

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: P869706

Luminaire Tested: **SMX18RLSFS010-2500LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869706  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18RLSFS010-2500LM-2700K  
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT  
 Ballast/Driver: -

**Summary**

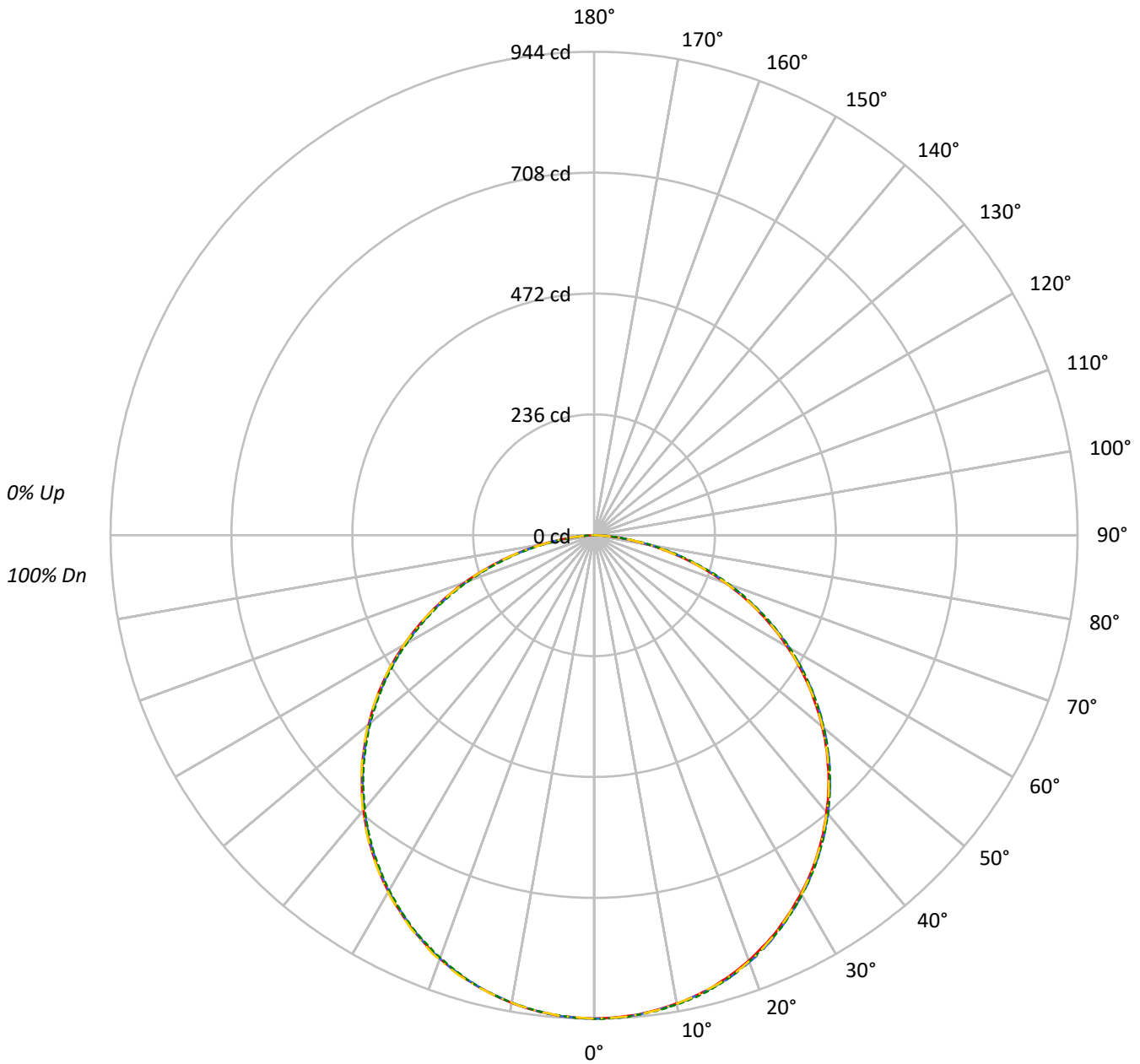
Lumens per Lamp: N/A  
 Luminaire Lumens: 2755.0 lumens  
 Efficiency: N/A  
 Efficacy: 93.7 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Circular (Dia: 1.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 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-2700K

### 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	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°	5749	5749	5749	5749
5°	5748	5751	5743	5744
10°	5742	5756	5736	5731
15°	5740	5755	5720	5720
20°	5726	5741	5704	5691
25°	5709	5725	5678	5668
30°	5682	5705	5651	5629
35°	5651	5679	5616	5588
40°	5611	5646	5572	5538
45°	5569	5606	5516	5477
50°	5508	5550	5448	5397
55°	5420	5479	5355	5294
60°	5304	5374	5230	5146
65°	5135	5225	5044	4945
70°	4873	4999	4764	4629
75°	4460	4639	4326	4147
80°	3809	4055	3616	3371
85°	2747	3138	2439	2118

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.3	3.2
10°-20°	256.7	9.3
20°-30°	390.8	14.2
30°-40°	474.6	17.2
40°-50°	496.8	18.0
50°-60°	453.7	16.5
60°-70°	349.0	12.7
70°-80°	197.4	7.2
80°-90°	46.6	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
<b>0°-30°</b>	<b>736.9</b>	<b>26.7</b>
<b>0°-40°</b>	<b>1211.4</b>	<b>44.0</b>
<b>0°-60°</b>	<b>2162.0</b>	<b>78.5</b>
<b>0°-90°</b>	<b>2755.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>2755.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	944	944	944	944	944	
5°	940	941	939	939	940	89
15°	910	913	907	907	910	257
25°	849	852	845	843	849	391
35°	760	764	755	752	760	475
45°	646	651	640	636	646	499
55°	510	516	504	498	510	456
65°	356	362	350	343	356	352
75°	190	197	184	176	190	201
85°	39	45	35	30	39	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°	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9
0.5°	943.1	943.8	943.7	943.8	944.3	944.9	943.8	944.0	942.9	943.7	943.9
1°	943.1	943.9	943.6	944.0	944.5	944.6	943.1	943.6	943.1	943.5	943.6
1.5°	943.1	944.2	943.5	943.5	944.1	944.1	943.6	943.2	942.7	943.5	943.4
2°	942.8	943.8	943.3	943.1	943.8	944.1	943.4	943.0	942.5	942.9	942.6
2.5°	942.2	943.6	943.1	943.0	943.8	943.7	942.9	942.2	942.4	942.8	942.6
3°	941.6	943.1	943.1	942.4	943.1	942.7	942.5	941.8	941.4	943.0	941.8
3.5°	941.2	942.4	942.7	942.4	942.5	942.1	942.4	941.6	941.6	942.3	941.6
4°	940.9	941.9	941.9	941.7	942.5	941.9	941.6	941.2	941.2	941.1	941.0
4.5°	940.4	940.8	941.0	941.5	941.3	941.7	941.2	940.6	940.3	940.4	940.3
5°	940.1	940.0	940.1	940.7	940.6	940.9	940.5	939.3	939.2	939.6	939.7
5.5°	938.8	939.8	939.8	940.3	940.1	940.5	939.9	938.8	938.4	938.5	938.6
6°	937.7	938.9	938.2	939.2	939.4	939.5	938.6	938.2	937.3	937.4	936.8
6.5°	937.0	937.8	937.5	938.1	938.2	938.7	937.4	937.4	936.9	936.1	935.8
7°	935.9	936.6	936.7	936.9	937.1	937.6	936.3	935.9	935.5	935.5	935.1
7.5°	934.7	935.4	935.6	936.2	936.8	936.3	935.8	934.4	934.4	934.3	933.9
8°	933.5	934.3	934.2	934.7	935.5	935.4	934.8	933.7	933.0	932.7	932.6
8.5°	932.3	933.4	933.3	933.5	934.2	934.4	932.8	932.3	931.9	931.5	931.4
9°	931.0	932.2	931.7	932.4	932.7	933.1	931.5	931.0	930.3	930.1	929.9
9.5°	929.5	930.9	930.8	931.2	931.5	931.9	930.6	929.6	929.0	928.4	928.3
10°	928.4	929.4	929.2	929.6	930.6	930.4	928.9	927.7	927.4	926.5	926.3
10.5°	927.3	927.8	927.7	928.7	929.3	928.9	927.0	926.4	925.2	924.9	924.6
11°	925.6	926.1	926.2	927.1	927.6	927.2	925.5	924.7	923.6	923.8	922.7
11.5°	923.7	924.5	924.5	925.6	926.3	925.8	924.0	922.5	921.8	922.3	921.0
12°	922.2	923.1	922.9	924.1	924.4	924.1	922.5	920.8	920.2	919.7	919.2
12.5°	920.2	921.1	920.7	922.3	923.3	922.3	920.8	918.7	917.7	917.6	917.5
13°	918.4	919.6	919.1	920.9	921.5	920.7	918.7	916.7	916.0	915.6	915.4
13.5°	916.4	917.5	917.6	918.7	919.3	918.7	916.8	915.2	913.7	913.2	913.6
14°	915.3	915.6	915.8	917.4	917.4	916.8	914.4	913.1	911.5	911.3	911.5
14.5°	912.9	913.2	913.9	915.4	915.4	914.9	912.8	910.6	909.7	908.6	908.8
15°	910.2	910.9	911.9	912.4	912.7	912.4	910.9	908.5	907.0	906.7	906.7
15.5°	907.8	909.1	909.7	910.6	911.0	910.4	908.5	905.7	904.6	904.3	904.5
16°	905.1	907.3	907.9	908.3	908.1	908.3	906.4	903.3	902.4	902.1	902.2
16.5°	903.3	904.8	906.0	905.8	905.7	905.7	903.6	901.4	899.8	899.5	899.4
17°	900.5	902.1	903.6	903.4	903.5	903.2	901.3	898.8	897.0	896.7	896.4
17.5°	897.6	899.5	901.0	901.0	900.6	900.5	899.2	896.0	894.9	893.8	894.0
18°	895.2	896.9	898.4	897.6	897.8	897.6	897.2	893.3	891.9	891.0	891.4
18.5°	892.1	893.8	896.0	895.0	894.5	894.8	894.0	890.2	888.8	888.3	888.4
19°	889.0	891.2	893.2	892.0	891.7	891.6	891.6	887.6	886.1	885.0	885.9
19.5°	886.3	888.3	890.1	889.0	889.2	889.0	888.1	884.8	882.9	881.8	883.1
20°	883.4	885.6	887.2	885.4	885.7	885.9	885.2	881.5	879.9	879.1	879.8
20.5°	880.3	882.0	884.4	882.7	882.6	882.2	881.9	878.3	877.3	876.0	876.7
21°	877.2	878.5	881.4	879.5	879.7	878.6	879.5	875.2	874.1	872.7	873.5
21.5°	873.4	875.3	878.1	876.6	876.1	876.0	875.9	872.2	870.3	869.2	870.4
22°	870.1	872.0	874.9	873.0	873.0	872.4	872.7	869.2	866.5	865.6	867.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	866.9	868.8	871.3	869.6	869.6	868.9	869.2	865.7	863.3	861.9	863.0
23°	863.9	865.7	867.4	866.5	866.1	865.8	865.1	861.9	859.7	858.7	859.1
23.5°	860.0	862.6	864.3	863.2	862.8	862.6	861.9	858.5	856.0	855.7	855.1
24°	856.6	858.9	860.4	859.4	859.2	858.3	858.2	855.3	852.7	851.3	851.3
24.5°	853.1	855.4	856.3	855.7	856.0	854.2	854.2	851.5	848.9	847.5	848.0
25°	849.4	851.4	852.5	852.2	851.8	851.2	850.4	848.1	844.9	843.7	843.4
25.5°	844.8	847.4	848.6	848.7	848.4	847.9	846.4	844.6	841.2	839.9	839.3
26°	841.3	844.0	844.6	844.7	844.5	843.5	842.4	840.5	837.1	836.2	836.0
26.5°	836.8	839.9	840.6	840.5	840.6	839.5	838.1	836.6	833.3	832.1	831.4
27°	833.0	836.2	836.4	836.8	836.1	835.9	834.0	832.4	829.0	828.4	827.3
27.5°	829.0	832.3	832.5	833.4	832.4	831.4	829.6	828.6	824.8	824.6	823.4
28°	824.9	827.9	828.7	829.2	828.6	827.6	825.3	824.2	821.2	820.4	819.1
28.5°	820.3	824.2	824.0	824.8	824.3	823.6	821.7	820.3	817.0	816.0	815.1
29°	816.0	820.2	819.6	820.4	820.2	819.2	817.3	816.2	812.5	811.5	810.6
29.5°	812.0	815.9	815.9	816.5	815.5	814.7	813.0	812.0	808.0	807.0	806.3
30°	807.8	811.5	811.6	812.2	811.1	810.4	809.0	807.4	803.4	802.7	801.3
30.5°	803.4	807.3	807.1	807.8	806.6	806.0	804.7	803.2	798.8	798.3	797.2
31°	798.6	802.8	802.7	803.1	802.6	801.6	799.7	798.5	794.3	793.2	792.6
31.5°	794.5	797.8	798.0	798.7	797.8	796.7	795.3	793.6	789.8	788.5	787.8
32°	789.6	792.8	793.4	794.5	792.9	791.8	790.5	789.0	785.0	784.4	782.8
32.5°	784.8	788.3	788.4	789.9	788.2	787.7	785.5	784.5	780.1	779.6	778.3
33°	780.2	783.6	783.5	785.0	783.8	782.8	780.9	779.3	775.2	775.0	773.2
33.5°	775.4	778.8	778.9	779.9	779.4	778.2	775.8	774.4	770.2	770.0	768.2
34°	770.3	774.2	774.2	775.1	774.2	773.2	770.6	770.1	765.6	764.9	762.9
34.5°	765.1	769.1	769.0	770.1	768.9	768.4	765.9	765.1	760.7	759.7	758.0
35°	759.9	764.2	763.7	765.2	763.7	763.4	760.6	759.4	755.2	754.6	752.8
35.5°	754.4	758.9	758.8	760.3	758.7	758.3	755.6	754.4	750.1	749.7	747.7
36°	749.8	754.0	753.5	755.1	753.4	753.0	750.4	749.1	744.9	744.3	742.4
36.5°	744.6	748.7	748.4	749.7	748.0	747.7	745.2	744.0	739.6	739.4	737.4
37°	739.4	743.6	743.4	744.2	743.2	742.8	739.9	738.7	734.2	733.7	731.5
37.5°	734.1	737.9	737.9	739.1	738.2	737.4	734.7	733.5	728.8	727.7	725.9
38°	727.9	732.3	732.3	733.7	732.4	731.8	729.1	728.2	723.3	722.3	720.5
38.5°	722.6	726.7	727.0	728.5	726.9	726.1	723.7	722.9	717.6	716.2	715.1
39°	717.3	721.6	721.5	722.9	721.5	721.0	717.8	717.1	712.1	711.1	709.6
39.5°	711.8	715.4	715.9	717.2	715.9	715.1	712.3	711.5	706.3	705.5	704.1
40°	705.6	709.7	710.4	711.2	710.1	709.6	706.9	705.5	700.7	699.5	698.1
40.5°	700.0	704.0	704.6	705.6	704.5	704.2	701.7	699.3	695.0	693.3	692.5
41°	694.7	698.3	698.8	699.8	698.6	698.3	695.5	693.1	689.2	687.8	686.3
41.5°	689.0	692.3	693.1	693.9	692.9	692.2	690.0	687.5	683.6	681.7	680.7
42°	682.8	686.1	687.4	688.1	687.1	686.4	683.9	681.4	677.5	675.6	674.5
42.5°	676.9	680.4	681.7	682.0	681.0	680.5	678.2	675.1	671.4	669.9	668.4
43°	670.9	674.1	675.5	675.8	675.0	674.4	671.8	669.3	665.1	664.0	662.6
43.5°	664.7	668.3	669.2	670.0	669.0	668.2	665.4	663.1	659.0	658.0	656.5
44°	659.0	662.4	663.5	663.7	663.0	662.6	659.3	657.2	652.7	652.0	650.2
44.5°	653.1	656.3	657.5	657.8	657.0	656.2	653.2	650.7	646.7	645.7	644.1

TEST NUMBER: P869706  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	646.5	649.5	651.5	651.8	650.8	650.0	647.1	644.4	640.3	639.2	637.6
45.5°	639.8	643.6	645.1	645.4	644.2	643.8	641.0	638.3	634.2	632.3	631.5
46°	634.1	637.3	638.6	638.8	637.9	637.4	634.6	632.0	627.7	626.0	625.0
46.5°	627.5	630.9	632.6	632.2	631.7	631.1	628.5	625.3	620.8	619.5	618.8
47°	621.3	624.5	626.0	626.1	625.2	624.7	621.9	619.3	614.7	613.2	612.3
47.5°	614.3	617.9	619.6	619.8	619.0	618.2	615.1	613.0	608.1	606.6	605.3
48°	608.0	611.6	612.8	613.0	612.3	612.0	608.9	606.2	601.8	599.9	598.6
48.5°	601.7	605.1	606.4	606.2	605.5	605.1	602.3	599.1	594.7	593.2	592.3
49°	594.7	598.2	599.5	599.8	599.0	598.5	595.3	592.5	588.5	586.5	585.2
49.5°	588.0	591.3	592.9	593.2	592.3	592.0	588.8	585.8	581.9	579.8	578.8
50°	581.3	584.9	586.0	586.3	585.7	585.2	582.1	579.2	574.9	573.3	571.9
50.5°	574.5	578.3	579.5	579.7	579.1	578.2	575.2	572.3	567.9	566.1	565.0
51°	567.3	571.3	572.5	572.6	572.3	571.3	568.2	565.6	560.8	559.0	557.8
51.5°	560.6	564.5	565.7	565.9	565.2	564.5	561.0	558.7	554.2	552.4	550.9
52°	553.6	557.4	558.8	559.0	558.4	557.4	554.3	551.8	547.5	545.1	544.1
52.5°	546.3	550.3	551.5	551.7	551.1	550.7	547.5	544.9	540.2	538.2	536.8
53°	538.8	543.1	544.5	544.5	543.8	543.6	540.5	537.4	533.0	530.9	529.7
53.5°	532.2	536.0	537.5	537.7	537.1	536.5	533.3	530.4	525.8	523.8	522.7
54°	525.2	528.7	530.2	530.3	530.1	529.1	526.2	523.0	519.1	516.4	515.3
54.5°	518.2	521.4	523.2	523.0	523.1	522.2	519.1	516.0	511.8	508.9	507.8
55°	510.4	514.4	515.9	515.7	515.9	514.7	511.9	508.7	504.3	501.9	500.9
55.5°	503.3	507.0	508.7	508.3	508.5	507.6	504.6	501.9	496.9	495.1	493.3
56°	496.2	499.7	501.3	501.1	501.4	500.2	497.1	494.1	489.5	487.4	485.7
56.5°	488.7	492.2	493.8	493.7	494.1	492.7	489.5	487.0	482.0	479.8	478.2
57°	480.9	484.7	486.6	486.4	486.8	485.4	482.3	479.5	474.9	472.3	470.5
57.5°	473.6	477.3	479.1	478.8	479.3	477.7	474.5	471.9	467.1	464.6	463.2
58°	466.2	469.9	471.6	471.4	471.5	470.3	467.1	464.2	459.7	457.1	455.6
58.5°	458.7	462.6	464.2	463.8	464.0	462.8	459.7	456.8	452.3	449.6	448.0
59°	450.8	454.7	456.4	456.0	456.7	454.9	452.0	448.8	444.6	442.2	440.5
59.5°	443.2	447.0	448.7	448.4	449.0	447.3	444.2	441.1	436.8	433.9	432.6
60°	435.4	439.2	440.8	440.5	441.1	439.6	436.2	433.3	429.3	426.3	424.8
60.5°	427.7	431.3	433.1	432.9	433.6	432.1	428.8	425.8	421.4	418.7	417.2
61°	420.3	423.7	425.4	425.1	426.0	424.1	420.9	418.1	413.7	410.9	409.5
61.5°	412.2	415.7	417.6	417.5	418.3	416.2	413.2	410.3	405.9	402.9	401.5
62°	404.2	407.8	409.9	409.8	410.5	408.6	405.3	402.3	398.2	394.9	393.3
62.5°	396.2	400.2	401.7	401.7	402.5	400.7	397.3	394.2	389.9	387.2	385.4
63°	388.3	392.2	393.6	393.8	394.5	392.8	389.3	386.3	382.0	379.1	377.4
63.5°	380.3	383.9	385.6	385.8	386.8	385.0	381.5	378.5	374.0	370.9	369.3
64°	372.5	376.1	377.6	377.6	378.6	376.6	373.5	370.3	366.1	362.9	361.3
64.5°	364.4	368.2	369.6	370.0	370.8	368.8	365.5	362.1	358.0	354.8	353.0
65°	356.3	360.0	361.5	361.9	362.5	360.8	357.2	354.0	350.0	346.8	345.1
65.5°	348.1	351.8	353.4	353.6	354.3	352.7	349.2	345.9	342.0	338.7	337.1
66°	340.3	343.7	345.2	345.3	346.3	344.4	340.9	337.5	333.6	330.7	329.2
66.5°	331.8	335.5	337.1	337.2	338.4	336.1	333.0	329.4	325.6	322.3	320.8
67°	323.6	327.4	328.9	329.1	330.2	328.3	324.8	321.2	317.3	314.1	312.3



TEST NUMBER: P869706  
 CATALOG NUMBER: SMX18RLSFS010-2500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	315.4	319.0	320.5	320.8	322.1	319.9	316.7	313.0	309.1	305.7	304.1
68°	307.0	310.5	312.1	312.2	313.7	311.4	308.3	304.6	300.9	297.7	295.8
68.5°	298.8	302.5	303.9	304.4	305.9	303.2	300.1	296.2	292.8	289.6	287.8
69°	290.6	294.3	295.4	296.2	297.6	295.0	291.4	288.1	284.3	281.1	279.5
69.5°	281.8	285.8	287.3	287.4	289.0	286.8	283.3	280.0	276.1	272.7	270.8
70°	273.6	277.4	278.8	279.0	280.7	278.4	274.9	271.3	267.5	264.5	262.5
70.5°	265.4	268.8	270.2	270.8	272.6	270.1	266.6	263.0	259.4	256.0	254.2
71°	256.8	260.8	261.9	262.4	264.3	262.0	258.5	254.6	251.0	247.8	246.0
71.5°	248.4	252.3	253.6	254.1	255.8	253.5	249.9	246.1	242.5	239.3	237.6
72°	240.2	243.8	245.1	245.6	247.6	245.3	241.6	237.8	234.1	230.6	228.9
72.5°	231.7	235.2	236.6	237.0	239.2	236.8	233.4	229.1	225.5	222.3	220.7
73°	223.2	226.7	228.2	228.5	230.5	228.2	224.5	220.7	217.3	214.0	212.2
73.5°	215.0	218.3	219.9	220.1	222.4	219.9	216.2	212.2	209.0	205.5	203.9
74°	206.6	210.0	211.4	211.8	214.0	211.6	208.0	203.9	200.6	197.1	195.5
74.5°	198.2	201.8	203.2	203.3	205.5	203.3	199.7	195.4	192.2	188.8	187.1
75°	189.5	193.1	194.6	194.8	197.1	194.9	191.3	187.0	183.8	180.4	178.7
75.5°	181.6	184.8	186.4	186.3	188.9	186.4	182.8	179.1	175.6	172.4	170.6
76°	173.2	176.6	178.2	178.1	180.5	178.2	174.6	170.7	167.4	164.1	162.3
76.5°	164.9	168.3	169.8	169.6	172.3	169.8	166.1	162.6	159.0	155.5	153.9
77°	156.6	160.1	161.8	161.6	163.9	161.7	158.0	154.5	150.7	147.5	145.7
77.5°	148.4	151.8	153.4	153.4	155.8	153.5	149.9	146.1	142.8	139.4	137.8
78°	140.4	143.8	145.1	145.4	147.6	145.4	141.8	138.1	134.4	131.6	129.7
78.5°	132.2	135.6	137.2	137.4	139.6	137.1	133.6	129.7	126.5	123.2	121.8
79°	124.4	127.8	129.3	129.4	131.5	129.2	125.8	122.0	118.5	115.5	114.2
79.5°	116.3	119.6	121.3	121.5	123.4	121.3	117.8	114.0	110.7	107.8	106.2
80°	108.6	111.7	113.3	113.5	115.6	113.7	109.8	106.2	103.1	100.5	98.7
80.5°	101.1	104.1	105.6	106.0	107.9	105.9	102.6	98.9	95.6	92.8	91.3
81°	93.5	96.5	98.0	98.4	100.7	98.6	95.0	91.3	88.3	85.4	84.1
81.5°	86.1	89.0	90.5	90.7	92.7	90.9	87.6	83.9	80.8	78.2	77.0
82°	78.5	81.7	82.9	82.9	85.2	83.4	80.6	76.8	73.5	71.0	69.7
82.5°	71.4	74.4	75.8	75.9	78.1	76.3	73.3	69.7	66.6	64.0	62.9
83°	64.7	67.5	68.8	68.9	71.2	69.4	66.3	62.9	59.9	57.4	56.3
83.5°	57.9	60.7	62.0	62.2	64.2	62.4	59.5	56.1	53.2	50.9	49.7
84°	51.5	54.2	55.3	55.5	57.3	55.8	52.9	49.7	46.7	44.8	43.5
84.5°	45.3	47.9	48.9	49.2	50.9	49.5	46.5	43.5	40.7	38.6	37.6
85°	39.3	41.8	42.8	42.8	44.9	43.2	40.5	37.4	34.9	32.8	31.9
85.5°	33.7	36.0	36.9	36.9	38.6	37.1	34.5	31.7	29.4	27.6	26.6
86°	28.6	30.6	31.4	31.5	33.0	31.4	29.0	26.5	24.5	22.7	21.9
86.5°	23.9	25.8	26.6	26.6	27.4	26.2	24.0	21.6	19.7	18.4	17.8
87°	19.3	21.3	21.9	21.9	22.9	21.5	19.6	17.5	15.8	14.4	13.9
87.5°	15.4	17.0	17.6	17.6	18.3	17.5	15.8	13.7	12.0	10.9	10.3
88°	11.5	13.0	13.7	13.6	14.6	13.5	11.9	10.0	8.7	7.6	7.4
88.5°	7.8	9.2	9.8	9.8	10.8	10.0	8.6	7.0	5.7	5.0	4.5
89°	5.3	6.4	6.8	6.6	7.7	6.9	5.6	4.3	3.3	2.8	2.6
89.5°	3.4	4.2	4.5	4.3	4.9	4.2	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: P869706  
CATALOG NUMBER: SMX18RLSFS010-2500LM-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: P869706  
 CATALOG NUMBER: SMX18RLSFS010-2500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	943.9	943.9	943.9	943.9	943.9	943.9
0.5°	943.7	943.6	944.5	943.4	943.4	943.1
1°	942.9	943.0	944.0	942.7	943.2	943.1
1.5°	942.8	943.4	943.8	942.6	943.1	943.1
2°	942.4	943.4	943.2	942.3	943.1	942.8
2.5°	942.2	942.6	943.0	942.2	942.8	942.2
3°	941.5	941.8	943.0	941.3	942.7	941.6
3.5°	941.1	941.1	942.2	941.1	941.9	941.2
4°	941.1	940.1	941.3	941.0	941.0	940.9
4.5°	940.0	939.8	940.5	939.8	939.9	940.4
5°	939.4	939.4	940.0	938.7	938.9	940.1
5.5°	937.6	937.9	938.8	937.5	938.3	938.8
6°	936.7	937.0	937.6	937.4	937.9	937.7
6.5°	935.9	935.9	936.9	936.6	936.9	937.0
7°	935.2	934.7	935.8	935.3	936.2	935.9
7.5°	933.2	933.7	934.1	934.2	935.1	934.7
8°	932.2	932.0	932.9	932.7	933.5	933.5
8.5°	930.9	930.8	931.9	931.1	932.2	932.3
9°	929.2	929.2	930.8	930.2	930.7	931.0
9.5°	928.1	927.8	928.4	928.6	929.2	929.5
10°	926.7	926.6	926.8	926.4	927.8	928.4
10.5°	924.8	925.1	925.0	924.4	926.3	927.3
11°	922.9	923.1	923.5	923.3	925.0	925.6
11.5°	921.4	921.4	922.0	921.6	923.8	923.7
12°	919.4	919.3	920.7	919.6	921.8	922.2
12.5°	917.4	917.5	918.0	917.7	919.9	920.2
13°	915.4	915.7	916.6	916.4	918.0	918.4
13.5°	913.6	913.9	914.4	914.1	916.4	916.4
14°	911.1	911.5	912.5	912.3	914.6	915.3
14.5°	909.3	909.4	910.4	910.3	912.7	912.9
15°	907.1	907.1	908.0	907.7	910.4	910.2
15.5°	905.1	904.3	905.6	905.7	907.6	907.8
16°	902.9	901.8	903.5	903.1	905.1	905.1
16.5°	900.1	899.0	900.6	901.2	902.5	903.3
17°	897.6	896.0	897.6	899.2	900.0	900.5
17.5°	894.5	893.0	895.1	896.4	897.4	897.6
18°	891.7	890.4	891.8	893.6	894.5	895.2
18.5°	888.2	887.4	888.2	890.8	891.4	892.1
19°	885.0	884.4	885.1	888.4	888.4	889.0
19.5°	882.0	880.9	882.3	885.0	885.5	886.3
20°	878.9	877.9	879.8	881.9	882.9	883.4
20.5°	875.6	875.0	876.5	879.2	879.3	880.3
21°	872.4	871.6	873.3	876.3	876.1	877.2
21.5°	869.1	867.9	869.9	872.6	872.4	873.4
22°	865.8	864.4	865.9	868.9	869.0	870.1

TEST NUMBER: P869706  
 CATALOG NUMBER: SMX18RLSFS010-2500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	862.2	861.0	862.9	865.5	866.1	866.9
23°	858.9	857.7	859.6	862.0	863.2	863.9
23.5°	854.9	854.2	855.5	858.2	859.1	860.0
24°	851.3	850.6	851.6	854.1	855.0	856.6
24.5°	847.2	846.8	847.8	850.3	851.7	853.1
25°	843.7	843.3	844.9	846.6	848.4	849.4
25.5°	839.8	838.9	841.0	842.7	844.5	844.8
26°	835.7	835.0	837.2	838.6	840.7	841.3
26.5°	831.4	830.4	833.1	834.5	836.6	836.8
27°	827.5	826.4	829.0	830.6	832.3	833.0
27.5°	823.3	821.9	824.8	826.4	828.3	829.0
28°	819.2	818.0	820.9	822.3	824.6	824.9
28.5°	814.7	813.6	816.2	817.6	820.4	820.3
29°	810.7	809.1	811.7	813.4	816.0	816.0
29.5°	805.8	804.5	807.0	808.9	811.4	812.0
30°	801.3	800.3	802.8	804.6	807.0	807.8
30.5°	797.2	795.6	798.0	799.5	802.7	803.4
31°	792.3	791.0	793.4	795.1	798.4	798.6
31.5°	787.4	786.1	788.6	790.5	793.4	794.5
32°	782.6	781.1	784.4	786.1	789.0	789.6
32.5°	778.0	776.3	779.6	781.2	784.2	784.8
33°	773.1	771.8	774.9	776.5	779.8	780.2
33.5°	768.2	766.5	769.6	771.4	775.2	775.4
34°	763.5	761.3	764.7	766.5	770.2	770.3
34.5°	757.8	756.4	759.4	761.6	765.1	765.1
35°	752.5	751.5	754.5	756.1	759.9	759.9
35.5°	747.5	746.1	748.7	750.9	754.5	754.4
36°	742.3	741.0	743.9	746.0	749.7	749.8
36.5°	737.5	735.5	738.6	741.0	744.8	744.6
37°	732.2	730.1	733.1	735.5	739.2	739.4
37.5°	726.7	725.0	727.3	730.3	733.9	734.1
38°	720.5	719.3	721.8	724.5	728.2	727.9
38.5°	715.6	713.5	716.2	718.8	722.6	722.6
39°	710.0	708.1	710.6	713.5	717.1	717.3
39.5°	704.0	702.5	704.6	707.5	711.1	711.8
40°	698.3	696.5	699.4	702.0	705.3	705.6
40.5°	692.3	690.7	693.2	696.3	699.8	700.0
41°	686.1	685.0	687.3	690.0	693.1	694.7
41.5°	680.6	678.8	681.3	684.5	687.5	689.0
42°	674.5	672.7	675.6	678.5	681.3	682.8
42.5°	668.3	667.0	669.2	672.2	675.4	676.9
43°	662.8	661.1	663.4	666.1	669.4	670.9
43.5°	656.6	655.0	657.1	660.4	663.8	664.7
44°	649.9	648.5	650.9	654.3	657.9	659.0
44.5°	643.9	642.3	644.8	647.8	651.6	653.1

TEST NUMBER: P869706  
 CATALOG NUMBER: SMX18RLSFS010-2500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	637.7	635.8	638.5	641.9	645.1	646.5
45.5°	631.7	629.4	632.4	635.7	638.4	639.8
46°	624.7	622.8	626.0	628.9	632.0	634.1
46.5°	618.3	616.6	619.4	622.6	625.8	627.5
47°	611.9	609.7	612.5	615.8	619.4	621.3
47.5°	604.9	603.3	606.2	609.6	612.8	614.3
48°	598.3	596.4	599.2	602.8	606.1	608.0
48.5°	591.7	589.8	592.6	596.3	599.8	601.7
49°	584.9	583.6	586.0	589.4	593.3	594.7
49.5°	578.1	576.6	579.2	582.9	586.3	588.0
50°	571.3	569.5	572.1	575.9	579.7	581.3
50.5°	564.3	562.7	565.3	569.3	572.8	574.5
51°	557.4	555.9	558.3	562.4	566.0	567.3
51.5°	550.6	548.8	551.1	555.2	558.9	560.6
52°	543.3	541.5	544.3	547.9	551.8	553.6
52.5°	536.0	534.7	537.4	541.0	544.5	546.3
53°	529.4	527.4	530.2	533.8	537.8	538.8
53.5°	522.0	520.1	523.0	526.8	530.4	532.2
54°	514.6	512.9	515.6	519.4	523.0	525.2
54.5°	507.3	505.6	508.3	512.2	515.8	518.2
55°	500.5	498.5	501.3	505.0	508.3	510.4
55.5°	493.0	491.2	494.1	497.6	501.6	503.3
56°	485.4	483.9	486.5	490.6	494.2	496.2
56.5°	477.9	476.3	479.1	483.0	486.7	488.7
57°	470.8	468.6	471.5	475.5	478.9	480.9
57.5°	463.0	461.3	464.0	467.6	471.4	473.6
58°	455.3	453.6	456.4	460.2	463.8	466.2
58.5°	447.7	445.8	448.9	452.6	456.3	458.7
59°	440.2	438.2	441.1	444.7	448.5	450.8
59.5°	432.3	430.2	433.3	437.0	440.6	443.2
60°	424.6	422.4	425.6	429.3	432.9	435.4
60.5°	416.9	414.9	417.3	421.6	425.1	427.7
61°	409.0	407.1	409.9	413.7	417.3	420.3
61.5°	401.0	399.2	402.1	406.0	409.7	412.2
62°	393.2	391.3	394.2	397.9	401.7	404.2
62.5°	385.4	383.4	386.2	389.9	393.7	396.2
63°	377.2	375.2	378.0	381.5	385.7	388.3
63.5°	369.3	367.3	370.0	373.6	377.6	380.3
64°	361.0	358.9	361.7	365.8	369.6	372.5
64.5°	352.9	351.0	353.8	357.4	361.4	364.4
65°	345.0	343.1	345.6	349.0	353.5	356.3
65.5°	336.7	334.7	337.7	341.1	345.1	348.1
66°	328.5	326.8	329.2	333.0	337.0	340.3
66.5°	320.4	318.0	321.2	324.6	328.7	331.8
67°	311.9	310.0	312.7	316.2	320.6	323.6

TEST NUMBER: P869706  
 CATALOG NUMBER: SMX18RLSFS010-2500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	304.0	301.8	304.5	308.1	312.4	315.4
68°	295.7	293.2	296.2	299.8	304.2	307.0
68.5°	287.3	285.1	287.7	291.3	295.6	298.8
69°	279.0	276.6	279.3	282.9	287.3	290.6
69.5°	270.5	268.2	271.0	274.6	278.8	281.8
70°	262.3	259.9	262.9	266.4	270.3	273.6
70.5°	254.2	251.5	254.4	257.8	262.2	265.4
71°	245.7	243.1	246.2	249.7	253.8	256.8
71.5°	237.2	234.7	237.4	240.9	245.3	248.4
72°	228.8	226.5	228.8	232.5	236.8	240.2
72.5°	220.3	218.0	220.7	224.2	228.5	231.7
73°	211.9	209.5	212.1	215.7	219.9	223.2
73.5°	203.7	201.2	203.6	207.4	211.6	215.0
74°	195.4	192.7	195.3	199.0	202.9	206.6
74.5°	187.0	184.5	186.9	190.4	194.5	198.2
75°	178.7	176.2	178.7	182.2	186.1	189.5
75.5°	170.7	168.1	170.2	174.1	178.0	181.6
76°	162.3	159.6	162.1	165.6	169.5	173.2
76.5°	154.0	151.5	153.8	157.4	161.6	164.9
77°	145.6	143.3	145.8	149.3	153.3	156.6
77.5°	137.6	135.3	137.7	141.5	145.3	148.4
78°	129.5	127.3	129.7	133.2	137.2	140.4
78.5°	121.7	119.4	121.8	125.1	129.2	132.2
79°	113.9	111.3	113.9	117.3	121.4	124.4
79.5°	106.1	103.6	106.0	109.4	113.4	116.3
80°	98.6	96.1	98.3	101.9	105.5	108.6
80.5°	91.2	88.7	90.9	94.2	97.7	101.1
81°	84.0	81.3	83.4	86.8	90.3	93.5
81.5°	76.6	74.1	76.2	79.5	83.1	86.1
82°	69.5	67.2	69.1	72.4	75.7	78.5
82.5°	62.7	60.4	62.5	65.3	68.8	71.4
83°	56.2	53.8	55.9	58.8	62.1	64.7
83.5°	49.7	47.5	49.2	52.1	55.5	57.9
84°	43.4	41.4	43.1	45.9	49.0	51.5
84.5°	37.5	35.8	37.3	40.0	42.9	45.3
85°	31.7	30.3	31.9	34.4	37.0	39.3
85.5°	26.5	25.5	26.9	29.0	31.6	33.7
86°	21.8	20.8	22.2	24.2	26.7	28.6
86.5°	17.7	16.6	17.7	19.7	22.0	23.9
87°	14.0	12.6	13.8	15.6	17.6	19.3
87.5°	10.3	8.8	10.0	11.8	13.7	15.4
88°	7.2	6.2	6.8	8.2	9.8	11.5
88.5°	4.6	3.9	4.6	5.6	6.8	7.8
89°	2.6	2.4	2.9	3.7	4.5	5.3
89.5°	1.1	1.5	1.9	2.4	3.0	3.4

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869706  
CATALOG NUMBER: SMX18RLSFS010-2500LM-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)