

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: P869709

Luminaire Tested: **SMX18RLSFS010-2500LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869709
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS010-2500LM-4000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

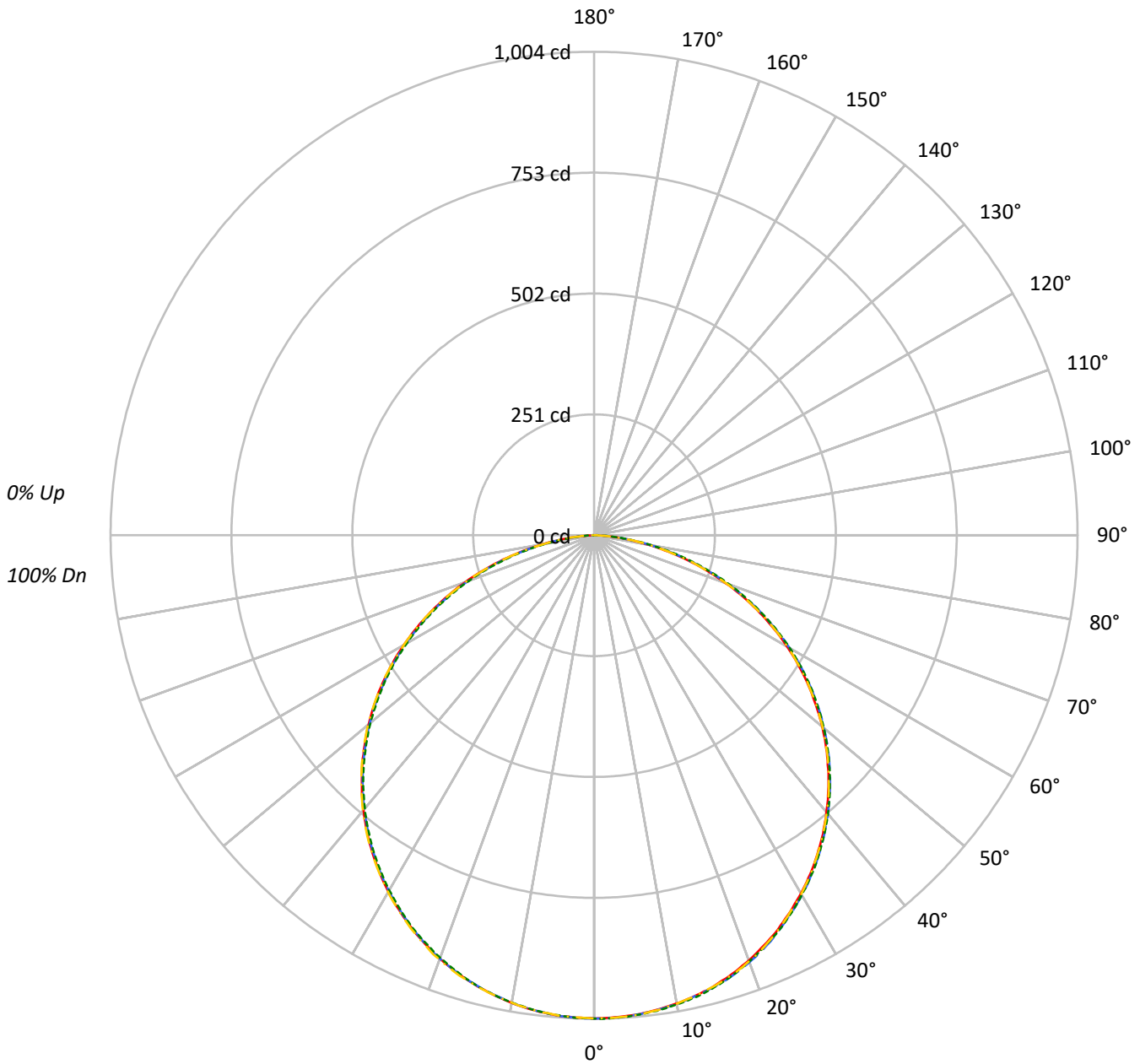
Lumens per Lamp: N/A
 Luminaire Lumens: 2930.0 lumens
 Efficiency: N/A
 Efficacy: 99.7 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 29.4
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20										
RC	80					70					50					30					10					0					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR																															
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100													
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84													
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69													
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58													
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50													
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43													
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37													
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33													
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29													
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26													
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6114	6114	6114	6114
5°	6113	6116	6108	6109
10°	6107	6121	6100	6095
15°	6104	6121	6083	6083
20°	6090	6106	6066	6052
25°	6071	6089	6039	6027
30°	6042	6067	6009	5987
35°	6010	6039	5973	5943
40°	5968	6005	5925	5890
45°	5923	5962	5866	5825
50°	5859	5903	5794	5740
55°	5764	5827	5695	5629
60°	5642	5716	5562	5473
65°	5462	5558	5364	5259
70°	5181	5316	5067	4922
75°	4745	4933	4601	4410
80°	4051	4311	3848	3588
85°	2921	3341	2593	2257

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	3.2
10°-20°	273.0	9.3
20°-30°	415.6	14.2
30°-40°	504.7	17.2
40°-50°	528.3	18.0
50°-60°	482.6	16.5
60°-70°	371.2	12.7
70°-80°	210.0	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°	783.7	26.7
0°-40°	1288.4	44.0
0°-60°	2299.3	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°	1000	1000	999	999	1000	95
15°	968	971	965	965	968	273
25°	903	906	899	897	903	416
35°	808	812	803	799	808	506
45°	688	692	681	676	688	530
55°	543	549	536	530	543	485
65°	379	386	372	365	379	374
75°	202	210	196	187	202	213
85°	42	48	37	32	42	52
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°	1003.8	1003.8	1003.8	1003.8	1003.8	1003.8	1003.8	1003.8	1003.8	1003.8	1003.8
0.5°	1003.0	1003.7	1003.6	1003.7	1004.3	1005.0	1003.7	1004.0	1002.8	1003.6	1003.8
1°	1003.0	1003.8	1003.5	1004.0	1004.5	1004.6	1003.0	1003.5	1003.0	1003.4	1003.5
1.5°	1003.0	1004.2	1003.4	1003.4	1004.1	1004.1	1003.5	1003.1	1002.5	1003.4	1003.3
2°	1002.7	1003.7	1003.2	1003.0	1003.7	1004.1	1003.3	1002.9	1002.3	1002.8	1002.4
2.5°	1002.0	1003.5	1003.0	1002.9	1003.7	1003.6	1002.8	1002.0	1002.2	1002.7	1002.4
3°	1001.4	1003.0	1003.0	1002.2	1003.0	1002.5	1002.3	1001.6	1001.2	1002.9	1001.6
3.5°	1001.0	1002.2	1002.5	1002.2	1002.3	1001.9	1002.2	1001.4	1001.4	1002.1	1001.4
4°	1000.7	1001.7	1001.7	1001.5	1002.3	1001.7	1001.4	1001.0	1001.0	1000.9	1000.8
4.5°	1000.1	1000.6	1000.8	1001.3	1001.1	1001.5	1001.0	1000.3	1000.0	1000.1	1000.0
5°	999.8	999.7	999.8	1000.5	1000.3	1000.7	1000.2	999.0	998.9	999.3	999.4
5.5°	998.5	999.5	999.5	1000.0	999.8	1000.2	999.6	998.5	998.0	998.1	998.3
6°	997.3	998.6	997.8	998.9	999.1	999.2	998.3	997.8	996.8	997.0	996.3
6.5°	996.5	997.4	997.1	997.7	997.8	998.4	997.0	997.0	996.4	995.5	995.2
7°	995.3	996.1	996.2	996.4	996.6	997.2	995.7	995.3	994.9	994.9	994.5
7.5°	994.1	994.8	995.0	995.6	996.3	995.7	995.2	993.7	993.7	993.6	993.2
8°	992.8	993.6	993.5	994.1	994.9	994.8	994.2	993.0	992.3	992.0	991.9
8.5°	991.5	992.7	992.6	992.8	993.5	993.7	992.1	991.5	991.1	990.7	990.6
9°	990.2	991.4	990.9	991.7	992.0	992.4	990.7	990.2	989.3	989.1	988.9
9.5°	988.5	990.1	989.9	990.4	990.7	991.1	989.7	988.6	988.0	987.4	987.3
10°	987.4	988.4	988.2	988.6	989.7	989.5	987.9	986.6	986.3	985.4	985.2
10.5°	986.2	986.7	986.6	987.7	988.3	987.9	985.9	985.3	984.0	983.7	983.4
11°	984.4	984.9	985.1	986.0	986.5	986.1	984.3	983.5	982.2	982.4	981.3
11.5°	982.3	983.3	983.3	984.4	985.2	984.6	982.6	981.1	980.3	980.9	979.5
12°	980.8	981.7	981.5	982.9	983.2	982.7	981.1	979.3	978.7	978.1	977.6
12.5°	978.7	979.6	979.2	980.9	981.9	980.9	979.3	977.1	976.0	975.9	975.8
13°	976.8	978.0	977.5	979.4	980.0	979.2	977.1	974.9	974.2	973.7	973.5
13.5°	974.6	975.7	975.9	977.1	977.7	977.1	975.0	973.3	971.7	971.2	971.6
14°	973.4	973.7	973.9	975.6	975.6	975.0	972.5	971.1	969.4	969.2	969.4
14.5°	970.9	971.2	972.0	973.5	973.5	973.0	970.8	968.4	967.5	966.3	966.5
15°	968.0	968.8	969.9	970.4	970.7	970.4	968.7	966.2	964.6	964.3	964.3
15.5°	965.5	966.8	967.5	968.4	968.9	968.2	966.2	963.3	962.1	961.8	962.0
16°	962.6	964.9	965.6	966.0	965.8	966.0	964.0	960.6	959.7	959.4	959.5
16.5°	960.6	962.3	963.6	963.4	963.3	963.3	961.0	958.7	957.0	956.7	956.6
17°	957.7	959.4	961.0	960.7	960.9	960.5	958.5	955.9	953.9	953.6	953.3
17.5°	954.6	956.7	958.2	958.2	957.8	957.7	956.3	952.9	951.7	950.6	950.8
18°	952.0	953.8	955.5	954.7	954.9	954.7	954.1	950.1	948.6	947.6	948.1
18.5°	948.8	950.6	952.9	951.8	951.3	951.6	950.8	946.7	945.2	944.7	944.8
19°	945.4	947.9	950.0	948.7	948.4	948.3	948.3	944.0	942.4	941.3	942.2
19.5°	942.6	944.7	946.6	945.4	945.7	945.4	944.5	941.0	939.0	937.8	939.2
20°	939.5	941.9	943.6	941.7	942.0	942.2	941.5	937.5	935.8	935.0	935.7
20.5°	936.2	938.0	940.6	938.7	938.6	938.2	937.9	934.1	933.0	931.6	932.4
21°	932.9	934.3	937.4	935.4	935.6	934.4	935.4	930.8	929.6	928.2	929.0
21.5°	928.9	930.9	933.9	932.2	931.7	931.6	931.5	927.6	925.5	924.4	925.6
22°	925.3	927.4	930.5	928.5	928.5	927.8	928.2	924.4	921.6	920.6	922.1

TEST NUMBER: P869709
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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°	922.0	924.0	926.7	924.8	924.8	924.1	924.4	920.7	918.1	916.6	917.8
23°	918.7	920.7	922.5	921.6	921.1	920.8	920.1	916.6	914.3	913.3	913.7
23.5°	914.6	917.4	919.2	918.0	917.6	917.4	916.6	913.1	910.4	910.0	909.4
24°	911.0	913.5	915.1	914.0	913.8	912.9	912.8	909.6	906.9	905.3	905.4
24.5°	907.3	909.7	910.7	910.0	910.4	908.5	908.5	905.6	902.8	901.3	901.9
25°	903.3	905.5	906.7	906.4	906.0	905.2	904.4	902.0	898.6	897.3	896.9
25.5°	898.5	901.2	902.5	902.6	902.3	901.8	900.2	898.2	894.6	893.3	892.6
26°	894.7	897.6	898.2	898.4	898.1	897.0	895.9	893.9	890.2	889.3	889.1
26.5°	889.9	893.3	894.0	893.9	894.0	892.9	891.4	889.7	886.3	885.0	884.3
27°	885.9	889.3	889.5	889.9	889.2	889.0	887.0	885.3	881.6	881.0	879.9
27.5°	881.6	885.2	885.4	886.4	885.3	884.2	882.3	881.2	877.2	876.9	875.7
28°	877.3	880.5	881.3	881.9	881.2	880.2	877.8	876.5	873.4	872.5	871.2
28.5°	872.4	876.5	876.3	877.1	876.6	875.9	873.9	872.4	868.9	867.8	866.9
29°	867.8	872.3	871.7	872.5	872.3	871.3	869.2	868.0	864.1	863.0	862.1
29.5°	863.6	867.7	867.7	868.3	867.3	866.5	864.7	863.6	859.3	858.3	857.5
30°	859.1	863.0	863.2	863.8	862.6	861.8	860.4	858.7	854.4	853.7	852.2
30.5°	854.4	858.6	858.4	859.1	857.9	857.2	855.8	854.2	849.6	849.1	847.8
31°	849.4	853.8	853.7	854.1	853.6	852.5	850.5	849.3	844.8	843.6	843.0
31.5°	845.0	848.4	848.6	849.5	848.4	847.3	845.8	844.0	839.9	838.6	837.9
32°	839.7	843.2	843.8	845.0	843.3	842.1	840.7	839.1	834.8	834.2	832.5
32.5°	834.6	838.4	838.5	840.1	838.3	837.7	835.4	834.3	829.7	829.2	827.7
33°	829.8	833.3	833.2	834.8	833.6	832.5	830.5	828.8	824.4	824.2	822.3
33.5°	824.6	828.3	828.4	829.5	828.9	827.6	825.1	823.6	819.1	818.9	817.0
34°	819.2	823.4	823.4	824.3	823.4	822.3	819.5	819.0	814.3	813.4	811.3
34.5°	813.8	817.9	817.8	819.0	817.7	817.2	814.6	813.6	809.0	808.0	806.1
35°	808.2	812.7	812.2	813.9	812.2	811.9	808.9	807.7	803.2	802.5	800.7
35.5°	802.3	807.2	807.0	808.6	806.9	806.4	803.6	802.3	797.7	797.3	795.2
36°	797.4	801.9	801.4	803.1	801.3	800.9	798.0	796.7	792.2	791.5	789.6
36.5°	791.9	796.3	795.9	797.3	795.5	795.2	792.5	791.2	786.6	786.4	784.2
37°	786.4	790.8	790.6	791.4	790.4	790.0	786.9	785.7	780.9	780.3	777.9
37.5°	780.8	784.7	784.7	786.1	785.0	784.2	781.4	780.1	775.1	773.9	772.1
38°	774.1	778.9	778.9	780.3	779.0	778.2	775.4	774.5	769.2	768.2	766.3
38.5°	768.5	772.9	773.2	774.8	773.1	772.3	769.6	768.8	763.1	761.7	760.5
39°	762.8	767.4	767.3	768.8	767.3	766.8	763.4	762.6	757.4	756.2	754.7
39.5°	757.0	760.8	761.4	762.7	761.4	760.5	757.6	756.7	751.2	750.4	748.8
40°	750.5	754.8	755.5	756.3	755.2	754.7	751.8	750.4	745.2	744.0	742.4
40.5°	744.5	748.7	749.3	750.5	749.2	748.9	746.3	743.8	739.2	737.4	736.5
41°	738.8	742.6	743.1	744.3	742.9	742.6	739.7	737.2	733.0	731.5	729.9
41.5°	732.8	736.2	737.2	738.0	737.0	736.1	733.8	731.2	727.0	725.0	724.0
42°	726.2	729.7	731.1	731.8	730.8	730.0	727.3	724.7	720.5	718.5	717.4
42.5°	719.9	723.7	725.0	725.3	724.3	723.8	721.2	718.0	714.0	712.4	710.9
43°	713.5	716.9	718.4	718.7	717.9	717.3	714.4	711.8	707.3	706.2	704.7
43.5°	706.9	710.8	711.7	712.5	711.5	710.7	707.6	705.2	700.8	699.8	698.2
44°	700.8	704.5	705.6	705.8	705.1	704.7	701.2	698.9	694.2	693.4	691.5
44.5°	694.6	698.0	699.2	699.6	698.7	697.9	694.7	692.0	687.8	686.7	685.0

TEST NUMBER: P869709
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	687.6	690.8	692.8	693.2	692.1	691.3	688.2	685.3	681.0	679.8	678.1
45.5°	680.5	684.5	686.0	686.4	685.1	684.7	681.7	678.8	674.5	672.4	671.6
46°	674.4	677.8	679.1	679.3	678.4	677.9	674.9	672.1	667.6	665.8	664.7
46.5°	667.4	671.0	672.8	672.3	671.8	671.2	668.4	665.0	660.3	658.9	658.1
47°	660.8	664.1	665.7	665.9	664.9	664.4	661.4	658.6	653.8	652.2	651.1
47.5°	653.3	657.1	659.0	659.2	658.3	657.4	654.2	652.0	646.7	645.2	643.7
48°	646.6	650.4	651.8	652.0	651.1	650.8	647.6	644.7	640.0	638.1	636.6
48.5°	639.9	643.5	645.0	644.8	643.9	643.5	640.6	637.1	632.5	630.9	629.9
49°	632.5	636.2	637.6	637.9	637.0	636.5	633.1	630.1	625.9	623.8	622.3
49.5°	625.4	628.8	630.5	630.9	629.9	629.6	626.2	623.0	618.9	616.7	615.5
50°	618.3	622.0	623.2	623.5	622.9	622.3	619.1	615.9	611.4	609.8	608.2
50.5°	611.0	615.0	616.3	616.5	615.8	614.9	611.8	608.6	604.0	602.0	600.9
51°	603.4	607.6	608.8	608.9	608.6	607.6	604.3	601.5	596.5	594.5	593.2
51.5°	596.2	600.3	601.6	601.8	601.1	600.3	596.7	594.2	589.4	587.4	585.9
52°	588.8	592.8	594.3	594.5	593.8	592.8	589.5	586.8	582.3	579.7	578.6
52.5°	581.0	585.2	586.5	586.7	586.1	585.7	582.3	579.5	574.6	572.4	570.9
53°	573.0	577.6	579.1	579.1	578.3	578.1	574.9	571.5	566.8	564.6	563.4
53.5°	566.0	570.1	571.6	571.8	571.2	570.6	567.2	564.1	559.2	557.1	555.9
54°	558.5	562.3	563.9	564.0	563.8	562.7	559.6	556.2	552.0	549.2	548.1
54.5°	551.1	554.6	556.4	556.2	556.3	555.4	552.0	548.8	544.3	541.2	540.1
55°	542.8	547.1	548.7	548.5	548.7	547.4	544.4	541.0	536.3	533.8	532.8
55.5°	535.3	539.3	541.0	540.6	540.8	539.9	536.6	533.8	528.5	526.6	524.6
56°	527.7	531.4	533.2	533.0	533.3	531.9	528.7	525.5	520.6	518.4	516.5
56.5°	519.8	523.4	525.2	525.1	525.5	524.0	520.6	518.0	512.6	510.2	508.6
57°	511.5	515.5	517.5	517.3	517.7	516.2	513.0	509.9	505.1	502.3	500.4
57.5°	503.6	507.6	509.5	509.2	509.7	508.0	504.7	501.9	496.8	494.1	492.6
58°	495.8	499.8	501.5	501.3	501.4	500.2	496.8	493.7	488.9	486.1	484.6
58.5°	487.8	492.0	493.7	493.3	493.5	492.2	488.9	485.8	481.0	478.2	476.5
59°	479.4	483.6	485.4	485.0	485.7	483.8	480.7	477.3	472.8	470.3	468.5
59.5°	471.4	475.3	477.2	476.9	477.5	475.8	472.4	469.2	464.6	461.4	460.0
60°	463.1	467.1	468.8	468.5	469.2	467.5	463.9	460.8	456.6	453.3	451.8
60.5°	454.9	458.7	460.6	460.4	461.1	459.5	456.1	452.8	448.2	445.3	443.7
61°	447.0	450.6	452.4	452.1	453.0	451.0	447.7	444.6	439.9	437.0	435.5
61.5°	438.4	442.1	444.1	444.0	444.9	442.7	439.4	436.4	431.7	428.5	427.0
62°	429.9	433.8	436.0	435.8	436.6	434.6	431.0	427.9	423.5	420.0	418.2
62.5°	421.4	425.6	427.3	427.3	428.1	426.1	422.5	419.3	414.7	411.7	409.9
63°	413.0	417.1	418.6	418.8	419.6	417.7	414.1	410.8	406.3	403.2	401.4
63.5°	404.4	408.3	410.1	410.3	411.3	409.4	405.8	402.5	397.7	394.5	392.8
64°	396.1	400.0	401.6	401.6	402.6	400.5	397.2	393.8	389.3	386.0	384.3
64.5°	387.5	391.6	393.1	393.5	394.4	392.3	388.7	385.1	380.7	377.4	375.4
65°	379.0	382.8	384.5	384.9	385.6	383.7	379.9	376.4	372.2	368.8	367.0
65.5°	370.3	374.1	375.8	376.0	376.8	375.1	371.4	367.8	363.8	360.2	358.5
66°	361.9	365.5	367.1	367.2	368.3	366.3	362.5	358.9	354.8	351.7	350.1
66.5°	352.9	356.8	358.5	358.6	359.9	357.5	354.1	350.4	346.3	342.8	341.1
67°	344.2	348.2	349.8	350.0	351.2	349.2	345.4	341.6	337.5	334.0	332.1

TEST NUMBER: P869709
 CATALOG NUMBER: SMX18RLSFS010-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	335.5	339.2	340.8	341.1	342.6	340.2	336.8	332.9	328.8	325.1	323.4
68°	326.5	330.2	331.9	332.0	333.6	331.2	327.9	324.0	320.0	316.6	314.6
68.5°	317.8	321.8	323.2	323.7	325.3	322.5	319.1	315.0	311.4	308.0	306.0
69°	309.1	312.9	314.2	315.0	316.5	313.8	309.9	306.3	302.4	298.9	297.2
69.5°	299.7	303.9	305.5	305.6	307.4	305.0	301.3	297.8	293.7	290.0	288.0
70°	290.9	295.0	296.5	296.7	298.5	296.1	292.3	288.5	284.5	281.3	279.2
70.5°	282.3	285.9	287.4	288.0	289.9	287.3	283.5	279.7	275.9	272.3	270.3
71°	273.1	277.3	278.6	279.1	281.1	278.7	274.9	270.7	267.0	263.5	261.6
71.5°	264.1	268.3	269.7	270.2	272.1	269.6	265.8	261.7	257.9	254.5	252.7
72°	255.4	259.3	260.7	261.2	263.3	260.9	256.9	252.9	248.9	245.3	243.5
72.5°	246.4	250.1	251.7	252.1	254.4	251.9	248.2	243.7	239.8	236.5	234.7
73°	237.4	241.1	242.6	243.1	245.2	242.6	238.8	234.7	231.1	227.6	225.7
73.5°	228.6	232.2	233.8	234.1	236.6	233.8	230.0	225.7	222.3	218.6	216.9
74°	219.7	223.4	224.8	225.3	227.6	225.0	221.2	216.9	213.3	209.6	208.0
74.5°	210.8	214.6	216.1	216.2	218.6	216.2	212.4	207.9	204.4	200.8	199.0
75°	201.6	205.4	206.9	207.1	209.6	207.2	203.5	198.9	195.5	191.8	190.1
75.5°	193.1	196.5	198.2	198.1	200.9	198.2	194.5	190.5	186.7	183.3	181.5
76°	184.2	187.9	189.5	189.4	191.9	189.5	185.7	181.6	178.0	174.5	172.6
76.5°	175.4	178.9	180.6	180.4	183.2	180.6	176.6	173.0	169.1	165.3	163.7
77°	166.6	170.3	172.0	171.8	174.3	171.9	168.1	164.3	160.3	156.8	155.0
77.5°	157.8	161.5	163.1	163.1	165.7	163.2	159.5	155.4	151.9	148.3	146.6
78°	149.3	153.0	154.3	154.6	156.9	154.6	150.8	146.9	142.9	140.0	138.0
78.5°	140.6	144.2	145.9	146.2	148.5	145.8	142.1	138.0	134.5	131.1	129.5
79°	132.3	135.9	137.6	137.7	139.9	137.4	133.8	129.7	126.0	122.8	121.4
79.5°	123.7	127.2	129.0	129.2	131.3	129.0	125.3	121.2	117.8	114.6	112.9
80°	115.5	118.8	120.5	120.7	122.9	120.9	116.8	112.9	109.7	106.9	105.0
80.5°	107.5	110.7	112.3	112.7	114.7	112.6	109.1	105.2	101.6	98.7	97.1
81°	99.4	102.7	104.2	104.7	107.1	104.9	101.0	97.1	93.9	90.8	89.5
81.5°	91.6	94.6	96.3	96.5	98.6	96.7	93.1	89.3	85.9	83.2	81.9
82°	83.5	86.9	88.2	88.2	90.6	88.7	85.7	81.7	78.2	75.5	74.2
82.5°	76.0	79.1	80.6	80.7	83.1	81.2	77.9	74.2	70.8	68.1	66.9
83°	68.8	71.8	73.1	73.2	75.7	73.8	70.5	66.9	63.7	61.1	59.9
83.5°	61.6	64.5	65.9	66.1	68.3	66.3	63.3	59.6	56.6	54.2	52.9
84°	54.8	57.6	58.8	59.0	61.0	59.3	56.3	52.8	49.7	47.7	46.3
84.5°	48.2	50.9	52.0	52.3	54.2	52.6	49.5	46.3	43.3	41.1	40.0
85°	41.8	44.4	45.5	45.5	47.8	46.0	43.1	39.8	37.1	34.9	33.9
85.5°	35.8	38.2	39.3	39.3	41.1	39.5	36.7	33.7	31.2	29.3	28.3
86°	30.4	32.6	33.4	33.5	35.1	33.4	30.8	28.2	26.1	24.1	23.3
86.5°	25.5	27.4	28.3	28.3	29.1	27.9	25.6	22.9	21.0	19.6	19.0
87°	20.5	22.6	23.3	23.3	24.3	22.8	20.8	18.6	16.8	15.3	14.8
87.5°	16.3	18.1	18.8	18.8	19.5	18.6	16.8	14.6	12.8	11.6	11.0
88°	12.3	13.8	14.6	14.5	15.5	14.4	12.7	10.7	9.2	8.1	7.9
88.5°	8.3	9.7	10.4	10.4	11.5	10.7	9.1	7.4	6.1	5.3	4.8
89°	5.7	6.8	7.2	7.0	8.2	7.3	6.0	4.6	3.6	2.9	2.7
89.5°	3.7	4.5	4.8	4.6	5.2	4.5	3.5	2.4	1.7	1.3	1.0

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



TEST NUMBER: P869709
CATALOG NUMBER: SMX18RLSFS010-2500LM-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: P869709
 CATALOG NUMBER: SMX18RLSFS010-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1003.8	1003.8	1003.8	1003.8	1003.8	1003.8
0.5°	1003.6	1003.5	1004.5	1003.3	1003.3	1003.0
1°	1002.8	1002.9	1003.9	1002.5	1003.1	1003.0
1.5°	1002.7	1003.3	1003.7	1002.4	1003.0	1003.0
2°	1002.2	1003.3	1003.1	1002.1	1003.0	1002.7
2.5°	1002.0	1002.4	1002.9	1002.0	1002.7	1002.0
3°	1001.3	1001.6	1002.9	1001.1	1002.5	1001.4
3.5°	1000.9	1000.9	1002.0	1000.9	1001.7	1001.0
4°	1000.9	999.8	1001.1	1000.8	1000.8	1000.7
4.5°	999.7	999.5	1000.2	999.5	999.6	1000.1
5°	999.1	999.1	999.7	998.4	998.6	999.8
5.5°	997.2	997.5	998.5	997.1	997.9	998.5
6°	996.2	996.5	997.2	996.9	997.5	997.3
6.5°	995.3	995.3	996.4	996.1	996.4	996.5
7°	994.6	994.1	995.2	994.7	995.6	995.3
7.5°	992.5	993.0	993.4	993.5	994.5	994.1
8°	991.4	991.2	992.2	992.0	992.8	992.8
8.5°	990.1	990.0	991.1	990.3	991.4	991.5
9°	988.2	988.2	989.9	989.2	989.8	990.2
9.5°	987.0	986.7	987.4	987.6	988.2	988.5
10°	985.6	985.5	985.7	985.3	986.7	987.4
10.5°	983.6	983.9	983.8	983.2	985.2	986.2
11°	981.5	981.7	982.1	981.9	983.8	984.4
11.5°	979.9	979.9	980.5	980.1	982.4	982.3
12°	977.8	977.7	979.2	978.0	980.3	980.8
12.5°	975.6	975.7	976.4	976.0	978.3	978.7
13°	973.5	973.8	974.8	974.6	976.4	976.8
13.5°	971.6	972.0	972.5	972.2	974.6	974.6
14°	969.0	969.4	970.5	970.3	972.7	973.4
14.5°	967.0	967.1	968.2	968.1	970.7	970.9
15°	964.7	964.7	965.7	965.4	968.2	968.0
15.5°	962.6	961.8	963.2	963.3	965.3	965.5
16°	960.2	959.1	960.9	960.4	962.6	962.6
16.5°	957.3	956.1	957.8	958.4	959.8	960.6
17°	954.7	952.9	954.7	956.3	957.2	957.7
17.5°	951.3	949.7	951.9	953.3	954.4	954.6
18°	948.4	946.9	948.5	950.4	951.3	952.0
18.5°	944.6	943.8	944.6	947.3	948.1	948.8
19°	941.3	940.6	941.4	944.8	944.8	945.4
19.5°	938.0	936.9	938.3	941.3	941.8	942.6
20°	934.8	933.7	935.7	937.9	939.0	939.5
20.5°	931.2	930.6	932.1	935.1	935.2	936.2
21°	927.8	927.0	928.8	931.9	931.7	932.9
21.5°	924.3	923.0	925.1	928.1	927.8	928.9
22°	920.8	919.3	920.9	924.1	924.2	925.3

TEST NUMBER: P869709
 CATALOG NUMBER: SMX18RLSFS010-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	917.0	915.7	917.7	920.5	921.1	922.0
23°	913.5	912.1	914.2	916.7	918.0	918.7
23.5°	909.2	908.5	909.8	912.8	913.7	914.6
24°	905.4	904.6	905.7	908.4	909.3	911.0
24.5°	901.0	900.6	901.7	904.3	905.8	907.3
25°	897.3	896.8	898.6	900.4	902.3	903.3
25.5°	893.2	892.2	894.4	896.2	898.1	898.5
26°	888.8	888.0	890.3	891.9	894.1	894.7
26.5°	884.2	883.1	886.0	887.5	889.7	889.9
27°	880.1	878.9	881.6	883.3	885.2	885.9
27.5°	875.6	874.1	877.1	878.9	880.9	881.6
28°	871.3	869.9	873.1	874.5	876.9	877.3
28.5°	866.5	865.3	868.0	869.5	872.5	872.4
29°	862.2	860.5	863.3	865.1	867.8	867.8
29.5°	857.0	855.6	858.3	860.3	862.9	863.6
30°	852.2	851.2	853.8	855.7	858.3	859.1
30.5°	847.8	846.1	848.6	850.3	853.7	854.4
31°	842.7	841.2	843.8	845.6	849.2	849.4
31.5°	837.4	836.1	838.7	840.7	843.8	845.0
32°	832.3	830.7	834.2	836.1	839.1	839.7
32.5°	827.4	825.6	829.2	830.8	834.0	834.6
33°	822.2	820.9	824.1	825.8	829.4	829.8
33.5°	817.0	815.2	818.5	820.4	824.4	824.6
34°	812.0	809.7	813.2	815.2	819.1	819.2
34.5°	805.9	804.4	807.7	810.0	813.8	813.8
35°	800.3	799.2	802.4	804.1	808.2	808.2
35.5°	795.0	793.5	796.3	798.6	802.4	802.3
36°	789.4	788.1	791.1	793.4	797.3	797.4
36.5°	784.3	782.2	785.5	788.1	792.1	791.9
37°	778.8	776.5	779.7	782.2	786.2	786.4
37.5°	772.9	771.0	773.5	776.7	780.5	780.8
38°	766.3	765.0	767.7	770.5	774.5	774.1
38.5°	761.1	758.9	761.7	764.5	768.5	768.5
39°	755.1	753.1	755.7	758.9	762.6	762.8
39.5°	748.7	747.1	749.3	752.5	756.2	757.0
40°	742.6	740.7	743.9	746.6	750.1	750.5
40.5°	736.2	734.5	737.3	740.5	744.3	744.5
41°	729.7	728.5	731.0	733.8	737.2	738.8
41.5°	723.9	721.9	724.6	727.9	731.2	732.8
42°	717.4	715.5	718.5	721.6	724.6	726.2
42.5°	710.8	709.4	711.7	714.8	718.3	719.9
43°	704.9	703.1	705.5	708.5	711.9	713.5
43.5°	698.3	696.6	698.8	702.4	705.9	706.9
44°	691.2	689.7	692.2	695.9	699.7	700.8
44.5°	684.8	683.1	685.7	689.0	693.0	694.6

TEST NUMBER: P869709
 CATALOG NUMBER: SMX18RLSFS010-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	678.2	676.2	679.0	682.7	686.0	687.6
45.5°	671.8	669.4	672.5	676.1	678.9	680.5
46°	664.4	662.4	665.7	668.9	672.1	674.4
46.5°	657.5	655.8	658.7	662.1	665.5	667.4
47°	650.7	648.4	651.4	654.9	658.7	660.8
47.5°	643.3	641.6	644.7	648.3	651.7	653.3
48°	636.3	634.3	637.2	641.1	644.5	646.6
48.5°	629.3	627.3	630.2	634.2	637.9	639.9
49°	622.0	620.7	623.2	626.8	631.0	632.5
49.5°	614.8	613.2	615.9	619.9	623.6	625.4
50°	607.6	605.7	608.4	612.5	616.5	618.3
50.5°	600.1	598.4	601.2	605.5	609.1	611.0
51°	592.8	591.2	593.7	598.1	601.9	603.4
51.5°	585.6	583.7	586.1	590.5	594.4	596.2
52°	577.8	575.9	578.9	582.7	586.8	588.8
52.5°	570.1	568.7	571.5	575.4	579.1	581.0
53°	563.0	560.9	563.9	567.8	571.9	573.0
53.5°	555.2	553.2	556.2	560.3	564.1	566.0
54°	547.3	545.4	548.4	552.4	556.2	558.5
54.5°	539.6	537.7	540.6	544.7	548.6	551.1
55°	532.3	530.1	533.2	537.1	540.6	542.8
55.5°	524.3	522.4	525.5	529.2	533.5	535.3
56°	516.2	514.6	517.4	521.8	525.6	527.7
56.5°	508.2	506.6	509.5	513.7	517.6	519.8
57°	500.7	498.4	501.4	505.7	509.3	511.5
57.5°	492.4	490.6	493.5	497.3	501.3	503.6
58°	484.2	482.4	485.4	489.4	493.3	495.8
58.5°	476.2	474.1	477.4	481.3	485.3	487.8
59°	468.1	466.0	469.2	472.9	477.0	479.4
59.5°	459.7	457.5	460.8	464.8	468.6	471.4
60°	451.6	449.3	452.6	456.6	460.4	463.1
60.5°	443.4	441.3	443.8	448.4	452.1	454.9
61°	435.0	432.9	436.0	439.9	443.8	447.0
61.5°	426.5	424.5	427.7	431.8	435.7	438.4
62°	418.1	416.1	419.2	423.2	427.3	429.9
62.5°	409.9	407.8	410.7	414.7	418.7	421.4
63°	401.2	399.1	402.0	405.8	410.2	413.0
63.5°	392.8	390.6	393.5	397.3	401.6	404.4
64°	384.0	381.7	384.7	389.0	393.1	396.1
64.5°	375.3	373.3	376.2	380.1	384.4	387.5
65°	366.9	364.9	367.5	371.2	375.9	379.0
65.5°	358.1	356.0	359.2	362.7	367.0	370.3
66°	349.4	347.5	350.1	354.1	358.4	361.9
66.5°	340.7	338.2	341.6	345.2	349.6	352.9
67°	331.7	329.7	332.5	336.3	340.9	344.2

TEST NUMBER: P869709
 CATALOG NUMBER: SMX18RLSFS010-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	323.3	321.0	323.8	327.7	332.2	335.5
68°	314.5	311.8	315.0	318.8	323.5	326.5
68.5°	305.5	303.2	305.9	309.8	314.4	317.8
69°	296.7	294.2	297.0	300.9	305.5	309.1
69.5°	287.7	285.2	288.2	292.0	296.5	299.7
70°	279.0	276.4	279.6	283.3	287.5	290.9
70.5°	270.3	267.5	270.5	274.2	278.9	282.3
71°	261.3	258.6	261.8	265.6	269.9	273.1
71.5°	252.3	249.6	252.5	256.2	260.9	264.1
72°	243.4	240.9	243.4	247.3	251.9	255.4
72.5°	234.3	231.9	234.7	238.5	243.0	246.4
73°	225.4	222.8	225.6	229.4	233.8	237.4
73.5°	216.7	213.9	216.6	220.5	225.0	228.6
74°	207.9	204.9	207.7	211.6	215.8	219.7
74.5°	198.9	196.2	198.7	202.5	206.8	210.8
75°	190.1	187.4	190.1	193.8	197.9	201.6
75.5°	181.6	178.7	181.0	185.1	189.3	193.1
76°	172.6	169.7	172.3	176.1	180.3	184.2
76.5°	163.8	161.1	163.5	167.4	171.8	175.4
77°	154.9	152.4	155.1	158.8	163.0	166.6
77.5°	146.4	143.8	146.5	150.5	154.5	157.8
78°	137.8	135.4	138.0	141.6	145.9	149.3
78.5°	129.4	127.0	129.5	133.1	137.5	140.6
79°	121.1	118.4	121.1	124.8	129.1	132.3
79.5°	112.8	110.2	112.7	116.4	120.6	123.7
80°	104.9	102.3	104.6	108.3	112.2	115.5
80.5°	97.0	94.3	96.7	100.2	103.9	107.5
81°	89.4	86.4	88.7	92.3	96.1	99.4
81.5°	81.5	78.8	81.0	84.5	88.4	91.6
82°	73.9	71.5	73.4	77.0	80.5	83.5
82.5°	66.6	64.2	66.4	69.5	73.1	76.0
83°	59.7	57.2	59.4	62.5	66.0	68.8
83.5°	52.8	50.5	52.3	55.4	59.0	61.6
84°	46.2	44.0	45.9	48.8	52.1	54.8
84.5°	39.9	38.0	39.7	42.5	45.6	48.2
85°	33.7	32.3	33.9	36.6	39.4	41.8
85.5°	28.2	27.1	28.6	30.8	33.6	35.8
86°	23.2	22.1	23.6	25.8	28.4	30.4
86.5°	18.9	17.6	18.9	21.0	23.4	25.5
87°	14.9	13.4	14.7	16.6	18.8	20.5
87.5°	11.0	9.3	10.7	12.6	14.6	16.3
88°	7.6	6.6	7.2	8.7	10.4	12.3
88.5°	4.9	4.2	4.9	6.0	7.2	8.3
89°	2.7	2.5	3.0	4.0	4.8	5.7
89.5°	1.2	1.6	2.0	2.5	3.1	3.7

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869709
CATALOG NUMBER: SMX18RLSFS010-2500LM-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)