

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: P869740

Luminaire Tested: **SMX18SLSFS010-2500LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869740
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFS010-2500LM-5000K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

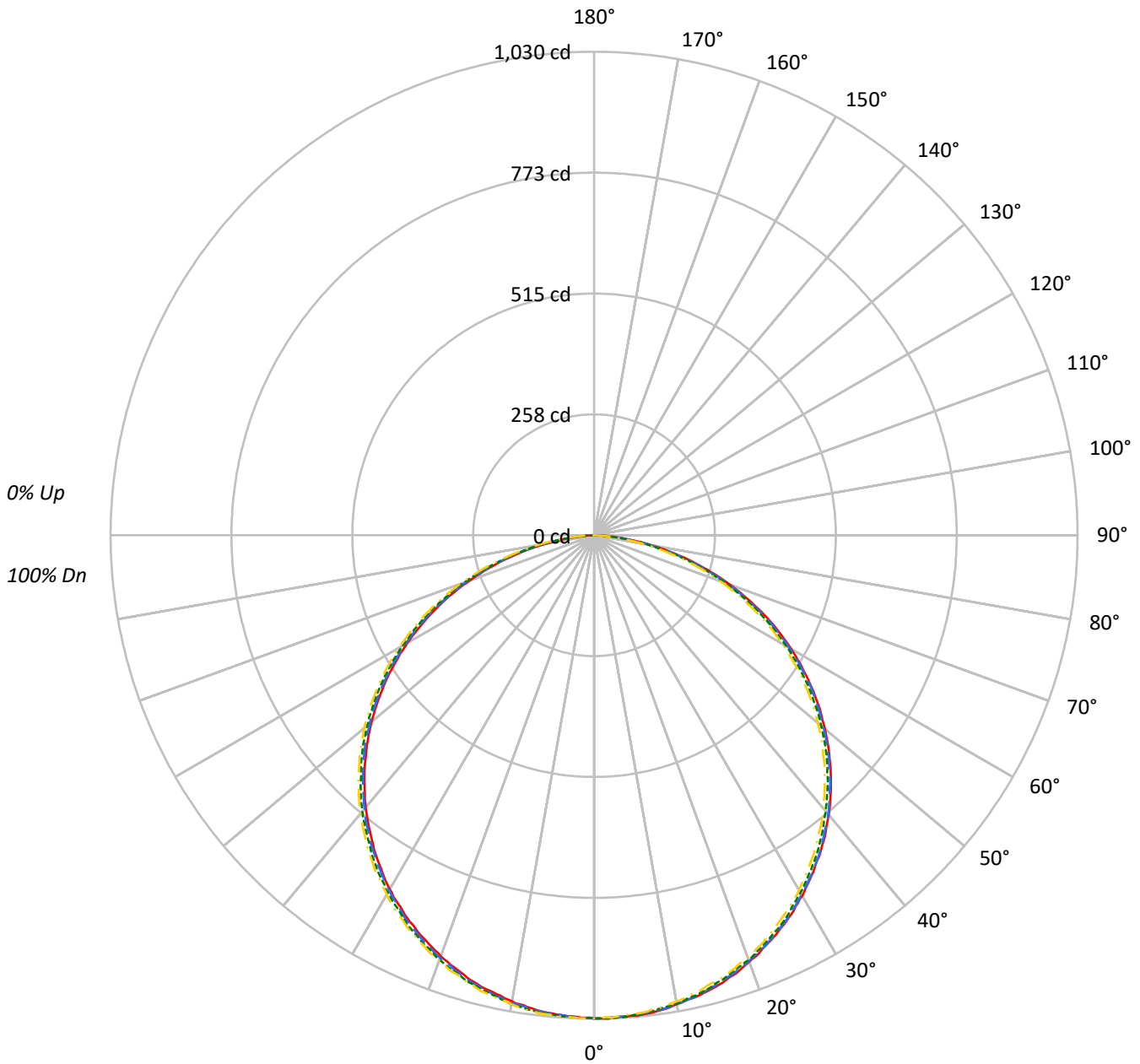
Lumens per Lamp: N/A
 Luminaire Lumens: 3005.0 lumens
 Efficiency: N/A
 Efficacy: 100.2 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 30
 Input Voltage (V): NR
 Input Current (A_{in}): 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	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	33	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°	4925	4925	4925	4925
5°	4934	4923	4911	4922
10°	4928	4923	4898	4926
15°	4938	4905	4881	4908
20°	4922	4905	4859	4900
25°	4912	4886	4831	4881
30°	4902	4857	4811	4853
35°	4882	4834	4772	4829
40°	4857	4794	4728	4796
45°	4823	4753	4672	4757
50°	4782	4701	4604	4690
55°	4722	4634	4521	4622
60°	4639	4528	4395	4508
65°	4520	4377	4214	4362
70°	4310	4144	3944	4125
75°	3993	3789	3532	3741
80°	3499	3207	2873	3149
85°	2679	2261	1773	2179

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	3.2
10°-20°	279.8	9.3
20°-30°	426.0	14.2
30°-40°	517.2	17.2
40°-50°	541.7	18.0
50°-60°	495.3	16.5
60°-70°	381.3	12.7
70°-80°	215.5	7.2
80°-90°	50.7	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°	803.3	26.7
0°-40°	1320.5	43.9
0°-60°	2357.5	78.5
0°-90°	3005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3005.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1029	1029	1029	1029	1029	
5°	1028	1025	1023	1025	1028	98
15°	997	990	986	991	997	281
25°	930	926	915	925	930	429
35°	836	828	817	827	836	522
45°	713	703	691	703	713	550
55°	566	556	542	554	566	506
65°	399	387	372	385	399	394
75°	216	205	191	202	216	229
85°	49	41	32	40	49	59
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°	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4
0.5°	1029.2	1028.9	1029.5	1028.7	1029.7	1030.6	1028.7	1029.4	1028.7	1029.2	1028.1
1°	1030.0	1028.2	1029.6	1029.3	1029.2	1029.6	1027.9	1028.6	1028.0	1028.8	1029.4
1.5°	1029.1	1029.1	1028.6	1029.3	1030.4	1029.4	1027.2	1028.3	1028.3	1027.9	1029.1
2°	1028.5	1027.8	1028.2	1029.1	1030.0	1029.0	1028.6	1027.2	1027.0	1027.1	1027.1
2.5°	1028.3	1028.8	1027.9	1029.1	1029.2	1029.0	1027.4	1027.1	1026.7	1026.7	1026.8
3°	1026.9	1029.0	1027.6	1028.0	1028.2	1028.0	1026.0	1027.7	1026.5	1025.6	1027.0
3.5°	1027.5	1029.2	1027.3	1027.9	1028.5	1027.1	1026.0	1027.0	1025.3	1025.4	1025.4
4°	1027.2	1028.0	1027.0	1028.1	1027.8	1026.5	1023.9	1026.0	1024.4	1025.8	1024.4
4.5°	1027.1	1027.9	1025.6	1027.8	1026.7	1026.2	1023.9	1024.0	1024.4	1024.8	1024.1
5°	1027.5	1027.0	1025.6	1026.2	1025.2	1025.8	1023.1	1023.5	1022.6	1022.3	1025.0
5.5°	1026.8	1026.2	1024.8	1024.5	1024.4	1024.5	1022.7	1021.9	1022.4	1021.1	1023.5
6°	1026.2	1026.2	1024.0	1024.7	1024.4	1022.4	1021.9	1021.6	1021.5	1020.2	1021.6
6.5°	1025.3	1025.8	1023.2	1022.9	1023.1	1022.7	1020.4	1020.2	1020.1	1019.3	1020.8
7°	1024.7	1025.0	1022.3	1022.5	1021.9	1021.3	1017.5	1018.3	1018.7	1017.6	1020.7
7.5°	1022.9	1022.6	1020.8	1020.5	1019.3	1020.5	1017.4	1017.2	1016.7	1016.4	1018.7
8°	1021.7	1020.5	1020.2	1020.2	1017.7	1019.2	1016.6	1015.4	1015.6	1015.1	1015.7
8.5°	1020.6	1019.1	1019.7	1017.6	1017.1	1017.8	1014.9	1014.4	1012.6	1014.1	1014.7
9°	1019.1	1017.4	1018.1	1017.0	1015.7	1016.5	1012.4	1013.1	1011.3	1012.0	1013.1
9.5°	1016.7	1016.8	1015.7	1014.7	1014.7	1015.0	1009.8	1010.5	1011.0	1010.6	1012.7
10°	1014.5	1014.6	1013.8	1014.0	1013.4	1013.1	1008.5	1008.6	1008.2	1009.9	1010.9
10.5°	1013.2	1013.2	1013.1	1011.3	1011.5	1010.3	1007.2	1006.7	1006.1	1007.6	1008.8
11°	1011.4	1011.4	1011.5	1010.5	1009.3	1008.8	1005.0	1006.1	1004.1	1004.6	1006.5
11.5°	1009.2	1010.5	1008.9	1007.7	1006.0	1007.3	1003.1	1003.5	1000.9	1003.4	1004.6
12°	1008.4	1007.9	1007.7	1005.6	1005.0	1005.7	1000.2	1002.5	999.6	1000.5	1003.5
12.5°	1006.6	1005.8	1006.8	1003.8	1003.7	1003.7	998.0	1000.4	996.8	998.5	1000.8
13°	1004.7	1005.4	1004.2	1001.4	1001.4	1001.3	996.4	997.4	995.0	996.8	997.6
13.5°	1002.7	1003.5	1000.8	999.5	999.3	998.6	993.7	995.7	994.0	994.9	994.6
14°	1000.8	1001.3	998.5	998.1	997.1	994.3	990.1	992.9	991.5	993.1	993.3
14.5°	998.5	998.1	995.8	994.7	994.3	992.9	987.5	989.7	988.4	989.9	990.9
15°	997.0	995.4	993.8	993.4	990.3	991.0	985.8	987.3	985.5	986.1	989.1
15.5°	993.7	993.2	991.5	990.1	988.1	988.0	983.9	984.2	983.4	983.4	986.7
16°	991.9	990.3	988.3	987.9	986.5	985.8	981.1	981.5	980.8	981.6	983.9
16.5°	988.8	987.6	985.7	984.6	983.0	983.2	978.2	978.9	976.5	978.9	980.9
17°	985.0	984.2	982.8	982.9	980.0	980.3	975.3	976.6	973.1	975.0	976.8
17.5°	982.9	981.8	980.4	978.6	976.4	977.2	972.7	973.6	970.3	971.6	974.1
18°	980.8	979.3	977.4	975.7	974.3	973.6	970.1	969.9	967.1	968.6	971.3
18.5°	977.3	976.5	974.6	972.5	970.5	970.8	965.3	965.9	964.7	965.5	967.0
19°	973.1	974.0	971.3	969.5	968.5	967.4	962.3	962.7	960.8	962.3	962.9
19.5°	970.0	971.2	969.0	966.3	965.0	964.4	959.6	959.2	958.0	959.0	960.5
20°	966.8	967.0	966.1	964.0	963.4	961.5	956.2	955.7	954.5	955.5	958.1
20.5°	963.2	963.1	961.5	959.9	959.6	957.7	953.2	952.3	950.0	951.9	955.7
21°	961.0	959.5	958.3	956.7	955.5	954.1	949.8	948.5	946.7	949.5	951.3
21.5°	957.6	956.7	955.5	954.4	951.7	950.4	946.0	944.6	942.9	946.1	947.0
22°	952.9	952.7	951.9	951.0	948.3	945.9	943.1	942.8	939.0	941.3	943.6

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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°	949.0	949.0	949.1	946.7	944.0	941.9	939.2	938.4	935.3	937.3	939.3
23°	945.7	945.2	945.0	942.4	940.3	939.5	934.8	935.0	931.6	934.2	935.9
23.5°	941.8	942.2	940.4	938.5	937.0	935.5	930.7	931.3	928.4	931.0	932.0
24°	938.2	938.7	936.4	935.6	932.5	931.3	927.0	926.3	924.4	926.0	928.2
24.5°	934.6	934.3	932.4	931.0	928.7	927.3	921.4	921.5	919.0	920.8	923.8
25°	930.5	929.4	928.7	926.7	925.7	923.1	917.4	918.3	915.2	916.8	919.1
25.5°	926.2	925.7	924.3	922.2	921.2	919.1	914.1	914.7	911.9	912.8	915.1
26°	922.6	922.0	920.2	918.2	917.9	914.9	909.6	910.2	907.5	909.2	912.2
26.5°	918.6	918.3	916.8	913.8	912.5	909.9	905.1	905.9	903.4	904.2	907.2
27°	914.0	913.9	912.6	909.8	908.6	905.0	901.2	901.4	898.0	899.3	901.9
27.5°	910.1	910.4	907.3	906.0	903.6	900.1	896.9	896.8	893.1	895.1	897.1
28°	906.1	904.3	903.0	901.9	897.6	895.8	892.3	891.2	889.5	892.1	892.8
28.5°	899.6	899.8	898.4	897.3	892.6	890.6	887.4	886.8	885.1	887.2	887.4
29°	895.8	895.7	893.4	892.4	888.7	887.0	882.8	882.2	881.0	882.6	883.3
29.5°	890.2	892.0	889.6	887.7	883.8	882.6	878.2	877.0	875.2	877.5	878.6
30°	887.4	886.9	884.3	882.2	879.3	876.5	873.0	871.9	871.0	871.9	873.6
30.5°	882.0	881.4	879.3	876.6	875.1	871.5	867.2	867.1	866.1	866.4	867.8
31°	876.2	875.7	874.4	872.1	869.4	866.1	862.1	861.4	860.9	861.6	863.7
31.5°	871.3	870.2	870.0	867.0	864.2	861.0	856.3	855.6	855.1	855.7	858.0
32°	866.3	865.9	864.0	862.6	858.8	857.0	851.2	851.2	849.7	850.6	852.9
32.5°	861.3	861.0	859.9	856.7	853.2	852.5	846.2	845.0	843.7	845.8	847.0
33°	856.5	856.0	855.4	852.1	848.9	846.9	841.2	839.8	838.4	840.3	842.5
33.5°	851.0	850.8	850.1	846.2	843.1	841.6	835.6	835.8	833.2	834.7	836.1
34°	844.9	846.3	844.4	841.0	838.8	835.5	830.7	830.7	827.6	829.6	831.0
34.5°	839.5	841.0	839.5	835.0	833.2	830.3	825.9	824.5	823.0	823.6	825.7
35°	835.9	835.4	834.1	829.2	827.7	824.9	819.5	818.6	817.1	818.4	820.7
35.5°	830.4	829.7	828.6	824.9	821.9	818.7	813.2	812.2	810.1	813.6	814.7
36°	823.8	823.7	823.0	819.4	816.3	811.8	807.7	808.1	804.5	807.9	809.8
36.5°	818.0	818.4	815.9	814.3	809.7	806.3	801.4	801.6	798.6	801.4	802.9
37°	813.3	813.2	810.5	807.6	803.9	800.7	795.6	796.3	792.5	794.7	796.7
37.5°	807.7	806.5	805.5	801.6	798.6	794.4	790.3	789.4	786.9	788.8	791.3
38°	801.7	800.9	799.1	796.6	792.4	788.5	785.1	782.4	781.4	783.7	785.8
38.5°	794.6	795.3	792.9	789.6	785.5	782.5	779.0	776.6	775.1	778.5	780.2
39°	789.1	788.6	787.9	783.7	779.2	777.4	772.3	771.0	768.9	772.4	773.9
39.5°	782.9	782.4	782.0	777.0	773.5	771.2	766.2	764.6	763.3	764.8	767.0
40°	777.8	776.1	776.0	770.9	767.6	764.6	760.4	758.5	757.1	758.7	760.5
40.5°	771.9	770.7	769.7	764.6	760.8	757.9	753.4	752.8	750.5	752.1	754.4
41°	765.5	764.6	762.7	759.6	754.9	751.5	746.4	745.8	744.4	745.0	748.2
41.5°	759.2	758.3	756.3	753.3	748.5	745.9	740.3	738.7	736.7	739.0	741.6
42°	752.5	751.3	750.0	746.6	742.4	738.4	733.8	732.7	730.3	732.5	735.1
42.5°	746.1	745.6	742.9	740.8	736.0	732.1	727.1	725.7	723.4	726.6	729.5
43°	739.6	739.8	736.2	733.4	729.5	726.8	720.5	719.7	717.3	719.2	722.0
43.5°	732.8	733.1	730.9	726.4	723.6	720.1	714.2	712.2	711.1	713.2	715.6
44°	726.4	725.8	724.1	719.7	716.8	712.4	707.6	705.7	704.6	706.7	708.7
44.5°	719.8	719.4	717.0	712.8	708.7	705.4	701.3	699.0	697.5	700.5	702.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	712.9	711.8	710.0	706.3	702.6	698.8	694.1	692.5	690.6	692.8	695.5
45.5°	706.6	705.7	702.9	700.6	696.3	692.8	687.6	685.3	683.2	686.4	688.5
46°	699.3	699.4	696.1	693.2	689.6	685.8	679.3	678.1	675.9	679.3	682.2
46.5°	691.7	691.3	689.4	685.3	682.8	678.8	672.8	671.0	668.9	672.5	675.0
47°	685.1	684.4	681.9	678.8	676.0	671.7	665.5	664.0	662.1	665.3	668.3
47.5°	678.3	677.3	674.5	671.2	668.4	664.3	658.3	656.9	655.5	657.4	660.6
48°	671.4	670.9	667.2	664.5	660.9	657.4	651.9	650.3	648.2	650.3	652.9
48.5°	663.4	663.4	660.6	657.4	653.0	649.7	644.4	643.2	641.2	642.6	646.5
49°	656.3	656.4	653.7	650.1	646.1	642.2	637.5	635.9	633.6	635.7	638.5
49.5°	649.2	649.5	646.3	642.8	638.5	634.4	629.7	628.3	626.1	628.8	630.4
50°	642.5	642.1	638.3	635.1	631.6	627.7	621.9	621.4	618.6	621.7	623.6
50.5°	634.4	634.4	631.1	627.5	624.8	621.1	615.0	613.8	610.9	613.6	616.4
51°	626.6	626.7	623.5	620.3	617.5	612.9	606.9	605.6	603.4	605.4	608.8
51.5°	619.6	619.4	616.5	612.8	610.2	605.0	600.4	597.8	595.8	598.2	601.0
52°	612.8	611.3	609.1	605.4	601.6	598.4	593.0	590.9	588.0	590.7	593.3
52.5°	605.2	604.1	601.4	597.9	593.3	590.4	585.6	583.4	580.7	582.4	585.6
53°	597.4	596.8	593.6	590.0	585.9	581.7	577.4	575.3	572.7	575.9	578.1
53.5°	589.1	588.8	586.0	582.9	578.5	574.0	569.9	566.6	565.2	568.1	570.2
54°	582.0	581.7	579.0	574.4	570.5	567.0	561.5	559.1	557.0	559.5	562.9
54.5°	574.8	573.8	571.1	566.4	563.6	559.5	552.6	550.8	550.0	551.2	554.8
55°	566.1	565.7	563.7	558.4	555.6	551.4	544.9	543.7	542.1	543.5	546.5
55.5°	557.9	557.2	555.1	551.1	547.4	542.7	537.4	535.1	533.7	535.5	538.0
56°	550.6	549.2	546.5	542.9	538.7	534.4	529.6	527.2	525.8	527.5	530.8
56.5°	542.3	541.8	539.1	534.4	530.9	526.1	521.2	519.9	517.6	520.1	522.8
57°	534.0	533.9	530.4	526.1	523.0	518.5	513.1	511.5	508.9	512.1	515.0
57.5°	526.0	525.7	522.8	518.1	515.1	510.7	504.4	502.4	500.9	503.4	506.5
58°	518.1	516.8	514.6	509.7	506.7	502.0	496.0	494.2	492.6	494.7	497.7
58.5°	509.6	508.3	505.9	501.5	498.0	493.1	487.7	486.1	484.7	486.2	489.4
59°	501.5	500.8	497.3	493.3	490.1	485.2	479.9	477.7	475.7	478.2	480.8
59.5°	493.5	492.2	489.5	485.7	481.9	476.9	471.4	469.7	467.4	470.3	472.4
60°	484.9	483.8	480.6	477.3	473.2	468.5	463.7	461.4	459.3	461.9	464.8
60.5°	476.6	475.1	472.2	468.9	463.9	460.4	455.1	452.9	450.9	452.6	456.3
61°	468.2	466.3	463.6	459.9	455.8	451.8	446.8	443.9	442.5	444.7	447.9
61.5°	458.9	457.8	455.1	451.1	447.3	443.1	438.4	435.0	433.3	435.8	439.2
62°	451.0	449.3	446.6	442.4	438.8	434.5	429.8	426.8	424.7	427.3	430.5
62.5°	442.1	440.8	437.8	434.0	429.9	426.2	420.8	418.1	415.9	418.6	421.5
63°	433.7	432.1	429.1	425.5	421.6	417.4	411.9	409.8	407.5	409.7	412.5
63.5°	425.8	423.1	420.6	416.2	413.3	408.7	403.5	400.8	399.2	400.7	404.5
64°	416.3	415.0	411.9	407.8	404.9	399.8	394.2	392.0	390.3	392.2	395.8
64.5°	407.8	406.2	403.2	398.7	395.4	391.2	385.0	383.0	381.0	383.0	386.8
65°	399.3	397.8	394.5	389.8	386.7	382.3	376.2	374.2	372.3	374.4	377.8
65.5°	390.5	388.8	385.9	380.6	378.0	373.2	367.2	365.5	363.7	365.7	369.1
66°	380.7	379.9	376.3	371.7	369.0	364.2	358.4	356.2	355.0	356.7	360.1
66.5°	371.5	370.6	367.3	363.1	359.9	355.4	349.3	347.4	346.1	347.5	350.8
67°	363.1	361.3	358.3	353.9	351.2	346.4	341.1	338.2	337.1	338.5	342.0

TEST NUMBER: P869740
 CATALOG NUMBER: SMX18SLSFS010-2500LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	353.8	352.3	349.1	344.5	342.2	337.5	332.1	329.0	328.1	329.4	332.6
68°	344.7	343.3	340.0	335.3	333.3	328.3	323.0	320.5	319.0	320.8	324.0
68.5°	335.6	334.3	331.2	326.8	324.0	319.3	313.7	311.5	309.6	311.4	315.2
69°	326.6	325.7	322.1	318.0	315.4	310.0	304.4	302.0	300.4	302.2	306.1
69.5°	317.8	316.6	312.9	308.0	305.8	300.4	295.3	292.5	291.3	292.7	297.1
70°	308.1	307.3	303.5	298.8	296.3	291.6	286.0	283.7	282.0	283.7	287.4
70.5°	298.9	298.2	294.2	289.8	287.5	282.8	277.4	274.8	273.3	275.0	278.6
71°	289.8	289.0	285.6	281.0	278.5	273.7	268.2	265.7	264.3	265.9	269.2
71.5°	280.9	280.0	276.2	271.1	269.0	264.4	258.8	256.2	254.9	256.7	260.0
72°	271.8	270.5	266.8	262.1	260.0	254.9	249.6	247.0	246.1	247.6	251.2
72.5°	262.7	260.8	257.3	253.1	250.8	246.0	240.7	238.2	236.8	238.6	242.0
73°	253.4	251.5	248.1	243.6	241.7	237.1	231.7	228.8	227.3	229.4	232.9
73.5°	243.8	242.3	239.3	234.5	232.3	227.5	222.6	219.6	218.2	220.8	223.6
74°	234.7	233.1	229.5	225.3	223.0	218.4	213.6	210.6	209.2	211.4	214.5
74.5°	225.4	223.9	220.6	215.7	214.2	209.5	204.4	201.7	200.3	202.2	205.3
75°	216.0	214.5	211.4	206.3	205.0	200.0	195.2	192.7	191.1	193.2	196.2
75.5°	207.0	205.7	202.2	197.5	195.8	191.1	186.6	183.3	182.3	184.6	187.4
76°	198.0	196.7	193.3	188.4	186.7	182.0	177.3	174.3	173.4	175.3	178.4
76.5°	188.8	187.5	184.2	179.3	177.9	173.0	168.3	165.8	164.3	166.2	169.3
77°	180.1	178.2	175.2	170.3	168.8	163.9	159.5	156.7	155.5	157.2	160.2
77.5°	171.1	169.2	166.4	161.5	159.7	155.0	150.7	147.8	146.7	148.6	151.6
78°	162.0	160.2	157.4	152.8	151.0	146.4	142.2	138.9	138.0	139.6	142.8
78.5°	153.1	151.4	148.6	144.0	142.4	137.5	133.1	130.5	129.4	131.0	134.0
79°	144.5	142.7	139.6	135.0	133.5	128.6	124.4	121.9	120.6	122.3	125.3
79.5°	135.8	134.1	131.1	126.5	124.8	120.3	116.1	113.7	112.5	114.3	117.0
80°	127.0	125.1	122.4	118.0	116.4	112.1	107.9	105.4	104.3	106.2	109.0
80.5°	118.6	116.8	114.2	109.7	108.4	103.8	99.9	97.3	96.0	98.1	101.0
81°	110.1	108.4	106.2	101.5	100.3	95.9	91.7	89.2	88.2	90.1	92.9
81.5°	101.8	100.4	97.8	93.4	92.1	87.8	83.8	81.5	80.6	82.0	84.8
82°	93.7	92.3	89.4	85.3	84.1	79.9	76.0	73.6	72.8	74.3	77.1
82.5°	85.5	84.4	81.3	77.2	76.3	72.2	68.8	66.3	65.3	66.9	69.5
83°	77.5	76.0	73.5	69.7	69.0	65.0	61.4	59.1	58.3	59.8	62.5
83.5°	70.1	68.5	65.9	62.6	61.6	57.7	54.2	52.1	51.3	52.7	55.1
84°	62.8	61.3	58.8	55.5	54.6	50.8	47.4	45.3	44.4	46.0	48.4
84.5°	55.8	54.4	52.1	48.7	47.8	44.2	40.9	38.8	38.3	39.7	41.8
85°	48.8	47.6	45.4	42.1	41.2	37.9	34.8	32.8	32.3	33.5	35.7
85.5°	42.2	41.1	39.1	36.0	35.0	31.7	28.8	27.3	26.9	27.8	29.8
86°	36.2	35.1	33.2	30.3	29.3	26.2	23.7	22.0	21.7	22.7	24.6
86.5°	30.4	29.6	27.9	25.3	24.0	21.5	19.3	18.0	17.5	18.8	20.1
87°	25.4	24.6	22.9	20.5	19.6	17.3	15.2	14.0	13.8	14.6	16.2
87.5°	20.6	19.8	18.4	16.2	15.4	13.3	11.3	10.2	10.2	11.0	12.3
88°	16.2	15.5	14.2	12.1	11.5	9.7	8.0	7.0	6.9	7.7	8.8
88.5°	12.1	11.4	10.4	8.6	8.4	6.5	5.1	4.2	4.0	4.7	5.8
89°	8.6	8.2	7.2	5.9	5.9	4.1	2.7	2.1	1.9	2.3	3.3
89.5°	6.0	5.7	4.8	3.7	3.3	2.0	0.9	1.9	1.6	2.1	1.2

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



TEST NUMBER: P869740
CATALOG NUMBER: SMX18SLSFS010-2500LM-5000K

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: P869740
 CATALOG NUMBER: SMX18SLSFS010-2500LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4
0.5°	1030.2	1028.1	1030.8	1028.8	1028.7	1029.2
1°	1029.3	1027.9	1031.2	1029.1	1028.5	1030.0
1.5°	1029.0	1029.1	1030.3	1029.1	1028.8	1029.1
2°	1028.3	1028.9	1029.2	1029.1	1030.2	1028.5
2.5°	1027.7	1027.3	1030.3	1028.3	1028.5	1028.3
3°	1028.8	1026.6	1030.2	1027.6	1029.4	1026.9
3.5°	1027.9	1027.6	1029.0	1027.1	1028.6	1027.5
4°	1027.6	1026.7	1028.9	1027.4	1027.3	1027.2
4.5°	1027.5	1025.6	1028.2	1026.9	1027.1	1027.1
5°	1026.8	1024.9	1028.5	1026.0	1026.5	1027.5
5.5°	1024.4	1023.9	1028.0	1025.6	1027.0	1026.8
6°	1023.1	1023.5	1028.1	1025.3	1025.3	1026.2
6.5°	1022.0	1023.8	1026.9	1025.2	1024.9	1025.3
7°	1021.5	1021.4	1025.8	1023.4	1024.5	1024.7
7.5°	1020.3	1021.2	1024.6	1022.8	1024.3	1022.9
8°	1018.8	1020.1	1022.0	1021.9	1022.8	1021.7
8.5°	1017.1	1018.0	1020.7	1020.4	1020.1	1020.6
9°	1015.7	1016.8	1020.4	1018.0	1019.8	1019.1
9.5°	1013.2	1015.5	1018.6	1016.7	1017.7	1016.7
10°	1011.9	1014.0	1016.2	1014.8	1015.7	1014.5
10.5°	1009.6	1011.8	1014.5	1011.4	1015.3	1013.2
11°	1008.1	1009.6	1012.5	1009.9	1012.6	1011.4
11.5°	1005.4	1007.0	1010.4	1008.8	1010.2	1009.2
12°	1003.3	1004.1	1009.2	1007.3	1008.5	1008.4
12.5°	1001.3	1002.7	1005.9	1004.6	1006.9	1006.6
13°	999.7	1000.1	1003.1	1003.4	1004.6	1004.7
13.5°	997.2	998.6	1001.4	1001.6	1002.4	1002.7
14°	995.5	996.0	1000.2	999.8	999.4	1000.8
14.5°	993.7	994.1	996.6	997.1	997.8	998.5
15°	991.0	991.0	993.8	993.6	996.6	997.0
15.5°	986.7	989.4	991.8	990.2	994.7	993.7
16°	983.9	987.1	989.2	988.8	991.4	991.9
16.5°	981.2	983.6	986.7	986.0	989.6	988.8
17°	979.1	979.5	983.7	982.1	986.6	985.0
17.5°	976.0	977.3	982.1	979.2	983.7	982.9
18°	972.6	975.2	979.1	977.9	980.8	980.8
18.5°	969.7	972.5	975.1	975.2	976.8	977.3
19°	966.2	968.8	971.0	971.1	973.0	973.1
19.5°	962.3	965.7	967.8	967.2	970.1	970.0
20°	959.6	962.4	965.0	963.9	966.6	966.8
20.5°	957.5	959.6	960.7	961.0	963.7	963.2
21°	954.2	955.2	957.6	958.6	960.6	961.0
21.5°	950.3	950.4	954.1	955.7	958.0	957.6
22°	946.2	946.7	950.3	951.5	955.0	952.9

TEST NUMBER: P869740
 CATALOG NUMBER: SMX18SLSFS010-2500LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	941.2	944.3	946.6	947.0	950.1	949.0
23°	937.9	940.7	943.6	943.5	945.6	945.7
23.5°	933.6	935.7	939.3	940.9	941.9	941.8
24°	930.0	931.9	936.4	935.6	938.0	938.2
24.5°	927.2	928.8	932.1	932.0	934.3	934.6
25°	922.8	924.7	927.8	929.1	931.4	930.5
25.5°	918.2	921.4	923.0	925.0	928.2	926.2
26°	914.2	915.5	919.0	920.4	922.9	922.6
26.5°	909.9	911.0	915.6	915.1	917.9	918.6
27°	904.8	906.3	911.9	911.2	914.1	914.0
27.5°	899.7	901.0	906.8	907.5	911.3	910.1
28°	895.4	896.4	901.6	904.0	906.5	906.1
28.5°	890.2	893.1	896.7	898.9	901.5	899.6
29°	886.5	888.6	893.2	894.2	895.5	895.8
29.5°	882.0	883.5	888.2	889.2	892.2	890.2
30°	878.0	878.6	882.8	883.6	887.9	887.4
30.5°	871.5	874.9	877.0	877.9	882.4	882.0
31°	866.3	867.9	872.7	873.9	877.2	876.2
31.5°	861.1	863.2	868.4	868.1	872.8	871.3
32°	857.1	858.5	863.6	863.3	868.4	866.3
32.5°	852.6	853.9	858.0	858.7	863.9	861.3
33°	846.9	848.7	853.3	854.8	858.1	856.5
33.5°	840.0	843.1	847.8	849.1	853.0	851.0
34°	835.2	837.7	841.9	842.9	847.0	844.9
34.5°	829.1	832.4	836.5	837.7	841.7	839.5
35°	823.8	826.9	831.1	832.7	836.4	835.9
35.5°	819.0	820.5	826.0	827.4	830.4	830.4
36°	813.3	814.2	819.9	821.7	824.4	823.8
36.5°	807.7	808.4	814.2	814.6	818.9	818.0
37°	801.9	802.6	809.1	809.1	812.9	813.3
37.5°	795.1	797.6	803.1	802.9	808.1	807.7
38°	788.8	791.4	797.4	797.7	802.5	801.7
38.5°	782.9	785.6	790.8	792.1	796.7	794.6
39°	776.6	780.2	785.4	786.1	789.2	789.1
39.5°	770.8	774.8	779.2	779.4	783.4	782.9
40°	764.4	768.0	773.1	774.5	776.9	777.8
40.5°	759.1	761.3	766.7	768.5	771.0	771.9
41°	753.3	755.6	760.2	762.3	764.3	765.5
41.5°	746.2	749.7	753.9	755.6	758.4	759.2
42°	739.9	742.8	748.0	748.6	753.0	752.5
42.5°	732.4	735.3	741.2	741.9	746.5	746.1
43°	725.6	729.5	733.6	736.0	740.3	739.6
43.5°	718.6	722.2	726.5	729.9	733.2	732.8
44°	712.5	714.8	719.7	722.7	726.6	726.4
44.5°	705.7	709.3	714.3	714.9	719.9	719.8

TEST NUMBER: P869740
 CATALOG NUMBER: SMX18SLSFS010-2500LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	698.9	703.1	707.9	708.1	712.3	712.9
45.5°	691.6	696.3	700.8	701.6	705.2	706.6
46°	684.9	689.2	694.1	695.0	698.7	699.3
46.5°	677.9	681.9	687.2	689.2	691.7	691.7
47°	670.7	674.9	680.3	681.9	684.8	685.1
47.5°	663.5	668.2	673.1	674.6	677.4	678.3
48°	656.6	660.9	666.0	667.5	670.8	671.4
48.5°	649.4	652.9	658.5	660.4	663.8	663.4
49°	641.9	645.5	650.8	653.1	656.4	656.3
49.5°	634.7	638.4	643.0	645.9	649.4	649.2
50°	627.3	630.1	635.3	639.1	641.9	642.5
50.5°	619.6	623.0	627.9	631.8	634.0	634.4
51°	612.6	616.3	621.2	623.6	626.8	626.6
51.5°	605.2	608.1	614.0	615.8	619.9	619.6
52°	597.8	600.3	606.7	608.0	612.8	612.8
52.5°	589.8	593.2	599.1	601.4	605.0	605.2
53°	582.0	585.8	591.6	594.1	598.0	597.4
53.5°	575.0	578.1	583.5	585.0	589.9	589.1
54°	566.7	570.1	575.8	577.4	582.0	582.0
54.5°	558.9	561.8	567.9	570.3	573.5	574.8
55°	551.1	554.1	559.7	562.3	566.3	566.1
55.5°	543.4	546.0	551.7	554.7	558.7	557.9
56°	535.4	538.1	543.9	546.6	550.6	550.6
56.5°	527.2	529.9	535.9	538.1	542.8	542.3
57°	518.6	521.5	527.5	530.0	534.5	534.0
57.5°	510.1	513.1	519.2	520.9	525.8	526.0
58°	502.3	505.0	510.7	513.4	518.1	518.1
58.5°	494.5	496.6	501.9	505.8	509.6	509.6
59°	486.3	488.6	493.7	497.7	501.5	501.5
59.5°	477.4	480.2	485.1	489.2	493.1	493.5
60°	469.5	471.2	477.3	480.5	484.9	484.9
60.5°	460.1	462.7	468.3	472.0	476.5	476.6
61°	451.6	454.0	460.1	463.2	467.7	468.2
61.5°	443.3	446.1	452.1	454.5	458.8	458.9
62°	434.6	437.6	443.6	446.0	450.4	451.0
62.5°	426.2	429.0	435.1	437.7	441.8	442.1
63°	417.3	419.8	426.1	428.6	433.6	433.7
63.5°	408.8	411.2	417.6	420.2	424.6	425.8
64°	400.0	402.9	408.8	411.3	415.1	416.3
64.5°	391.2	394.4	400.3	403.1	406.3	407.8
65°	382.4	385.3	390.8	394.4	397.7	399.3
65.5°	374.0	376.4	382.0	385.1	388.9	390.5
66°	365.0	366.9	373.1	376.3	380.0	380.7
66.5°	355.8	358.5	364.1	367.8	371.2	371.5
67°	346.7	349.5	355.1	358.9	362.7	363.1

TEST NUMBER: P869740
 CATALOG NUMBER: SMX18SLSFS010-2500LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	337.9	340.2	345.4	349.1	353.5	353.8
68°	328.6	330.8	336.6	340.5	344.5	344.7
68.5°	319.9	322.0	327.7	331.5	334.8	335.6
69°	311.4	313.3	318.1	322.0	325.8	326.6
69.5°	302.1	304.3	309.1	313.0	316.8	317.8
70°	292.7	294.9	299.9	304.3	307.6	308.1
70.5°	283.6	285.3	291.1	294.9	298.7	298.9
71°	274.3	276.1	281.8	285.4	289.5	289.8
71.5°	264.9	267.1	272.4	276.7	280.4	280.9
72°	255.6	258.1	263.4	267.3	270.8	271.8
72.5°	247.0	248.5	254.2	257.8	261.4	262.7
73°	237.7	239.0	244.7	248.4	252.2	253.4
73.5°	228.7	230.3	236.1	239.4	243.1	243.8
74°	219.6	220.8	226.5	229.9	233.9	234.7
74.5°	210.6	211.7	217.2	221.1	224.5	225.4
75°	201.2	202.4	207.9	212.0	215.0	216.0
75.5°	192.3	193.5	199.1	202.8	205.9	207.0
76°	183.2	184.4	189.7	193.5	196.9	198.0
76.5°	174.1	175.5	180.8	184.6	187.7	188.8
77°	165.0	166.2	171.7	175.3	178.8	180.1
77.5°	156.0	157.6	162.7	166.8	170.2	171.1
78°	147.3	148.8	154.0	157.9	161.2	162.0
78.5°	138.5	140.1	145.5	149.3	152.4	153.1
79°	130.1	131.5	136.6	140.3	143.3	144.5
79.5°	121.3	123.0	127.9	131.7	134.8	135.8
80°	113.0	114.3	119.2	122.8	126.2	127.0
80.5°	105.0	106.2	111.2	114.6	117.7	118.6
81°	97.0	98.1	102.9	106.5	109.4	110.1
81.5°	89.0	89.9	94.7	98.2	101.0	101.8
82°	81.1	81.8	86.6	90.1	92.9	93.7
82.5°	73.5	74.2	78.6	81.9	84.9	85.5
83°	66.4	66.8	70.8	74.0	77.1	77.5
83.5°	58.9	59.4	63.4	66.6	69.5	70.1
84°	52.0	52.5	56.5	59.3	61.9	62.8
84.5°	45.3	45.9	49.6	52.5	55.1	55.8
85°	39.0	39.7	43.2	46.0	48.1	48.8
85.5°	32.8	33.5	37.0	39.7	41.7	42.2
86°	27.3	28.2	31.0	33.6	35.8	36.2
86.5°	22.4	23.2	25.9	28.2	30.0	30.4
87°	18.3	18.7	21.1	23.1	24.8	25.4
87.5°	14.3	14.6	16.9	18.6	20.1	20.6
88°	10.7	10.5	12.6	14.6	15.9	16.2
88.5°	7.3	7.1	8.6	10.4	11.7	12.1
89°	4.6	4.7	5.9	7.1	8.1	8.6
89.5°	2.2	2.6	3.6	4.5	5.7	6.0

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869740
CATALOG NUMBER: SMX18SLSFS010-2500LM-5000K

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)