

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: P869738

Luminaire Tested: **SMX18SLSFS010-2500LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869738  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18SLSFS010-2500LM-3500K  
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

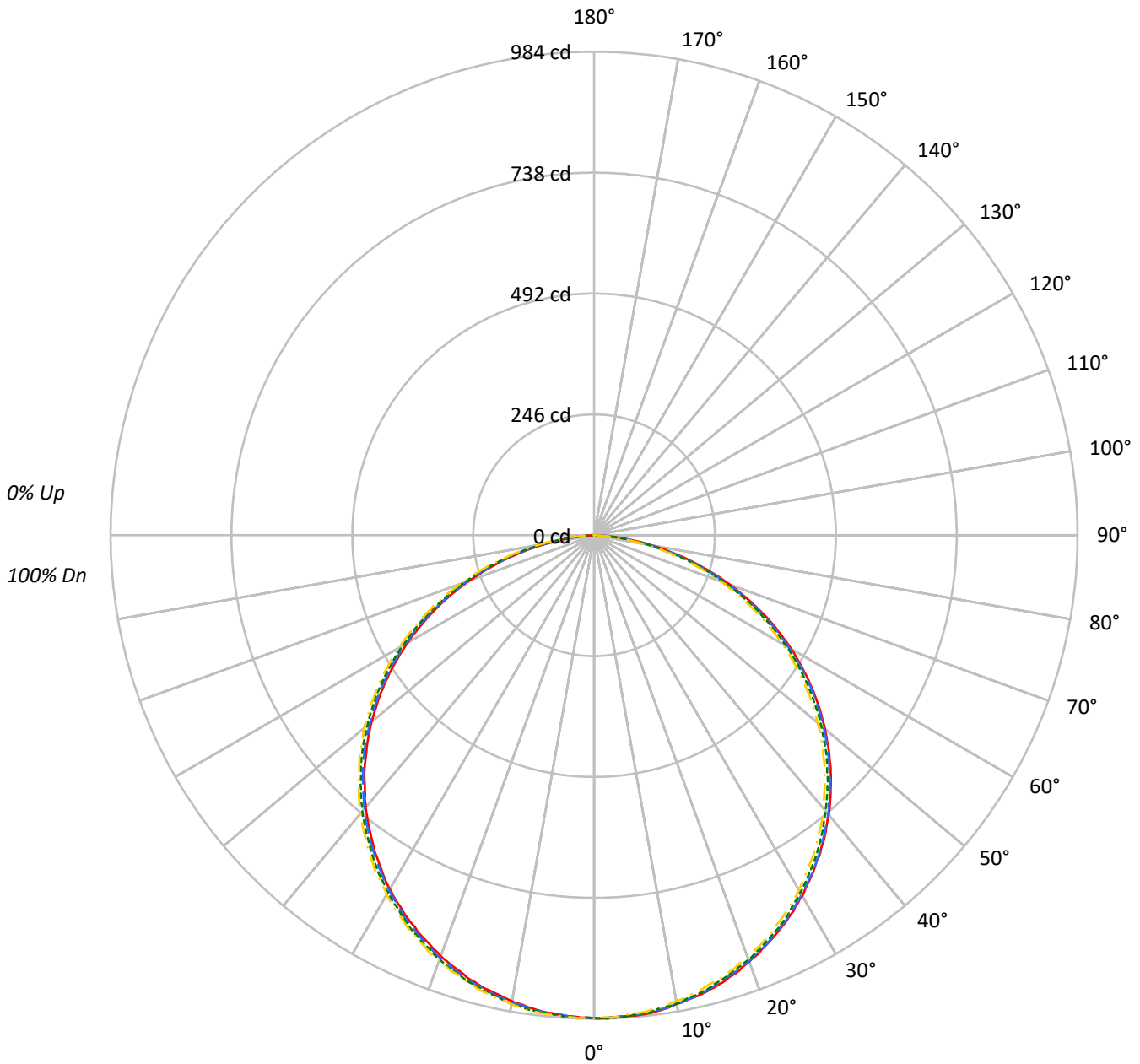
Lumens per Lamp: N/A  
 Luminaire Lumens: 2870.0 lumens  
 Efficiency: N/A  
 Efficacy: 95.7 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
 CIE Type: Direct

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	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
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	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
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	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
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	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

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

	0°	90°	180°	270°
0°	4704	4704	4704	4704
5°	4712	4702	4690	4700
10°	4707	4702	4678	4704
15°	4716	4684	4662	4687
20°	4701	4684	4641	4680
25°	4691	4667	4613	4662
30°	4682	4639	4595	4635
35°	4662	4617	4558	4612
40°	4639	4579	4516	4581
45°	4607	4540	4462	4543
50°	4567	4489	4398	4479
55°	4510	4426	4318	4414
60°	4431	4325	4196	4307
65°	4317	4180	4025	4166
70°	4115	3958	3768	3940
75°	3813	3617	3373	3573
80°	3342	3064	2744	3008
85°	2558	2157	1696	2080

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	3.2
10°-20°	267.2	9.3
20°-30°	406.9	14.2
30°-40°	494.0	17.2
40°-50°	517.4	18.0
50°-60°	473.0	16.5
60°-70°	364.1	12.7
70°-80°	205.8	7.2
80°-90°	48.5	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>767.2</b>	<b>26.7</b>
<b>0°-40°</b>	<b>1261.2</b>	<b>43.9</b>
<b>0°-60°</b>	<b>2251.6</b>	<b>78.5</b>
<b>0°-90°</b>	<b>2870.0</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>2870.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	983	983	983	983	983	
5°	981	979	977	979	981	93
15°	952	946	941	946	952	269
25°	889	884	874	883	889	410
35°	798	790	780	790	798	499
45°	681	671	660	672	681	525
55°	541	531	518	529	541	483
65°	381	369	356	368	381	376
75°	206	196	182	193	206	218
85°	47	39	31	38	47	56
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°	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2
0.5°	983.0	982.6	983.3	982.4	983.5	984.3	982.4	983.2	982.4	983.0	981.9
1°	983.8	982.0	983.4	983.1	983.0	983.4	981.7	982.3	981.8	982.5	983.2
1.5°	982.9	982.9	982.3	983.1	984.2	983.2	981.0	982.1	982.1	981.7	982.9
2°	982.2	981.6	982.0	982.9	983.8	982.8	982.3	981.0	980.8	980.9	980.9
2.5°	982.1	982.5	981.7	982.9	983.0	982.8	981.2	980.9	980.5	980.5	980.6
3°	980.7	982.8	981.4	981.8	982.0	981.8	979.9	981.5	980.3	979.5	980.8
3.5°	981.3	983.0	981.1	981.7	982.2	980.9	979.9	980.8	979.2	979.3	979.3
4°	981.0	981.8	980.8	981.9	981.6	980.3	977.9	979.9	978.3	979.7	978.3
4.5°	980.9	981.7	979.5	981.6	980.5	980.1	977.9	978.0	978.3	978.7	978.1
5°	981.3	980.8	979.5	980.1	979.1	979.7	977.1	977.5	976.6	976.3	978.9
5.5°	980.6	980.1	978.7	978.4	978.3	978.4	976.7	976.0	976.4	975.2	977.5
6°	980.1	980.1	978.0	978.6	978.3	976.4	976.0	975.7	975.6	974.3	975.7
6.5°	979.2	979.7	977.2	976.9	977.1	976.7	974.5	974.3	974.2	973.5	974.9
7°	978.6	978.9	976.3	976.5	976.0	975.4	971.8	972.5	972.9	971.9	974.8
7.5°	976.9	976.6	974.9	974.6	973.5	974.6	971.7	971.5	971.0	970.7	972.9
8°	975.8	974.6	974.3	974.3	972.0	973.4	970.9	969.8	970.0	969.5	970.1
8.5°	974.7	973.3	973.9	971.9	971.4	972.1	969.3	968.8	967.1	968.5	969.1
9°	973.3	971.7	972.3	971.3	970.1	970.8	966.9	967.6	965.9	966.5	967.6
9.5°	971.0	971.1	970.1	969.1	969.1	969.4	964.4	965.1	965.6	965.2	967.2
10°	968.9	969.0	968.2	968.4	967.9	967.6	963.2	963.3	962.9	964.5	965.5
10.5°	967.7	967.7	967.6	965.9	966.1	964.9	962.0	961.5	960.9	962.3	963.5
11°	966.0	966.0	966.1	965.1	964.0	963.5	959.9	960.9	959.0	959.5	961.3
11.5°	963.9	965.1	963.6	962.4	960.8	962.1	958.1	958.4	956.0	958.3	959.5
12°	963.1	962.6	962.4	960.4	959.9	960.5	955.3	957.5	954.7	955.6	958.4
12.5°	961.4	960.6	961.6	958.7	958.6	958.6	953.2	955.5	952.1	953.7	955.9
13°	959.6	960.2	959.1	956.4	956.4	956.3	951.7	952.6	950.3	952.1	952.8
13.5°	957.7	958.4	955.9	954.6	954.4	953.8	949.1	951.0	949.4	950.2	950.0
14°	955.9	956.3	953.7	953.3	952.3	949.7	945.6	948.3	946.9	948.5	948.7
14.5°	953.7	953.3	951.1	950.1	949.7	948.3	943.1	945.2	944.0	945.4	946.3
15°	952.2	950.7	949.2	948.8	945.8	946.4	941.5	942.9	941.2	941.8	944.6
15.5°	949.1	948.6	946.9	945.6	943.7	943.6	939.7	940.0	939.2	939.2	942.3
16°	947.4	945.8	943.9	943.5	942.1	941.5	937.0	937.4	936.7	937.5	939.7
16.5°	944.3	943.2	941.4	940.3	938.8	939.0	934.2	934.9	932.6	934.9	936.8
17°	940.7	940.0	938.6	938.7	936.0	936.2	931.5	932.7	929.4	931.2	932.9
17.5°	938.7	937.7	936.3	934.6	932.5	933.3	929.0	929.9	926.7	928.0	930.3
18°	936.7	935.3	933.5	931.9	930.5	929.9	926.5	926.3	923.7	925.1	927.7
18.5°	933.4	932.6	930.8	928.8	926.9	927.2	922.0	922.5	921.4	922.1	923.6
19°	929.4	930.2	927.7	926.0	925.0	924.0	919.1	919.5	917.7	919.1	919.7
19.5°	926.4	927.6	925.5	922.9	921.7	921.1	916.5	916.1	915.0	916.0	917.4
20°	923.4	923.6	922.7	920.7	920.1	918.3	913.3	912.8	911.7	912.6	915.1
20.5°	920.0	919.9	918.3	916.8	916.5	914.7	910.3	909.5	907.3	909.1	912.8
21°	917.9	916.4	915.3	913.8	912.6	911.2	907.1	905.9	904.1	906.8	908.5
21.5°	914.6	913.8	912.6	911.6	908.9	907.7	903.5	902.1	900.5	903.6	904.4
22°	910.0	909.9	909.1	908.2	905.7	903.4	900.7	900.4	896.8	899.0	901.2

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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°	906.3	906.3	906.4	904.1	901.6	899.6	897.0	896.2	893.3	895.2	897.1
23°	903.2	902.7	902.5	900.0	898.0	897.3	892.8	893.0	889.8	892.2	893.9
23.5°	899.5	899.9	898.1	896.3	894.9	893.5	888.9	889.5	886.7	889.2	890.1
24°	896.0	896.5	894.3	893.6	890.6	889.5	885.4	884.7	882.9	884.4	886.5
24.5°	892.6	892.3	890.5	889.2	887.0	885.7	880.0	880.1	877.8	879.5	882.3
25°	888.7	887.7	887.0	885.1	884.1	881.7	876.2	877.1	874.0	875.7	877.9
25.5°	884.6	884.1	882.8	880.8	879.9	877.9	873.0	873.6	870.9	871.8	873.9
26°	881.2	880.6	878.9	877.0	876.7	873.8	868.7	869.3	866.7	868.3	871.2
26.5°	877.4	877.1	875.7	872.7	871.5	869.0	864.4	865.2	862.8	863.6	866.4
27°	872.9	872.8	871.6	868.9	867.8	864.3	860.7	860.9	857.7	858.9	861.4
27.5°	869.2	869.5	866.5	865.3	863.0	859.7	856.6	856.5	853.0	854.9	856.8
28°	865.4	863.7	862.4	861.4	857.3	855.6	852.2	851.2	849.6	852.0	852.7
28.5°	859.2	859.4	858.0	857.0	852.5	850.6	847.6	847.0	845.4	847.4	847.6
29°	855.6	855.5	853.3	852.3	848.8	847.2	843.2	842.6	841.5	843.0	843.7
29.5°	850.2	851.9	849.7	847.8	844.1	843.0	838.7	837.6	835.8	838.0	839.1
30°	847.6	847.1	844.6	842.6	839.7	837.1	833.7	832.7	831.8	832.7	834.3
30.5°	842.4	841.8	839.7	837.2	835.7	832.3	828.2	828.1	827.2	827.5	828.8
31°	836.8	836.3	835.1	832.9	830.3	827.2	823.4	822.7	822.2	822.9	824.9
31.5°	832.1	831.1	830.9	828.0	825.4	822.3	817.8	817.2	816.7	817.3	819.5
32°	827.4	827.0	825.2	823.8	820.2	818.5	813.0	813.0	811.6	812.4	814.6
32.5°	822.6	822.3	821.3	818.2	814.9	814.2	808.2	807.1	805.8	807.8	809.0
33°	818.0	817.6	817.0	813.8	810.8	808.9	803.4	802.0	800.7	802.5	804.7
33.5°	812.8	812.6	811.9	808.2	805.3	803.7	798.0	798.2	795.7	797.2	798.5
34°	807.0	808.3	806.5	803.2	801.1	797.9	793.4	793.4	790.4	792.3	793.6
34.5°	801.7	803.2	801.7	797.5	795.7	793.0	788.8	787.5	786.0	786.6	788.6
35°	798.3	797.8	796.6	791.9	790.5	787.8	782.7	781.8	780.4	781.6	783.8
35.5°	793.1	792.4	791.4	787.8	785.0	781.9	776.7	775.7	773.7	777.1	778.1
36°	786.8	786.7	786.0	782.6	779.6	775.4	771.5	771.8	768.4	771.6	773.5
36.5°	781.3	781.6	779.3	777.7	773.4	770.1	765.4	765.5	762.7	765.4	766.8
37°	776.8	776.7	774.1	771.4	767.7	764.7	759.8	760.5	756.9	759.0	760.9
37.5°	771.5	770.3	769.4	765.5	762.7	758.7	754.8	753.9	751.5	753.4	755.7
38°	765.6	764.9	763.2	760.8	756.8	753.1	749.8	747.3	746.3	748.5	750.5
38.5°	758.9	759.5	757.3	754.1	750.2	747.4	744.0	741.7	740.3	743.5	745.2
39°	753.6	753.2	752.5	748.5	744.2	742.5	737.6	736.4	734.4	737.7	739.2
39.5°	747.7	747.3	746.9	742.1	738.8	736.6	731.7	730.2	729.0	730.4	732.5
40°	742.9	741.3	741.2	736.3	733.2	730.2	726.2	724.4	723.1	724.6	726.3
40.5°	737.3	736.1	735.2	730.2	726.6	723.8	719.5	719.0	716.8	718.3	720.5
41°	731.1	730.2	728.4	725.4	721.0	717.7	712.9	712.3	711.0	711.5	714.6
41.5°	725.1	724.2	722.3	719.4	714.9	712.4	707.1	705.5	703.6	705.8	708.3
42°	718.7	717.5	716.3	713.1	709.1	705.3	700.9	699.8	697.5	699.6	702.1
42.5°	712.6	712.1	709.5	707.5	703.0	699.3	694.4	693.1	690.9	693.9	696.7
43°	706.4	706.6	703.2	700.5	696.7	694.1	688.1	687.3	685.1	686.9	689.5
43.5°	699.9	700.2	698.1	693.7	691.1	687.7	682.1	680.2	679.2	681.2	683.4
44°	693.7	693.2	691.5	687.3	684.6	680.4	675.8	674.0	673.0	675.0	676.9
44.5°	687.4	687.1	684.8	680.8	676.9	673.7	669.8	667.6	666.2	669.1	670.7

TEST NUMBER: P869738  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	680.9	679.8	678.1	674.6	671.1	667.4	663.0	661.4	659.5	661.7	664.3
45.5°	674.9	674.0	671.3	669.2	665.1	661.7	656.7	654.5	652.5	655.5	657.5
46°	667.9	668.0	664.9	662.1	658.6	655.0	648.8	647.6	645.5	648.8	651.5
46.5°	660.6	660.2	658.4	654.5	652.1	648.3	642.6	640.9	638.9	642.3	644.7
47°	654.3	653.6	651.2	648.3	645.6	641.5	635.6	634.2	632.4	635.4	638.3
47.5°	647.8	646.9	644.2	641.1	638.4	634.5	628.8	627.4	626.1	627.9	631.0
48°	641.2	640.8	637.2	634.7	631.2	627.9	622.6	621.0	619.0	621.0	623.5
48.5°	633.6	633.6	631.0	627.9	623.6	620.5	615.4	614.3	612.4	613.7	617.4
49°	626.9	627.0	624.3	620.9	617.0	613.3	608.9	607.3	605.1	607.1	609.8
49.5°	620.0	620.3	617.2	613.9	609.8	605.9	601.4	600.1	598.0	600.6	602.1
50°	613.6	613.2	609.6	606.6	603.2	599.5	594.0	593.5	590.9	593.8	595.6
50.5°	605.9	605.9	602.8	599.3	596.8	593.2	587.3	586.2	583.4	586.0	588.7
51°	598.5	598.6	595.5	592.5	589.8	585.3	579.6	578.4	576.3	578.2	581.4
51.5°	591.8	591.6	588.8	585.2	582.8	577.8	573.4	570.9	569.0	571.3	574.0
52°	585.2	583.8	581.7	578.2	574.6	571.5	566.4	564.4	561.6	564.2	566.7
52.5°	578.0	576.9	574.4	571.0	566.7	563.9	559.3	557.2	554.7	556.3	559.3
53°	570.6	570.0	566.9	563.5	559.6	555.6	551.4	549.4	546.9	550.0	552.1
53.5°	562.7	562.4	559.7	556.8	552.5	548.2	544.3	541.1	539.8	542.6	544.6
54°	555.9	555.6	552.9	548.6	544.8	541.5	536.3	534.0	532.0	534.4	537.6
54.5°	548.9	548.0	545.4	540.9	538.3	534.4	527.8	526.1	525.3	526.5	529.9
55°	540.7	540.3	538.4	533.3	530.7	526.7	520.5	519.3	517.7	519.1	522.0
55.5°	532.8	532.2	530.2	526.4	522.8	518.4	513.2	511.0	509.7	511.4	513.8
56°	525.9	524.6	522.0	518.6	514.5	510.4	505.8	503.5	502.2	503.8	506.9
56.5°	517.9	517.4	514.8	510.4	507.0	502.5	497.8	496.6	494.4	496.7	499.3
57°	510.0	509.9	506.6	502.5	499.5	495.2	490.1	488.6	486.1	489.1	491.9
57.5°	502.4	502.1	499.3	494.8	492.0	487.8	481.7	479.8	478.4	480.7	483.8
58°	494.8	493.6	491.5	486.8	484.0	479.4	473.7	472.0	470.5	472.5	475.3
58.5°	486.7	485.5	483.2	478.9	475.6	470.9	465.8	464.3	462.9	464.4	467.4
59°	478.9	478.3	474.9	471.1	468.1	463.4	458.4	456.3	454.4	456.7	459.2
59.5°	471.3	470.1	467.5	463.9	460.3	455.5	450.3	448.6	446.4	449.2	451.2
60°	463.1	462.1	459.0	455.9	452.0	447.5	442.8	440.6	438.6	441.1	443.9
60.5°	455.2	453.8	451.0	447.9	443.0	439.7	434.6	432.5	430.6	432.3	435.8
61°	447.2	445.3	442.7	439.2	435.3	431.5	426.7	424.0	422.6	424.7	427.8
61.5°	438.3	437.2	434.6	430.8	427.2	423.2	418.7	415.5	413.9	416.3	419.5
62°	430.7	429.1	426.5	422.5	419.1	415.0	410.4	407.6	405.6	408.1	411.2
62.5°	422.3	421.0	418.2	414.5	410.5	407.0	401.9	399.3	397.2	399.8	402.5
63°	414.3	412.7	409.8	406.3	402.6	398.6	393.4	391.4	389.2	391.3	394.0
63.5°	406.6	404.1	401.7	397.5	394.7	390.3	385.4	382.8	381.3	382.7	386.3
64°	397.6	396.3	393.4	389.5	386.7	381.9	376.5	374.3	372.7	374.5	378.1
64.5°	389.5	388.0	385.1	380.8	377.7	373.6	367.7	365.8	363.9	365.8	369.4
65°	381.4	380.0	376.8	372.2	369.3	365.1	359.3	357.4	355.6	357.6	360.8
65.5°	372.9	371.3	368.5	363.5	361.0	356.4	350.7	349.1	347.4	349.3	352.5
66°	363.6	362.8	359.4	355.0	352.4	347.9	342.3	340.2	339.0	340.7	344.0
66.5°	354.8	354.0	350.8	346.8	343.8	339.4	333.6	331.8	330.5	331.9	335.0
67°	346.8	345.1	342.2	338.0	335.4	330.8	325.8	323.0	322.0	323.3	326.6



TEST NUMBER: P869738  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	337.9	336.4	333.4	329.0	326.8	322.3	317.2	314.2	313.4	314.6	317.7
68°	329.2	327.9	324.7	320.2	318.3	313.6	308.5	306.1	304.7	306.4	309.5
68.5°	320.5	319.3	316.3	312.1	309.5	305.0	299.6	297.5	295.7	297.4	301.0
69°	312.0	311.1	307.7	303.7	301.2	296.0	290.7	288.4	286.9	288.6	292.3
69.5°	303.5	302.3	298.8	294.1	292.0	286.9	282.0	279.4	278.2	279.6	283.8
70°	294.2	293.5	289.9	285.4	283.0	278.5	273.2	271.0	269.4	271.0	274.5
70.5°	285.5	284.8	281.0	276.8	274.6	270.1	264.9	262.4	261.0	262.6	266.0
71°	276.8	276.0	272.8	268.4	265.9	261.4	256.1	253.8	252.4	253.9	257.1
71.5°	268.3	267.4	263.8	258.9	256.9	252.5	247.2	244.7	243.5	245.2	248.3
72°	259.6	258.3	254.8	250.3	248.3	243.5	238.4	235.9	235.1	236.5	239.9
72.5°	250.9	249.1	245.8	241.8	239.6	235.0	229.8	227.5	226.1	227.8	231.1
73°	242.0	240.2	237.0	232.7	230.8	226.4	221.3	218.5	217.1	219.1	222.4
73.5°	232.9	231.4	228.5	223.9	221.8	217.3	212.6	209.7	208.4	210.9	213.6
74°	224.1	222.6	219.2	215.2	213.0	208.6	204.0	201.2	199.8	201.9	204.9
74.5°	215.3	213.8	210.7	206.0	204.6	200.1	195.2	192.6	191.3	193.1	196.0
75°	206.3	204.9	201.9	197.1	195.7	191.0	186.4	184.0	182.5	184.5	187.4
75.5°	197.7	196.4	193.1	188.6	187.0	182.5	178.2	175.1	174.1	176.3	179.0
76°	189.1	187.8	184.6	179.9	178.3	173.8	169.4	166.5	165.6	167.5	170.4
76.5°	180.3	179.1	175.9	171.3	169.9	165.3	160.7	158.3	156.9	158.7	161.7
77°	172.0	170.2	167.4	162.7	161.3	156.5	152.3	149.6	148.5	150.1	153.0
77.5°	163.5	161.6	158.9	154.2	152.5	148.0	143.9	141.2	140.1	141.9	144.8
78°	154.7	153.0	150.3	145.9	144.2	139.8	135.8	132.7	131.8	133.4	136.4
78.5°	146.2	144.6	141.9	137.5	136.0	131.4	127.2	124.6	123.5	125.2	128.0
79°	138.0	136.3	133.4	129.0	127.5	122.8	118.8	116.4	115.2	116.8	119.6
79.5°	129.7	128.1	125.3	120.8	119.2	114.9	110.9	108.6	107.4	109.2	111.7
80°	121.3	119.4	116.9	112.7	111.2	107.1	103.1	100.7	99.6	101.4	104.1
80.5°	113.3	111.5	109.1	104.8	103.5	99.2	95.4	93.0	91.7	93.7	96.5
81°	105.2	103.5	101.4	97.0	95.8	91.6	87.5	85.2	84.2	86.0	88.7
81.5°	97.3	95.9	93.4	89.2	87.9	83.8	80.0	77.8	77.0	78.3	81.0
82°	89.5	88.1	85.3	81.4	80.3	76.3	72.6	70.3	69.5	71.0	73.6
82.5°	81.6	80.6	77.6	73.7	72.9	69.0	65.7	63.3	62.4	63.9	66.4
83°	74.0	72.6	70.2	66.6	65.9	62.1	58.7	56.5	55.7	57.2	59.7
83.5°	67.0	65.4	63.0	59.8	58.9	55.2	51.7	49.7	49.0	50.3	52.6
84°	60.0	58.6	56.2	53.0	52.1	48.5	45.2	43.2	42.4	43.9	46.2
84.5°	53.2	51.9	49.7	46.5	45.6	42.2	39.1	37.1	36.6	37.9	39.9
85°	46.6	45.4	43.3	40.2	39.3	36.2	33.2	31.3	30.9	32.0	34.1
85.5°	40.3	39.2	37.3	34.4	33.4	30.3	27.5	26.1	25.7	26.6	28.5
86°	34.6	33.5	31.7	29.0	28.0	25.1	22.7	21.1	20.8	21.7	23.5
86.5°	29.1	28.3	26.7	24.2	23.0	20.6	18.5	17.1	16.7	18.0	19.2
87°	24.3	23.5	21.9	19.6	18.8	16.5	14.5	13.3	13.1	13.9	15.4
87.5°	19.7	19.0	17.5	15.4	14.7	12.7	10.8	9.7	9.7	10.5	11.7
88°	15.4	14.8	13.5	11.5	11.0	9.2	7.6	6.7	6.6	7.3	8.4
88.5°	11.5	10.9	9.9	8.2	8.0	6.2	4.9	4.0	3.8	4.5	5.5
89°	8.2	7.8	6.9	5.6	5.6	3.9	2.6	2.0	1.8	2.2	3.1
89.5°	5.7	5.4	4.6	3.5	3.1	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: P869738  
CATALOG NUMBER: SMX18SLSFS010-2500LM-3500K

**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: P869738  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	983.2	983.2	983.2	983.2	983.2	983.2
0.5°	984.0	981.9	984.5	982.5	982.4	983.0
1°	983.1	981.7	984.9	982.9	982.2	983.8
1.5°	982.8	982.9	984.1	982.9	982.5	982.9
2°	982.1	982.6	983.0	982.9	984.0	982.2
2.5°	981.5	981.1	984.1	982.1	982.2	982.1
3°	982.5	980.4	984.0	981.4	983.2	980.7
3.5°	981.7	981.4	982.8	980.9	982.3	981.3
4°	981.4	980.5	982.6	981.2	981.1	981.0
4.5°	981.3	979.5	982.0	980.7	980.9	980.9
5°	980.6	978.8	982.2	979.9	980.3	981.3
5.5°	978.3	977.9	981.8	979.5	980.8	980.6
6°	977.1	977.5	981.9	979.2	979.2	980.1
6.5°	976.1	977.8	980.7	979.1	978.8	979.2
7°	975.6	975.5	979.7	977.4	978.4	978.6
7.5°	974.4	975.3	978.5	976.8	978.2	976.9
8°	973.0	974.2	976.1	976.0	976.8	975.8
8.5°	971.4	972.2	974.8	974.5	974.2	974.7
9°	970.1	971.1	974.5	972.2	974.0	973.3
9.5°	967.7	969.9	972.8	971.0	972.0	971.0
10°	966.4	968.4	970.5	969.2	970.1	968.9
10.5°	964.2	966.3	968.9	966.0	969.7	967.7
11°	962.8	964.2	967.0	964.5	967.1	966.0
11.5°	960.2	961.8	965.0	963.5	964.8	963.9
12°	958.2	959.0	963.9	962.1	963.2	963.1
12.5°	956.3	957.7	960.7	959.5	961.7	961.4
13°	954.8	955.2	958.1	958.3	959.5	959.6
13.5°	952.4	953.8	956.4	956.6	957.4	957.7
14°	950.8	951.3	955.3	954.9	954.5	955.9
14.5°	949.1	949.5	951.9	952.3	953.0	953.7
15°	946.4	946.4	949.2	949.0	951.9	952.2
15.5°	942.3	944.9	947.3	945.7	950.1	949.1
16°	939.7	942.7	944.7	944.3	946.8	947.4
16.5°	937.1	939.4	942.3	941.7	945.1	944.3
17°	935.1	935.5	939.5	938.0	942.2	940.7
17.5°	932.1	933.4	938.0	935.2	939.5	938.7
18°	928.9	931.4	935.1	934.0	936.7	936.7
18.5°	926.1	928.8	931.3	931.4	932.9	933.4
19°	922.8	925.3	927.4	927.5	929.3	929.4
19.5°	919.1	922.3	924.3	923.8	926.5	926.4
20°	916.5	919.2	921.7	920.6	923.2	923.4
20.5°	914.5	916.5	917.6	917.9	920.4	920.0
21°	911.4	912.3	914.6	915.6	917.5	917.9
21.5°	907.6	907.7	911.2	912.8	915.0	914.6
22°	903.7	904.1	907.6	908.7	912.1	910.0

TEST NUMBER: P869738  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	898.9	901.9	904.0	904.4	907.4	906.3
23°	895.8	898.4	901.2	901.1	903.1	903.2
23.5°	891.7	893.7	897.1	898.6	899.6	899.5
24°	888.2	890.0	894.3	893.6	895.9	896.0
24.5°	885.6	887.1	890.2	890.1	892.3	892.6
25°	881.4	883.2	886.1	887.4	889.6	888.7
25.5°	877.0	880.0	881.6	883.5	886.5	884.6
26°	873.1	874.3	877.8	879.1	881.5	881.2
26.5°	869.0	870.0	874.4	873.9	876.7	877.4
27°	864.1	865.6	870.9	870.2	873.0	872.9
27.5°	859.3	860.5	866.0	866.7	870.3	869.2
28°	855.2	856.1	861.1	863.4	865.8	865.4
28.5°	850.2	853.0	856.4	858.5	861.0	859.2
29°	846.7	848.7	853.1	854.0	855.3	855.6
29.5°	842.4	843.8	848.3	849.3	852.1	850.2
30°	838.5	839.1	843.2	843.9	848.0	847.6
30.5°	832.3	835.6	837.6	838.4	842.8	842.4
31°	827.4	828.9	833.5	834.6	837.7	836.8
31.5°	822.4	824.4	829.4	829.1	833.6	832.1
32°	818.6	819.9	824.8	824.5	829.4	827.4
32.5°	814.3	815.6	819.5	820.1	825.1	822.6
33°	808.9	810.6	815.0	816.4	819.6	818.0
33.5°	802.2	805.3	809.7	811.0	814.7	812.8
34°	797.6	800.0	804.0	805.1	809.0	807.0
34.5°	791.8	795.0	798.9	800.0	803.8	801.7
35°	786.8	789.7	793.7	795.3	798.8	798.3
35.5°	782.2	783.6	788.9	790.2	793.1	793.1
36°	776.8	777.6	783.1	784.8	787.4	786.8
36.5°	771.5	772.1	777.6	778.0	782.1	781.3
37°	765.8	766.5	772.8	772.8	776.4	776.8
37.5°	759.4	761.7	767.0	766.8	771.8	771.5
38°	753.4	755.8	761.5	761.8	766.4	765.6
38.5°	747.7	750.3	755.3	756.5	760.9	758.9
39°	741.7	745.2	750.1	750.8	753.7	753.6
39.5°	736.2	740.0	744.2	744.4	748.2	747.7
40°	730.0	733.5	738.4	739.7	742.0	742.9
40.5°	725.0	727.1	732.2	734.0	736.4	737.3
41°	719.4	721.6	726.0	728.0	729.9	731.1
41.5°	712.7	716.0	720.0	721.6	724.3	725.1
42°	706.7	709.4	714.4	715.0	719.2	718.7
42.5°	699.5	702.3	707.9	708.6	713.0	712.6
43°	693.0	696.7	700.7	703.0	707.1	706.4
43.5°	686.3	689.7	693.8	697.2	700.3	699.9
44°	680.5	682.7	687.3	690.2	693.9	693.7
44.5°	674.0	677.4	682.2	682.8	687.5	687.4

TEST NUMBER: P869738  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	667.5	671.5	676.1	676.3	680.3	680.9
45.5°	660.5	665.1	669.3	670.1	673.5	674.9
46°	654.1	658.2	663.0	663.8	667.3	667.9
46.5°	647.4	651.2	656.3	658.2	660.6	660.6
47°	640.6	644.6	649.7	651.2	654.0	654.3
47.5°	633.7	638.2	642.9	644.3	647.0	647.8
48°	627.1	631.2	636.1	637.5	640.7	641.2
48.5°	620.2	623.5	629.0	630.8	634.0	633.6
49°	613.0	616.5	621.5	623.7	627.0	626.9
49.5°	606.2	609.7	614.1	616.9	620.2	620.0
50°	599.1	601.8	606.8	610.4	613.0	613.6
50.5°	591.8	595.0	599.7	603.4	605.5	605.9
51°	585.0	588.6	593.3	595.6	598.7	598.5
51.5°	578.0	580.8	586.4	588.1	592.1	591.8
52°	570.9	573.3	579.4	580.7	585.2	585.2
52.5°	563.3	566.6	572.2	574.4	577.8	578.0
53°	555.9	559.5	565.0	567.4	571.1	570.6
53.5°	549.1	552.1	557.3	558.8	563.4	562.7
54°	541.2	544.5	549.9	551.4	555.9	555.9
54.5°	533.8	536.6	542.4	544.7	547.7	548.9
55°	526.4	529.2	534.6	537.0	540.8	540.7
55.5°	519.0	521.5	526.9	529.8	533.6	532.8
56°	511.3	513.9	519.5	522.1	525.9	525.9
56.5°	503.5	506.1	511.8	513.9	518.5	517.9
57°	495.3	498.1	503.8	506.2	510.5	510.0
57.5°	487.2	490.1	495.9	497.5	502.2	502.4
58°	479.7	482.3	487.8	490.4	494.8	494.8
58.5°	472.3	474.3	479.3	483.1	486.7	486.7
59°	464.5	466.6	471.5	475.3	478.9	478.9
59.5°	456.0	458.6	463.3	467.2	470.9	471.3
60°	448.5	450.1	455.9	458.9	463.1	463.1
60.5°	439.4	441.9	447.3	450.8	455.1	455.2
61°	431.3	433.6	439.4	442.4	446.6	447.2
61.5°	423.4	426.1	431.8	434.1	438.2	438.3
62°	415.1	418.0	423.7	426.0	430.2	430.7
62.5°	407.0	409.7	415.6	418.1	422.0	422.3
63°	398.5	400.9	406.9	409.3	414.2	414.3
63.5°	390.4	392.7	398.8	401.3	405.5	406.6
64°	382.1	384.8	390.4	392.8	396.4	397.6
64.5°	373.6	376.7	382.3	385.0	388.1	389.5
65°	365.2	368.0	373.2	376.7	379.9	381.4
65.5°	357.2	359.5	364.8	367.8	371.4	372.9
66°	348.6	350.4	356.3	359.4	362.9	363.6
66.5°	339.9	342.4	347.8	351.3	354.5	354.8
67°	331.1	333.8	339.1	342.8	346.4	346.8

TEST NUMBER: P869738  
 CATALOG NUMBER: SMX18SLSFS010-2500LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	322.7	324.9	329.9	333.4	337.6	337.9
68°	313.9	316.0	321.5	325.2	329.0	329.2
68.5°	305.6	307.6	313.0	316.6	319.8	320.5
69°	297.4	299.2	303.9	307.6	311.2	312.0
69.5°	288.5	290.6	295.2	298.9	302.5	303.5
70°	279.6	281.7	286.4	290.6	293.8	294.2
70.5°	270.9	272.5	278.0	281.7	285.3	285.5
71°	261.9	263.7	269.2	272.6	276.5	276.8
71.5°	253.0	255.1	260.1	264.2	267.8	268.3
72°	244.1	246.5	251.6	255.3	258.6	259.6
72.5°	235.9	237.4	242.8	246.2	249.7	250.9
73°	227.0	228.2	233.8	237.3	240.9	242.0
73.5°	218.4	219.9	225.5	228.6	232.1	232.9
74°	209.7	210.9	216.3	219.6	223.4	224.1
74.5°	201.2	202.2	207.5	211.2	214.4	215.3
75°	192.1	193.3	198.6	202.5	205.4	206.3
75.5°	183.6	184.8	190.1	193.6	196.7	197.7
76°	175.0	176.1	181.2	184.8	188.0	189.1
76.5°	166.3	167.6	172.7	176.3	179.3	180.3
77°	157.5	158.7	164.0	167.5	170.8	172.0
77.5°	149.0	150.5	155.4	159.3	162.6	163.5
78°	140.7	142.1	147.1	150.8	153.9	154.7
78.5°	132.3	133.8	139.0	142.6	145.5	146.2
79°	124.2	125.6	130.5	134.0	136.9	138.0
79.5°	115.8	117.4	122.1	125.8	128.8	129.7
80°	107.9	109.2	113.8	117.3	120.5	121.3
80.5°	100.3	101.4	106.2	109.4	112.4	113.3
81°	92.7	93.7	98.3	101.7	104.5	105.2
81.5°	85.0	85.8	90.5	93.8	96.5	97.3
82°	77.4	78.1	82.7	86.0	88.7	89.5
82.5°	70.2	70.9	75.1	78.2	81.1	81.6
83°	63.4	63.8	67.6	70.7	73.6	74.0
83.5°	56.3	56.8	60.6	63.6	66.4	67.0
84°	49.6	50.1	54.0	56.7	59.2	60.0
84.5°	43.2	43.8	47.3	50.1	52.6	53.2
85°	37.2	37.9	41.2	43.9	45.9	46.6
85.5°	31.3	32.0	35.3	37.9	39.8	40.3
86°	26.1	27.0	29.6	32.1	34.2	34.6
86.5°	21.4	22.2	24.8	27.0	28.7	29.1
87°	17.4	17.8	20.2	22.1	23.7	24.3
87.5°	13.6	13.9	16.1	17.7	19.2	19.7
88°	10.2	10.0	12.0	13.9	15.1	15.4
88.5°	7.0	6.8	8.2	9.9	11.1	11.5
89°	4.4	4.5	5.6	6.8	7.7	8.2
89.5°	2.1	2.5	3.4	4.3	5.4	5.7

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869738  
CATALOG NUMBER: SMX18SLSFS010-2500LM-3500K

**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)