

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: P869739

Luminaire Tested: **SMX18SLSFS010-2500LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869739
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFS010-2500LM-4000K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

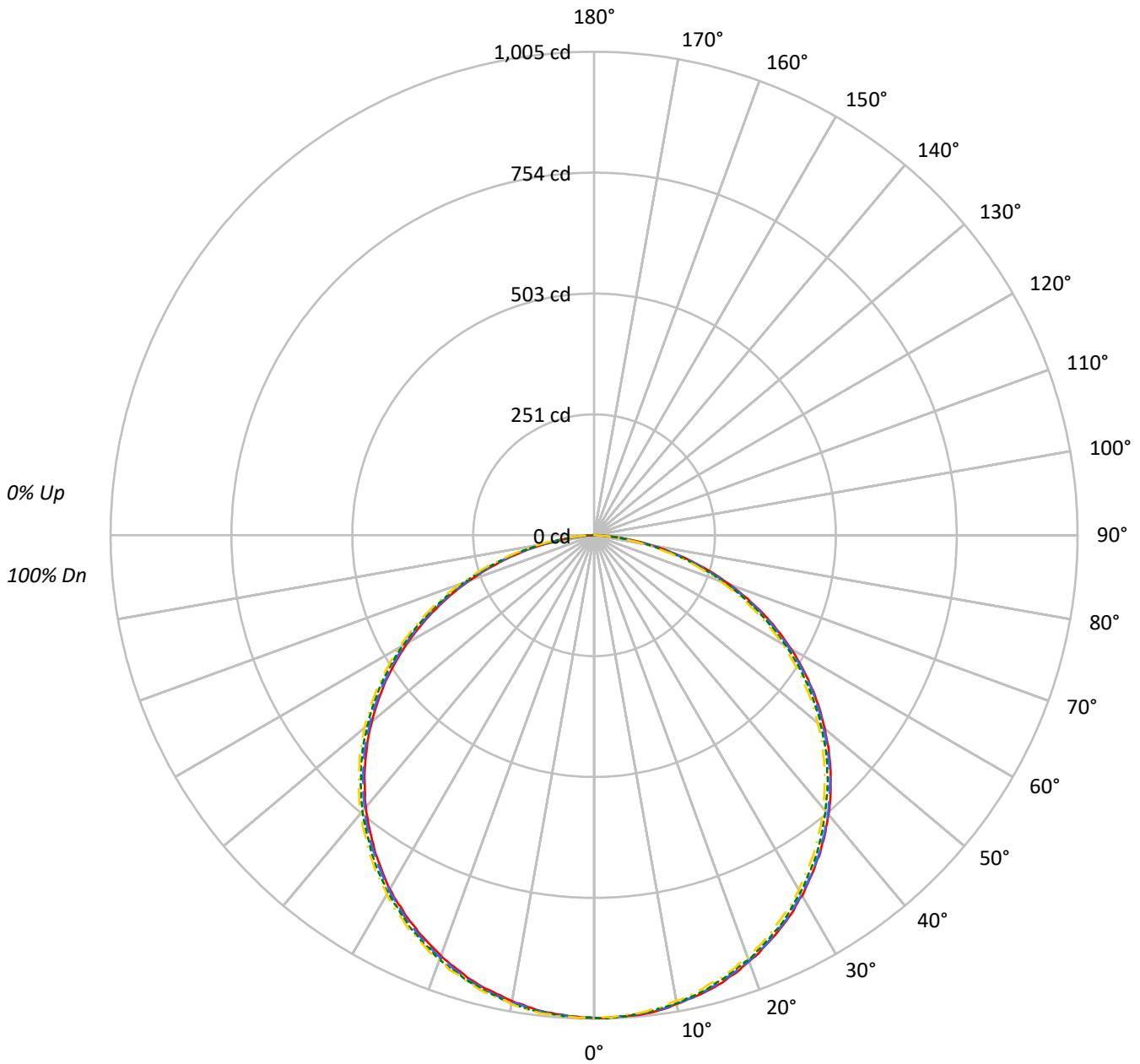
Lumens per Lamp: N/A
 Luminaire Lumens: 2930.0 lumens
 Efficiency: N/A
 Efficacy: 97.7 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4802	4802	4802	4802
5°	4811	4800	4788	4799
10°	4805	4800	4775	4803
15°	4815	4782	4759	4785
20°	4799	4782	4738	4777
25°	4789	4764	4710	4759
30°	4780	4736	4691	4732
35°	4760	4713	4653	4708
40°	4736	4674	4610	4676
45°	4703	4635	4555	4638
50°	4662	4583	4489	4573
55°	4604	4519	4409	4506
60°	4524	4415	4285	4396
65°	4407	4269	4109	4253
70°	4202	4041	3847	4023
75°	3893	3693	3444	3649
80°	3413	3127	2802	3072
85°	2613	2201	1729	2124

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	3.2
10°-20°	272.8	9.3
20°-30°	415.4	14.2
30°-40°	504.3	17.2
40°-50°	528.2	18.0
50°-60°	482.9	16.5
60°-70°	371.7	12.7
70°-80°	210.1	7.2
80°-90°	49.5	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
0°-30°	783.2	26.7
0°-40°	1287.5	43.9
0°-60°	2298.6	78.5
0°-90°	2930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2930.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1004	1004	1004	1004	1004	
5°	1002	1000	997	999	1002	95
15°	972	966	961	966	972	274
25°	907	903	892	902	907	418
35°	815	807	797	806	815	509
45°	695	685	673	686	695	536
55°	552	542	529	540	552	493
65°	389	377	363	376	389	384
75°	211	200	186	197	211	223
85°	48	40	32	39	48	58
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°	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7
0.5°	1003.5	1003.2	1003.8	1003.0	1004.0	1004.8	1003.0	1003.7	1003.0	1003.5	1002.5
1°	1004.3	1002.6	1003.9	1003.6	1003.5	1003.9	1002.3	1002.9	1002.4	1003.1	1003.7
1.5°	1003.4	1003.4	1002.9	1003.6	1004.7	1003.7	1001.6	1002.7	1002.7	1002.3	1003.4
2°	1002.8	1002.2	1002.6	1003.4	1004.3	1003.3	1002.9	1001.6	1001.4	1001.5	1001.5
2.5°	1002.7	1003.1	1002.3	1003.4	1003.5	1003.3	1001.8	1001.5	1001.0	1001.0	1001.1
3°	1001.2	1003.3	1002.0	1002.4	1002.6	1002.4	1000.4	1002.1	1000.8	1000.0	1001.4
3.5°	1001.9	1003.5	1001.7	1002.3	1002.8	1001.5	1000.4	1001.4	999.7	999.8	999.8
4°	1001.6	1002.4	1001.4	1002.5	1002.2	1000.8	998.4	1000.4	998.8	1000.2	998.8
4.5°	1001.5	1002.3	1000.0	1002.2	1001.0	1000.6	998.4	998.5	998.8	999.2	998.6
5°	1001.9	1001.4	1000.0	1000.6	999.6	1000.2	997.6	998.0	997.1	996.7	999.4
5.5°	1001.1	1000.6	999.2	998.9	998.8	998.9	997.2	996.4	996.8	995.6	998.0
6°	1000.6	1000.6	998.5	999.1	998.8	996.8	996.4	996.1	996.0	994.7	996.1
6.5°	999.7	1000.2	997.7	997.4	997.6	997.2	994.9	994.7	994.6	993.9	995.3
7°	999.1	999.4	996.7	996.9	996.4	995.8	992.1	992.9	993.3	992.2	995.2
7.5°	997.4	997.1	995.3	995.0	993.9	995.0	992.0	991.8	991.3	991.0	993.3
8°	996.2	995.0	994.7	994.7	992.3	993.8	991.2	990.1	990.3	989.8	990.4
8.5°	995.1	993.7	994.3	992.2	991.7	992.4	989.6	989.1	987.3	988.8	989.4
9°	993.7	992.0	992.6	991.6	990.4	991.1	987.1	987.8	986.1	986.7	987.8
9.5°	991.3	991.4	990.4	989.4	989.4	989.7	984.6	985.3	985.8	985.4	987.4
10°	989.2	989.3	988.5	988.7	988.1	987.8	983.3	983.4	983.0	984.7	985.7
10.5°	987.9	987.9	987.8	986.1	986.3	985.1	982.1	981.6	981.0	982.4	983.6
11°	986.2	986.2	986.3	985.3	984.2	983.6	980.0	981.0	979.0	979.5	981.4
11.5°	984.0	985.3	983.7	982.5	980.9	982.2	978.1	978.4	976.0	978.3	979.5
12°	983.2	982.7	982.5	980.5	980.0	980.6	975.2	977.5	974.6	975.6	978.4
12.5°	981.5	980.7	981.7	978.7	978.6	978.6	973.1	975.4	972.0	973.6	975.9
13°	979.6	980.3	979.1	976.4	976.4	976.3	971.6	972.5	970.1	972.0	972.7
13.5°	977.7	978.4	975.9	974.5	974.3	973.7	968.9	970.8	969.2	970.0	969.8
14°	975.9	976.3	973.6	973.2	972.2	969.5	965.4	968.1	966.7	968.3	968.5
14.5°	973.6	973.2	970.9	969.9	969.5	968.1	962.9	965.0	963.8	965.2	966.1
15°	972.1	970.5	969.0	968.6	965.6	966.2	961.2	962.7	960.9	961.5	964.4
15.5°	968.9	968.4	966.7	965.4	963.5	963.4	959.4	959.7	958.9	958.9	962.0
16°	967.2	965.6	963.7	963.3	961.8	961.2	956.6	957.0	956.3	957.1	959.4
16.5°	964.1	963.0	961.1	960.0	958.5	958.7	953.7	954.5	952.1	954.5	956.4
17°	960.4	959.7	958.2	958.4	955.6	955.8	951.0	952.2	948.8	950.7	952.4
17.5°	958.4	957.3	955.9	954.2	952.0	952.8	948.4	949.3	946.1	947.4	949.8
18°	956.3	954.9	953.0	951.4	950.0	949.3	945.9	945.7	943.0	944.4	947.1
18.5°	952.9	952.1	950.3	948.2	946.3	946.6	941.3	941.8	940.6	941.4	942.9
19°	948.8	949.6	947.1	945.3	944.3	943.3	938.3	938.7	936.9	938.3	938.9
19.5°	945.8	947.0	944.8	942.2	940.9	940.3	935.6	935.2	934.1	935.1	936.5
20°	942.7	942.9	942.0	939.9	939.3	937.5	932.3	931.8	930.7	931.6	934.2
20.5°	939.2	939.1	937.5	935.9	935.6	933.8	929.4	928.6	926.3	928.2	931.8
21°	937.1	935.5	934.4	932.9	931.6	930.3	926.1	924.9	923.0	925.8	927.5
21.5°	933.7	932.9	931.6	930.6	927.9	926.7	922.4	921.0	919.3	922.5	923.3
22°	929.1	929.0	928.2	927.2	924.7	922.3	919.6	919.2	915.6	917.8	920.1

TEST NUMBER: P869739
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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°	925.3	925.3	925.4	923.0	920.5	918.4	915.8	914.9	912.0	913.9	915.9
23°	922.1	921.6	921.4	918.8	916.8	916.1	911.5	911.7	908.4	910.8	912.6
23.5°	918.3	918.7	916.9	915.0	913.6	912.2	907.5	908.1	905.2	907.8	908.7
24°	914.7	915.3	913.0	912.3	909.2	908.1	903.9	903.2	901.3	902.9	905.0
24.5°	911.3	911.0	909.1	907.8	905.5	904.2	898.4	898.5	896.1	897.8	900.7
25°	907.3	906.2	905.5	903.6	902.6	900.1	894.5	895.4	892.3	894.0	896.2
25.5°	903.1	902.6	901.2	899.2	898.3	896.2	891.3	891.9	889.1	890.1	892.2
26°	899.6	899.0	897.2	895.3	895.0	892.1	886.9	887.5	884.8	886.5	889.5
26.5°	895.7	895.4	894.0	891.0	889.8	887.2	882.5	883.3	880.9	881.7	884.5
27°	891.2	891.1	889.9	887.1	886.0	882.4	878.7	878.9	875.6	876.9	879.4
27.5°	887.4	887.7	884.6	883.4	881.1	877.7	874.5	874.4	870.8	872.8	874.7
28°	883.5	881.8	880.4	879.4	875.2	873.5	870.0	869.0	867.3	869.8	870.5
28.5°	877.2	877.4	875.9	874.9	870.3	868.4	865.3	864.7	863.0	865.1	865.3
29°	873.5	873.4	871.1	870.1	866.5	864.9	860.8	860.2	859.0	860.6	861.3
29.5°	868.0	869.7	867.4	865.5	861.7	860.6	856.3	855.2	853.3	855.6	856.7
30°	865.3	864.8	862.2	860.2	857.3	854.6	851.2	850.1	849.2	850.1	851.8
30.5°	860.0	859.4	857.3	854.7	853.2	849.7	845.5	845.4	844.5	844.8	846.1
31°	854.3	853.8	852.6	850.3	847.7	844.5	840.6	839.9	839.4	840.1	842.2
31.5°	849.5	848.5	848.3	845.3	842.7	839.5	834.9	834.3	833.8	834.4	836.6
32°	844.7	844.3	842.5	841.0	837.3	835.6	830.0	830.0	828.5	829.4	831.6
32.5°	839.8	839.5	838.5	835.3	831.9	831.2	825.1	823.9	822.6	824.6	825.9
33°	835.1	834.7	834.1	830.8	827.7	825.8	820.2	818.8	817.5	819.3	821.5
33.5°	829.8	829.6	828.8	825.1	822.1	820.6	814.7	814.9	812.4	813.9	815.2
34°	823.8	825.2	823.3	820.0	817.9	814.6	810.0	810.0	806.9	808.9	810.2
34.5°	818.5	820.0	818.5	814.2	812.4	809.6	805.3	804.0	802.4	803.0	805.1
35°	815.0	814.5	813.3	808.5	807.0	804.3	799.1	798.1	796.7	797.9	800.2
35.5°	809.7	809.0	808.0	804.3	801.4	798.2	792.9	791.9	789.8	793.3	794.3
36°	803.3	803.1	802.4	799.0	795.9	791.6	787.6	787.9	784.4	787.7	789.6
36.5°	797.6	797.9	795.6	793.9	789.5	786.2	781.4	781.5	778.7	781.4	782.9
37°	793.0	792.9	790.2	787.5	783.8	780.7	775.7	776.4	772.7	774.9	776.8
37.5°	787.6	786.4	785.4	781.5	778.7	774.6	770.6	769.7	767.2	769.2	771.5
38°	781.6	780.9	779.2	776.7	772.6	768.9	765.5	762.9	761.9	764.1	766.2
38.5°	774.8	775.4	773.2	769.9	765.9	763.0	759.5	757.2	755.7	759.0	760.8
39°	769.4	769.0	768.2	764.1	759.7	758.0	753.0	751.8	749.7	753.1	754.6
39.5°	763.3	762.9	762.5	757.6	754.2	752.0	747.0	745.5	744.3	745.7	747.9
40°	758.4	756.8	756.7	751.7	748.5	745.5	741.4	739.6	738.2	739.8	741.5
40.5°	752.7	751.4	750.5	745.5	741.8	739.0	734.6	734.0	731.8	733.3	735.6
41°	746.4	745.5	743.7	740.6	736.1	732.7	727.8	727.2	725.9	726.4	729.5
41.5°	740.3	739.4	737.4	734.5	729.8	727.3	721.9	720.2	718.3	720.5	723.1
42°	733.7	732.5	731.3	728.0	723.9	720.0	715.5	714.4	712.0	714.2	716.7
42.5°	727.5	727.0	724.3	722.3	717.7	713.9	709.0	707.6	705.4	708.4	711.3
43°	721.1	721.3	717.9	715.1	711.3	708.7	702.5	701.7	699.4	701.3	703.9
43.5°	714.5	714.8	712.6	708.2	705.6	702.1	696.4	694.4	693.4	695.4	697.7
44°	708.2	707.7	706.0	701.7	698.9	694.6	689.9	688.1	687.1	689.1	691.0
44.5°	701.8	701.5	699.1	695.0	691.0	687.8	683.8	681.5	680.1	683.1	684.7

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 CATALOG NUMBER: SMX18SLSFS010-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	695.1	694.0	692.3	688.7	685.1	681.3	676.8	675.2	673.3	675.5	678.1
45.5°	689.0	688.1	685.3	683.2	679.0	675.5	670.5	668.2	666.2	669.2	671.3
46°	681.8	681.9	678.8	675.9	672.4	668.7	662.4	661.2	659.0	662.4	665.1
46.5°	674.5	674.1	672.2	668.2	665.8	661.9	656.0	654.3	652.2	655.7	658.2
47°	668.0	667.3	664.8	661.9	659.1	654.9	648.9	647.4	645.6	648.7	651.6
47.5°	661.4	660.4	657.7	654.5	651.7	647.7	641.9	640.5	639.1	641.0	644.2
48°	654.6	654.2	650.5	647.9	644.4	641.0	635.7	634.0	632.0	634.0	636.6
48.5°	646.8	646.8	644.2	641.0	636.7	633.5	628.3	627.2	625.2	626.5	630.3
49°	640.0	640.1	637.4	633.9	629.9	626.1	621.6	620.0	617.7	619.8	622.6
49.5°	633.0	633.3	630.1	626.8	622.6	618.6	614.0	612.6	610.5	613.1	614.7
50°	626.4	626.0	622.4	619.3	615.8	612.0	606.4	605.9	603.2	606.2	608.0
50.5°	618.6	618.6	615.4	611.8	609.2	605.6	599.6	598.5	595.6	598.3	601.1
51°	611.0	611.1	607.9	604.8	602.1	597.6	591.7	590.5	588.4	590.3	593.6
51.5°	604.1	603.9	601.2	597.5	595.0	589.9	585.4	582.8	580.9	583.2	586.0
52°	597.5	596.0	593.9	590.3	586.6	583.4	578.2	576.2	573.3	576.0	578.5
52.5°	590.1	589.0	586.4	582.9	578.5	575.7	571.0	568.8	566.2	567.9	571.0
53°	582.5	581.9	578.7	575.3	571.3	567.2	563.0	560.9	558.4	561.5	563.7
53.5°	574.4	574.1	571.4	568.4	564.1	559.7	555.7	552.4	551.1	554.0	556.0
54°	567.5	567.2	564.5	560.1	556.2	552.8	547.5	545.2	543.1	545.6	548.8
54.5°	560.4	559.5	556.8	552.2	549.6	545.6	538.8	537.1	536.3	537.5	541.0
55°	552.0	551.6	549.7	544.4	541.8	537.7	531.3	530.1	528.6	529.9	532.9
55.5°	543.9	543.3	541.3	537.4	533.7	529.2	524.0	521.7	520.4	522.1	524.6
56°	536.9	535.5	532.9	529.4	525.3	521.1	516.4	514.0	512.7	514.3	517.5
56.5°	528.8	528.3	525.6	521.1	517.6	513.0	508.2	507.0	504.7	507.1	509.7
57°	520.7	520.6	517.2	513.0	509.9	505.5	500.3	498.8	496.2	499.3	502.2
57.5°	512.9	512.6	509.7	505.1	502.3	498.0	491.8	489.9	488.4	490.8	493.9
58°	505.1	503.9	501.8	496.9	494.1	489.5	483.6	481.9	480.4	482.4	485.3
58.5°	496.8	495.6	493.3	489.0	485.6	480.8	475.5	474.0	472.6	474.1	477.2
59°	489.0	488.3	484.9	481.0	477.9	473.1	468.0	465.8	463.9	466.2	468.8
59.5°	481.2	479.9	477.3	473.6	469.9	465.0	459.7	457.9	455.8	458.5	460.6
60°	472.8	471.8	468.6	465.4	461.4	456.8	452.1	449.8	447.8	450.4	453.2
60.5°	464.7	463.3	460.4	457.2	452.3	448.9	443.7	441.6	439.6	441.3	444.9
61°	456.5	454.7	452.0	448.4	444.4	440.5	435.6	432.9	431.4	433.6	436.7
61.5°	447.5	446.4	443.7	439.8	436.1	432.0	427.4	424.1	422.5	425.0	428.2
62°	439.7	438.1	435.4	431.3	427.8	423.6	419.0	416.2	414.1	416.7	419.7
62.5°	431.1	429.8	426.9	423.1	419.1	415.5	410.3	407.7	405.5	408.2	410.9
63°	422.9	421.3	418.4	414.8	411.0	406.9	401.6	399.6	397.3	399.5	402.2
63.5°	415.1	412.6	410.1	405.8	403.0	398.5	393.4	390.8	389.2	390.7	394.4
64°	405.9	404.6	401.6	397.6	394.8	389.9	384.3	382.2	380.5	382.4	386.0
64.5°	397.6	396.1	393.1	388.7	385.6	381.5	375.4	373.5	371.5	373.5	377.2
65°	389.3	387.9	384.6	380.0	377.1	372.8	366.8	364.9	363.0	365.1	368.4
65.5°	380.7	379.1	376.2	371.1	368.6	363.8	358.0	356.4	354.6	356.6	359.9
66°	371.2	370.4	366.9	362.4	359.8	355.1	349.4	347.3	346.1	347.8	351.2
66.5°	362.2	361.4	358.1	354.0	350.9	346.5	340.6	338.8	337.4	338.9	342.0
67°	354.0	352.3	349.3	345.1	342.5	337.7	332.6	329.8	328.7	330.1	333.4

TEST NUMBER: P869739
 CATALOG NUMBER: SMX18SLSFS010-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	345.0	343.5	340.4	335.9	333.6	329.0	323.8	320.7	319.9	321.2	324.3
68°	336.1	334.8	331.5	326.9	324.9	320.1	314.9	312.5	311.0	312.8	315.9
68.5°	327.2	326.0	322.9	318.6	315.9	311.3	305.9	303.8	301.9	303.7	307.3
69°	318.5	317.6	314.1	310.1	307.5	302.2	296.8	294.4	292.9	294.6	298.4
69.5°	309.9	308.7	305.1	300.3	298.1	292.9	287.9	285.2	284.0	285.4	289.7
70°	300.4	299.7	296.0	291.4	288.9	284.3	278.9	276.6	275.0	276.6	280.2
70.5°	291.5	290.8	286.9	282.6	280.3	275.7	270.5	267.9	266.5	268.1	271.6
71°	282.6	281.7	278.5	274.0	271.5	266.9	261.5	259.1	257.7	259.2	262.5
71.5°	273.9	273.0	269.4	264.3	262.3	257.8	252.4	249.8	248.6	250.3	253.5
72°	265.1	263.7	260.1	255.5	253.5	248.6	243.4	240.8	240.0	241.4	244.9
72.5°	256.1	254.3	250.9	246.8	244.6	239.9	234.6	232.3	230.9	232.6	236.0
73°	247.0	245.2	241.9	237.5	235.7	231.2	225.9	223.1	221.6	223.7	227.1
73.5°	237.7	236.3	233.3	228.6	226.5	221.9	217.0	214.1	212.7	215.3	218.1
74°	228.8	227.3	223.8	219.7	217.4	212.9	208.2	205.4	203.9	206.1	209.2
74.5°	219.8	218.3	215.1	210.3	208.8	204.2	199.3	196.7	195.3	197.2	200.1
75°	210.6	209.2	206.1	201.2	199.8	195.0	190.3	187.9	186.3	188.4	191.3
75.5°	201.8	200.6	197.2	192.6	190.9	186.3	181.9	178.8	177.7	180.0	182.7
76°	193.1	191.8	188.5	183.7	182.0	177.4	172.9	169.9	169.0	171.0	173.9
76.5°	184.1	182.8	179.6	174.9	173.4	168.7	164.1	161.7	160.2	162.1	165.0
77°	175.6	173.7	170.9	166.1	164.6	159.8	155.5	152.7	151.6	153.3	156.2
77.5°	166.9	164.9	162.3	157.5	155.7	151.1	146.9	144.1	143.0	144.9	147.8
78°	158.0	156.2	153.5	149.0	147.2	142.7	138.6	135.4	134.5	136.2	139.2
78.5°	149.3	147.6	144.9	140.4	138.8	134.1	129.8	127.3	126.1	127.8	130.6
79°	140.9	139.1	136.2	131.7	130.1	125.4	121.3	118.9	117.6	119.3	122.1
79.5°	132.4	130.7	127.9	123.4	121.7	117.3	113.2	110.9	109.6	111.5	114.0
80°	123.9	121.9	119.4	115.1	113.5	109.3	105.2	102.8	101.7	103.5	106.3
80.5°	115.7	113.8	111.4	107.0	105.7	101.3	97.4	94.9	93.6	95.6	98.5
81°	107.4	105.7	103.5	99.0	97.8	93.5	89.4	87.0	86.0	87.8	90.6
81.5°	99.3	97.9	95.3	91.1	89.8	85.6	81.7	79.4	78.6	80.0	82.7
82°	91.3	90.0	87.1	83.1	82.0	77.9	74.1	71.8	70.9	72.5	75.1
82.5°	83.3	82.3	79.2	75.2	74.4	70.4	67.1	64.6	63.7	65.2	67.8
83°	75.6	74.1	71.7	68.0	67.3	63.4	59.9	57.6	56.8	58.4	60.9
83.5°	68.4	66.7	64.3	61.0	60.1	56.3	52.8	50.8	50.1	51.4	53.7
84°	61.2	59.8	57.3	54.2	53.2	49.6	46.2	44.1	43.3	44.8	47.2
84.5°	54.4	53.0	50.8	47.5	46.6	43.1	39.9	37.9	37.4	38.7	40.7
85°	47.6	46.4	44.2	41.1	40.1	37.0	33.9	31.9	31.5	32.7	34.8
85.5°	41.2	40.0	38.1	35.1	34.1	30.9	28.1	26.6	26.2	27.1	29.1
86°	35.3	34.2	32.4	29.6	28.6	25.6	23.1	21.5	21.2	22.1	24.0
86.5°	29.7	28.9	27.2	24.7	23.4	21.0	18.8	17.5	17.1	18.3	19.6
87°	24.8	24.0	22.3	20.0	19.1	16.9	14.8	13.6	13.4	14.2	15.8
87.5°	20.1	19.3	17.9	15.8	15.0	13.0	11.1	9.9	9.9	10.7	12.0
88°	15.8	15.2	13.8	11.8	11.3	9.4	7.8	6.9	6.8	7.5	8.6
88.5°	11.8	11.2	10.1	8.4	8.2	6.3	5.0	4.1	3.9	4.6	5.6
89°	8.4	8.0	7.1	5.7	5.7	4.0	2.7	2.0	1.8	2.3	3.2
89.5°	5.8	5.5	4.7	3.6	3.2	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: P869739
CATALOG NUMBER: SMX18SLSFS010-2500LM-4000K

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: P869739
 CATALOG NUMBER: SMX18SLSFS010-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7
0.5°	1004.5	1002.5	1005.0	1003.1	1003.0	1003.5
1°	1003.6	1002.3	1005.4	1003.4	1002.8	1004.3
1.5°	1003.3	1003.4	1004.6	1003.4	1003.1	1003.4
2°	1002.7	1003.2	1003.5	1003.4	1004.5	1002.8
2.5°	1002.1	1001.7	1004.6	1002.7	1002.8	1002.7
3°	1003.1	1000.9	1004.5	1002.0	1003.7	1001.2
3.5°	1002.3	1002.0	1003.3	1001.5	1002.9	1001.9
4°	1002.0	1001.0	1003.2	1001.8	1001.7	1001.6
4.5°	1001.9	1000.0	1002.6	1001.2	1001.5	1001.5
5°	1001.1	999.3	1002.8	1000.4	1000.8	1001.9
5.5°	998.8	998.4	1002.4	1000.0	1001.4	1001.1
6°	997.6	998.0	1002.5	999.7	999.7	1000.6
6.5°	996.5	998.3	1001.2	999.6	999.3	999.7
7°	996.0	995.9	1000.2	997.9	998.9	999.1
7.5°	994.8	995.7	999.0	997.3	998.7	997.4
8°	993.4	994.6	996.5	996.4	997.3	996.2
8.5°	991.7	992.5	995.2	994.9	994.6	995.1
9°	990.4	991.4	994.9	992.5	994.4	993.7
9.5°	987.9	990.2	993.2	991.3	992.3	991.3
10°	986.6	988.7	990.8	989.5	990.4	989.2
10.5°	984.4	986.5	989.2	986.2	990.0	987.9
11°	982.9	984.4	987.2	984.7	987.3	986.2
11.5°	980.3	981.9	985.2	983.6	985.0	984.0
12°	978.2	979.0	984.0	982.2	983.3	983.2
12.5°	976.3	977.7	980.8	979.5	981.8	981.5
13°	974.7	975.1	978.1	978.3	979.5	979.6
13.5°	972.3	973.7	976.4	976.6	977.4	977.7
14°	970.6	971.1	975.2	974.8	974.4	975.9
14.5°	968.9	969.3	971.8	972.2	972.9	973.6
15°	966.2	966.2	969.0	968.8	971.8	972.1
15.5°	962.0	964.7	967.1	965.5	969.9	968.9
16°	959.4	962.4	964.5	964.1	966.6	967.2
16.5°	956.7	959.1	962.0	961.4	964.9	964.1
17°	954.7	955.1	959.2	957.6	961.9	960.4
17.5°	951.6	952.9	957.6	954.8	959.2	958.4
18°	948.3	950.9	954.7	953.5	956.3	956.3
18.5°	945.5	948.2	950.8	950.9	952.4	952.9
19°	942.1	944.6	946.8	946.9	948.7	948.8
19.5°	938.3	941.6	943.6	943.1	945.9	945.8
20°	935.6	938.4	940.9	939.8	942.5	942.7
20.5°	933.6	935.6	936.8	937.1	939.6	939.2
21°	930.4	931.3	933.7	934.7	936.6	937.1
21.5°	926.6	926.7	930.3	931.8	934.1	933.7
22°	922.6	923.0	926.6	927.7	931.1	929.1

TEST NUMBER: P869739
 CATALOG NUMBER: SMX18SLSFS010-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	917.7	920.8	922.9	923.3	926.4	925.3
23°	914.5	917.2	920.1	920.0	922.0	922.1
23.5°	910.3	912.4	915.9	917.4	918.4	918.3
24°	906.8	908.6	913.0	912.3	914.6	914.7
24.5°	904.1	905.6	908.8	908.7	911.0	911.3
25°	899.8	901.6	904.6	905.9	908.2	907.3
25.5°	895.3	898.4	900.0	901.9	905.0	903.1
26°	891.4	892.6	896.1	897.4	899.9	899.6
26.5°	887.2	888.2	892.7	892.2	895.0	895.7
27°	882.2	883.7	889.1	888.4	891.3	891.2
27.5°	877.3	878.5	884.1	884.8	888.5	887.4
28°	873.1	874.0	879.1	881.5	883.9	883.5
28.5°	868.0	870.8	874.3	876.5	879.0	877.2
29°	864.4	866.4	870.9	871.8	873.2	873.5
29.5°	860.0	861.4	866.0	867.0	869.9	868.0
30°	856.1	856.7	860.8	861.5	865.7	865.3
30.5°	849.7	853.1	855.2	856.0	860.4	860.0
31°	844.7	846.2	851.0	852.1	855.3	854.3
31.5°	839.6	841.6	846.8	846.5	851.1	849.5
32°	835.7	837.0	842.1	841.7	846.8	844.7
32.5°	831.3	832.6	836.6	837.2	842.4	839.8
33°	825.8	827.5	832.0	833.5	836.7	835.1
33.5°	819.0	822.1	826.6	827.9	831.7	829.8
34°	814.3	816.8	820.9	821.9	825.9	823.8
34.5°	808.4	811.6	815.6	816.8	820.7	818.5
35°	803.3	806.2	810.3	812.0	815.5	815.0
35.5°	798.5	800.0	805.4	806.7	809.7	809.7
36°	793.0	793.8	799.5	801.2	803.9	803.3
36.5°	787.6	788.2	793.8	794.2	798.4	797.6
37°	781.9	782.6	788.9	788.9	792.6	793.0
37.5°	775.3	777.7	783.1	782.9	787.9	787.6
38°	769.2	771.6	777.5	777.8	782.5	781.6
38.5°	763.3	766.0	771.1	772.3	776.8	774.8
39°	757.2	760.8	765.8	766.5	769.5	769.4
39.5°	751.6	755.4	759.7	759.9	763.8	763.3
40°	745.3	748.8	753.8	755.1	757.5	758.4
40.5°	740.2	742.3	747.6	749.3	751.8	752.7
41°	734.5	736.7	741.2	743.3	745.2	746.4
41.5°	727.6	731.0	735.1	736.7	739.5	740.3
42°	721.5	724.2	729.3	729.9	734.2	733.7
42.5°	714.1	716.9	722.7	723.4	727.9	727.5
43°	707.5	711.3	715.3	717.7	721.9	721.1
43.5°	700.7	704.1	708.3	711.7	714.9	714.5
44°	694.7	697.0	701.7	704.7	708.4	708.2
44.5°	688.1	691.6	696.5	697.1	701.9	701.8

TEST NUMBER: P869739
 CATALOG NUMBER: SMX18SLSFS010-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	681.4	685.5	690.2	690.4	694.5	695.1
45.5°	674.4	679.0	683.3	684.1	687.6	689.0
46°	667.8	672.0	676.8	677.6	681.2	681.8
46.5°	660.9	664.8	670.1	672.0	674.5	674.5
47°	654.0	658.1	663.3	664.8	667.7	668.0
47.5°	646.9	651.5	656.3	657.8	660.5	661.4
48°	640.2	644.4	649.4	650.8	654.1	654.6
48.5°	633.2	636.6	642.1	644.0	647.2	646.8
49°	625.8	629.4	634.5	636.8	640.1	640.0
49.5°	618.9	622.5	627.0	629.8	633.2	633.0
50°	611.6	614.4	619.5	623.2	625.8	626.4
50.5°	604.1	607.4	612.2	616.0	618.2	618.6
51°	597.3	601.0	605.7	608.0	611.2	611.0
51.5°	590.1	593.0	598.7	600.4	604.4	604.1
52°	582.8	585.3	591.5	592.9	597.5	597.5
52.5°	575.1	578.4	584.2	586.4	589.9	590.1
53°	567.5	571.2	576.8	579.2	583.0	582.5
53.5°	560.6	563.7	568.9	570.4	575.2	574.4
54°	552.5	555.9	561.4	563.0	567.5	567.5
54.5°	545.0	547.8	553.8	556.1	559.2	560.4
55°	537.4	540.2	545.8	548.2	552.1	552.0
55.5°	529.8	532.4	537.9	540.9	544.7	543.9
56°	522.0	524.7	530.3	533.0	536.9	536.9
56.5°	514.0	516.7	522.5	524.7	529.3	528.8
57°	505.6	508.5	514.3	516.8	521.2	520.7
57.5°	497.3	500.3	506.3	507.9	512.7	512.9
58°	489.8	492.4	498.0	500.6	505.1	505.1
58.5°	482.2	484.2	489.4	493.2	496.8	496.8
59°	474.2	476.4	481.4	485.3	489.0	489.0
59.5°	465.5	468.2	473.0	477.0	480.8	481.2
60°	457.8	459.5	465.4	468.5	472.8	472.8
60.5°	448.6	451.2	456.6	460.2	464.6	464.7
61°	440.3	442.7	448.6	451.7	456.0	456.5
61.5°	432.2	435.0	440.8	443.2	447.4	447.5
62°	423.7	426.7	432.5	434.9	439.2	439.7
62.5°	415.5	418.3	424.3	426.8	430.8	431.1
63°	406.8	409.3	415.4	417.9	422.8	422.9
63.5°	398.6	400.9	407.2	409.7	414.0	415.1
64°	390.1	392.8	398.6	401.0	404.7	405.9
64.5°	381.5	384.5	390.3	393.0	396.2	397.6
65°	372.9	375.7	381.0	384.5	387.8	389.3
65.5°	364.7	367.0	372.4	375.5	379.2	380.7
66°	355.9	357.7	363.7	366.9	370.5	371.2
66.5°	347.0	349.5	355.0	358.6	361.9	362.2
67°	338.0	340.8	346.2	349.9	353.6	354.0

TEST NUMBER: P869739
 CATALOG NUMBER: SMX18SLSFS010-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	329.4	331.7	336.8	340.4	344.7	345.0
68°	320.4	322.6	328.2	332.0	335.9	336.1
68.5°	311.9	314.0	319.5	323.2	326.5	327.2
69°	303.7	305.5	310.2	314.0	317.7	318.5
69.5°	294.5	296.7	301.4	305.2	308.9	309.9
70°	285.4	287.6	292.4	296.7	300.0	300.4
70.5°	276.5	278.2	283.8	287.6	291.3	291.5
71°	267.4	269.3	274.8	278.3	282.3	282.6
71.5°	258.3	260.4	265.6	269.8	273.4	273.9
72°	249.2	251.6	256.9	260.7	264.0	265.1
72.5°	240.8	242.3	247.9	251.3	254.9	256.1
73°	231.8	233.0	238.6	242.2	245.9	247.0
73.5°	223.0	224.5	230.2	233.4	237.0	237.7
74°	214.1	215.3	220.8	224.2	228.1	228.8
74.5°	205.4	206.4	211.8	215.6	218.9	219.8
75°	196.2	197.4	202.7	206.7	209.7	210.6
75.5°	187.5	188.7	194.1	197.7	200.8	201.8
76°	178.6	179.8	185.0	188.7	192.0	193.1
76.5°	169.7	171.1	176.3	180.0	183.1	184.1
77°	160.8	162.1	167.4	171.0	174.3	175.6
77.5°	152.1	153.7	158.7	162.7	166.0	166.9
78°	143.6	145.1	150.2	154.0	157.1	158.0
78.5°	135.0	136.6	141.9	145.6	148.5	149.3
79°	126.8	128.2	133.2	136.8	139.7	140.9
79.5°	118.2	119.9	124.7	128.4	131.5	132.4
80°	110.2	111.5	116.2	119.8	123.1	123.9
80.5°	102.4	103.5	108.4	111.7	114.8	115.7
81°	94.6	95.6	100.3	103.8	106.7	107.4
81.5°	86.8	87.6	92.3	95.7	98.5	99.3
82°	79.0	79.8	84.5	87.8	90.6	91.3
82.5°	71.7	72.4	76.7	79.9	82.8	83.3
83°	64.7	65.1	69.0	72.2	75.1	75.6
83.5°	57.4	57.9	61.8	64.9	67.8	68.4
84°	50.7	51.2	55.1	57.8	60.4	61.2
84.5°	44.1	44.7	48.3	51.2	53.7	54.4
85°	38.0	38.7	42.1	44.8	46.9	47.6
85.5°	31.9	32.7	36.0	38.7	40.6	41.2
86°	26.6	27.5	30.2	32.8	34.9	35.3
86.5°	21.8	22.6	25.3	27.5	29.3	29.7
87°	17.8	18.2	20.6	22.5	24.2	24.8
87.5°	13.9	14.2	16.5	18.1	19.6	20.1
88°	10.4	10.2	12.3	14.2	15.5	15.8
88.5°	7.2	7.0	8.4	10.1	11.4	11.8
89°	4.5	4.6	5.7	7.0	7.9	8.4
89.5°	2.1	2.6	3.5	4.4	5.5	5.8

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869739
CATALOG NUMBER: SMX18SLSFS010-2500LM-4000K

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)