8	479.8
54.5°	482.4	485.5	487.1	486.9	487.0	486.2	483.3	480.4	476.5	473.8	472.8
55°	475.2	479.0	480.3	480.1	480.3	479.2	476.6	473.6	469.5	467.3	466.4
55.5°	468.6	472.1	473.6	473.3	473.5	472.6	469.8	467.3	462.6	461.0	459.2
56°	462.0	465.2	466.8	466.6	466.8	465.7	462.8	460.1	455.8	453.8	452.2
56.5°	455.0	458.2	459.8	459.7	460.1	458.7	455.8	453.5	448.8	446.7	445.2
57°	447.8	451.3	453.0	452.8	453.2	451.9	449.1	446.4	442.2	439.7	438.0
57.5°	440.9	444.4	446.0	445.8	446.2	444.7	441.8	439.3	434.9	432.5	431.3
58°	434.0	437.5	439.1	438.9	439.0	437.9	434.9	432.2	428.0	425.6	424.2
58.5°	427.0	430.7	432.2	431.8	432.0	430.9	428.0	425.3	421.1	418.6	417.1
59°	419.7	423.4	424.9	424.6	425.2	423.6	420.8	417.9	413.9	411.7	410.2
59.5°	412.6	416.1	417.8	417.5	418.1	416.5	413.6	410.7	406.7	403.9	402.7
60°	405.4	408.9	410.4	410.2	410.7	409.2	406.1	403.4	399.7	396.9	395.5
60.5°	398.2	401.5	403.2	403.0	403.7	402.3	399.3	396.4	392.4	389.8	388.4
61°	391.3	394.5	396.0	395.8	396.6	394.8	391.9	389.3	385.1	382.6	381.3
61.5°	383.8	387.1	388.8	388.7	389.4	387.5	384.7	382.0	377.9	375.1	373.8
62°	376.3	379.7	381.6	381.6	382.2	380.5	377.3	374.6	370.7	367.7	366.1
62.5°	368.9	372.6	374.0	374.0	374.8	373.0	369.9	367.1	363.0	360.5	358.8
63°	361.6	365.1	366.4	366.6	367.3	365.7	362.5	359.6	355.7	352.9	351.4
63.5°	354.0	357.4	359.0	359.2	360.1	358.4	355.2	352.4	348.2	345.3	343.9
64°	346.8	350.2	351.6	351.6	352.5	350.6	347.7	344.8	340.8	337.9	336.4
64.5°	339.3	342.8	344.1	344.5	345.2	343.4	340.3	337.2	333.3	330.4	328.6
65°	331.7	335.1	336.6	337.0	337.5	335.9	332.6	329.5	325.9	322.9	321.3
65.5°	324.1	327.5	329.0	329.2	329.8	328.4	325.1	322.0	318.4	315.3	313.9
66°	316.8	320.0	321.4	321.5	322.4	320.6	317.3	314.2	310.6	307.9	306.5
66.5°	308.9	312.4	313.9	314.0	315.1	312.9	310.0	306.7	303.1	300.1	298.6
67°	301.3	304.8	306.2	306.4	307.4	305.7	302.4	299.0	295.4	292.4	290.7

TEST NUMBER: P869721
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	293.7	297.0	298.4	298.6	299.9	297.8	294.9	291.4	287.8	284.6	283.1
68°	285.8	289.1	290.6	290.7	292.0	289.9	287.1	283.6	280.1	277.2	275.4
68.5°	278.2	281.7	283.0	283.4	284.8	282.3	279.4	275.8	272.6	269.7	267.9
69°	270.6	274.0	275.1	275.8	277.1	274.7	271.3	268.2	264.7	261.7	260.2
69.5°	262.4	266.1	267.5	267.5	269.1	267.0	263.8	260.7	257.1	253.9	252.1
70°	254.7	258.3	259.6	259.7	261.3	259.2	255.9	252.6	249.0	246.3	244.4
70.5°	247.1	250.3	251.6	252.1	253.8	251.5	248.2	244.9	241.5	238.4	236.6
71°	239.1	242.8	243.9	244.3	246.1	244.0	240.7	237.0	233.7	230.7	229.0
71.5°	231.2	234.9	236.1	236.5	238.2	236.0	232.7	229.1	225.8	222.8	221.2
72°	223.6	227.0	228.2	228.7	230.5	228.4	224.9	221.4	217.9	214.7	213.2
72.5°	215.7	218.9	220.3	220.7	222.7	220.5	217.3	213.3	209.9	207.0	205.5
73°	207.8	211.0	212.4	212.8	214.6	212.4	209.0	205.5	202.3	199.2	197.6
73.5°	200.1	203.2	204.7	204.9	207.1	204.7	201.3	197.6	194.6	191.3	189.9
74°	192.3	195.5	196.8	197.2	199.2	197.0	193.6	189.9	186.7	183.5	182.1
74.5°	184.5	187.8	189.2	189.3	191.3	189.3	185.9	182.0	178.9	175.8	174.2
75°	176.5	179.8	181.1	181.3	183.5	181.4	178.1	174.1	171.1	167.9	166.4
75.5°	169.0	172.1	173.5	173.4	175.9	173.5	170.2	166.7	163.4	160.5	158.9
76°	161.2	164.5	165.9	165.8	168.0	165.9	162.5	158.9	155.8	152.8	151.1
76.5°	153.5	156.7	158.1	157.9	160.4	158.1	154.6	151.4	148.0	144.7	143.3
77°	145.8	149.0	150.6	150.4	152.6	150.5	147.1	143.8	140.3	137.3	135.7
77.5°	138.1	141.3	142.8	142.8	145.1	142.9	139.6	136.0	133.0	129.8	128.3
78°	130.7	133.9	135.1	135.4	137.4	135.4	132.0	128.6	125.1	122.5	120.8
78.5°	123.1	126.2	127.8	127.9	130.0	127.7	124.4	120.8	117.8	114.7	113.4
79°	115.8	119.0	120.4	120.5	122.4	120.2	117.1	113.5	110.3	107.5	106.3
79.5°	108.3	111.3	112.9	113.1	114.9	112.9	109.7	106.1	103.1	100.3	98.9
80°	101.1	104.0	105.5	105.7	107.6	105.8	102.3	98.9	96.0	93.6	91.9
80.5°	94.1	96.9	98.3	98.7	100.4	98.6	95.5	92.1	89.0	86.4	85.0
81°	87.0	89.9	91.3	91.6	93.7	91.8	88.4	85.0	82.2	79.5	78.3
81.5°	80.2	82.8	84.3	84.5	86.3	84.7	81.5	78.1	75.2	72.8	71.7
82°	73.1	76.0	77.2	77.2	79.3	77.7	75.0	71.5	68.4	66.1	64.9
82.5°	66.5	69.2	70.5	70.6	72.7	71.1	68.2	64.9	62.0	59.6	58.6
83°	60.3	62.8	64.0	64.1	66.3	64.6	61.7	58.6	55.8	53.5	52.5
83.5°	53.9	56.5	57.7	57.9	59.8	58.1	55.4	52.2	49.5	47.4	46.3
84°	48.0	50.4	51.5	51.6	53.4	51.9	49.3	46.2	43.5	41.7	40.5
84.5°	42.2	44.6	45.5	45.8	47.4	46.0	43.3	40.5	37.9	36.0	35.0
85°	36.6	38.9	39.8	39.8	41.8	40.3	37.7	34.9	32.5	30.5	29.7
85.5°	31.4	33.5	34.4	34.4	36.0	34.6	32.1	29.5	27.3	25.7	24.8
86°	26.6	28.5	29.3	29.4	30.7	29.3	27.0	24.7	22.8	21.1	20.4
86.5°	22.3	24.0	24.8	24.8	25.5	24.4	22.4	20.1	18.3	17.2	16.6
87°	18.0	19.8	20.4	20.4	21.3	20.0	18.3	16.3	14.7	13.4	12.9
87.5°	14.3	15.9	16.4	16.4	17.1	16.3	14.7	12.7	11.2	10.2	9.6
88°	10.7	12.1	12.7	12.7	13.6	12.6	11.1	9.4	8.1	7.1	6.9
88.5°	7.2	8.5	9.1	9.1	10.1	9.4	8.0	6.5	5.3	4.7	4.2
89°	5.0	6.0	6.3	6.1	7.2	6.4	5.2	4.0	3.1	2.6	2.4
89.5°	3.2	3.9	4.2	4.0	4.6	3.9	3.0	2.1	1.5	1.1	0.9

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869721
CATALOG NUMBER: SMX18RLSFSD2W-2500LM-2700K

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: P869721
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	878.8	878.8	878.8	878.8	878.8	878.8
0.5°	878.6	878.5	879.4	878.3	878.3	878.0
1°	877.8	877.9	878.9	877.7	878.1	878.0
1.5°	877.8	878.3	878.7	877.6	878.0	878.0
2°	877.4	878.3	878.1	877.3	878.0	877.8
2.5°	877.2	877.6	877.9	877.2	877.8	877.2
3°	876.6	876.8	877.9	876.4	877.7	876.6
3.5°	876.2	876.2	877.2	876.2	876.9	876.3
4°	876.2	875.3	876.4	876.1	876.1	876.0
4.5°	875.2	875.0	875.6	875.0	875.1	875.5
5°	874.6	874.6	875.2	874.0	874.2	875.3
5.5°	873.0	873.3	874.1	872.9	873.6	874.1
6°	872.1	872.3	873.0	872.7	873.3	873.1
6.5°	871.3	871.3	872.2	872.0	872.2	872.3
7°	870.7	870.2	871.2	870.8	871.6	871.3
7.5°	868.9	869.3	869.7	869.8	870.6	870.2
8°	867.9	867.8	868.6	868.4	869.1	869.1
8.5°	866.7	866.7	867.7	866.9	867.9	868.0
9°	865.1	865.1	866.6	866.0	866.5	866.8
9.5°	864.1	863.8	864.4	864.5	865.1	865.4
10°	862.8	862.7	862.9	862.5	863.8	864.4
10.5°	861.1	861.3	861.2	860.7	862.4	863.4
11°	859.2	859.4	859.8	859.6	861.2	861.8
11.5°	857.8	857.8	858.4	858.0	860.0	860.0
12°	856.0	855.9	857.2	856.2	858.2	858.6
12.5°	854.1	854.2	854.7	854.5	856.5	856.7
13°	852.3	852.5	853.4	853.2	854.7	855.1
13.5°	850.6	850.9	851.3	851.1	853.2	853.2
14°	848.3	848.7	849.6	849.4	851.5	852.2
14.5°	846.6	846.7	847.6	847.5	849.8	850.0
15°	844.5	844.5	845.4	845.1	847.6	847.4
15.5°	842.7	842.0	843.2	843.3	845.0	845.2
16°	840.6	839.6	841.2	840.8	842.7	842.7
16.5°	838.0	837.0	838.5	839.0	840.2	841.0
17°	835.7	834.2	835.7	837.2	837.9	838.4
17.5°	832.8	831.4	833.4	834.6	835.5	835.7
18°	830.2	829.0	830.3	832.0	832.8	833.4
18.5°	826.9	826.2	826.9	829.3	830.0	830.6
19°	824.0	823.5	824.1	827.1	827.1	827.7
19.5°	821.2	820.2	821.4	824.0	824.5	825.2
20°	818.3	817.4	819.1	821.1	822.0	822.4
20.5°	815.2	814.6	816.0	818.6	818.7	819.6
21°	812.3	811.5	813.1	815.8	815.7	816.7
21.5°	809.1	808.0	809.9	812.4	812.3	813.2
22°	806.1	804.7	806.2	809.0	809.1	810.1

TEST NUMBER: P869721
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	802.7	801.6	803.4	805.8	806.4	807.1
23°	799.7	798.5	800.3	802.5	803.6	804.3
23.5°	795.9	795.3	796.5	799.1	799.9	800.7
24°	792.6	791.9	792.9	795.2	796.0	797.5
24.5°	788.8	788.4	789.3	791.6	793.0	794.3
25°	785.5	785.1	786.7	788.2	789.9	790.8
25.5°	781.9	781.1	783.0	784.6	786.2	786.6
26°	778.1	777.4	779.4	780.8	782.7	783.3
26.5°	774.0	773.1	775.7	777.0	778.9	779.1
27°	770.4	769.4	771.8	773.3	774.9	775.6
27.5°	766.5	765.2	767.9	769.4	771.2	771.8
28°	762.7	761.5	764.3	765.6	767.7	768.1
28.5°	758.5	757.5	759.9	761.2	763.8	763.7
29°	754.8	753.3	755.8	757.3	759.7	759.7
29.5°	750.3	749.0	751.4	753.1	755.4	756.0
30°	746.0	745.1	747.4	749.1	751.4	752.1
30.5°	742.2	740.7	742.9	744.4	747.3	748.0
31°	737.7	736.4	738.7	740.3	743.4	743.6
31.5°	733.1	731.9	734.2	736.0	738.7	739.7
32°	728.6	727.2	730.3	731.9	734.6	735.1
32.5°	724.3	722.7	725.9	727.3	730.1	730.6
33°	719.8	718.6	721.5	722.9	726.0	726.4
33.5°	715.2	713.7	716.5	718.2	721.7	721.9
34°	710.8	708.8	711.9	713.7	717.1	717.2
34.5°	705.5	704.2	707.1	709.1	712.4	712.4
35°	700.6	699.6	702.5	703.9	707.5	707.5
35.5°	696.0	694.7	697.1	699.1	702.5	702.4
36°	691.1	689.9	692.6	694.6	698.0	698.1
36.5°	686.6	684.8	687.6	689.9	693.4	693.2
37°	681.7	679.7	682.6	684.8	688.3	688.4
37.5°	676.6	675.0	677.2	679.9	683.3	683.5
38°	670.8	669.7	672.0	674.5	678.0	677.7
38.5°	666.2	664.3	666.8	669.3	672.8	672.8
39°	661.0	659.3	661.6	664.3	667.6	667.8
39.5°	655.4	654.0	656.0	658.7	662.0	662.7
40°	650.1	648.5	651.2	653.6	656.6	657.0
40.5°	644.5	643.0	645.4	648.3	651.6	651.8
41°	638.8	637.7	639.9	642.4	645.3	646.8
41.5°	633.7	631.9	634.3	637.3	640.1	641.5
42°	628.0	626.3	629.0	631.7	634.3	635.7
42.5°	622.2	621.0	623.0	625.8	628.8	630.2
43°	617.1	615.5	617.6	620.2	623.2	624.6
43.5°	611.3	609.8	611.8	614.9	618.0	618.8
44°	605.1	603.8	606.0	609.2	612.5	613.5
44.5°	599.5	598.0	600.3	603.1	606.6	608.1

TEST NUMBER: P869721
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	593.7	592.0	594.4	597.6	600.6	602.0
45.5°	588.1	586.0	588.7	591.9	594.3	595.7
46°	581.6	579.8	582.8	585.5	588.4	590.4
46.5°	575.6	574.1	576.6	579.7	582.6	584.2
47°	569.7	567.6	570.2	573.3	576.6	578.5
47.5°	563.2	561.7	564.3	567.6	570.5	572.0
48°	557.0	555.3	557.8	561.2	564.3	566.1
48.5°	550.9	549.1	551.7	555.2	558.5	560.2
49°	544.5	543.3	545.5	548.8	552.4	553.7
49.5°	538.2	536.8	539.2	542.7	545.9	547.5
50°	531.9	530.2	532.6	536.2	539.7	541.2
50.5°	525.4	523.9	526.3	530.0	533.3	534.9
51°	518.9	517.6	519.8	523.6	526.9	528.2
51.5°	512.6	511.0	513.1	516.9	520.3	522.0
52°	505.8	504.2	506.7	510.1	513.7	515.5
52.5°	499.0	497.9	500.3	503.7	506.9	508.6
53°	492.9	491.1	493.6	497.0	500.7	501.6
53.5°	486.0	484.3	486.9	490.5	493.8	495.5
54°	479.1	477.5	480.1	483.5	486.9	489.0
54.5°	472.4	470.7	473.3	476.8	480.2	482.4
55°	466.0	464.1	466.8	470.2	473.3	475.2
55.5°	459.0	457.3	460.1	463.3	467.0	468.6
56°	451.9	450.5	452.9	456.8	460.2	462.0
56.5°	444.9	443.5	446.0	449.7	453.1	455.0
57°	438.3	436.3	439.0	442.7	445.8	447.8
57.5°	431.1	429.5	432.0	435.4	438.9	440.9
58°	423.9	422.3	424.9	428.4	431.8	434.0
58.5°	416.9	415.0	418.0	421.4	424.8	427.0
59°	409.8	408.0	410.7	414.0	417.6	419.7
59.5°	402.5	400.5	403.4	406.9	410.3	412.6
60°	395.3	393.3	396.2	399.7	403.0	405.4
60.5°	388.2	386.3	388.5	392.6	395.8	398.2
61°	380.8	379.0	381.6	385.1	388.5	391.3
61.5°	373.4	371.6	374.4	378.0	381.5	383.8
62°	366.1	364.3	367.0	370.5	374.0	376.3
62.5°	358.8	357.0	359.5	363.0	366.5	368.9
63°	351.2	349.4	351.9	355.2	359.1	361.6
63.5°	343.9	341.9	344.5	347.8	351.6	354.0
64°	336.1	334.1	336.8	340.6	344.1	346.8
64.5°	328.5	326.8	329.4	332.8	336.5	339.3
65°	321.2	319.5	321.8	325.0	329.1	331.7
65.5°	313.5	311.7	314.4	317.5	321.3	324.1
66°	305.9	304.2	306.5	310.0	313.8	316.8
66.5°	298.3	296.1	299.0	302.2	306.1	308.9
67°	290.4	288.6	291.1	294.4	298.5	301.3

TEST NUMBER: P869721
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	283.0	281.0	283.5	286.9	290.8	293.7
68°	275.3	273.0	275.8	279.1	283.2	285.8
68.5°	267.5	265.4	267.8	271.2	275.2	278.2
69°	259.7	257.5	260.0	263.4	267.5	270.6
69.5°	251.9	249.7	252.3	255.6	259.6	262.4
70°	244.2	242.0	244.8	248.0	251.7	254.7
70.5°	236.6	234.2	236.8	240.0	244.2	247.1
71°	228.7	226.4	229.2	232.5	236.3	239.1
71.5°	220.9	218.5	221.0	224.3	228.4	231.2
72°	213.1	210.9	213.1	216.5	220.5	223.6
72.5°	205.1	203.0	205.5	208.8	212.7	215.7
73°	197.3	195.1	197.5	200.9	204.7	207.8
73.5°	189.7	187.3	189.6	193.1	197.0	200.1
74°	182.0	179.4	181.8	185.3	188.9	192.3
74.5°	174.1	171.8	174.0	177.3	181.1	184.5
75°	166.4	164.1	166.4	169.7	173.3	176.5
75.5°	158.9	156.5	158.5	162.1	165.7	169.0
76°	151.1	148.6	150.9	154.2	157.8	161.2
76.5°	143.4	141.1	143.2	146.6	150.4	153.5
77°	135.6	133.5	135.7	139.0	142.7	145.8
77.5°	128.1	125.9	128.2	131.7	135.3	138.1
78°	120.6	118.5	120.8	124.0	127.8	130.7
78.5°	113.3	111.2	113.4	116.5	120.3	123.1
79°	106.0	103.6	106.0	109.2	113.0	115.8
79.5°	98.8	96.5	98.7	101.9	105.6	108.3
80°	91.8	89.5	91.5	94.8	98.2	101.1
80.5°	84.9	82.5	84.7	87.7	91.0	94.1
81°	78.2	75.7	77.7	80.8	84.1	87.0
81.5°	71.4	69.0	70.9	74.0	77.4	80.2
82°	64.7	62.6	64.3	67.4	70.4	73.1
82.5°	58.3	56.2	58.1	60.8	64.0	66.5
83°	52.3	50.1	52.0	54.8	57.8	60.3
83.5°	46.2	44.2	45.8	48.5	51.6	53.9
84°	40.4	38.5	40.2	42.7	45.6	48.0
84.5°	34.9	33.3	34.8	37.2	39.9	42.2
85°	29.5	28.2	29.7	32.0	34.5	36.6
85.5°	24.7	23.8	25.0	27.0	29.4	31.4
86°	20.3	19.4	20.6	22.6	24.9	26.6
86.5°	16.5	15.4	16.5	18.3	20.5	22.3
87°	13.0	11.7	12.8	14.5	16.4	18.0
87.5°	9.6	8.2	9.4	11.0	12.7	14.3
88°	6.7	5.8	6.3	7.6	9.1	10.7
88.5°	4.3	3.7	4.3	5.2	6.3	7.2
89°	2.4	2.2	2.7	3.5	4.2	5.0
89.5°	1.0	1.4	1.7	2.2	2.8	3.2

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



TEST NUMBER: P869721
CATALOG NUMBER: SMX18RLSFSD2W-2500LM-2700K

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)