

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: P869708

Luminaire Tested: **SMX18RLSFS010-2500LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869708
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS010-2500LM-3500K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

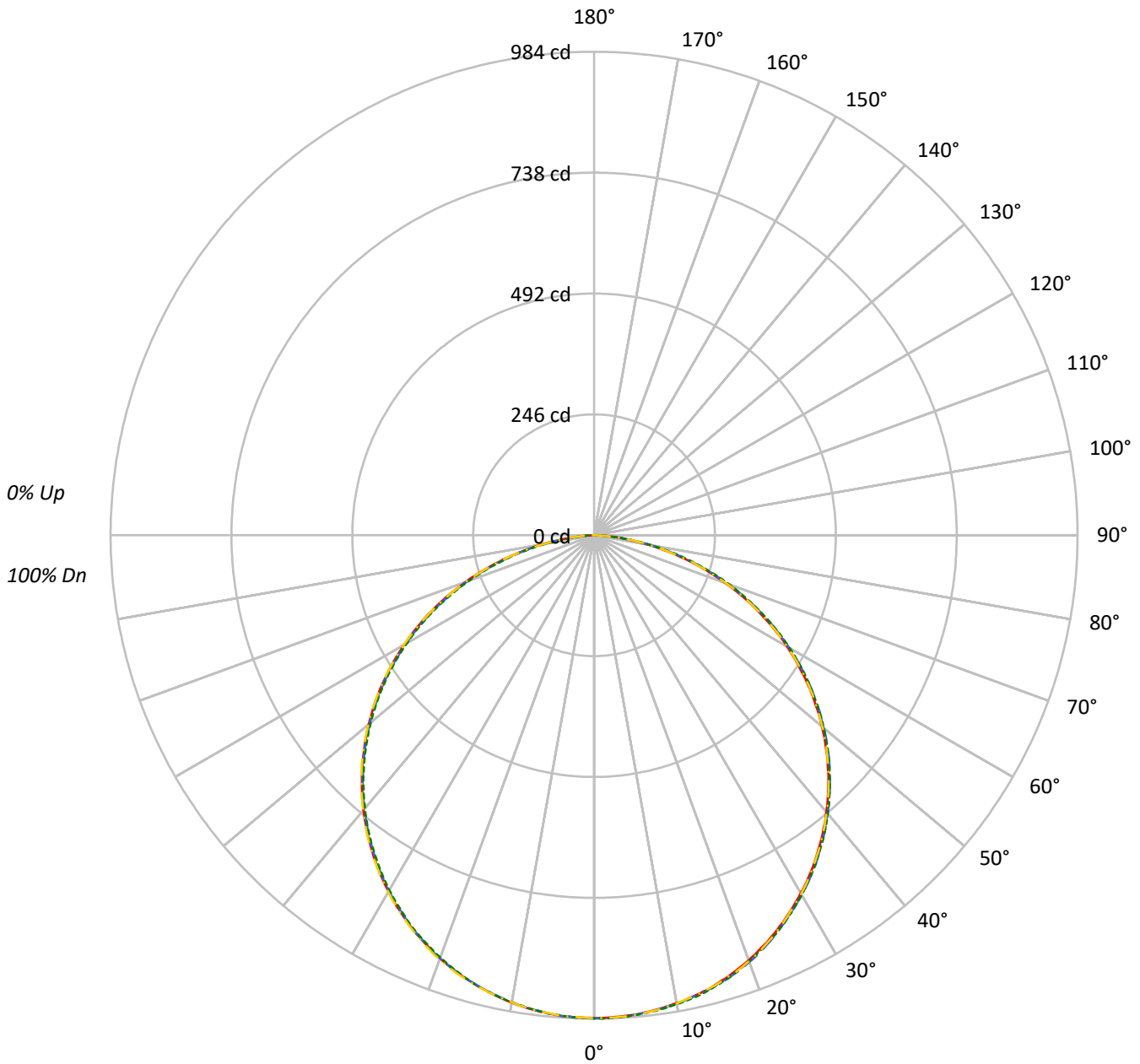
Lumens per Lamp: N/A
 Luminaire Lumens: 2870.0 lumens
 Efficiency: N/A
 Efficacy: 97.6 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5989	5989	5989	5989
5°	5988	5991	5982	5984
10°	5982	5996	5975	5970
15°	5979	5996	5959	5959
20°	5965	5981	5941	5928
25°	5947	5964	5916	5904
30°	5919	5943	5886	5864
35°	5886	5915	5850	5821
40°	5845	5882	5805	5770
45°	5802	5840	5747	5705
50°	5739	5781	5675	5622
55°	5646	5707	5578	5515
60°	5526	5599	5448	5361
65°	5350	5444	5255	5151
70°	5076	5207	4962	4821
75°	4648	4834	4507	4321
80°	3967	4223	3767	3515
85°	2858	3271	2537	2208

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	3.2
10°-20°	267.4	9.3
20°-30°	407.1	14.2
30°-40°	494.4	17.2
40°-50°	517.5	18.0
50°-60°	472.7	16.5
60°-70°	363.6	12.7
70°-80°	205.7	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
0°-30°	767.6	26.7
0°-40°	1262.0	44.0
0°-60°	2252.2	78.5
0°-90°	2870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	983	983	983	983	983	
5°	979	980	978	979	979	93
15°	948	951	945	945	948	268
25°	885	887	880	878	885	408
35°	792	796	787	783	792	495
45°	674	678	667	662	674	519
55°	532	537	525	519	532	475
65°	371	378	365	357	371	367
75°	198	205	192	184	198	209
85°	41	47	36	32	41	51
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°	983.3	983.3	983.3	983.3	983.3	983.3	983.3	983.3	983.3	983.3	983.3
0.5°	982.4	983.1	983.0	983.1	983.8	984.4	983.1	983.5	982.2	983.0	983.3
1°	982.4	983.3	982.9	983.5	984.0	984.1	982.4	982.9	982.4	982.8	982.9
1.5°	982.4	983.7	982.8	982.8	983.6	983.6	982.9	982.5	982.0	982.8	982.7
2°	982.1	983.1	982.6	982.4	983.1	983.6	982.7	982.3	981.8	982.2	981.9
2.5°	981.5	982.9	982.4	982.3	983.1	983.0	982.2	981.5	981.7	982.1	981.9
3°	980.9	982.4	982.4	981.7	982.4	982.0	981.8	981.1	980.7	982.3	981.1
3.5°	980.5	981.7	982.0	981.7	981.8	981.4	981.7	980.9	980.9	981.6	980.9
4°	980.2	981.2	981.2	981.0	981.8	981.2	980.9	980.5	980.5	980.4	980.3
4.5°	979.7	980.1	980.3	980.8	980.6	981.0	980.5	979.9	979.6	979.7	979.6
5°	979.4	979.2	979.4	980.0	979.9	980.2	979.8	978.5	978.4	978.8	978.9
5.5°	978.0	979.0	979.0	979.6	979.4	979.8	979.1	978.0	977.6	977.7	977.8
6°	976.9	978.1	977.4	978.4	978.6	978.7	977.8	977.4	976.4	976.6	975.9
6.5°	976.1	977.0	976.7	977.3	977.4	977.9	976.6	976.6	976.0	975.1	974.8
7°	974.9	975.7	975.8	976.0	976.2	976.8	975.3	974.9	974.5	974.5	974.1
7.5°	973.7	974.4	974.6	975.2	975.9	975.3	974.8	973.4	973.4	973.3	972.9
8°	972.5	973.3	973.2	973.7	974.5	974.4	973.8	972.7	972.0	971.7	971.6
8.5°	971.2	972.4	972.3	972.5	973.2	973.4	971.8	971.2	970.8	970.4	970.3
9°	969.9	971.1	970.6	971.3	971.7	972.1	970.4	969.9	969.1	968.9	968.7
9.5°	968.3	969.8	969.6	970.1	970.4	970.8	969.4	968.4	967.8	967.1	967.0
10°	967.1	968.2	968.0	968.4	969.4	969.2	967.7	966.4	966.1	965.2	965.0
10.5°	966.0	966.5	966.4	967.4	968.1	967.7	965.7	965.1	963.9	963.5	963.2
11°	964.3	964.8	964.9	965.8	966.3	965.9	964.2	963.3	962.1	962.3	961.2
11.5°	962.2	963.1	963.1	964.3	965.0	964.5	962.5	961.0	960.3	960.8	959.4
12°	960.7	961.6	961.4	962.7	963.0	962.6	961.0	959.2	958.6	958.1	957.6
12.5°	958.6	959.5	959.1	960.8	961.8	960.8	959.2	957.1	956.1	956.0	955.8
13°	956.8	958.0	957.5	959.3	960.0	959.1	957.1	954.9	954.2	953.8	953.6
13.5°	954.6	955.7	956.0	957.1	957.7	957.1	955.0	953.4	951.8	951.3	951.7
14°	953.5	953.8	954.0	955.6	955.6	955.0	952.6	951.2	949.6	949.4	949.6
14.5°	951.0	951.3	952.1	953.6	953.6	953.1	950.9	948.6	947.6	946.5	946.7
15°	948.2	949.0	950.0	950.5	950.8	950.5	948.9	946.4	944.9	944.6	944.6
15.5°	945.7	947.0	947.6	948.6	949.1	948.4	946.4	943.5	942.4	942.1	942.3
16°	942.9	945.2	945.8	946.2	946.0	946.2	944.3	941.0	940.0	939.7	939.8
16.5°	941.0	942.6	943.8	943.6	943.5	943.5	941.3	939.0	937.4	937.1	937.0
17°	938.1	939.7	941.3	941.1	941.2	940.9	938.9	936.4	934.4	934.1	933.8
17.5°	935.0	937.1	938.6	938.6	938.2	938.1	936.8	933.4	932.2	931.1	931.3
18°	932.6	934.3	935.9	935.1	935.3	935.1	934.6	930.6	929.2	928.2	928.7
18.5°	929.4	931.1	933.4	932.3	931.8	932.1	931.3	927.3	925.9	925.4	925.5
19°	926.1	928.4	930.5	929.3	929.0	928.9	928.9	924.7	923.1	922.0	922.9
19.5°	923.3	925.4	927.2	926.1	926.3	926.1	925.2	921.8	919.7	918.6	919.9
20°	920.2	922.6	924.2	922.4	922.7	922.9	922.2	918.3	916.6	915.8	916.5
20.5°	917.1	918.8	921.4	919.5	919.4	919.0	918.7	915.0	913.9	912.5	913.3
21°	913.8	915.2	918.2	916.2	916.4	915.3	916.2	911.7	910.6	909.2	910.0
21.5°	909.9	911.8	914.8	913.2	912.6	912.5	912.4	908.6	906.6	905.5	906.7
22°	906.4	908.4	911.4	909.5	909.5	908.8	909.2	905.5	902.7	901.8	903.2

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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°	903.1	905.1	907.7	905.9	905.9	905.2	905.5	901.9	899.3	897.9	899.0
23°	899.9	901.9	903.6	902.7	902.3	902.0	901.3	897.9	895.6	894.6	895.0
23.5°	895.9	898.6	900.3	899.2	898.8	898.6	897.9	894.4	891.7	891.4	890.8
24°	892.3	894.8	896.3	895.3	895.1	894.2	894.1	891.0	888.3	886.8	886.9
24.5°	888.7	891.1	892.0	891.4	891.7	889.9	889.9	887.1	884.3	882.9	883.4
25°	884.8	887.0	888.1	887.8	887.4	886.7	885.9	883.5	880.2	878.9	878.6
25.5°	880.1	882.8	884.0	884.1	883.8	883.3	881.8	879.8	876.3	875.0	874.4
26°	876.4	879.2	879.8	880.0	879.7	878.7	877.5	875.6	872.0	871.1	870.9
26.5°	871.7	875.0	875.7	875.6	875.7	874.6	873.1	871.5	868.1	866.9	866.2
27°	867.8	871.1	871.3	871.7	871.0	870.8	868.8	867.2	863.6	863.0	861.8
27.5°	863.6	867.1	867.3	868.2	867.2	866.1	864.2	863.2	859.3	859.0	857.7
28°	859.4	862.5	863.3	863.8	863.2	862.2	859.8	858.6	855.5	854.7	853.3
28.5°	854.6	858.6	858.4	859.2	858.7	857.9	856.0	854.6	851.1	850.0	849.1
29°	850.0	854.5	853.8	854.7	854.5	853.4	851.4	850.2	846.5	845.3	844.4
29.5°	845.9	849.9	849.9	850.6	849.5	848.7	847.0	845.9	841.7	840.7	840.0
30°	841.5	845.3	845.5	846.1	844.9	844.2	842.8	841.1	836.9	836.2	834.8
30.5°	836.9	841.0	840.8	841.5	840.3	839.7	838.2	836.7	832.2	831.7	830.4
31°	832.0	836.3	836.2	836.6	836.1	835.1	833.1	831.9	827.5	826.3	825.7
31.5°	827.7	831.1	831.3	832.1	831.1	829.9	828.5	826.7	822.7	821.4	820.7
32°	822.5	825.9	826.5	827.7	826.0	824.9	823.5	821.9	817.7	817.1	815.5
32.5°	817.5	821.2	821.3	822.8	821.1	820.6	818.3	817.2	812.7	812.2	810.7
33°	812.8	816.3	816.2	817.7	816.5	815.5	813.5	811.9	807.6	807.4	805.5
33.5°	807.8	811.4	811.5	812.5	812.0	810.6	808.2	806.7	802.3	802.1	800.3
34°	802.4	806.5	806.5	807.5	806.5	805.5	802.7	802.2	797.6	796.8	794.7
34.5°	797.1	801.2	801.1	802.2	801.0	800.5	797.9	797.0	792.5	791.4	789.6
35°	791.6	796.1	795.5	797.2	795.5	795.2	792.4	791.1	786.7	786.1	784.3
35.5°	785.9	790.6	790.5	792.1	790.4	789.9	787.1	785.9	781.4	781.0	778.9
36°	781.1	785.5	785.0	786.6	784.9	784.5	781.7	780.4	775.9	775.3	773.4
36.5°	775.6	780.0	779.6	781.0	779.2	778.9	776.3	775.0	770.5	770.3	768.1
37°	770.3	774.6	774.4	775.2	774.2	773.8	770.8	769.6	764.9	764.4	762.0
37.5°	764.8	768.7	768.7	770.0	769.0	768.1	765.4	764.1	759.2	758.1	756.2
38°	758.3	762.9	762.9	764.4	763.0	762.3	759.5	758.6	753.5	752.4	750.6
38.5°	752.8	757.1	757.4	758.9	757.3	756.4	753.9	753.1	747.5	746.1	745.0
39°	747.2	751.7	751.6	753.1	751.6	751.1	747.7	747.0	741.9	740.7	739.2
39.5°	741.5	745.3	745.8	747.1	745.8	745.0	742.1	741.2	735.8	735.0	733.5
40°	735.1	739.3	740.0	740.9	739.7	739.2	736.4	735.0	730.0	728.7	727.2
40.5°	729.3	733.4	734.0	735.1	733.9	733.6	731.0	728.5	724.0	722.3	721.5
41°	723.7	727.4	727.9	729.0	727.7	727.4	724.5	722.1	718.0	716.5	715.0
41.5°	717.8	721.1	722.1	722.9	721.9	721.0	718.8	716.2	712.1	710.2	709.1
42°	711.3	714.8	716.1	716.8	715.8	715.1	712.4	709.9	705.8	703.8	702.7
42.5°	705.1	708.8	710.2	710.5	709.4	708.9	706.5	703.3	699.4	697.9	696.3
43°	698.9	702.3	703.7	704.0	703.2	702.6	699.8	697.2	692.8	691.7	690.3
43.5°	692.4	696.2	697.1	698.0	696.9	696.1	693.1	690.8	686.5	685.4	683.9
44°	686.5	690.1	691.2	691.4	690.7	690.3	686.9	684.6	680.0	679.2	677.3
44.5°	680.4	683.7	684.9	685.2	684.4	683.6	680.5	677.8	673.7	672.6	671.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	673.5	676.6	678.7	679.0	677.9	677.1	674.1	671.3	667.1	665.8	664.2
45.5°	666.5	670.4	672.0	672.3	671.1	670.7	667.8	664.9	660.7	658.6	657.8
46°	660.6	663.9	665.2	665.4	664.5	664.0	661.1	658.3	653.9	652.2	651.1
46.5°	653.7	657.2	659.1	658.5	658.0	657.4	654.7	651.4	646.7	645.4	644.6
47°	647.3	650.5	652.1	652.3	651.3	650.7	647.9	645.1	640.4	638.8	637.8
47.5°	640.0	643.7	645.5	645.7	644.8	644.0	640.8	638.6	633.5	632.0	630.5
48°	633.4	637.1	638.4	638.6	637.8	637.5	634.3	631.5	626.9	625.0	623.5
48.5°	626.8	630.3	631.8	631.6	630.7	630.3	627.4	624.1	619.5	618.0	617.0
49°	619.5	623.1	624.6	624.9	624.0	623.4	620.2	617.2	613.1	611.0	609.6
49.5°	612.6	616.0	617.6	618.0	617.0	616.7	613.4	610.2	606.2	604.1	602.9
50°	605.6	609.3	610.4	610.7	610.1	609.6	606.4	603.3	598.9	597.3	595.7
50.5°	598.5	602.4	603.6	603.8	603.2	602.3	599.2	596.1	591.6	589.7	588.6
51°	591.0	595.1	596.4	596.5	596.1	595.1	591.9	589.2	584.2	582.3	581.1
51.5°	584.0	588.0	589.3	589.5	588.8	588.0	584.4	582.0	577.4	575.4	573.9
52°	576.8	580.7	582.1	582.3	581.7	580.7	577.5	574.8	570.4	567.8	566.8
52.5°	569.1	573.3	574.5	574.7	574.1	573.7	570.4	567.6	562.8	560.6	559.2
53°	561.3	565.8	567.2	567.2	566.5	566.3	563.1	559.8	555.2	553.0	551.8
53.5°	554.4	558.4	559.9	560.1	559.5	558.9	555.6	552.5	547.7	545.7	544.5
54°	547.1	550.8	552.3	552.4	552.2	551.2	548.1	544.8	540.7	538.0	536.8
54.5°	539.8	543.2	545.0	544.8	544.9	544.0	540.7	537.6	533.1	530.2	529.0
55°	531.7	535.9	537.4	537.2	537.4	536.2	533.2	530.0	525.3	522.9	521.8
55.5°	524.3	528.2	530.0	529.5	529.8	528.8	525.6	522.9	517.6	515.8	513.8
56°	516.9	520.5	522.3	522.1	522.4	521.0	517.8	514.8	509.9	507.8	505.9
56.5°	509.1	512.7	514.5	514.4	514.8	513.2	509.9	507.4	502.1	499.8	498.1
57°	501.0	504.9	506.9	506.7	507.1	505.6	502.5	499.5	494.8	492.0	490.1
57.5°	493.3	497.2	499.1	498.8	499.3	497.6	494.3	491.6	486.6	484.0	482.5
58°	485.6	489.5	491.3	491.1	491.2	489.9	486.6	483.6	478.8	476.2	474.6
58.5°	477.8	481.9	483.6	483.2	483.4	482.1	478.8	475.9	471.2	468.4	466.7
59°	469.6	473.7	475.5	475.1	475.8	473.9	470.8	467.6	463.1	460.7	458.9
59.5°	461.7	465.6	467.5	467.1	467.8	466.0	462.7	459.6	455.0	452.0	450.6
60°	453.6	457.5	459.2	458.9	459.6	457.9	454.4	451.3	447.2	444.1	442.5
60.5°	445.6	449.3	451.1	450.9	451.7	450.1	446.7	443.5	439.0	436.2	434.6
61°	437.8	441.4	443.1	442.8	443.8	441.8	438.5	435.5	430.9	428.0	426.6
61.5°	429.4	433.1	435.0	434.9	435.7	433.6	430.4	427.4	422.8	419.7	418.3
62°	421.1	424.9	427.0	426.9	427.6	425.7	422.2	419.1	414.8	411.4	409.7
62.5°	412.8	416.9	418.5	418.5	419.3	417.4	413.9	410.7	406.2	403.3	401.5
63°	404.5	408.6	410.0	410.2	411.0	409.2	405.6	402.4	398.0	394.9	393.2
63.5°	396.1	399.9	401.7	401.9	402.9	401.1	397.5	394.3	389.6	386.4	384.7
64°	388.0	391.8	393.4	393.4	394.4	392.3	389.1	385.8	381.4	378.1	376.4
64.5°	379.6	383.6	385.0	385.5	386.3	384.2	380.7	377.2	372.9	369.7	367.7
65°	371.2	375.0	376.6	377.0	377.7	375.8	372.1	368.7	364.6	361.2	359.5
65.5°	362.7	366.5	368.1	368.3	369.0	367.4	363.8	360.3	356.3	352.8	351.2
66°	354.5	358.1	359.6	359.7	360.7	358.8	355.1	351.6	347.5	344.5	343.0
66.5°	345.6	349.5	351.2	351.3	352.5	350.2	346.9	343.2	339.2	335.8	334.1
67°	337.1	341.0	342.7	342.9	344.0	342.0	338.4	334.6	330.6	327.2	325.3

TEST NUMBER: P869708
 CATALOG NUMBER: SMX18RLSFS010-2500LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	328.6	332.3	333.8	334.1	335.6	333.2	329.9	326.0	322.0	318.4	316.8
68°	319.8	323.5	325.1	325.2	326.8	324.4	321.2	317.3	313.4	310.1	308.2
68.5°	311.3	315.2	316.6	317.1	318.7	315.9	312.6	308.6	305.0	301.7	299.8
69°	302.7	306.5	307.8	308.6	310.0	307.4	303.6	300.1	296.2	292.8	291.1
69.5°	293.6	297.7	299.3	299.4	301.1	298.7	295.1	291.7	287.7	284.1	282.1
70°	285.0	289.0	290.4	290.6	292.4	290.0	286.3	282.6	278.6	275.5	273.5
70.5°	276.5	280.1	281.5	282.1	284.0	281.4	277.7	274.0	270.2	266.7	264.8
71°	267.5	271.6	272.9	273.4	275.3	273.0	269.3	265.2	261.5	258.1	256.3
71.5°	258.7	262.8	264.2	264.7	266.5	264.1	260.4	256.4	252.7	249.3	247.5
72°	250.2	254.0	255.3	255.8	257.9	255.5	251.6	247.7	243.8	240.2	238.5
72.5°	241.4	245.0	246.5	246.9	249.2	246.7	243.1	238.7	234.9	231.6	229.9
73°	232.5	236.1	237.7	238.1	240.1	237.7	233.9	229.9	226.4	222.9	221.1
73.5°	223.9	227.4	229.1	229.3	231.7	229.1	225.3	221.1	217.8	214.1	212.4
74°	215.2	218.8	220.2	220.6	222.9	220.4	216.6	212.4	208.9	205.4	203.7
74.5°	206.5	210.2	211.7	211.8	214.1	211.8	208.0	203.6	200.2	196.7	194.9
75°	197.5	201.1	202.7	202.9	205.4	203.0	199.3	194.8	191.5	187.9	186.2
75.5°	189.1	192.5	194.2	194.1	196.8	194.2	190.5	186.6	182.9	179.6	177.7
76°	180.4	184.0	185.6	185.5	188.0	185.6	181.9	177.8	174.4	171.0	169.0
76.5°	171.8	175.3	176.9	176.7	179.5	176.9	173.0	169.4	165.6	161.9	160.3
77°	163.2	166.8	168.5	168.3	170.8	168.4	164.6	160.9	157.0	153.6	151.8
77.5°	154.6	158.1	159.8	159.8	162.4	159.9	156.2	152.2	148.8	145.2	143.6
78°	146.2	149.8	151.2	151.5	153.7	151.5	147.7	143.9	140.0	137.1	135.2
78.5°	137.7	141.2	143.0	143.2	145.4	142.9	139.2	135.2	131.8	128.4	126.8
79°	129.6	133.1	134.7	134.8	137.0	134.5	131.1	127.0	123.5	120.3	118.9
79.5°	121.2	124.6	126.3	126.5	128.6	126.3	122.7	118.7	115.4	112.3	110.6
80°	113.1	116.4	118.0	118.2	120.4	118.4	114.4	110.6	107.4	104.7	102.8
80.5°	105.3	108.5	110.0	110.4	112.4	110.3	106.8	103.0	99.5	96.7	95.1
81°	97.4	100.6	102.1	102.5	104.9	102.7	98.9	95.1	92.0	89.0	87.6
81.5°	89.7	92.7	94.3	94.5	96.6	94.7	91.2	87.4	84.2	81.5	80.3
82°	81.8	85.1	86.4	86.4	88.8	86.9	83.9	80.0	76.6	74.0	72.7
82.5°	74.4	77.5	78.9	79.0	81.4	79.5	76.4	72.7	69.4	66.7	65.6
83°	67.4	70.3	71.6	71.7	74.2	72.2	69.1	65.6	62.4	59.8	58.7
83.5°	60.3	63.2	64.6	64.8	66.9	65.0	62.0	58.4	55.4	53.1	51.8
84°	53.7	56.4	57.6	57.8	59.7	58.1	55.1	51.7	48.6	46.7	45.4
84.5°	47.2	49.9	50.9	51.2	53.1	51.5	48.4	45.4	42.4	40.2	39.2
85°	40.9	43.5	44.5	44.5	46.8	45.1	42.2	39.0	36.3	34.2	33.3
85.5°	35.1	37.5	38.5	38.5	40.2	38.7	35.9	33.0	30.6	28.7	27.7
86°	29.8	31.9	32.7	32.8	34.4	32.7	30.2	27.6	25.6	23.6	22.8
86.5°	24.9	26.9	27.7	27.7	28.5	27.3	25.0	22.5	20.5	19.2	18.6
87°	20.1	22.2	22.8	22.8	23.8	22.4	20.4	18.3	16.4	15.0	14.5
87.5°	16.0	17.8	18.4	18.4	19.1	18.3	16.4	14.3	12.5	11.4	10.8
88°	12.0	13.5	14.3	14.2	15.2	14.1	12.4	10.5	9.0	7.9	7.7
88.5°	8.1	9.5	10.2	10.2	11.3	10.5	8.9	7.3	6.0	5.2	4.7
89°	5.5	6.7	7.1	6.9	8.0	7.2	5.8	4.5	3.5	2.9	2.7
89.5°	3.6	4.4	4.7	4.5	5.1	4.4	3.4	2.4	1.6	1.2	1.0

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



TEST NUMBER: P869708
CATALOG NUMBER: SMX18RLSFS010-2500LM-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: P869708
 CATALOG NUMBER: SMX18RLSFS010-2500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	983.3	983.3	983.3	983.3	983.3	983.3
0.5°	983.0	982.9	984.0	982.7	982.7	982.4
1°	982.2	982.3	983.4	982.0	982.5	982.4
1.5°	982.1	982.7	983.1	981.9	982.4	982.4
2°	981.7	982.7	982.5	981.6	982.4	982.1
2.5°	981.5	981.9	982.3	981.5	982.1	981.5
3°	980.8	981.1	982.3	980.6	982.0	980.9
3.5°	980.4	980.4	981.5	980.4	981.2	980.5
4°	980.4	979.4	980.6	980.3	980.3	980.2
4.5°	979.2	979.0	979.8	979.0	979.1	979.7
5°	978.6	978.6	979.2	977.9	978.1	979.4
5.5°	976.8	977.1	978.0	976.7	977.5	978.0
6°	975.8	976.1	976.8	976.5	977.1	976.9
6.5°	974.9	974.9	976.0	975.7	976.0	976.1
7°	974.2	973.7	974.8	974.3	975.2	974.9
7.5°	972.2	972.7	973.1	973.2	974.1	973.7
8°	971.1	970.9	971.9	971.7	972.5	972.5
8.5°	969.8	969.7	970.8	970.0	971.1	971.2
9°	968.0	968.0	969.6	969.0	969.5	969.9
9.5°	966.8	966.5	967.1	967.3	968.0	968.3
10°	965.4	965.3	965.5	965.1	966.5	967.1
10.5°	963.4	963.8	963.6	963.0	965.0	966.0
11°	961.4	961.6	962.0	961.8	963.6	964.3
11.5°	959.9	959.9	960.5	960.1	962.3	962.2
12°	957.8	957.7	959.1	958.0	960.3	960.7
12.5°	955.6	955.7	956.4	956.1	958.3	958.6
13°	953.6	953.9	954.8	954.6	956.4	956.8
13.5°	951.7	952.1	952.6	952.3	954.6	954.6
14°	949.2	949.6	950.6	950.4	952.8	953.5
14.5°	947.2	947.3	948.4	948.3	950.8	951.0
15°	945.0	945.0	945.9	945.6	948.4	948.2
15.5°	942.9	942.1	943.4	943.5	945.5	945.7
16°	940.6	939.4	941.2	940.8	942.9	942.9
16.5°	937.7	936.6	938.2	938.8	940.1	941.0
17°	935.1	933.4	935.1	936.8	937.6	938.1
17.5°	931.8	930.3	932.5	933.8	934.8	935.0
18°	929.0	927.5	929.1	930.9	931.8	932.6
18.5°	925.3	924.4	925.3	927.9	928.7	929.4
19°	922.0	921.4	922.1	925.5	925.5	926.1
19.5°	918.8	917.7	919.1	922.0	922.5	923.3
20°	915.6	914.6	916.5	918.7	919.7	920.2
20.5°	912.1	911.5	913.1	915.9	916.0	917.1
21°	908.8	908.0	909.8	912.9	912.6	913.8
21.5°	905.4	904.1	906.2	909.1	908.8	909.9
22°	902.0	900.4	902.1	905.2	905.3	906.4

TEST NUMBER: P869708
 CATALOG NUMBER: SMX18RLSFS010-2500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	898.2	896.9	898.9	901.7	902.3	903.1
23°	894.8	893.5	895.5	898.0	899.2	899.9
23.5°	890.6	889.9	891.2	894.1	895.0	895.9
24°	886.9	886.1	887.2	889.8	890.7	892.3
24.5°	882.6	882.2	883.2	885.8	887.3	888.7
25°	878.9	878.5	880.2	882.0	883.8	884.8
25.5°	874.9	874.0	876.1	877.9	879.7	880.1
26°	870.6	869.9	872.1	873.6	875.8	876.4
26.5°	866.1	865.0	867.9	869.3	871.5	871.7
27°	862.1	860.9	863.6	865.2	867.1	867.8
27.5°	857.6	856.2	859.2	860.9	862.9	863.6
28°	853.4	852.1	855.2	856.6	859.0	859.4
28.5°	848.7	847.6	850.2	851.7	854.7	854.6
29°	844.5	842.9	845.6	847.4	850.0	850.0
29.5°	839.5	838.0	840.7	842.7	845.2	845.9
30°	834.8	833.7	836.3	838.1	840.7	841.5
30.5°	830.4	828.8	831.3	832.9	836.2	836.9
31°	825.4	824.0	826.5	828.3	831.8	832.0
31.5°	820.3	818.9	821.5	823.5	826.5	827.7
32°	815.3	813.7	817.1	818.9	821.9	822.5
32.5°	810.4	808.7	812.2	813.8	816.9	817.5
33°	805.4	804.1	807.2	808.9	812.4	812.8
33.5°	800.3	798.5	801.7	803.6	807.6	807.8
34°	795.3	793.1	796.6	798.5	802.3	802.4
34.5°	789.4	788.0	791.1	793.4	797.1	797.1
35°	784.0	782.8	786.0	787.6	791.6	791.6
35.5°	778.7	777.3	780.0	782.2	786.0	785.9
36°	773.3	771.9	774.9	777.2	781.0	781.1
36.5°	768.3	766.2	769.4	771.9	775.8	775.6
37°	762.8	760.6	763.7	766.2	770.1	770.3
37.5°	757.1	755.2	757.7	760.8	764.6	764.8
38°	750.6	749.4	751.9	754.7	758.6	758.3
38.5°	745.5	743.3	746.1	748.9	752.8	752.8
39°	739.6	737.7	740.2	743.3	747.0	747.2
39.5°	733.4	731.8	734.0	737.1	740.7	741.5
40°	727.4	725.6	728.6	731.3	734.7	735.1
40.5°	721.1	719.5	722.2	725.4	729.0	729.3
41°	714.8	713.6	716.0	718.8	722.1	723.7
41.5°	709.0	707.1	709.8	713.0	716.2	717.8
42°	702.7	700.8	703.8	706.8	709.8	711.3
42.5°	696.2	694.9	697.1	700.2	703.6	705.1
43°	690.5	688.7	691.1	694.0	697.3	698.9
43.5°	684.0	682.4	684.5	688.0	691.5	692.4
44°	677.0	675.6	678.0	681.6	685.3	686.5
44.5°	670.8	669.1	671.7	674.9	678.8	680.4

TEST NUMBER: P869708
 CATALOG NUMBER: SMX18RLSFS010-2500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	664.3	662.3	665.1	668.7	672.0	673.5
45.5°	658.0	655.7	658.8	662.2	665.0	666.5
46°	650.7	648.8	652.1	655.2	658.3	660.6
46.5°	644.1	642.3	645.2	648.6	651.9	653.7
47°	637.4	635.1	638.0	641.5	645.2	647.3
47.5°	630.1	628.5	631.5	635.0	638.3	640.0
48°	623.2	621.3	624.2	628.0	631.3	633.4
48.5°	616.4	614.4	617.3	621.2	624.9	626.8
49°	609.3	608.0	610.4	614.0	618.1	619.5
49.5°	602.2	600.7	603.3	607.2	610.8	612.6
50°	595.1	593.3	595.9	599.9	603.8	605.6
50.5°	587.8	586.2	588.9	593.1	596.7	598.5
51°	580.7	579.1	581.6	585.9	589.6	591.0
51.5°	573.6	571.7	574.1	578.4	582.2	584.0
52°	566.0	564.1	567.0	570.8	574.8	576.8
52.5°	558.4	557.0	559.8	563.6	567.2	569.1
53°	551.5	549.5	552.3	556.1	560.2	561.3
53.5°	543.8	541.9	544.8	548.8	552.5	554.4
54°	536.1	534.3	537.1	541.0	544.8	547.1
54.5°	528.5	526.7	529.5	533.5	537.3	539.8
55°	521.4	519.3	522.3	526.1	529.5	531.7
55.5°	513.5	511.7	514.8	518.4	522.6	524.3
56°	505.6	504.1	506.8	511.1	514.9	516.9
56.5°	497.8	496.2	499.1	503.2	507.0	509.1
57°	490.4	488.2	491.2	495.4	498.9	501.0
57.5°	482.3	480.6	483.4	487.2	491.1	493.3
58°	474.3	472.5	475.5	479.4	483.2	485.6
58.5°	466.4	464.4	467.7	471.5	475.4	477.8
59°	458.5	456.5	459.6	463.2	467.3	469.6
59.5°	450.3	448.2	451.3	455.2	459.0	461.7
60°	442.3	440.1	443.3	447.2	450.9	453.6
60.5°	434.3	432.3	434.7	439.2	442.8	445.6
61°	426.1	424.0	427.0	430.9	434.7	437.8
61.5°	417.8	415.8	418.9	422.9	426.8	429.4
62°	409.6	407.6	410.6	414.5	418.5	421.1
62.5°	401.5	399.4	402.3	406.2	410.1	412.8
63°	393.0	390.9	393.8	397.5	401.8	404.5
63.5°	384.7	382.6	385.5	389.2	393.4	396.1
64°	376.1	373.9	376.8	381.0	385.0	388.0
64.5°	367.6	365.7	368.5	372.3	376.5	379.6
65°	359.4	357.4	360.0	363.6	368.2	371.2
65.5°	350.8	348.7	351.8	355.3	359.5	362.7
66°	342.3	340.4	343.0	346.9	351.1	354.5
66.5°	333.7	331.3	334.6	338.1	342.5	345.6
67°	324.9	323.0	325.7	329.4	333.9	337.1

TEST NUMBER: P869708
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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	316.7	314.4	317.2	321.0	325.4	328.6
68°	308.1	305.4	308.6	312.3	316.9	319.8
68.5°	299.3	297.0	299.7	303.5	308.0	311.3
69°	290.6	288.2	290.9	294.7	299.3	302.7
69.5°	281.8	279.3	282.3	286.0	290.4	293.6
70°	273.3	270.7	273.9	277.5	281.6	285.0
70.5°	264.8	262.0	265.0	268.6	273.2	276.5
71°	255.9	253.3	256.5	260.2	264.4	267.5
71.5°	247.1	244.5	247.3	250.9	255.5	258.7
72°	238.4	235.9	238.4	242.2	246.7	250.2
72.5°	229.5	227.1	229.9	233.6	238.0	241.4
73°	220.7	218.3	221.0	224.7	229.1	232.5
73.5°	212.2	209.6	212.1	216.0	220.4	223.9
74°	203.6	200.7	203.4	207.3	211.4	215.2
74.5°	194.8	192.2	194.7	198.4	202.6	206.5
75°	186.2	183.6	186.2	189.9	193.9	197.5
75.5°	177.8	175.1	177.3	181.3	185.4	189.1
76°	169.0	166.3	168.8	172.5	176.6	180.4
76.5°	160.4	157.8	160.2	164.0	168.3	171.8
77°	151.7	149.3	151.9	155.6	159.7	163.2
77.5°	143.4	140.9	143.5	147.4	151.4	154.6
78°	135.0	132.6	135.2	138.7	143.0	146.2
78.5°	126.7	124.4	126.8	130.3	134.6	137.7
79°	118.6	116.0	118.6	122.2	126.4	129.6
79.5°	110.5	108.0	110.4	114.0	118.1	121.2
80°	102.7	100.2	102.4	106.1	109.9	113.1
80.5°	95.0	92.4	94.7	98.1	101.8	105.3
81°	87.5	84.7	86.9	90.4	94.1	97.4
81.5°	79.8	77.2	79.3	82.8	86.6	89.7
82°	72.4	70.0	71.9	75.4	78.8	81.8
82.5°	65.3	62.9	65.1	68.0	71.6	74.4
83°	58.5	56.0	58.2	61.3	64.7	67.4
83.5°	51.7	49.5	51.2	54.3	57.8	60.3
84°	45.3	43.1	44.9	47.8	51.0	53.7
84.5°	39.1	37.3	38.9	41.7	44.6	47.2
85°	33.0	31.6	33.3	35.8	38.6	40.9
85.5°	27.6	26.6	28.0	30.2	32.9	35.1
86°	22.7	21.7	23.1	25.2	27.8	29.8
86.5°	18.5	17.2	18.5	20.5	22.9	24.9
87°	14.6	13.1	14.4	16.2	18.4	20.1
87.5°	10.8	9.1	10.5	12.3	14.3	16.0
88°	7.5	6.5	7.1	8.5	10.2	12.0
88.5°	4.8	4.1	4.8	5.8	7.1	8.1
89°	2.7	2.5	3.0	3.9	4.7	5.5
89.5°	1.1	1.5	1.9	2.5	3.1	3.6

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869708
CATALOG NUMBER: SMX18RLSFS010-2500LM-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)