

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: P869736

Luminaire Tested: **SMX18SLSFS010-2500LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869736  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18SLSFS010-2500LM-2700K  
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT  
 Ballast/Driver: -

**Summary**

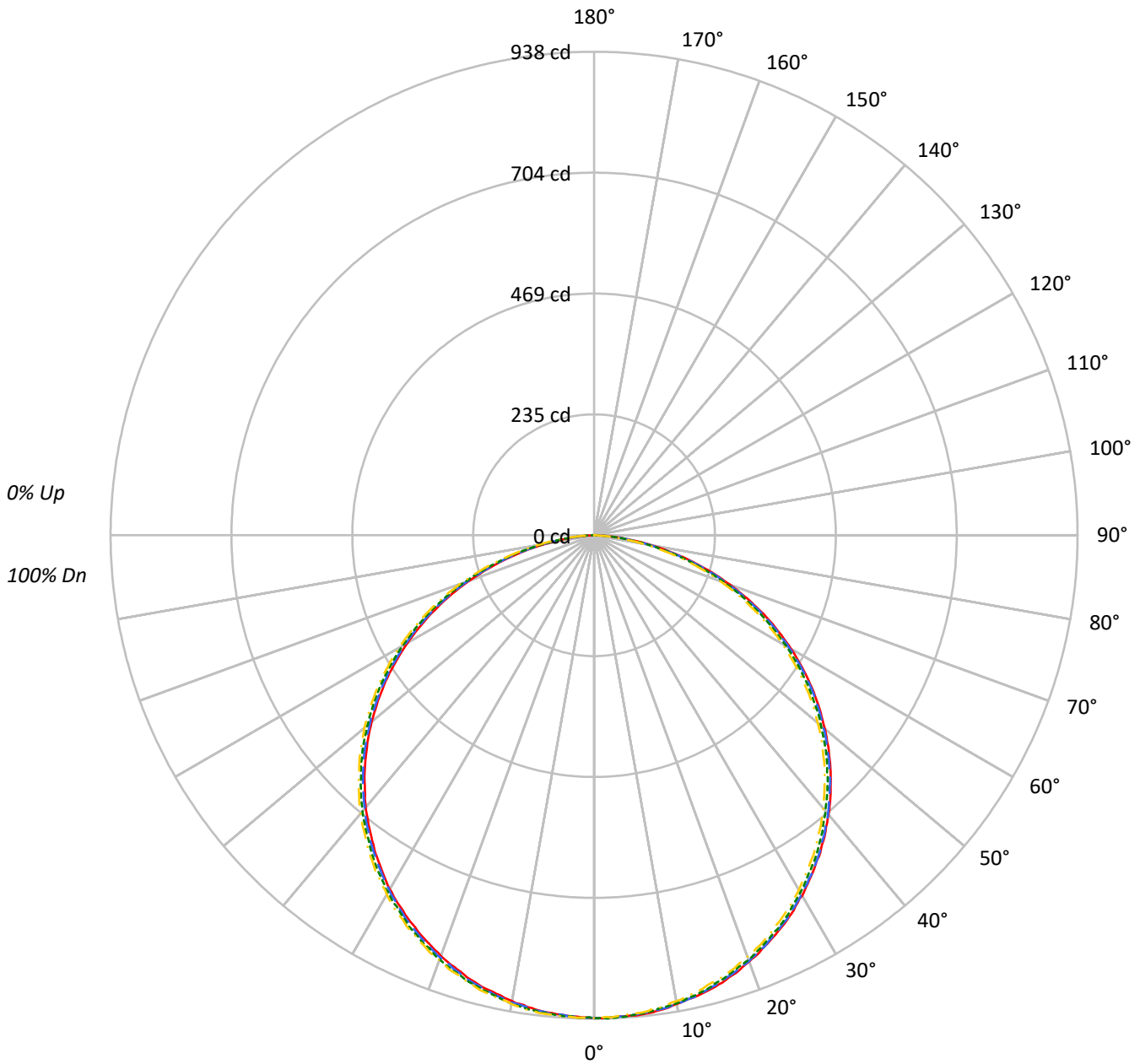
Lumens per Lamp: N/A  
 Luminaire Lumens: 2735.0 lumens  
 Efficiency: N/A  
 Efficacy: 91.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 30  
 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: SMX18SLSFS010-2500LM-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	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	33	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°	4482	4482	4482	4482
5°	4491	4481	4469	4480
10°	4485	4481	4457	4483
15°	4494	4464	4443	4467
20°	4480	4464	4423	4459
25°	4470	4447	4396	4442
30°	4462	4420	4379	4418
35°	4443	4399	4343	4395
40°	4421	4363	4303	4365
45°	4390	4327	4252	4329
50°	4352	4278	4191	4268
55°	4298	4218	4115	4206
60°	4222	4121	3999	4104
65°	4114	3985	3836	3970
70°	3922	3772	3591	3754
75°	3634	3447	3214	3405
80°	3185	2920	2614	2868
85°	2437	2058	1614	1982

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.7	3.2
10°-20°	254.7	9.3
20°-30°	387.7	14.2
30°-40°	470.7	17.2
40°-50°	493.0	18.0
50°-60°	450.8	16.5
60°-70°	347.0	12.7
70°-80°	196.2	7.2
80°-90°	46.2	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>731.1</b>	<b>26.7</b>
<b>0°-40°</b>	<b>1201.9</b>	<b>43.9</b>
<b>0°-60°</b>	<b>2145.7</b>	<b>78.5</b>
<b>0°-90°</b>	<b>2735.0</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>2735.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	937	937	937	937	937	
5°	935	933	931	933	935	89
15°	907	901	897	902	907	256
25°	847	842	833	842	847	390
35°	761	753	744	753	761	476
45°	649	640	628	640	649	500
55°	515	506	493	504	515	460
65°	363	352	339	351	363	359
75°	197	186	174	184	197	208
85°	44	38	29	36	44	54
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°	936.9	936.9	936.9	936.9	936.9	936.9	936.9	936.9	936.9	936.9	936.9
0.5°	936.7	936.4	937.0	936.2	937.2	938.0	936.2	936.9	936.2	936.7	935.8
1°	937.5	935.9	937.1	936.8	936.7	937.1	935.6	936.1	935.7	936.3	936.9
1.5°	936.6	936.6	936.1	936.8	937.9	936.9	934.9	935.9	935.9	935.6	936.6
2°	936.0	935.5	935.9	936.6	937.5	936.5	936.1	934.9	934.7	934.8	934.8
2.5°	935.9	936.3	935.6	936.6	936.7	936.5	935.1	934.8	934.4	934.4	934.5
3°	934.6	936.5	935.3	935.7	935.9	935.7	933.8	935.4	934.2	933.5	934.7
3.5°	935.2	936.7	935.0	935.6	936.0	934.8	933.8	934.7	933.2	933.3	933.3
4°	934.9	935.7	934.7	935.8	935.5	934.2	931.9	933.8	932.3	933.7	932.3
4.5°	934.8	935.6	933.5	935.5	934.4	934.0	931.9	932.0	932.3	932.7	932.1
5°	935.2	934.7	933.5	934.0	933.1	933.7	931.2	931.6	930.7	930.4	932.9
5.5°	934.5	934.0	932.7	932.4	932.3	932.4	930.8	930.1	930.5	929.4	931.6
6°	934.0	934.0	932.0	932.6	932.3	930.5	930.1	929.8	929.7	928.5	929.8
6.5°	933.2	933.7	931.3	931.0	931.2	930.8	928.7	928.5	928.4	927.7	929.1
7°	932.6	932.9	930.4	930.6	930.1	929.5	926.1	926.8	927.2	926.2	929.0
7.5°	931.0	930.7	929.1	928.8	927.7	928.8	926.0	925.8	925.3	925.1	927.2
8°	929.9	928.8	928.5	928.5	926.3	927.6	925.2	924.2	924.4	923.9	924.5
8.5°	928.9	927.5	928.1	926.2	925.7	926.4	923.7	923.2	921.6	923.0	923.5
9°	927.5	926.0	926.6	925.6	924.5	925.2	921.4	922.1	920.5	921.0	922.1
9.5°	925.3	925.4	924.5	923.5	923.5	923.8	919.0	919.7	920.2	919.8	921.7
10°	923.3	923.4	922.7	922.9	922.4	922.1	917.9	918.0	917.6	919.1	920.1
10.5°	922.2	922.2	922.1	920.5	920.7	919.5	916.7	916.3	915.7	917.0	918.2
11°	920.6	920.6	920.7	919.7	918.7	918.2	914.7	915.7	913.9	914.4	916.1
11.5°	918.6	919.7	918.3	917.1	915.6	916.8	913.0	913.3	911.0	913.2	914.4
12°	917.8	917.3	917.1	915.2	914.7	915.3	910.3	912.4	909.8	910.6	913.3
12.5°	916.2	915.4	916.4	913.6	913.5	913.5	908.3	910.5	907.3	908.8	910.9
13°	914.4	915.0	914.0	911.4	911.4	911.3	906.9	907.8	905.6	907.3	907.9
13.5°	912.6	913.3	910.9	909.7	909.5	908.9	904.4	906.2	904.7	905.5	905.3
14°	910.9	911.3	908.8	908.4	907.5	905.0	901.2	903.6	902.4	903.8	904.0
14.5°	908.8	908.4	906.3	905.4	905.0	903.6	898.8	900.8	899.6	901.0	901.8
15°	907.4	905.9	904.5	904.1	901.4	901.9	897.2	898.6	897.0	897.5	900.2
15.5°	904.4	903.9	902.4	901.2	899.3	899.3	895.5	895.8	895.0	895.0	898.0
16°	902.8	901.4	899.5	899.2	897.8	897.2	892.9	893.3	892.7	893.4	895.5
16.5°	899.9	898.9	897.2	896.1	894.7	894.9	890.3	890.9	888.7	890.9	892.8
17°	896.5	895.8	894.5	894.6	892.0	892.2	887.7	888.8	885.7	887.4	889.0
17.5°	894.6	893.6	892.3	890.7	888.6	889.4	885.3	886.2	883.1	884.3	886.5
18°	892.7	891.3	889.6	888.1	886.7	886.2	882.9	882.7	880.2	881.6	884.1
18.5°	889.5	888.7	887.0	885.1	883.3	883.6	878.6	879.1	878.0	878.7	880.1
19°	885.7	886.4	884.1	882.4	881.5	880.5	875.8	876.2	874.5	875.8	876.4
19.5°	882.8	884.0	882.0	879.5	878.3	877.8	873.4	873.0	871.9	872.9	874.2
20°	879.9	880.1	879.3	877.4	876.8	875.1	870.3	869.8	868.8	869.6	872.0
20.5°	876.7	876.6	875.1	873.6	873.4	871.6	867.5	866.8	864.7	866.4	869.8
21°	874.7	873.3	872.2	870.8	869.6	868.4	864.5	863.3	861.6	864.2	865.8
21.5°	871.5	870.8	869.6	868.7	866.2	865.0	861.0	859.7	858.2	861.1	861.9
22°	867.2	867.1	866.4	865.5	863.1	860.9	858.4	858.1	854.6	856.7	858.8

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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°	863.7	863.7	863.8	861.6	859.2	857.3	854.8	854.1	851.3	853.1	854.9
23°	860.7	860.3	860.1	857.7	855.8	855.1	850.8	851.0	847.9	850.2	851.9
23.5°	857.2	857.6	855.9	854.1	852.8	851.5	847.1	847.6	845.0	847.4	848.2
24°	853.9	854.3	852.2	851.6	848.7	847.6	843.7	843.1	841.3	842.8	844.8
24.5°	850.6	850.3	848.6	847.4	845.3	844.0	838.6	838.7	836.5	838.1	840.8
25°	846.9	845.9	845.3	843.4	842.5	840.2	834.9	835.8	832.9	834.5	836.6
25.5°	843.0	842.5	841.2	839.3	838.5	836.6	832.0	832.5	830.0	830.8	832.8
26°	839.7	839.1	837.5	835.7	835.4	832.7	827.9	828.4	826.0	827.5	830.3
26.5°	836.1	835.8	834.5	831.7	830.5	828.2	823.8	824.5	822.2	823.0	825.7
27°	831.9	831.8	830.6	828.1	827.0	823.7	820.2	820.4	817.4	818.5	820.9
27.5°	828.3	828.6	825.8	824.6	822.4	819.3	816.3	816.2	812.9	814.7	816.5
28°	824.7	823.1	821.8	820.9	817.0	815.3	812.1	811.1	809.6	811.9	812.6
28.5°	818.8	819.0	817.6	816.7	812.4	810.6	807.7	807.1	805.6	807.5	807.7
29°	815.3	815.3	813.2	812.2	808.9	807.3	803.5	802.9	801.9	803.3	804.0
29.5°	810.2	811.8	809.7	807.9	804.4	803.3	799.3	798.2	796.5	798.6	799.7
30°	807.7	807.2	804.8	802.9	800.2	797.8	794.5	793.6	792.7	793.6	795.1
30.5°	802.7	802.2	800.2	797.9	796.4	793.2	789.3	789.2	788.3	788.6	789.8
31°	797.5	797.0	795.9	793.8	791.3	788.3	784.7	784.0	783.5	784.2	786.1
31.5°	793.0	792.0	791.8	789.1	786.6	783.6	779.3	778.7	778.3	778.8	780.9
32°	788.5	788.1	786.4	785.1	781.6	780.0	774.7	774.7	773.4	774.2	776.3
32.5°	783.9	783.6	782.7	779.7	776.5	775.9	770.1	769.1	767.9	769.8	770.9
33°	779.5	779.1	778.6	775.5	772.6	770.8	765.7	764.3	763.1	764.8	766.8
33.5°	774.5	774.4	773.7	770.1	767.4	765.9	760.5	760.7	758.3	759.7	761.0
34°	769.0	770.2	768.5	765.5	763.5	760.4	756.1	756.1	753.2	755.0	756.3
34.5°	764.0	765.5	764.0	760.0	758.3	755.7	751.7	750.5	749.0	749.6	751.5
35°	760.8	760.3	759.2	754.7	753.3	750.7	745.9	745.0	743.7	744.8	746.9
35.5°	755.8	755.1	754.2	750.7	748.1	745.1	740.1	739.2	737.3	740.5	741.5
36°	749.8	749.7	749.0	745.8	742.9	738.9	735.2	735.5	732.2	735.3	737.1
36.5°	744.5	744.8	742.6	741.1	737.0	733.8	729.4	729.5	726.9	729.4	730.8
37°	740.2	740.1	737.7	735.1	731.6	728.8	724.1	724.8	721.3	723.3	725.1
37.5°	735.2	734.0	733.2	729.5	726.9	723.0	719.3	718.4	716.2	718.0	720.2
38°	729.6	729.0	727.3	725.0	721.2	717.7	714.5	712.1	711.2	713.3	715.2
38.5°	723.2	723.8	721.7	718.6	714.9	712.2	709.0	706.8	705.5	708.5	710.1
39°	718.2	717.8	717.1	713.3	709.2	707.6	702.9	701.7	699.8	703.0	704.4
39.5°	712.5	712.1	711.8	707.2	704.0	701.9	697.3	695.9	694.7	696.1	698.1
40°	707.9	706.4	706.3	701.6	698.7	695.9	692.1	690.4	689.1	690.5	692.2
40.5°	702.6	701.4	700.6	695.9	692.5	689.8	685.7	685.2	683.1	684.5	686.6
41°	696.8	695.9	694.2	691.3	687.1	683.9	679.4	678.8	677.5	678.0	681.0
41.5°	691.0	690.2	688.3	685.6	681.3	678.9	673.8	672.3	670.5	672.6	675.0
42°	684.9	683.8	682.6	679.6	675.7	672.1	667.9	666.8	664.6	666.7	669.0
42.5°	679.1	678.6	676.1	674.2	669.9	666.4	661.8	660.5	658.4	661.3	664.0
43°	673.1	673.3	670.1	667.5	664.0	661.5	655.8	655.0	652.9	654.6	657.1
43.5°	666.9	667.2	665.2	661.1	658.6	655.4	650.0	648.2	647.3	649.2	651.3
44°	661.1	660.6	659.0	655.0	652.4	648.4	644.0	642.3	641.3	643.2	645.1
44.5°	655.1	654.8	652.6	648.8	645.1	642.0	638.3	636.2	634.8	637.6	639.1

TEST NUMBER: P869736  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	648.9	647.8	646.2	642.9	639.5	636.0	631.8	630.2	628.5	630.5	633.0
45.5°	643.1	642.3	639.7	637.7	633.8	630.5	625.8	623.7	621.8	624.7	626.6
46°	636.5	636.5	633.6	630.9	627.7	624.2	618.3	617.1	615.1	618.3	620.9
46.5°	629.6	629.2	627.5	623.7	621.4	617.8	612.4	610.7	608.8	612.1	614.4
47°	623.6	622.9	620.6	617.8	615.2	611.3	605.7	604.3	602.6	605.5	608.3
47.5°	617.3	616.5	613.9	610.9	608.4	604.6	599.2	597.8	596.6	598.3	601.3
48°	611.0	610.7	607.2	604.8	601.5	598.3	593.4	591.8	589.9	591.8	594.2
48.5°	603.8	603.8	601.3	598.3	594.3	591.3	586.5	585.4	583.6	584.8	588.4
49°	597.4	597.5	595.0	591.7	588.0	584.5	580.3	578.7	576.6	578.5	581.1
49.5°	590.9	591.2	588.2	585.0	581.1	577.4	573.1	571.9	569.8	572.3	573.8
50°	584.8	584.4	580.9	578.1	574.8	571.3	566.0	565.5	563.1	565.8	567.6
50.5°	577.4	577.4	574.4	571.1	568.7	565.3	559.7	558.7	556.0	558.5	561.1
51°	570.3	570.4	567.5	564.6	562.0	557.8	552.4	551.2	549.2	551.0	554.1
51.5°	563.9	563.7	561.1	557.7	555.4	550.6	546.4	544.0	542.2	544.4	547.0
52°	557.7	556.4	554.4	551.0	547.6	544.6	539.7	537.8	535.2	537.6	540.0
52.5°	550.8	549.8	547.4	544.1	540.0	537.4	533.0	531.0	528.6	530.1	533.0
53°	543.8	543.2	540.2	537.0	533.2	529.4	525.5	523.6	521.2	524.2	526.2
53.5°	536.2	535.9	533.3	530.6	526.6	522.4	518.7	515.7	514.4	517.1	519.0
54°	529.7	529.4	526.9	522.8	519.2	516.0	511.1	508.9	507.0	509.3	512.3
54.5°	523.1	522.3	519.8	515.5	513.0	509.3	503.0	501.3	500.6	501.7	505.0
55°	515.3	514.9	513.1	508.2	505.7	501.9	496.0	494.8	493.4	494.6	497.4
55.5°	507.7	507.2	505.2	501.6	498.2	494.0	489.1	487.0	485.7	487.4	489.7
56°	501.1	499.9	497.4	494.2	490.3	486.4	482.0	479.8	478.6	480.1	483.1
56.5°	493.6	493.1	490.6	486.4	483.2	478.9	474.4	473.2	471.1	473.3	475.8
57°	486.0	485.9	482.8	478.9	476.0	471.9	467.0	465.6	463.2	466.1	468.7
57.5°	478.8	478.5	475.8	471.5	468.8	464.8	459.1	457.3	455.9	458.1	461.0
58°	471.5	470.4	468.4	463.9	461.2	456.9	451.4	449.8	448.4	450.3	453.0
58.5°	463.8	462.6	460.4	456.4	453.3	448.8	443.9	442.5	441.1	442.6	445.4
59°	456.4	455.8	452.6	449.0	446.1	441.6	436.8	434.8	433.0	435.2	437.6
59.5°	449.1	448.0	445.5	442.1	438.6	434.0	429.1	427.5	425.4	428.0	429.9
60°	441.3	440.4	437.4	434.4	430.7	426.4	422.0	419.9	418.0	420.4	423.1
60.5°	433.8	432.4	429.7	426.8	422.2	419.0	414.2	412.2	410.4	412.0	415.3
61°	426.1	424.4	421.9	418.6	414.8	411.2	406.6	404.0	402.7	404.7	407.7
61.5°	417.7	416.7	414.2	410.5	407.1	403.3	399.0	395.9	394.4	396.7	399.7
62°	410.4	408.9	406.4	402.6	399.4	395.4	391.1	388.5	386.6	388.9	391.8
62.5°	402.4	401.2	398.5	395.0	391.2	387.9	383.0	380.5	378.5	381.0	383.6
63°	394.8	393.2	390.6	387.2	383.7	379.9	374.9	373.0	370.9	372.9	375.5
63.5°	387.5	385.1	382.8	378.8	376.1	371.9	367.3	364.8	363.3	364.7	368.1
64°	378.9	377.7	374.9	371.2	368.5	363.9	358.7	356.7	355.2	356.9	360.3
64.5°	371.2	369.7	367.0	362.9	359.9	356.1	350.4	348.6	346.8	348.6	352.1
65°	363.4	362.1	359.0	354.7	352.0	347.9	342.4	340.6	338.9	340.8	343.8
65.5°	355.4	353.9	351.2	346.4	344.0	339.6	334.2	332.7	331.0	332.8	335.9
66°	346.5	345.7	342.5	338.3	335.8	331.5	326.2	324.2	323.1	324.6	327.8
66.5°	338.1	337.3	334.3	330.5	327.6	323.5	317.9	316.2	315.0	316.3	319.3
67°	330.5	328.8	326.1	322.1	319.7	315.3	310.5	307.8	306.9	308.1	311.3



TEST NUMBER: P869736  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	322.0	320.6	317.7	313.5	311.4	307.1	302.3	299.4	298.6	299.8	302.7
68°	313.7	312.5	309.4	305.1	303.3	298.8	294.0	291.7	290.3	291.9	294.9
68.5°	305.4	304.3	301.4	297.4	294.9	290.6	285.5	283.5	281.8	283.4	286.9
69°	297.3	296.4	293.2	289.5	287.1	282.1	277.0	274.8	273.4	275.0	278.6
69.5°	289.3	288.1	284.8	280.3	278.3	273.4	268.7	266.2	265.1	266.4	270.4
70°	280.4	279.7	276.3	272.0	269.7	265.4	260.3	258.2	256.7	258.2	261.6
70.5°	272.1	271.4	267.8	263.8	261.7	257.4	252.5	250.1	248.8	250.3	253.5
71°	263.8	263.0	259.9	255.7	253.4	249.1	244.1	241.9	240.5	242.0	245.0
71.5°	255.6	254.9	251.4	246.7	244.8	240.6	235.6	233.2	232.0	233.7	236.6
72°	247.4	246.2	242.8	238.5	236.6	232.0	227.2	224.8	224.0	225.3	228.6
72.5°	239.1	237.4	234.2	230.4	228.3	223.9	219.0	216.8	215.5	217.1	220.3
73°	230.6	228.9	225.8	221.7	220.0	215.8	210.9	208.2	206.9	208.8	212.0
73.5°	221.9	220.6	217.8	213.4	211.4	207.1	202.6	199.8	198.6	201.0	203.6
74°	213.6	212.2	208.9	205.1	203.0	198.8	194.4	191.7	190.4	192.4	195.2
74.5°	205.2	203.7	200.8	196.3	194.9	190.6	186.1	183.6	182.3	184.1	186.8
75°	196.6	195.2	192.4	187.8	186.5	182.0	177.7	175.4	173.9	175.8	178.6
75.5°	188.4	187.2	184.1	179.8	178.2	173.9	169.8	166.9	165.9	168.0	170.6
76°	180.2	179.0	175.9	171.4	169.9	165.6	161.4	158.6	157.8	159.6	162.4
76.5°	171.8	170.7	167.6	163.2	161.9	157.5	153.2	150.9	149.6	151.3	154.0
77°	163.9	162.2	159.5	155.0	153.7	149.2	145.2	142.6	141.5	143.1	145.8
77.5°	155.8	154.0	151.5	147.0	145.4	141.1	137.1	134.6	133.5	135.2	138.0
78°	147.5	145.8	143.2	139.0	137.4	133.2	129.4	126.4	125.6	127.1	130.0
78.5°	139.3	137.8	135.2	131.0	129.6	125.2	121.2	118.8	117.7	119.3	121.9
79°	131.5	129.9	127.1	122.9	121.5	117.1	113.2	110.9	109.8	111.3	114.0
79.5°	123.6	122.0	119.4	115.2	113.6	109.5	105.7	103.5	102.3	104.1	106.5
80°	115.6	113.8	111.4	107.4	106.0	102.1	98.2	95.9	94.9	96.6	99.2
80.5°	108.0	106.3	104.0	99.9	98.6	94.5	90.9	88.6	87.3	89.3	91.9
81°	100.2	98.6	96.6	92.4	91.3	87.2	83.4	81.2	80.3	82.0	84.6
81.5°	92.7	91.4	89.0	85.1	83.8	79.9	76.3	74.2	73.4	74.6	77.2
82°	85.2	84.0	81.3	77.6	76.5	72.7	69.2	67.0	66.2	67.7	70.1
82.5°	77.8	76.8	74.0	70.2	69.5	65.7	62.6	60.3	59.4	60.9	63.3
83°	70.5	69.2	66.9	63.5	62.8	59.2	55.9	53.8	53.0	54.5	56.9
83.5°	63.8	62.3	60.0	57.0	56.1	52.6	49.3	47.4	46.7	48.0	50.2
84°	57.1	55.8	53.5	50.6	49.7	46.3	43.1	41.2	40.4	41.9	44.1
84.5°	50.7	49.5	47.4	44.3	43.5	40.2	37.3	35.4	34.9	36.1	38.0
85°	44.4	43.3	41.3	38.3	37.5	34.5	31.6	29.8	29.4	30.5	32.5
85.5°	38.4	37.4	35.5	32.8	31.8	28.9	26.2	24.8	24.5	25.3	27.1
86°	33.0	31.9	30.2	27.6	26.7	23.9	21.6	20.1	19.8	20.6	22.4
86.5°	27.7	26.9	25.4	23.0	21.9	19.6	17.6	16.3	16.0	17.1	18.3
87°	23.1	22.4	20.8	18.6	17.9	15.8	13.9	12.7	12.5	13.3	14.7
87.5°	18.7	18.1	16.7	14.7	14.0	12.1	10.3	9.3	9.3	10.0	11.2
88°	14.7	14.1	12.9	11.0	10.5	8.8	7.3	6.4	6.3	7.0	8.0
88.5°	11.0	10.4	9.5	7.8	7.6	5.9	4.7	3.8	3.6	4.3	5.3
89°	7.8	7.5	6.6	5.4	5.4	3.7	2.5	1.9	1.7	2.1	3.0
89.5°	5.4	5.2	4.4	3.3	3.0	1.8	0.9	1.7	1.4	1.9	1.1

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



TEST NUMBER: P869736  
CATALOG NUMBER: SMX18SLSFS010-2500LM-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: P869736  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	936.9	936.9	936.9	936.9	936.9	936.9
0.5°	937.7	935.8	938.1	936.3	936.2	936.7
1°	936.8	935.6	938.5	936.6	936.0	937.5
1.5°	936.5	936.6	937.8	936.6	936.3	936.6
2°	935.9	936.4	936.7	936.6	937.7	936.0
2.5°	935.4	935.0	937.8	935.9	936.0	935.9
3°	936.3	934.3	937.7	935.3	936.9	934.6
3.5°	935.6	935.3	936.5	934.8	936.1	935.2
4°	935.3	934.4	936.4	935.1	935.0	934.9
4.5°	935.2	933.5	935.9	934.6	934.8	934.8
5°	934.5	932.8	936.0	933.8	934.2	935.2
5.5°	932.3	931.9	935.7	933.5	934.7	934.5
6°	931.2	931.6	935.8	933.2	933.2	934.0
6.5°	930.2	931.8	934.6	933.1	932.8	933.2
7°	929.7	929.6	933.7	931.5	932.4	932.6
7.5°	928.6	929.5	932.5	930.9	932.2	931.0
8°	927.3	928.4	930.2	930.1	930.9	929.9
8.5°	925.7	926.5	929.0	928.7	928.4	928.9
9°	924.5	925.4	928.7	926.5	928.2	927.5
9.5°	922.2	924.3	927.1	925.3	926.3	925.3
10°	920.9	922.9	924.9	923.6	924.5	923.3
10.5°	918.8	920.9	923.3	920.6	924.1	922.2
11°	917.5	918.8	921.5	919.1	921.6	920.6
11.5°	915.0	916.6	919.6	918.2	919.4	918.6
12°	913.1	913.9	918.6	916.8	917.9	917.8
12.5°	911.3	912.6	915.5	914.4	916.5	916.2
13°	909.9	910.2	913.0	913.2	914.4	914.4
13.5°	907.6	908.9	911.4	911.6	912.3	912.6
14°	906.0	906.5	910.3	910.0	909.6	910.9
14.5°	904.4	904.8	907.1	907.5	908.1	908.8
15°	901.9	901.9	904.5	904.3	907.1	907.4
15.5°	898.0	900.5	902.7	901.3	905.4	904.4
16°	895.5	898.4	900.3	899.9	902.3	902.8
16.5°	893.0	895.2	898.0	897.4	900.7	899.9
17°	891.1	891.5	895.3	893.9	897.9	896.5
17.5°	888.3	889.5	893.9	891.2	895.3	894.6
18°	885.2	887.6	891.1	890.1	892.7	892.7
18.5°	882.5	885.1	887.5	887.6	889.0	889.5
19°	879.4	881.8	883.8	883.9	885.6	885.7
19.5°	875.8	878.9	880.8	880.3	882.9	882.8
20°	873.4	875.9	878.3	877.3	879.8	879.9
20.5°	871.4	873.4	874.4	874.7	877.1	876.7
21°	868.5	869.3	871.5	872.5	874.3	874.7
21.5°	864.9	865.0	868.4	869.8	871.9	871.5
22°	861.2	861.6	864.9	866.0	869.2	867.2

TEST NUMBER: P869736  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	856.6	859.5	861.5	861.9	864.8	863.7
23°	853.7	856.2	858.8	858.7	860.6	860.7
23.5°	849.8	851.7	854.9	856.3	857.3	857.2
24°	846.4	848.1	852.2	851.6	853.8	853.9
24.5°	843.9	845.4	848.3	848.2	850.3	850.6
25°	839.9	841.6	844.4	845.6	847.7	846.9
25.5°	835.7	838.6	840.1	841.9	844.8	843.0
26°	832.1	833.2	836.5	837.7	840.0	839.7
26.5°	828.2	829.1	833.3	832.8	835.4	836.1
27°	823.5	824.9	830.0	829.3	832.0	831.9
27.5°	818.9	820.0	825.3	826.0	829.4	828.3
28°	815.0	815.8	820.6	822.8	825.1	824.7
28.5°	810.2	812.9	816.1	818.1	820.5	818.8
29°	806.8	808.8	813.0	813.8	815.1	815.3
29.5°	802.7	804.1	808.4	809.3	812.0	810.2
30°	799.1	799.7	803.5	804.2	808.1	807.7
30.5°	793.2	796.3	798.2	799.0	803.1	802.7
31°	788.5	789.9	794.3	795.4	798.3	797.5
31.5°	783.7	785.6	790.4	790.1	794.4	793.0
32°	780.1	781.3	786.0	785.7	790.4	788.5
32.5°	776.0	777.2	780.9	781.5	786.3	783.9
33°	770.8	772.4	776.6	778.0	781.0	779.5
33.5°	764.5	767.4	771.6	772.8	776.4	774.5
34°	760.1	762.4	766.2	767.2	770.9	769.0
34.5°	754.6	757.6	761.4	762.4	766.0	764.0
35°	749.8	752.6	756.4	757.9	761.3	760.8
35.5°	745.4	746.7	751.8	753.0	755.8	755.8
36°	740.2	741.0	746.3	747.9	750.4	749.8
36.5°	735.2	735.7	741.0	741.4	745.3	744.5
37°	729.8	730.5	736.4	736.4	739.9	740.2
37.5°	723.7	725.9	731.0	730.8	735.5	735.2
38°	718.0	720.3	725.7	726.0	730.4	729.6
38.5°	712.5	715.0	719.8	720.9	725.1	723.2
39°	706.8	710.1	714.8	715.5	718.3	718.2
39.5°	701.5	705.2	709.2	709.4	713.0	712.5
40°	695.7	699.0	703.6	704.9	707.1	707.9
40.5°	690.9	692.9	697.8	699.4	701.7	702.6
41°	685.6	687.7	691.9	693.8	695.6	696.8
41.5°	679.2	682.3	686.1	687.7	690.3	691.0
42°	673.4	676.0	680.8	681.4	685.4	684.9
42.5°	666.6	669.2	674.6	675.3	679.5	679.1
43°	660.4	664.0	667.7	669.9	673.8	673.1
43.5°	654.0	657.3	661.2	664.4	667.3	666.9
44°	648.5	650.6	655.0	657.8	661.3	661.1
44.5°	642.3	645.5	650.1	650.7	655.2	655.1

TEST NUMBER: P869736  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	636.1	639.9	644.3	644.5	648.3	648.9
45.5°	629.5	633.8	637.8	638.6	641.8	643.1
46°	623.4	627.3	631.8	632.5	635.9	636.5
46.5°	617.0	620.6	625.5	627.3	629.6	629.6
47°	610.5	614.3	619.2	620.6	623.3	623.6
47.5°	603.9	608.2	612.7	614.0	616.6	617.3
48°	597.6	601.5	606.2	607.5	610.6	611.0
48.5°	591.1	594.2	599.4	601.1	604.2	603.8
49°	584.2	587.5	592.3	594.4	597.5	597.4
49.5°	577.7	581.0	585.2	587.9	591.1	590.9
50°	570.9	573.5	578.3	581.7	584.2	584.8
50.5°	563.9	567.0	571.5	575.0	577.0	577.4
51°	557.5	561.0	565.4	567.6	570.5	570.3
51.5°	550.8	553.5	558.9	560.5	564.2	563.9
52°	544.0	546.3	552.2	553.4	557.7	557.7
52.5°	536.8	539.9	545.3	547.4	550.6	550.8
53°	529.7	533.1	538.4	540.7	544.2	543.8
53.5°	523.3	526.2	531.0	532.5	536.9	536.2
54°	515.8	518.9	524.1	525.5	529.7	529.7
54.5°	508.7	511.4	516.9	519.1	522.0	523.1
55°	501.6	504.3	509.4	511.7	515.4	515.3
55.5°	494.5	496.9	502.1	504.9	508.5	507.7
56°	487.3	489.8	495.0	497.5	501.1	501.1
56.5°	479.8	482.3	487.8	489.8	494.1	493.6
57°	472.0	474.7	480.1	482.4	486.5	486.0
57.5°	464.2	467.0	472.6	474.1	478.6	478.8
58°	457.2	459.7	464.8	467.3	471.5	471.5
58.5°	450.1	452.0	456.8	460.3	463.8	463.8
59°	442.7	444.7	449.3	453.0	456.4	456.4
59.5°	434.5	437.0	441.5	445.2	448.8	449.1
60°	427.4	428.9	434.4	437.3	441.3	441.3
60.5°	418.8	421.1	426.2	429.6	433.7	433.8
61°	411.0	413.2	418.8	421.6	425.6	426.1
61.5°	403.5	406.0	411.5	413.7	417.6	417.7
62°	395.5	398.3	403.8	406.0	410.0	410.4
62.5°	387.9	390.5	396.0	398.4	402.1	402.4
63°	379.8	382.1	387.8	390.1	394.7	394.8
63.5°	372.0	374.2	380.1	382.4	386.5	387.5
64°	364.1	366.7	372.0	374.3	377.8	378.9
64.5°	356.1	358.9	364.3	366.9	369.8	371.2
65°	348.0	350.7	355.7	358.9	362.0	363.4
65.5°	340.4	342.6	347.7	350.5	354.0	355.4
66°	332.2	333.9	339.5	342.5	345.8	346.5
66.5°	323.9	326.3	331.4	334.8	337.8	338.1
67°	315.6	318.1	323.2	326.6	330.1	330.5

TEST NUMBER: P869736  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	307.5	309.6	314.4	317.7	321.8	322.0
68°	299.1	301.1	306.4	309.9	313.5	313.7
68.5°	291.2	293.1	298.3	301.7	304.8	305.4
69°	283.4	285.2	289.6	293.1	296.5	297.3
69.5°	274.9	276.9	281.3	284.9	288.3	289.3
70°	266.4	268.4	272.9	276.9	280.0	280.4
70.5°	258.1	259.6	264.9	268.4	271.9	272.1
71°	249.6	251.3	256.5	259.7	263.5	263.8
71.5°	241.1	243.1	247.9	251.8	255.3	255.6
72°	232.6	234.9	239.8	243.3	246.5	247.4
72.5°	224.8	226.2	231.4	234.6	238.0	239.1
73°	216.4	217.5	222.8	226.1	229.5	230.6
73.5°	208.1	209.6	214.9	217.9	221.2	221.9
74°	199.8	201.0	206.1	209.3	212.9	213.6
74.5°	191.7	192.7	197.7	201.3	204.3	205.2
75°	183.1	184.2	189.2	192.9	195.7	196.6
75.5°	175.0	176.1	181.2	184.5	187.4	188.4
76°	166.8	167.8	172.7	176.1	179.2	180.2
76.5°	158.4	159.7	164.6	168.0	170.9	171.8
77°	150.1	151.3	156.2	159.6	162.7	163.9
77.5°	142.0	143.4	148.1	151.9	154.9	155.8
78°	134.1	135.4	140.2	143.7	146.7	147.5
78.5°	126.0	127.5	132.5	135.9	138.7	139.3
79°	118.4	119.6	124.3	127.7	130.4	131.5
79.5°	110.4	111.9	116.4	119.8	122.7	123.6
80°	102.8	104.1	108.5	111.8	114.9	115.6
80.5°	95.6	96.6	101.2	104.3	107.1	108.0
81°	88.3	89.3	93.7	96.9	99.6	100.2
81.5°	81.0	81.8	86.2	89.4	91.9	92.7
82°	73.8	74.4	78.8	82.0	84.6	85.2
82.5°	66.9	67.6	71.6	74.5	77.3	77.8
83°	60.4	60.8	64.4	67.4	70.1	70.5
83.5°	53.6	54.1	57.7	60.6	63.3	63.8
84°	47.3	47.8	51.4	54.0	56.4	57.1
84.5°	41.2	41.8	45.1	47.8	50.2	50.7
85°	35.5	36.1	39.3	41.9	43.8	44.4
85.5°	29.8	30.5	33.6	36.1	37.9	38.4
86°	24.8	25.7	28.2	30.6	32.6	33.0
86.5°	20.4	21.1	23.6	25.7	27.3	27.7
87°	16.6	17.0	19.2	21.0	22.6	23.1
87.5°	13.0	13.3	15.4	16.9	18.3	18.7
88°	9.7	9.6	11.5	13.3	14.4	14.7
88.5°	6.7	6.5	7.8	9.5	10.6	11.0
89°	4.2	4.3	5.4	6.5	7.4	7.8
89.5°	2.0	2.4	3.2	4.1	5.2	5.4

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869736  
CATALOG NUMBER: SMX18SLSFS010-2500LM-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)