

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: P869737

Luminaire Tested: **SMX18SLSFS010-2500LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869737  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18SLSFS010-2500LM-3000K  
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT  
 Ballast/Driver: -

**Summary**

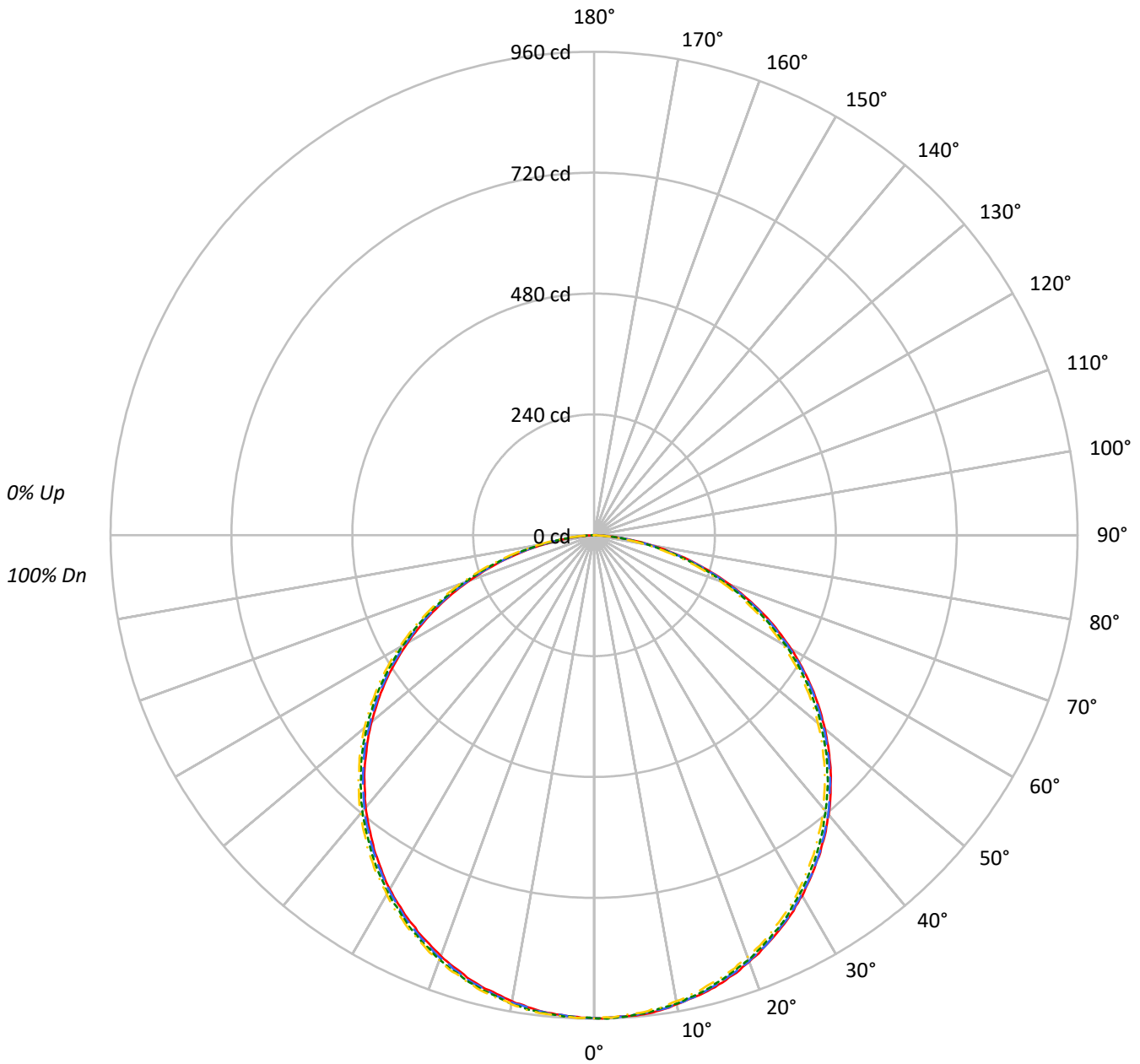
Lumens per Lamp: N/A  
 Luminaire Lumens: 2800.0 lumens  
 Efficiency: N/A  
 Efficacy: 93.3 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
 CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4589	4589	4589	4589
5°	4598	4588	4576	4586
10°	4592	4587	4563	4590
15°	4601	4570	4548	4573
20°	4586	4570	4528	4566
25°	4576	4553	4501	4548
30°	4568	4526	4483	4523
35°	4549	4504	4446	4499
40°	4526	4467	4406	4469
45°	4494	4429	4354	4432
50°	4456	4380	4290	4370
55°	4400	4318	4213	4306
60°	4323	4218	4094	4201
65°	4212	4079	3927	4065
70°	4014	3862	3676	3844
75°	3719	3530	3292	3486
80°	3262	2989	2675	2934
85°	2497	2108	1652	2031

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.8	3.2
10°-20°	260.7	9.3
20°-30°	397.0	14.2
30°-40°	481.9	17.2
40°-50°	504.8	18.0
50°-60°	461.5	16.5
60°-70°	355.3	12.7
70°-80°	200.8	7.2
80°-90°	47.3	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>748.5</b>	<b>26.7</b>
<b>0°-40°</b>	<b>1230.4</b>	<b>43.9</b>
<b>0°-60°</b>	<b>2196.7</b>	<b>78.5</b>
<b>0°-90°</b>	<b>2800.0</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>2800.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	959	959	959	959	959	
5°	957	955	953	955	957	91
15°	929	923	918	923	929	262
25°	867	862	853	862	867	400
35°	779	771	761	770	779	487
45°	664	655	644	655	664	512
55°	528	518	505	516	528	471
65°	372	360	347	359	372	367
75°	201	191	178	189	201	213
85°	46	38	30	37	46	55
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°	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2
0.5°	959.0	958.7	959.3	958.5	959.5	960.2	958.5	959.2	958.5	959.0	958.0
1°	959.8	958.1	959.4	959.1	959.0	959.4	957.8	958.4	957.9	958.6	959.2
1.5°	958.9	958.9	958.4	959.1	960.2	959.2	957.1	958.2	958.2	957.8	958.9
2°	958.3	957.7	958.1	958.9	959.8	958.8	958.4	957.1	956.9	957.0	957.0
2.5°	958.2	958.6	957.8	958.9	959.0	958.8	957.3	957.0	956.6	956.6	956.7
3°	956.8	958.8	957.5	957.9	958.1	957.9	956.0	957.6	956.4	955.6	956.9
3.5°	957.4	959.0	957.2	957.8	958.3	957.0	956.0	956.9	955.4	955.5	955.5
4°	957.1	957.9	956.9	958.0	957.7	956.4	954.1	956.0	954.5	955.8	954.5
4.5°	957.0	957.8	955.6	957.7	956.6	956.2	954.1	954.2	954.5	954.9	954.3
5°	957.4	956.9	955.6	956.2	955.3	955.8	953.3	953.7	952.8	952.5	955.1
5.5°	956.7	956.2	954.9	954.6	954.5	954.6	952.9	952.2	952.6	951.4	953.7
6°	956.2	956.2	954.2	954.8	954.5	952.6	952.2	951.9	951.8	950.6	951.9
6.5°	955.4	955.8	953.4	953.1	953.3	952.9	950.8	950.6	950.5	949.8	951.1
7°	954.8	955.1	952.5	952.7	952.2	951.6	948.1	948.8	949.2	948.2	951.1
7.5°	953.1	952.8	951.1	950.9	949.8	950.9	948.0	947.8	947.3	947.0	949.2
8°	952.0	950.9	950.6	950.6	948.3	949.7	947.2	946.2	946.4	945.9	946.5
8.5°	951.0	949.6	950.2	948.2	947.7	948.4	945.7	945.2	943.5	944.9	945.5
9°	949.6	948.0	948.6	947.6	946.5	947.1	943.3	944.0	942.3	942.9	944.0
9.5°	947.3	947.4	946.5	945.5	945.5	945.8	940.9	941.6	942.1	941.7	943.6
10°	945.3	945.4	944.6	944.8	944.3	944.0	939.7	939.8	939.4	941.0	942.0
10.5°	944.1	944.1	944.0	942.3	942.5	941.4	938.5	938.0	937.5	938.8	940.0
11°	942.4	942.4	942.5	941.6	940.5	940.0	936.5	937.5	935.6	936.1	937.8
11.5°	940.4	941.6	940.1	938.9	937.4	938.6	934.7	935.0	932.7	934.9	936.1
12°	939.6	939.1	938.9	937.0	936.5	937.1	932.0	934.1	931.4	932.3	935.0
12.5°	937.9	937.2	938.1	935.3	935.2	935.2	929.9	932.2	928.8	930.4	932.6
13°	936.2	936.8	935.7	933.0	933.0	933.0	928.5	929.3	927.1	928.8	929.5
13.5°	934.3	935.0	932.6	931.3	931.1	930.5	925.9	927.8	926.2	927.0	926.8
14°	932.6	933.0	930.4	930.0	929.0	926.5	922.6	925.1	923.9	925.3	925.5
14.5°	930.4	930.0	927.9	926.9	926.5	925.1	920.1	922.2	921.0	922.4	923.3
15°	928.9	927.5	926.0	925.6	922.8	923.4	918.6	919.9	918.3	918.9	921.6
15.5°	925.9	925.4	923.9	922.6	920.7	920.6	916.8	917.1	916.3	916.3	919.4
16°	924.2	922.8	920.9	920.5	919.2	918.6	914.2	914.6	913.9	914.7	916.8
16.5°	921.3	920.2	918.5	917.4	915.9	916.1	911.4	912.1	909.9	912.1	914.0
17°	917.8	917.1	915.7	915.8	913.2	913.4	908.8	910.0	906.7	908.5	910.2
17.5°	915.8	914.9	913.5	911.8	909.8	910.5	906.3	907.2	904.1	905.4	907.6
18°	913.9	912.5	910.7	909.2	907.8	907.2	903.9	903.7	901.2	902.5	905.1
18.5°	910.6	909.9	908.1	906.1	904.3	904.6	899.5	900.0	898.9	899.6	901.1
19°	906.7	907.5	905.1	903.4	902.4	901.4	896.7	897.0	895.3	896.7	897.2
19.5°	903.8	905.0	902.9	900.4	899.2	898.6	894.1	893.7	892.6	893.6	895.0
20°	900.9	901.1	900.2	898.2	897.6	895.9	891.0	890.5	889.4	890.3	892.7
20.5°	897.5	897.4	895.9	894.4	894.1	892.4	888.1	887.4	885.2	887.0	890.5
21°	895.5	894.0	892.9	891.5	890.3	889.0	885.0	883.8	882.1	884.7	886.4
21.5°	892.3	891.5	890.3	889.3	886.8	885.6	881.5	880.1	878.6	881.6	882.4
22°	887.9	887.8	887.0	886.1	883.6	881.4	878.8	878.5	874.9	877.1	879.2

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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°	884.2	884.2	884.3	882.1	879.6	877.7	875.1	874.3	871.5	873.4	875.2
23°	881.2	880.7	880.5	878.1	876.1	875.4	871.0	871.2	868.1	870.4	872.1
23.5°	877.6	878.0	876.2	874.4	873.1	871.7	867.2	867.8	865.1	867.5	868.4
24°	874.2	874.6	872.5	871.8	868.9	867.8	863.8	863.1	861.3	862.8	864.9
24.5°	870.8	870.5	868.8	867.5	865.3	864.1	858.5	858.6	856.3	858.0	860.8
25°	867.0	866.0	865.3	863.5	862.5	860.2	854.8	855.7	852.7	854.3	856.4
25.5°	863.0	862.5	861.2	859.3	858.4	856.4	851.7	852.3	849.7	850.6	852.6
26°	859.7	859.1	857.4	855.6	855.3	852.5	847.5	848.1	845.6	847.2	850.0
26.5°	856.0	855.7	854.3	851.5	850.3	847.8	843.3	844.1	841.8	842.6	845.3
27°	851.7	851.6	850.4	847.7	846.7	843.2	839.7	839.9	836.8	838.0	840.4
27.5°	848.0	848.3	845.4	844.2	842.0	838.7	835.7	835.6	832.2	834.0	835.9
28°	844.3	842.7	841.4	840.4	836.4	834.7	831.4	830.4	828.9	831.2	831.9
28.5°	838.2	838.4	837.1	836.1	831.7	829.8	826.9	826.3	824.7	826.7	826.9
29°	834.7	834.6	832.5	831.5	828.1	826.5	822.6	822.0	820.9	822.4	823.1
29.5°	829.4	831.1	829.0	827.1	823.5	822.4	818.3	817.2	815.5	817.6	818.7
30°	826.9	826.4	824.0	822.0	819.3	816.7	813.4	812.4	811.5	812.4	814.0
30.5°	821.8	821.2	819.3	816.8	815.4	812.0	808.0	807.9	807.0	807.3	808.6
31°	816.4	815.9	814.8	812.6	810.1	807.0	803.3	802.6	802.1	802.8	804.8
31.5°	811.8	810.9	810.7	807.8	805.3	802.2	797.8	797.3	796.8	797.4	799.5
32°	807.2	806.8	805.1	803.7	800.2	798.5	793.1	793.1	791.8	792.6	794.7
32.5°	802.5	802.2	801.3	798.2	795.0	794.3	788.5	787.4	786.1	788.1	789.2
33°	798.0	797.6	797.1	793.9	791.0	789.1	783.9	782.5	781.2	783.0	785.0
33.5°	793.0	792.8	792.1	788.5	785.6	784.1	778.6	778.8	776.3	777.8	779.1
34°	787.3	788.5	786.8	783.7	781.6	778.5	774.1	774.1	771.1	773.0	774.3
34.5°	782.2	783.7	782.2	778.1	776.3	773.7	769.6	768.3	766.8	767.4	769.4
35°	778.9	778.4	777.2	772.6	771.2	768.6	763.6	762.7	761.3	762.5	764.7
35.5°	773.8	773.1	772.1	768.6	765.9	762.8	757.7	756.8	754.8	758.1	759.1
36°	767.6	767.5	766.8	763.5	760.6	756.5	752.6	752.9	749.6	752.7	754.6
36.5°	762.2	762.5	760.3	758.7	754.5	751.3	746.8	746.9	744.1	746.8	748.1
37°	757.8	757.7	755.2	752.5	749.0	746.1	741.3	742.0	738.5	740.5	742.4
37.5°	752.6	751.5	750.6	746.9	744.1	740.2	736.4	735.5	733.2	735.0	737.3
38°	747.0	746.3	744.6	742.3	738.4	734.7	731.5	729.1	728.1	730.2	732.2
38.5°	740.4	741.0	738.8	735.7	731.9	729.2	725.8	723.6	722.2	725.3	727.0
39°	735.2	734.8	734.2	730.2	726.0	724.4	719.6	718.4	716.4	719.7	721.1
39.5°	729.5	729.1	728.7	724.0	720.7	718.6	713.9	712.4	711.3	712.6	714.7
40°	724.8	723.2	723.1	718.3	715.3	712.4	708.5	706.8	705.5	707.0	708.6
40.5°	719.3	718.1	717.2	712.4	708.9	706.2	702.0	701.5	699.3	700.8	702.9
41°	713.3	712.4	710.7	707.7	703.4	700.2	695.5	694.9	693.6	694.1	697.2
41.5°	707.4	706.6	704.7	701.9	697.5	695.0	689.8	688.3	686.4	688.6	691.0
42°	701.2	700.0	698.8	695.7	691.8	688.1	683.8	682.7	680.4	682.5	684.9
42.5°	695.2	694.7	692.2	690.2	685.8	682.2	677.5	676.2	674.1	677.0	679.8
43°	689.1	689.3	686.0	683.4	679.8	677.2	671.3	670.6	668.4	670.2	672.7
43.5°	682.8	683.1	681.0	676.8	674.3	671.0	665.5	663.6	662.6	664.6	666.7
44°	676.8	676.3	674.7	670.6	667.9	663.8	659.3	657.5	656.6	658.5	660.4
44.5°	670.7	670.4	668.1	664.2	660.4	657.3	653.4	651.3	649.9	652.8	654.3

TEST NUMBER: P869737  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	664.3	663.2	661.6	658.1	654.7	651.1	646.8	645.2	643.5	645.5	648.1
45.5°	658.4	657.5	654.9	652.9	648.8	645.5	640.7	638.6	636.6	639.5	641.5
46°	651.6	651.7	648.6	645.9	642.6	639.1	633.0	631.8	629.8	633.0	635.6
46.5°	644.5	644.1	642.4	638.6	636.2	632.5	626.9	625.3	623.3	626.6	629.0
47°	638.4	637.7	635.3	632.5	629.9	625.8	620.1	618.7	616.9	619.9	622.7
47.5°	632.0	631.1	628.5	625.5	622.8	619.0	613.4	612.1	610.8	612.5	615.6
48°	625.6	625.2	621.6	619.2	615.8	612.5	607.5	605.9	603.9	605.9	608.3
48.5°	618.1	618.1	615.6	612.5	608.4	605.4	600.4	599.3	597.5	598.7	602.4
49°	611.6	611.7	609.1	605.8	602.0	598.4	594.1	592.5	590.3	592.3	594.9
49.5°	604.9	605.2	602.2	598.9	594.9	591.1	586.7	585.4	583.4	585.9	587.4
50°	598.7	598.3	594.7	591.8	588.5	584.9	579.5	579.0	576.4	579.3	581.0
50.5°	591.1	591.1	588.1	584.7	582.2	578.7	573.0	571.9	569.2	571.7	574.4
51°	583.9	584.0	580.9	578.0	575.4	571.1	565.5	564.3	562.3	564.1	567.2
51.5°	577.3	577.1	574.5	571.0	568.6	563.7	559.4	557.0	555.1	557.4	560.0
52°	571.0	569.6	567.5	564.1	560.6	557.6	552.6	550.6	547.9	550.4	552.9
52.5°	563.9	562.8	560.4	557.1	552.9	550.1	545.6	543.6	541.1	542.7	545.6
53°	556.7	556.1	553.1	549.7	545.9	542.0	538.0	536.0	533.6	536.6	538.7
53.5°	549.0	548.7	546.0	543.2	539.1	534.9	531.0	527.9	526.6	529.4	531.3
54°	542.3	542.0	539.5	535.3	531.5	528.3	523.2	521.0	519.0	521.4	524.5
54.5°	535.5	534.7	532.1	527.7	525.2	521.4	514.9	513.2	512.5	513.6	517.0
55°	527.5	527.1	525.3	520.3	517.7	513.8	507.8	506.6	505.1	506.4	509.2
55.5°	519.8	519.2	517.3	513.5	510.0	505.7	500.7	498.6	497.3	499.0	501.3
56°	513.0	511.8	509.2	505.9	502.0	498.0	493.5	491.2	490.0	491.5	494.6
56.5°	505.3	504.8	502.3	498.0	494.7	490.2	485.7	484.5	482.3	484.6	487.1
57°	497.6	497.5	494.3	490.2	487.3	483.1	478.1	476.7	474.2	477.1	479.9
57.5°	490.2	489.9	487.1	482.7	480.0	475.9	470.0	468.1	466.8	469.0	472.0
58°	482.7	481.5	479.5	474.9	472.2	467.7	462.2	460.5	459.0	461.0	463.7
58.5°	474.8	473.6	471.4	467.3	464.0	459.4	454.4	453.0	451.6	453.1	456.0
59°	467.3	466.7	463.3	459.6	456.7	452.1	447.2	445.1	443.3	445.5	448.0
59.5°	459.8	458.6	456.1	452.6	449.1	444.4	439.3	437.6	435.6	438.2	440.2
60°	451.8	450.8	447.8	444.8	440.9	436.5	432.0	429.9	427.9	430.4	433.1
60.5°	444.1	442.7	440.0	436.9	432.2	429.0	424.0	422.0	420.1	421.8	425.2
61°	436.2	434.5	431.9	428.5	424.7	421.0	416.3	413.6	412.3	414.3	417.4
61.5°	427.6	426.6	424.0	420.3	416.8	412.9	408.5	405.3	403.8	406.1	409.2
62°	420.2	418.6	416.1	412.2	408.9	404.8	400.4	397.7	395.7	398.2	401.1
62.5°	412.0	410.7	408.0	404.4	400.5	397.1	392.1	389.6	387.5	390.1	392.7
63°	404.2	402.6	399.9	396.4	392.8	388.9	383.8	381.8	379.7	381.8	384.4
63.5°	396.7	394.3	391.9	387.8	385.1	380.8	376.0	373.4	372.0	373.3	376.9
64°	387.9	386.6	383.8	380.0	377.3	372.6	367.3	365.2	363.7	365.4	368.8
64.5°	380.0	378.5	375.7	371.5	368.4	364.5	358.8	356.9	355.0	356.9	360.4
65°	372.1	370.7	367.6	363.2	360.3	356.2	350.5	348.7	346.9	348.9	352.0
65.5°	363.8	362.3	359.5	354.7	352.2	347.7	342.1	340.6	338.9	340.8	343.9
66°	354.7	354.0	350.6	346.3	343.8	339.4	333.9	331.9	330.8	332.3	335.6
66.5°	346.1	345.4	342.2	338.3	335.4	331.2	325.5	323.7	322.5	323.8	326.9
67°	338.3	336.6	333.8	329.8	327.3	322.8	317.9	315.1	314.1	315.4	318.6



TEST NUMBER: P869737  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	329.7	328.2	325.3	321.0	318.8	314.4	309.5	306.5	305.7	306.9	309.9
68°	321.2	319.9	316.8	312.4	310.5	305.9	300.9	298.6	297.2	298.9	301.9
68.5°	312.7	311.5	308.6	304.5	301.9	297.5	292.3	290.3	288.5	290.2	293.7
69°	304.4	303.5	300.2	296.3	293.9	288.8	283.6	281.4	279.9	281.6	285.2
69.5°	296.1	295.0	291.5	286.9	284.9	279.9	275.1	272.6	271.4	272.8	276.9
70°	287.0	286.4	282.8	278.4	276.1	271.7	266.5	264.3	262.8	264.3	267.8
70.5°	278.5	277.9	274.1	270.0	267.9	263.5	258.5	256.0	254.7	256.2	259.6
71°	270.0	269.2	266.1	261.8	259.5	255.1	249.9	247.6	246.3	247.7	250.8
71.5°	261.7	260.9	257.4	252.6	250.7	246.3	241.2	238.7	237.5	239.2	242.2
72°	253.3	252.0	248.6	244.2	242.2	237.5	232.6	230.1	229.3	230.7	234.0
72.5°	244.8	243.0	239.8	235.9	233.7	229.2	224.2	222.0	220.6	222.3	225.5
73°	236.1	234.3	231.2	227.0	225.2	220.9	215.9	213.2	211.8	213.8	217.0
73.5°	227.2	225.8	223.0	218.5	216.4	212.0	207.4	204.6	203.3	205.7	208.4
74°	218.7	217.2	213.9	210.0	207.8	203.5	199.0	196.3	194.9	196.9	199.9
74.5°	210.1	208.6	205.6	201.0	199.6	195.2	190.5	187.9	186.7	188.4	191.3
75°	201.2	199.9	196.9	192.2	191.0	186.4	181.9	179.5	178.1	180.0	182.9
75.5°	192.8	191.7	188.4	184.0	182.5	178.1	173.9	170.8	169.8	172.0	174.6
76°	184.5	183.2	180.1	175.5	174.0	169.5	165.2	162.4	161.5	163.4	166.2
76.5°	175.9	174.7	171.6	167.1	165.7	161.2	156.8	154.5	153.1	154.9	157.7
77°	167.8	166.0	163.3	158.7	157.3	152.7	148.6	146.0	144.9	146.5	149.3
77.5°	159.5	157.6	155.1	150.5	148.8	144.4	140.4	137.8	136.7	138.4	141.3
78°	151.0	149.3	146.7	142.3	140.7	136.4	132.5	129.4	128.6	130.1	133.1
78.5°	142.6	141.1	138.4	134.1	132.7	128.2	124.1	121.6	120.5	122.1	124.8
79°	134.6	133.0	130.1	125.8	124.3	119.8	115.9	113.6	112.4	114.0	116.7
79.5°	126.5	124.9	122.2	117.9	116.3	112.1	108.2	106.0	104.8	106.5	109.0
80°	118.4	116.5	114.1	110.0	108.5	104.5	100.6	98.2	97.1	98.9	101.6
80.5°	110.6	108.8	106.4	102.2	101.0	96.8	93.0	90.7	89.4	91.4	94.1
81°	102.6	101.0	98.9	94.6	93.4	89.3	85.4	83.2	82.2	83.9	86.6
81.5°	94.9	93.5	91.1	87.1	85.8	81.8	78.1	75.9	75.1	76.4	79.1
82°	87.3	86.0	83.3	79.4	78.4	74.5	70.8	68.6	67.8	69.3	71.8
82.5°	79.6	78.7	75.7	71.9	71.1	67.3	64.1	61.7	60.9	62.3	64.8
83°	72.2	70.8	68.5	65.0	64.3	60.6	57.2	55.1	54.3	55.8	58.2
83.5°	65.4	63.8	61.4	58.3	57.4	53.8	50.5	48.5	47.8	49.1	51.4
84°	58.5	57.1	54.8	51.8	50.9	47.4	44.1	42.2	41.4	42.9	45.1
84.5°	52.0	50.7	48.5	45.4	44.5	41.2	38.2	36.2	35.7	37.0	38.9
85°	45.5	44.3	42.3	39.2	38.4	35.3	32.4	30.5	30.1	31.2	33.3
85.5°	39.3	38.3	36.4	33.6	32.6	29.5	26.8	25.4	25.0	25.9	27.8
86°	33.8	32.7	30.9	28.3	27.3	24.5	22.1	20.5	20.3	21.1	22.9
86.5°	28.4	27.6	26.0	23.6	22.4	20.1	18.0	16.7	16.3	17.5	18.7
87°	23.7	22.9	21.3	19.1	18.3	16.1	14.2	13.0	12.8	13.6	15.1
87.5°	19.2	18.5	17.1	15.1	14.4	12.4	10.6	9.5	9.5	10.3	11.4
88°	15.1	14.5	13.2	11.3	10.8	9.0	7.4	6.6	6.5	7.1	8.2
88.5°	11.3	10.7	9.7	8.0	7.8	6.1	4.8	3.9	3.7	4.4	5.4
89°	8.0	7.6	6.8	5.5	5.5	3.8	2.5	2.0	1.8	2.2	3.0
89.5°	5.6	5.3	4.5	3.4	3.0	1.9	0.9	1.8	1.5	2.0	1.1

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



TEST NUMBER: P869737  
CATALOG NUMBER: SMX18SLSFS010-2500LM-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: P869737  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	959.2	959.2	959.2	959.2	959.2	959.2
0.5°	960.0	958.0	960.4	958.6	958.5	959.0
1°	959.1	957.8	960.8	958.9	958.3	959.8
1.5°	958.8	958.9	960.1	958.9	958.6	958.9
2°	958.2	958.7	959.0	958.9	960.0	958.3
2.5°	957.6	957.2	960.1	958.2	958.3	958.2
3°	958.6	956.5	960.0	957.5	959.2	956.8
3.5°	957.8	957.5	958.8	957.0	958.4	957.4
4°	957.5	956.6	958.7	957.3	957.2	957.1
4.5°	957.4	955.6	958.1	956.8	957.0	957.0
5°	956.7	955.0	958.3	956.0	956.4	957.4
5.5°	954.5	954.1	957.9	955.6	956.9	956.7
6°	953.3	953.7	958.0	955.4	955.4	956.2
6.5°	952.3	954.0	956.8	955.3	955.0	955.4
7°	951.8	951.7	955.8	953.6	954.6	954.8
7.5°	950.7	951.5	954.7	953.0	954.4	953.1
8°	949.3	950.5	952.3	952.2	953.0	952.0
8.5°	947.7	948.5	951.1	950.8	950.5	951.0
9°	946.5	947.4	950.8	948.5	950.3	949.6
9.5°	944.1	946.3	949.1	947.3	948.3	947.3
10°	942.8	944.8	946.8	945.6	946.5	945.3
10.5°	940.7	942.7	945.3	942.4	946.1	944.1
11°	939.3	940.7	943.4	941.0	943.5	942.4
11.5°	936.8	938.3	941.5	940.0	941.3	940.4
12°	934.8	935.6	940.4	938.6	939.7	939.6
12.5°	933.0	934.3	937.3	936.1	938.2	937.9
13°	931.5	931.9	934.7	934.9	936.1	936.2
13.5°	929.1	930.5	933.0	933.2	934.0	934.3
14°	927.6	928.1	932.0	931.6	931.2	932.6
14.5°	925.9	926.3	928.6	929.0	929.7	930.4
15°	923.4	923.4	926.0	925.8	928.6	928.9
15.5°	919.4	921.9	924.1	922.7	926.9	925.9
16°	916.8	919.7	921.7	921.3	923.8	924.2
16.5°	914.3	916.5	919.4	918.8	922.1	921.3
17°	912.3	912.7	916.6	915.1	919.3	917.8
17.5°	909.4	910.6	915.1	912.4	916.6	915.8
18°	906.2	908.7	912.3	911.2	913.9	913.9
18.5°	903.5	906.1	908.6	908.7	910.2	910.6
19°	900.3	902.7	904.8	904.9	906.6	906.7
19.5°	896.7	899.8	901.7	901.3	903.9	903.8
20°	894.1	896.8	899.2	898.1	900.7	900.9
20.5°	892.2	894.1	895.2	895.5	897.9	897.5
21°	889.1	890.0	892.3	893.2	895.1	895.5
21.5°	885.5	885.6	889.0	890.5	892.6	892.3
22°	881.7	882.1	885.5	886.6	889.8	887.9

TEST NUMBER: P869737  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	877.0	879.9	882.0	882.4	885.3	884.2
23°	874.0	876.5	879.2	879.1	881.1	881.2
23.5°	869.9	871.9	875.2	876.7	877.7	877.6
24°	866.5	868.3	872.5	871.8	874.1	874.2
24.5°	864.0	865.4	868.5	868.4	870.5	870.8
25°	859.9	861.6	864.5	865.7	867.9	867.0
25.5°	855.6	858.5	860.1	861.9	864.9	863.0
26°	851.8	853.0	856.3	857.6	860.0	859.7
26.5°	847.8	848.8	853.1	852.6	855.3	856.0
27°	843.0	844.5	849.7	849.0	851.7	851.7
27.5°	838.3	839.5	844.9	845.6	849.1	848.0
28°	834.3	835.2	840.1	842.4	844.7	844.3
28.5°	829.4	832.2	835.5	837.6	840.0	838.2
29°	826.0	828.0	832.3	833.2	834.4	834.7
29.5°	821.8	823.2	827.6	828.6	831.3	829.4
30°	818.1	818.7	822.6	823.3	827.3	826.9
30.5°	812.0	815.3	817.2	818.0	822.2	821.8
31°	807.2	808.7	813.2	814.3	817.3	816.4
31.5°	802.3	804.3	809.2	808.9	813.3	811.8
32°	798.6	799.9	804.7	804.4	809.2	807.2
32.5°	794.4	795.7	799.5	800.1	805.0	802.5
33°	789.1	790.8	795.1	796.5	799.6	798.0
33.5°	782.7	785.6	789.9	791.2	794.8	793.0
34°	778.2	780.5	784.4	785.4	789.2	787.3
34.5°	772.5	775.6	779.4	780.5	784.2	782.2
35°	767.6	770.4	774.4	775.9	779.4	778.9
35.5°	763.1	764.5	769.7	770.9	773.8	773.8
36°	757.8	758.6	764.0	765.7	768.2	767.6
36.5°	752.6	753.2	758.6	759.0	763.0	762.2
37°	747.2	747.8	753.9	753.9	757.4	757.8
37.5°	740.9	743.2	748.3	748.1	752.9	752.6
38°	735.0	737.4	743.0	743.3	747.8	747.0
38.5°	729.5	732.0	736.9	738.1	742.4	740.4
39°	723.6	727.0	731.8	732.5	735.3	735.2
39.5°	718.2	721.9	726.0	726.2	729.9	729.5
40°	712.2	715.6	720.4	721.6	723.9	724.8
40.5°	707.3	709.4	714.4	716.1	718.4	719.3
41°	701.9	704.0	708.3	710.3	712.1	713.3
41.5°	695.3	698.5	702.5	704.0	706.7	707.4
42°	689.4	692.1	697.0	697.6	701.7	701.2
42.5°	682.4	685.1	690.6	691.3	695.6	695.2
43°	676.1	679.8	683.6	685.8	689.8	689.1
43.5°	669.6	672.9	676.9	680.1	683.2	682.8
44°	663.9	666.1	670.6	673.4	677.0	676.8
44.5°	657.5	660.9	665.6	666.2	670.8	670.7

TEST NUMBER: P869737  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	651.2	655.1	659.6	659.8	663.7	664.3
45.5°	644.4	648.8	652.9	653.7	657.1	658.4
46°	638.2	642.2	646.8	647.6	651.0	651.6
46.5°	631.6	635.3	640.3	642.2	644.5	644.5
47°	625.0	628.9	633.9	635.3	638.1	638.4
47.5°	618.2	622.6	627.2	628.6	631.2	632.0
48°	611.8	615.8	620.6	621.9	625.1	625.6
48.5°	605.1	608.3	613.6	615.4	618.5	618.1
49°	598.1	601.5	606.4	608.5	611.7	611.6
49.5°	591.4	594.8	599.1	601.9	605.1	604.9
50°	584.5	587.1	592.0	595.5	598.1	598.7
50.5°	577.3	580.5	585.1	588.7	590.7	591.1
51°	570.8	574.3	578.8	581.0	584.1	583.9
51.5°	563.9	566.7	572.1	573.8	577.6	577.3
52°	557.0	559.3	565.3	566.6	571.0	571.0
52.5°	549.5	552.8	558.2	560.4	563.7	563.9
53°	542.3	545.8	551.2	553.5	557.2	556.7
53.5°	535.7	538.7	543.7	545.1	549.6	549.0
54°	528.0	531.2	536.5	538.0	542.3	542.3
54.5°	520.8	523.5	529.2	531.4	534.4	535.5
55°	513.5	516.3	521.6	523.9	527.6	527.5
55.5°	506.3	508.7	514.0	516.9	520.6	519.8
56°	498.9	501.4	506.8	509.3	513.0	513.0
56.5°	491.2	493.8	499.3	501.4	505.8	505.3
57°	483.2	485.9	491.5	493.9	498.1	497.6
57.5°	475.3	478.1	483.8	485.4	490.0	490.2
58°	468.0	470.6	475.9	478.4	482.7	482.7
58.5°	460.8	462.8	467.7	471.3	474.8	474.8
59°	453.2	455.2	460.0	463.7	467.3	467.3
59.5°	444.9	447.4	452.0	455.8	459.4	459.8
60°	437.5	439.1	444.8	447.7	451.8	451.8
60.5°	428.7	431.2	436.3	439.8	444.0	444.1
61°	420.8	423.0	428.7	431.6	435.8	436.2
61.5°	413.1	415.7	421.3	423.5	427.5	427.6
62°	404.9	407.8	413.4	415.6	419.7	420.2
62.5°	397.1	399.8	405.4	407.9	411.7	412.0
63°	388.8	391.1	397.0	399.4	404.1	404.2
63.5°	380.9	383.1	389.1	391.5	395.6	396.7
64°	372.8	375.4	380.9	383.2	386.7	387.9
64.5°	364.5	367.5	372.9	375.6	378.6	380.0
65°	356.3	359.1	364.1	367.5	370.6	372.1
65.5°	348.5	350.7	355.9	358.9	362.4	363.8
66°	340.1	341.8	347.6	350.6	354.1	354.7
66.5°	331.6	334.0	339.3	342.7	345.8	346.1
67°	323.1	325.7	330.9	334.4	337.9	338.3

TEST NUMBER: P869737  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	314.8	317.0	321.9	325.3	329.4	329.7
68°	306.2	308.3	313.7	317.3	321.0	321.2
68.5°	298.1	300.1	305.3	308.9	312.0	312.7
69°	290.2	291.9	296.4	300.1	303.6	304.4
69.5°	281.5	283.5	288.0	291.6	295.2	296.1
70°	272.8	274.8	279.4	283.5	286.7	287.0
70.5°	264.3	265.8	271.2	274.8	278.3	278.5
71°	255.5	257.3	262.6	265.9	269.7	270.0
71.5°	246.8	248.9	253.8	257.8	261.3	261.7
72°	238.1	240.5	245.5	249.1	252.3	253.3
72.5°	230.1	231.6	236.9	240.2	243.6	244.8
73°	221.5	222.7	228.1	231.5	235.0	236.1
73.5°	213.1	214.6	220.0	223.1	226.5	227.2
74°	204.6	205.7	211.0	214.3	218.0	218.7
74.5°	196.3	197.2	202.4	206.0	209.2	210.1
75°	187.5	188.6	193.7	197.5	200.4	201.2
75.5°	179.1	180.3	185.5	188.9	191.9	192.8
76°	170.7	171.8	176.8	180.3	183.4	184.5
76.5°	162.2	163.5	168.5	172.0	174.9	175.9
77°	153.7	154.9	160.0	163.4	166.6	167.8
77.5°	145.4	146.8	151.6	155.5	158.6	159.5
78°	137.3	138.6	143.5	147.1	150.2	151.0
78.5°	129.0	130.5	135.6	139.1	142.0	142.6
79°	121.2	122.5	127.3	130.7	133.5	134.6
79.5°	113.0	114.6	119.2	122.7	125.6	126.5
80°	105.3	106.5	111.0	114.5	117.6	118.4
80.5°	97.8	98.9	103.6	106.7	109.7	110.6
81°	90.4	91.4	95.9	99.2	101.9	102.6
81.5°	83.0	83.7	88.2	91.5	94.1	94.9
82°	75.5	76.2	80.7	83.9	86.6	87.3
82.5°	68.5	69.2	73.3	76.3	79.1	79.6
83°	61.8	62.2	65.9	69.0	71.8	72.2
83.5°	54.9	55.4	59.1	62.0	64.8	65.4
84°	48.4	48.9	52.6	55.3	57.7	58.5
84.5°	42.2	42.8	46.2	48.9	51.4	52.0
85°	36.3	37.0	40.2	42.9	44.8	45.5
85.5°	30.5	31.2	34.4	37.0	38.8	39.3
86°	25.4	26.3	28.9	31.3	33.4	33.8
86.5°	20.8	21.6	24.2	26.3	28.0	28.4
87°	17.0	17.4	19.7	21.5	23.1	23.7
87.5°	13.3	13.6	15.8	17.3	18.7	19.2
88°	10.0	9.8	11.7	13.6	14.8	15.1
88.5°	6.8	6.7	8.0	9.7	10.9	11.3
89°	4.3	4.4	5.5	6.7	7.5	8.0
89.5°	2.1	2.4	3.3	4.2	5.3	5.6

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869737  
CATALOG NUMBER: SMX18SLSFS010-2500LM-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)