

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: P869707

Luminaire Tested: **SMX18RLSFS010-2500LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869707
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS010-2500LM-3000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

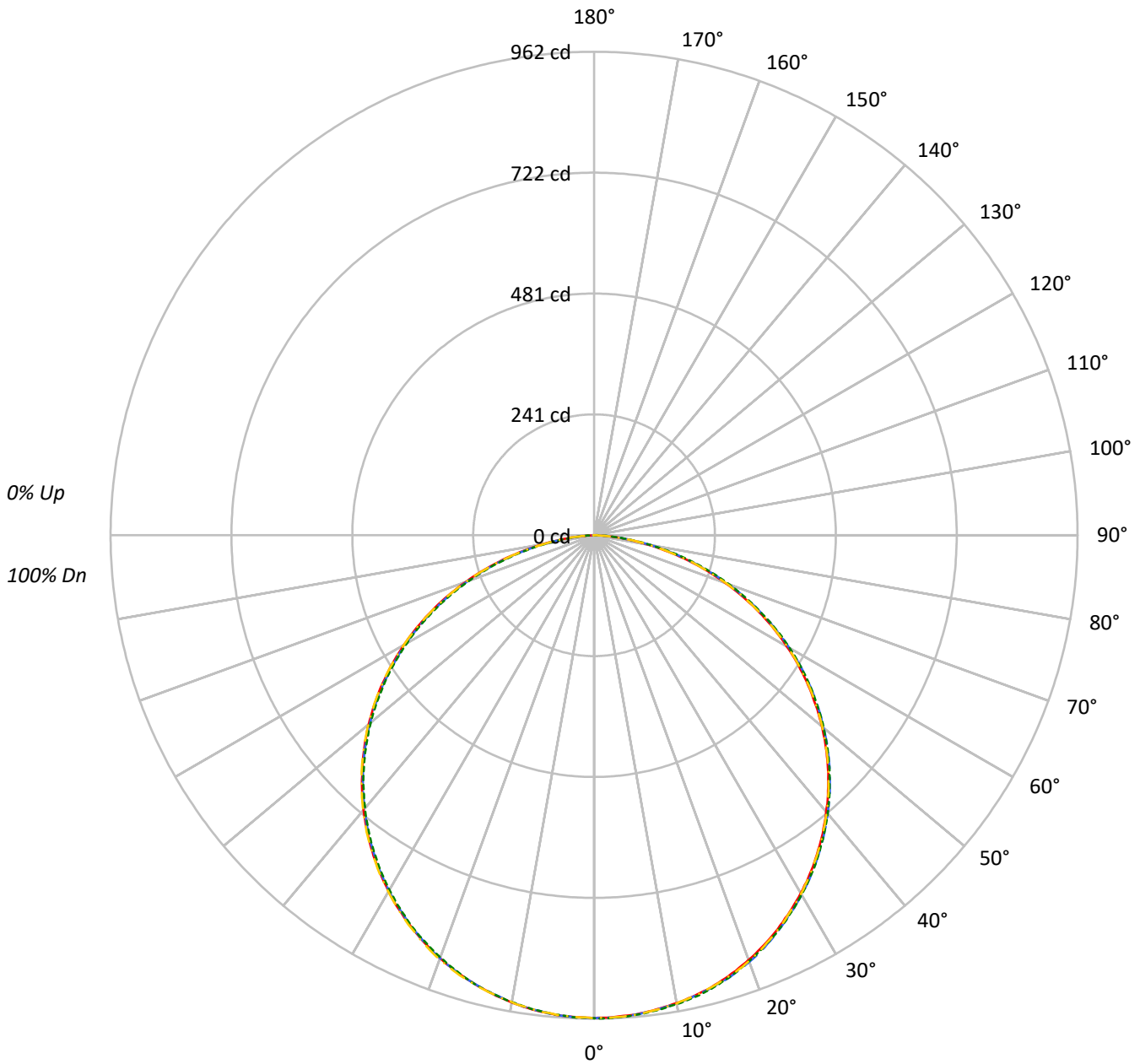
Lumens per Lamp: N/A
 Luminaire Lumens: 2805.0 lumens
 Efficiency: N/A
 Efficacy: 95.4 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 29.4
 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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CATALOG NUMBER: SMX18RLSFS010-2500LM-3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5854	5854	5854	5854
5°	5853	5856	5847	5848
10°	5846	5860	5840	5835
15°	5844	5860	5824	5824
20°	5830	5846	5807	5794
25°	5812	5829	5782	5770
30°	5785	5808	5753	5731
35°	5753	5781	5717	5689
40°	5713	5749	5673	5638
45°	5671	5708	5616	5576
50°	5609	5651	5547	5494
55°	5519	5578	5452	5389
60°	5400	5471	5325	5240
65°	5229	5320	5137	5034
70°	4960	5090	4849	4712
75°	4542	4723	4406	4222
80°	3876	4129	3683	3434
85°	2796	3194	2481	2160

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 CATALOG NUMBER: SMX18RLSFS010-2500LM-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.2
10°-20°	261.4	9.3
20°-30°	397.9	14.2
30°-40°	483.2	17.2
40°-50°	505.8	18.0
50°-60°	462.0	16.5
60°-70°	355.4	12.7
70°-80°	201.0	7.2
80°-90°	47.4	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°	750.2	26.7
0°-40°	1233.4	44.0
0°-60°	2201.2	78.5
0°-90°	2805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2805.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	961	961	961	961	961	
5°	957	958	956	956	957	91
15°	927	929	924	924	927	262
25°	865	867	860	859	865	398
35°	774	778	769	765	774	484
45°	658	663	652	647	658	508
55°	520	525	513	508	520	464
65°	363	369	356	349	363	358
75°	193	201	187	179	193	204
85°	40	46	36	31	40	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0
0.5°	960.2	960.9	960.8	960.9	961.5	962.1	960.9	961.2	960.0	960.8	961.0
1°	960.2	961.0	960.7	961.2	961.7	961.8	960.2	960.7	960.2	960.6	960.7
1.5°	960.2	961.4	960.6	960.6	961.3	961.3	960.7	960.3	959.8	960.6	960.5
2°	959.9	960.9	960.4	960.2	960.9	961.3	960.5	960.1	959.6	960.0	959.7
2.5°	959.3	960.7	960.2	960.1	960.9	960.8	960.0	959.3	959.5	959.9	959.7
3°	958.7	960.2	960.2	959.5	960.2	959.8	959.6	958.9	958.5	960.1	958.9
3.5°	958.3	959.5	959.8	959.5	959.6	959.2	959.5	958.7	958.7	959.4	958.7
4°	958.0	959.0	959.0	958.8	959.6	959.0	958.7	958.3	958.3	958.2	958.1
4.5°	957.5	957.9	958.1	958.6	958.4	958.8	958.3	957.7	957.4	957.5	957.4
5°	957.2	957.1	957.2	957.8	957.7	958.0	957.6	956.4	956.3	956.7	956.8
5.5°	955.9	956.9	956.9	957.4	957.2	957.6	957.0	955.9	955.5	955.6	955.7
6°	954.8	956.0	955.3	956.3	956.5	956.6	955.7	955.3	954.3	954.5	953.8
6.5°	954.0	954.9	954.6	955.2	955.3	955.8	954.5	954.5	953.9	953.1	952.8
7°	952.9	953.6	953.7	953.9	954.1	954.7	953.3	952.9	952.5	952.5	952.1
7.5°	951.7	952.4	952.6	953.2	953.8	953.3	952.8	951.4	951.4	951.3	950.9
8°	950.5	951.3	951.2	951.7	952.5	952.4	951.8	950.7	949.9	949.6	949.5
8.5°	949.2	950.4	950.2	950.5	951.2	951.4	949.7	949.2	948.8	948.4	948.3
9°	947.9	949.1	948.6	949.3	949.6	950.0	948.4	947.9	947.1	946.9	946.7
9.5°	946.3	947.8	947.6	948.1	948.4	948.8	947.4	946.4	945.8	945.2	945.1
10°	945.2	946.2	946.0	946.4	947.4	947.2	945.7	944.5	944.2	943.3	943.1
10.5°	944.1	944.6	944.5	945.5	946.1	945.7	943.8	943.2	942.0	941.7	941.4
11°	942.4	942.9	943.0	943.9	944.4	944.0	942.3	941.5	940.3	940.5	939.4
11.5°	940.4	941.3	941.3	942.4	943.1	942.6	940.7	939.2	938.5	939.0	937.7
12°	938.9	939.8	939.6	940.9	941.2	940.8	939.2	937.5	936.9	936.4	935.9
12.5°	936.9	937.8	937.4	939.0	940.0	939.0	937.5	935.4	934.4	934.3	934.2
13°	935.1	936.3	935.8	937.6	938.2	937.4	935.4	933.3	932.6	932.2	932.0
13.5°	933.0	934.1	934.3	935.4	936.0	935.4	933.4	931.8	930.3	929.8	930.2
14°	931.9	932.2	932.4	934.0	934.0	933.4	931.0	929.7	928.1	927.9	928.1
14.5°	929.5	929.8	930.5	932.0	932.0	931.5	929.4	927.1	926.2	925.1	925.3
15°	926.7	927.5	928.5	929.0	929.3	929.0	927.4	925.0	923.5	923.2	923.2
15.5°	924.3	925.6	926.2	927.1	927.6	926.9	925.0	922.2	921.1	920.8	921.0
16°	921.6	923.8	924.4	924.8	924.6	924.8	922.9	919.7	918.8	918.5	918.6
16.5°	919.7	921.3	922.5	922.3	922.2	922.2	920.0	917.8	916.1	915.8	915.7
17°	916.8	918.5	920.0	919.8	919.9	919.6	917.7	915.1	913.2	912.9	912.6
17.5°	913.8	915.8	917.4	917.4	917.0	916.8	915.5	912.2	911.1	910.0	910.2
18°	911.4	913.1	914.7	913.9	914.1	913.9	913.4	909.5	908.1	907.2	907.6
18.5°	908.3	910.0	912.2	911.2	910.7	911.0	910.2	906.3	904.9	904.4	904.5
19°	905.1	907.4	909.4	908.2	907.9	907.8	907.8	903.7	902.2	901.1	902.0
19.5°	902.4	904.4	906.2	905.1	905.3	905.1	904.2	900.9	898.9	897.8	899.1
20°	899.4	901.7	903.3	901.5	901.8	902.0	901.3	897.5	895.9	895.1	895.8
20.5°	896.3	898.0	900.5	898.7	898.6	898.2	897.9	894.3	893.2	891.9	892.6
21°	893.1	894.5	897.4	895.5	895.7	894.6	895.5	891.1	890.0	888.6	889.4
21.5°	889.3	891.2	894.1	892.5	892.0	891.9	891.8	888.1	886.1	885.0	886.2
22°	885.9	887.9	890.8	888.9	888.9	888.3	888.6	885.0	882.2	881.3	882.7

TEST NUMBER: P869707
 CATALOG NUMBER: SMX18RLSFS010-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	882.6	884.6	887.2	885.4	885.4	884.7	885.0	881.4	878.9	877.5	878.6
23°	879.5	881.4	883.1	882.2	881.8	881.5	880.8	877.5	875.3	874.3	874.7
23.5°	875.6	878.2	879.9	878.8	878.4	878.2	877.5	874.1	871.5	871.2	870.6
24°	872.1	874.5	876.0	875.0	874.8	873.9	873.8	870.8	868.2	866.7	866.8
24.5°	868.6	870.9	871.8	871.2	871.5	869.7	869.7	867.0	864.3	862.9	863.4
25°	864.8	866.9	868.0	867.7	867.3	866.6	865.8	863.5	860.3	859.0	858.7
25.5°	860.2	862.8	864.0	864.1	863.8	863.3	861.8	859.9	856.5	855.2	854.6
26°	856.6	859.3	859.9	860.1	859.8	858.8	857.7	855.8	852.3	851.4	851.2
26.5°	852.0	855.2	855.9	855.8	855.9	854.8	853.4	851.8	848.4	847.2	846.5
27°	848.1	851.4	851.6	852.0	851.3	851.1	849.1	847.5	844.0	843.4	842.3
27.5°	844.0	847.4	847.6	848.5	847.5	846.4	844.6	843.6	839.8	839.5	838.3
28°	839.9	842.9	843.7	844.2	843.6	842.6	840.3	839.1	836.1	835.3	834.0
28.5°	835.2	839.1	838.9	839.7	839.2	838.5	836.6	835.2	831.8	830.8	829.9
29°	830.8	835.1	834.5	835.3	835.1	834.1	832.1	831.0	827.3	826.2	825.3
29.5°	826.8	830.7	830.7	831.3	830.3	829.5	827.8	826.8	822.7	821.7	821.0
30°	822.5	826.2	826.4	827.0	825.8	825.1	823.7	822.1	818.0	817.3	815.8
30.5°	818.0	822.0	821.8	822.5	821.3	820.7	819.3	817.8	813.3	812.8	811.6
31°	813.1	817.4	817.3	817.7	817.2	816.1	814.2	813.0	808.7	807.6	807.0
31.5°	808.9	812.2	812.4	813.2	812.2	811.1	809.7	808.0	804.1	802.8	802.1
32°	803.9	807.2	807.8	808.9	807.3	806.2	804.8	803.3	799.2	798.6	797.0
32.5°	799.0	802.6	802.7	804.2	802.5	802.0	799.8	798.7	794.3	793.8	792.4
33°	794.4	797.8	797.7	799.2	798.0	797.0	795.1	793.5	789.3	789.1	787.3
33.5°	789.5	793.0	793.1	794.1	793.6	792.3	789.9	788.5	784.2	784.0	782.1
34°	784.3	788.3	788.3	789.2	788.3	787.3	784.6	784.1	779.5	778.7	776.7
34.5°	779.0	783.0	782.9	784.1	782.8	782.3	779.8	778.9	774.5	773.5	771.7
35°	773.7	778.0	777.5	779.1	777.5	777.2	774.4	773.2	768.9	768.3	766.5
35.5°	768.1	772.7	772.6	774.1	772.5	772.0	769.3	768.1	763.7	763.3	761.3
36°	763.4	767.7	767.2	768.8	767.1	766.7	764.0	762.7	758.4	757.8	755.9
36.5°	758.1	762.3	762.0	763.3	761.6	761.3	758.7	757.5	753.1	752.9	750.8
37°	752.9	757.1	756.9	757.7	756.7	756.3	753.4	752.2	747.5	747.0	744.7
37.5°	747.4	751.3	751.3	752.6	751.6	750.8	748.0	746.8	742.0	740.9	739.1
38°	741.1	745.6	745.6	747.0	745.7	745.0	742.3	741.4	736.4	735.4	733.6
38.5°	735.7	739.9	740.2	741.7	740.1	739.3	736.8	736.0	730.6	729.2	728.1
39°	730.3	734.7	734.6	736.0	734.6	734.1	730.8	730.1	725.1	724.0	722.5
39.5°	724.7	728.4	728.9	730.2	728.9	728.1	725.3	724.4	719.2	718.4	716.8
40°	718.5	722.6	723.3	724.1	723.0	722.5	719.8	718.4	713.4	712.2	710.7
40.5°	712.7	716.7	717.4	718.5	717.3	717.0	714.4	712.0	707.6	705.9	705.1
41°	707.3	710.9	711.4	712.5	711.2	710.9	708.1	705.7	701.7	700.3	698.8
41.5°	701.5	704.8	705.7	706.5	705.5	704.7	702.5	700.0	696.0	694.1	693.1
42°	695.2	698.6	699.9	700.6	699.6	698.9	696.3	693.8	689.8	687.9	686.8
42.5°	689.2	692.8	694.1	694.4	693.4	692.9	690.5	687.4	683.6	682.0	680.5
43°	683.0	686.4	687.8	688.1	687.3	686.7	684.0	681.4	677.1	676.0	674.6
43.5°	676.7	680.4	681.3	682.1	681.1	680.3	677.4	675.1	670.9	669.9	668.4
44°	670.9	674.4	675.5	675.7	675.0	674.6	671.3	669.1	664.6	663.8	662.0
44.5°	665.0	668.2	669.4	669.7	668.9	668.1	665.1	662.5	658.5	657.4	655.8

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 CATALOG NUMBER: SMX18RLSFS010-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	658.3	661.3	663.3	663.6	662.6	661.8	658.9	656.1	652.0	650.8	649.1
45.5°	651.5	655.3	656.8	657.1	655.9	655.5	652.7	649.8	645.7	643.7	642.9
46°	645.6	648.8	650.1	650.4	649.4	648.9	646.1	643.4	639.1	637.4	636.3
46.5°	638.9	642.3	644.1	643.6	643.1	642.5	639.9	636.6	632.1	630.8	630.0
47°	632.6	635.8	637.3	637.5	636.5	636.0	633.2	630.5	625.9	624.4	623.4
47.5°	625.5	629.1	630.9	631.1	630.2	629.4	626.3	624.2	619.2	617.7	616.2
48°	619.1	622.7	624.0	624.2	623.4	623.1	620.0	617.2	612.7	610.8	609.4
48.5°	612.6	616.0	617.5	617.3	616.4	616.0	613.2	609.9	605.5	604.0	603.0
49°	605.5	609.0	610.4	610.7	609.8	609.3	606.1	603.2	599.2	597.2	595.8
49.5°	598.7	602.0	603.6	604.0	603.0	602.7	599.5	596.4	592.5	590.4	589.3
50°	591.9	595.5	596.6	596.9	596.3	595.8	592.7	589.7	585.4	583.8	582.2
50.5°	585.0	588.8	590.0	590.2	589.6	588.7	585.7	582.6	578.2	576.3	575.2
51°	577.6	581.6	582.8	582.9	582.6	581.6	578.5	575.8	571.0	569.1	567.9
51.5°	570.8	574.7	575.9	576.1	575.4	574.7	571.2	568.8	564.3	562.4	560.9
52°	563.7	567.5	568.9	569.1	568.5	567.5	564.4	561.8	557.5	555.0	554.0
52.5°	556.2	560.3	561.5	561.7	561.1	560.7	557.5	554.8	550.0	547.9	546.5
53°	548.5	553.0	554.4	554.4	553.7	553.5	550.4	547.1	542.6	540.5	539.3
53.5°	541.8	545.7	547.2	547.4	546.8	546.2	543.0	540.0	535.3	533.3	532.2
54°	534.7	538.3	539.8	539.9	539.7	538.7	535.7	532.5	528.5	525.8	524.7
54.5°	527.6	530.9	532.7	532.5	532.6	531.7	528.5	525.4	521.1	518.2	517.1
55°	519.7	523.8	525.3	525.1	525.3	524.1	521.2	518.0	513.4	511.0	510.0
55.5°	512.4	516.2	518.0	517.6	517.8	516.9	513.7	511.0	505.9	504.1	502.2
56°	505.2	508.7	510.4	510.2	510.5	509.2	506.1	503.1	498.4	496.3	494.5
56.5°	497.6	501.1	502.8	502.7	503.1	501.6	498.4	495.9	490.8	488.5	486.9
57°	489.7	493.5	495.4	495.2	495.6	494.2	491.1	488.2	483.6	480.8	479.0
57.5°	482.1	486.0	487.8	487.5	488.0	486.4	483.1	480.4	475.6	473.0	471.6
58°	474.6	478.4	480.1	479.9	480.0	478.8	475.6	472.6	468.0	465.4	463.9
58.5°	467.0	471.0	472.6	472.2	472.4	471.2	468.0	465.1	460.5	457.8	456.2
59°	459.0	463.0	464.7	464.3	465.0	463.2	460.2	457.0	452.7	450.3	448.5
59.5°	451.3	455.1	456.9	456.6	457.2	455.5	452.3	449.1	444.7	441.7	440.4
60°	443.3	447.1	448.8	448.5	449.1	447.5	444.1	441.1	437.1	434.0	432.5
60.5°	435.5	439.1	440.9	440.7	441.4	439.9	436.6	433.5	429.1	426.3	424.8
61°	427.9	431.4	433.1	432.8	433.7	431.8	428.6	425.7	421.2	418.4	417.0
61.5°	419.7	423.3	425.2	425.1	425.9	423.8	420.7	417.8	413.2	410.2	408.8
62°	411.5	415.2	417.4	417.3	418.0	416.0	412.6	409.6	405.4	402.1	400.4
62.5°	403.4	407.4	409.0	409.0	409.8	407.9	404.5	401.4	397.0	394.2	392.4
63°	395.4	399.3	400.7	400.9	401.7	399.9	396.4	393.3	389.0	386.0	384.3
63.5°	387.2	390.9	392.6	392.8	393.8	392.0	388.5	385.4	380.7	377.6	376.0
64°	379.2	382.9	384.5	384.5	385.5	383.5	380.2	377.0	372.7	369.5	367.9
64.5°	371.0	374.9	376.3	376.7	377.5	375.5	372.1	368.7	364.5	361.3	359.4
65°	362.8	366.5	368.1	368.5	369.1	367.3	363.7	360.4	356.4	353.1	351.4
65.5°	354.5	358.2	359.8	360.0	360.7	359.1	355.6	352.2	348.2	344.8	343.2
66°	346.4	349.9	351.5	351.6	352.6	350.7	347.0	343.6	339.6	336.7	335.2
66.5°	337.8	341.6	343.2	343.3	344.5	342.2	339.0	335.4	331.5	328.2	326.6
67°	329.5	333.3	334.9	335.1	336.2	334.3	330.7	327.0	323.1	319.8	318.0

TEST NUMBER: P869707
 CATALOG NUMBER: SMX18RLSFS010-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	321.2	324.8	326.3	326.6	328.0	325.7	322.5	318.7	314.7	311.2	309.6
68°	312.5	316.1	317.8	317.9	319.4	317.1	313.9	310.1	306.3	303.1	301.2
68.5°	304.2	308.0	309.4	309.9	311.4	308.7	305.5	301.6	298.1	294.9	293.0
69°	295.9	299.6	300.8	301.6	303.0	300.4	296.7	293.3	289.5	286.2	284.6
69.5°	287.0	291.0	292.5	292.6	294.3	292.0	288.5	285.1	281.1	277.6	275.7
70°	278.5	282.4	283.9	284.1	285.8	283.5	279.8	276.2	272.3	269.3	267.3
70.5°	270.2	273.7	275.1	275.7	277.5	275.0	271.4	267.8	264.1	260.7	258.8
71°	261.5	265.5	266.7	267.2	269.1	266.8	263.2	259.2	255.6	252.3	250.5
71.5°	252.9	256.9	258.2	258.7	260.5	258.1	254.5	250.6	246.9	243.6	241.9
72°	244.5	248.2	249.5	250.0	252.1	249.7	245.9	242.1	238.3	234.8	233.1
72.5°	235.9	239.4	240.9	241.3	243.5	241.1	237.6	233.3	229.6	226.4	224.7
73°	227.3	230.8	232.3	232.7	234.7	232.3	228.6	224.7	221.3	217.9	216.0
73.5°	218.9	222.3	223.9	224.1	226.5	223.9	220.2	216.0	212.8	209.2	207.6
74°	210.3	213.8	215.2	215.6	217.9	215.4	211.7	207.6	204.2	200.7	199.1
74.5°	201.8	205.4	206.9	207.0	209.2	207.0	203.3	199.0	195.7	192.3	190.5
75°	193.0	196.6	198.1	198.3	200.7	198.4	194.8	190.4	187.2	183.7	181.9
75.5°	184.9	188.2	189.8	189.7	192.4	189.8	186.2	182.3	178.7	175.5	173.7
76°	176.3	179.8	181.4	181.3	183.8	181.4	177.7	173.8	170.4	167.1	165.2
76.5°	167.9	171.3	172.9	172.7	175.4	172.9	169.1	165.6	161.9	158.3	156.7
77°	159.5	163.0	164.7	164.5	166.9	164.6	160.9	157.3	153.5	150.2	148.3
77.5°	151.1	154.6	156.2	156.2	158.7	156.3	152.7	148.7	145.4	141.9	140.3
78°	142.9	146.4	147.7	148.0	150.3	148.0	144.3	140.6	136.8	134.0	132.1
78.5°	134.6	138.0	139.7	139.9	142.1	139.6	136.0	132.1	128.8	125.5	124.0
79°	126.7	130.1	131.7	131.8	133.9	131.5	128.1	124.2	120.7	117.6	116.2
79.5°	118.5	121.8	123.5	123.7	125.7	123.5	120.0	116.0	112.7	109.7	108.1
80°	110.5	113.7	115.3	115.5	117.7	115.7	111.8	108.1	105.0	102.3	100.5
80.5°	102.9	106.0	107.5	107.9	109.8	107.8	104.4	100.7	97.3	94.5	93.0
81°	95.2	98.3	99.8	100.2	102.5	100.4	96.7	93.0	89.9	87.0	85.7
81.5°	87.7	90.6	92.2	92.4	94.4	92.6	89.2	85.5	82.2	79.6	78.4
82°	79.9	83.1	84.5	84.5	86.8	85.0	82.0	78.2	74.8	72.3	71.0
82.5°	72.7	75.7	77.1	77.2	79.5	77.7	74.6	71.0	67.8	65.2	64.1
83°	65.9	68.7	70.0	70.1	72.5	70.6	67.5	64.1	61.0	58.5	57.4
83.5°	59.0	61.8	63.1	63.3	65.4	63.5	60.6	57.1	54.2	51.9	50.7
84°	52.5	55.2	56.3	56.5	58.4	56.8	53.9	50.6	47.5	45.6	44.3
84.5°	46.1	48.7	49.7	50.1	51.9	50.4	47.3	44.3	41.4	39.3	38.3
85°	40.0	42.5	43.5	43.5	45.7	44.0	41.2	38.1	35.5	33.4	32.5
85.5°	34.3	36.6	37.6	37.6	39.3	37.8	35.1	32.3	29.9	28.1	27.1
86°	29.1	31.2	32.0	32.1	33.6	32.0	29.5	27.0	25.0	23.1	22.3
86.5°	24.4	26.3	27.1	27.1	27.9	26.7	24.5	22.0	20.1	18.8	18.2
87°	19.7	21.7	22.3	22.3	23.3	21.9	20.0	17.9	16.0	14.6	14.1
87.5°	15.6	17.4	18.0	18.0	18.7	17.9	16.0	13.9	12.2	11.1	10.5
88°	11.7	13.2	13.9	13.8	14.8	13.7	12.1	10.2	8.8	7.7	7.5
88.5°	7.9	9.3	9.9	9.9	11.0	10.2	8.7	7.1	5.8	5.1	4.6
89°	5.4	6.5	6.9	6.7	7.8	7.0	5.7	4.4	3.4	2.8	2.6
89.5°	3.5	4.3	4.6	4.4	5.0	4.3	3.3	2.3	1.6	1.2	1.0

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



TEST NUMBER: P869707
CATALOG NUMBER: SMX18RLSFS010-2500LM-3000K

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: P869707
 CATALOG NUMBER: SMX18RLSFS010-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	961.0	961.0	961.0	961.0	961.0	961.0
0.5°	960.8	960.7	961.7	960.5	960.5	960.2
1°	960.0	960.1	961.1	959.8	960.3	960.2
1.5°	959.9	960.5	960.9	959.7	960.2	960.2
2°	959.5	960.5	960.3	959.4	960.2	959.9
2.5°	959.3	959.7	960.1	959.3	959.9	959.3
3°	958.6	958.9	960.1	958.4	959.8	958.7
3.5°	958.2	958.2	959.3	958.2	959.0	958.3
4°	958.2	957.2	958.4	958.1	958.1	958.0
4.5°	957.1	956.9	957.6	956.9	957.0	957.5
5°	956.5	956.5	957.1	955.8	956.0	957.2
5.5°	954.7	955.0	955.9	954.6	955.4	955.9
6°	953.7	954.0	954.7	954.4	955.0	954.8
6.5°	952.9	952.9	953.9	953.6	953.9	954.0
7°	952.2	951.7	952.8	952.3	953.2	952.9
7.5°	950.1	950.7	951.1	951.2	952.1	951.7
8°	949.1	948.9	949.8	949.6	950.5	950.5
8.5°	947.8	947.7	948.8	948.0	949.1	949.2
9°	946.0	946.0	947.6	947.0	947.5	947.9
9.5°	944.9	944.6	945.2	945.4	946.0	946.3
10°	943.5	943.4	943.6	943.2	944.6	945.2
10.5°	941.6	941.9	941.8	941.2	943.1	944.1
11°	939.6	939.8	940.2	940.0	941.8	942.4
11.5°	938.1	938.1	938.7	938.3	940.5	940.4
12°	936.1	936.0	937.4	936.3	938.5	938.9
12.5°	934.0	934.1	934.7	934.4	936.6	936.9
13°	932.0	932.3	933.2	933.0	934.7	935.1
13.5°	930.2	930.5	931.0	930.7	933.0	933.0
14°	927.7	928.1	929.1	928.9	931.2	931.9
14.5°	925.8	925.9	926.9	926.8	929.3	929.5
15°	923.6	923.6	924.5	924.2	926.9	926.7
15.5°	921.6	920.8	922.1	922.2	924.1	924.3
16°	919.3	918.2	919.9	919.5	921.6	921.6
16.5°	916.4	915.3	917.0	917.6	918.9	919.7
17°	913.9	912.2	913.9	915.5	916.3	916.8
17.5°	910.7	909.2	911.3	912.6	913.6	913.8
18°	907.9	906.5	908.0	909.8	910.7	911.4
18.5°	904.3	903.5	904.3	906.9	907.6	908.3
19°	901.1	900.5	901.2	904.5	904.5	905.1
19.5°	898.0	896.9	898.3	901.1	901.6	902.4
20°	894.9	893.9	895.8	897.9	898.9	899.4
20.5°	891.5	890.9	892.4	895.2	895.3	896.3
21°	888.3	887.5	889.2	892.2	892.0	893.1
21.5°	884.9	883.7	885.7	888.5	888.3	889.3
22°	881.5	880.0	881.6	884.7	884.8	885.9

TEST NUMBER: P869707
 CATALOG NUMBER: SMX18RLSFS010-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	877.8	876.6	878.5	881.2	881.8	882.6
23°	874.5	873.2	875.2	877.6	878.8	879.5
23.5°	870.4	869.7	871.0	873.8	874.7	875.6
24°	866.8	866.0	867.1	869.6	870.5	872.1
24.5°	862.6	862.2	863.2	865.7	867.2	868.6
25°	859.0	858.6	860.3	862.0	863.8	864.8
25.5°	855.1	854.2	856.3	858.0	859.8	860.2
26°	850.9	850.1	852.4	853.9	856.0	856.6
26.5°	846.4	845.4	848.2	849.6	851.8	852.0
27°	842.5	841.4	844.0	845.6	847.4	848.1
27.5°	838.2	836.8	839.7	841.4	843.3	844.0
28°	834.1	832.8	835.8	837.2	839.5	839.9
28.5°	829.5	828.4	831.0	832.4	835.3	835.2
29°	825.4	823.8	826.5	828.2	830.8	830.8
29.5°	820.5	819.1	821.7	823.6	826.1	826.8
30°	815.8	814.8	817.4	819.2	821.7	822.5
30.5°	811.6	810.0	812.4	814.0	817.3	818.0
31°	806.7	805.3	807.8	809.5	812.9	813.1
31.5°	801.7	800.4	802.9	804.8	807.8	808.9
32°	796.8	795.3	798.6	800.4	803.3	803.9
32.5°	792.1	790.4	793.8	795.4	798.4	799.0
33°	787.2	785.9	789.0	790.6	794.0	794.4
33.5°	782.1	780.4	783.5	785.4	789.3	789.5
34°	777.3	775.1	778.5	780.4	784.2	784.3
34.5°	771.5	770.1	773.2	775.4	779.0	779.0
35°	766.2	765.1	768.2	769.8	773.7	773.7
35.5°	761.1	759.7	762.3	764.5	768.2	768.1
36°	755.8	754.5	757.4	759.6	763.3	763.4
36.5°	750.9	748.8	752.0	754.5	758.3	758.1
37°	745.5	743.3	746.4	748.8	752.7	752.9
37.5°	739.9	738.1	740.5	743.5	747.2	747.4
38°	733.6	732.4	734.9	737.6	741.4	741.1
38.5°	728.6	726.5	729.2	731.9	735.7	735.7
39°	722.9	721.0	723.5	726.5	730.1	730.3
39.5°	716.7	715.2	717.4	720.4	724.0	724.7
40°	710.9	709.1	712.1	714.7	718.1	718.5
40.5°	704.8	703.2	705.8	708.9	712.5	712.7
41°	698.6	697.4	699.8	702.5	705.7	707.3
41.5°	693.0	691.1	693.7	696.9	700.0	701.5
42°	686.8	685.0	687.9	690.8	693.7	695.2
42.5°	680.4	679.1	681.3	684.4	687.7	689.2
43°	674.8	673.1	675.4	678.2	681.5	683.0
43.5°	668.5	666.9	669.0	672.4	675.8	676.7
44°	661.7	660.3	662.7	666.2	669.8	670.9
44.5°	655.6	654.0	656.5	659.6	663.4	665.0

TEST NUMBER: P869707
 CATALOG NUMBER: SMX18RLSFS010-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	649.2	647.3	650.0	653.6	656.8	658.3
45.5°	643.1	640.8	643.8	647.2	649.9	651.5
46°	636.0	634.1	637.3	640.3	643.4	645.6
46.5°	629.5	627.8	630.6	633.9	637.1	638.9
47°	623.0	620.8	623.6	627.0	630.6	632.6
47.5°	615.8	614.2	617.2	620.7	623.9	625.5
48°	609.1	607.2	610.0	613.7	617.1	619.1
48.5°	602.4	600.5	603.3	607.1	610.7	612.6
49°	595.5	594.2	596.6	600.1	604.1	605.5
49.5°	588.6	587.1	589.7	593.5	597.0	598.7
50°	581.6	579.8	582.4	586.4	590.2	591.9
50.5°	574.5	572.9	575.5	579.6	583.1	585.0
51°	567.5	566.0	568.4	572.6	576.2	577.6
51.5°	560.6	558.8	561.1	565.3	569.0	570.8
52°	553.2	551.4	554.2	557.9	561.8	563.7
52.5°	545.7	544.4	547.1	550.9	554.4	556.2
53°	539.0	537.0	539.8	543.5	547.5	548.5
53.5°	531.5	529.6	532.5	536.4	540.0	541.8
54°	524.0	522.2	525.0	528.8	532.5	534.7
54.5°	516.5	514.7	517.6	521.5	525.2	527.6
55°	509.6	507.5	510.4	514.1	517.6	519.7
55.5°	501.9	500.1	503.1	506.6	510.7	512.4
56°	494.2	492.7	495.3	499.5	503.2	505.2
56.5°	486.6	485.0	487.8	491.8	495.5	497.6
57°	479.3	477.1	480.0	484.2	487.6	489.7
57.5°	471.4	469.7	472.4	476.1	479.9	482.1
58°	463.6	461.8	464.7	468.5	472.2	474.6
58.5°	455.9	453.9	457.1	460.8	464.6	467.0
59°	448.1	446.1	449.1	452.8	456.7	459.0
59.5°	440.1	438.0	441.1	444.9	448.6	451.3
60°	432.3	430.1	433.3	437.1	440.7	443.3
60.5°	424.5	422.5	424.9	429.3	432.8	435.5
61°	416.4	414.4	417.4	421.2	424.9	427.9
61.5°	408.3	406.4	409.4	413.3	417.2	419.7
62°	400.3	398.4	401.3	405.1	409.0	411.5
62.5°	392.4	390.4	393.2	397.0	400.8	403.4
63°	384.1	382.0	384.9	388.5	392.7	395.4
63.5°	376.0	373.9	376.7	380.3	384.5	387.2
64°	367.6	365.4	368.3	372.4	376.3	379.2
64.5°	359.3	357.4	360.2	363.9	368.0	371.0
65°	351.3	349.3	351.9	355.4	359.9	362.8
65.5°	342.8	340.8	343.8	347.2	351.4	354.5
66°	334.5	332.7	335.2	339.0	343.1	346.4
66.5°	326.2	323.8	327.0	330.5	334.7	337.8
67°	317.6	315.6	318.4	322.0	326.4	329.5

TEST NUMBER: P869707
 CATALOG NUMBER: SMX18RLSFS010-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	309.5	307.3	310.0	313.7	318.1	321.2
68°	301.1	298.5	301.6	305.2	309.7	312.5
68.5°	292.5	290.3	292.9	296.6	301.0	304.2
69°	284.1	281.6	284.4	288.1	292.5	295.9
69.5°	275.4	273.0	275.9	279.5	283.9	287.0
70°	267.1	264.6	267.7	271.2	275.2	278.5
70.5°	258.8	256.1	259.0	262.5	267.0	270.2
71°	250.2	247.5	250.7	254.3	258.4	261.5
71.5°	241.5	238.9	241.7	245.2	249.7	252.9
72°	233.0	230.6	233.0	236.7	241.1	244.5
72.5°	224.3	222.0	224.7	228.3	232.6	235.9
73°	215.7	213.3	215.9	219.7	223.9	227.3
73.5°	207.4	204.8	207.3	211.1	215.4	218.9
74°	199.0	196.2	198.8	202.6	206.6	210.3
74.5°	190.4	187.9	190.3	193.9	198.0	201.8
75°	181.9	179.4	181.9	185.6	189.5	193.0
75.5°	173.8	171.1	173.3	177.2	181.2	184.9
76°	165.2	162.5	165.0	168.6	172.6	176.3
76.5°	156.8	154.3	156.6	160.3	164.5	167.9
77°	148.2	145.9	148.4	152.1	156.1	159.5
77.5°	140.1	137.7	140.2	144.0	147.9	151.1
78°	131.9	129.6	132.1	135.6	139.7	142.9
78.5°	123.9	121.6	124.0	127.4	131.6	134.6
79°	115.9	113.3	115.9	119.5	123.6	126.7
79.5°	108.0	105.5	107.9	111.4	115.4	118.5
80°	100.4	97.9	100.1	103.7	107.4	110.5
80.5°	92.9	90.3	92.6	95.9	99.5	102.9
81°	85.6	82.7	85.0	88.4	92.0	95.2
81.5°	78.0	75.4	77.5	80.9	84.7	87.7
82°	70.7	68.4	70.3	73.7	77.0	79.9
82.5°	63.8	61.5	63.6	66.5	70.0	72.7
83°	57.2	54.8	56.9	59.9	63.2	65.9
83.5°	50.6	48.3	50.1	53.1	56.5	59.0
84°	44.2	42.1	43.9	46.7	49.8	52.5
84.5°	38.2	36.4	38.0	40.7	43.6	46.1
85°	32.3	30.9	32.5	35.0	37.7	40.0
85.5°	27.0	26.0	27.4	29.5	32.2	34.3
86°	22.2	21.2	22.6	24.7	27.2	29.1
86.5°	18.1	16.9	18.1	20.1	22.4	24.4
87°	14.2	12.8	14.0	15.8	18.0	19.7
87.5°	10.5	8.9	10.2	12.0	13.9	15.6
88°	7.3	6.3	6.9	8.3	9.9	11.7
88.5°	4.7	4.0	4.7	5.7	6.9	7.9
89°	2.6	2.4	2.9	3.8	4.6	5.4
89.5°	1.1	1.5	1.9	2.4	3.0	3.5

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869707
CATALOG NUMBER: SMX18RLSFS010-2500LM-3000K

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)