

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: P869754

Luminaire Tested: **SMX18SLSFSD2W-2500LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869754
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFSD2W-2500LM-4000K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

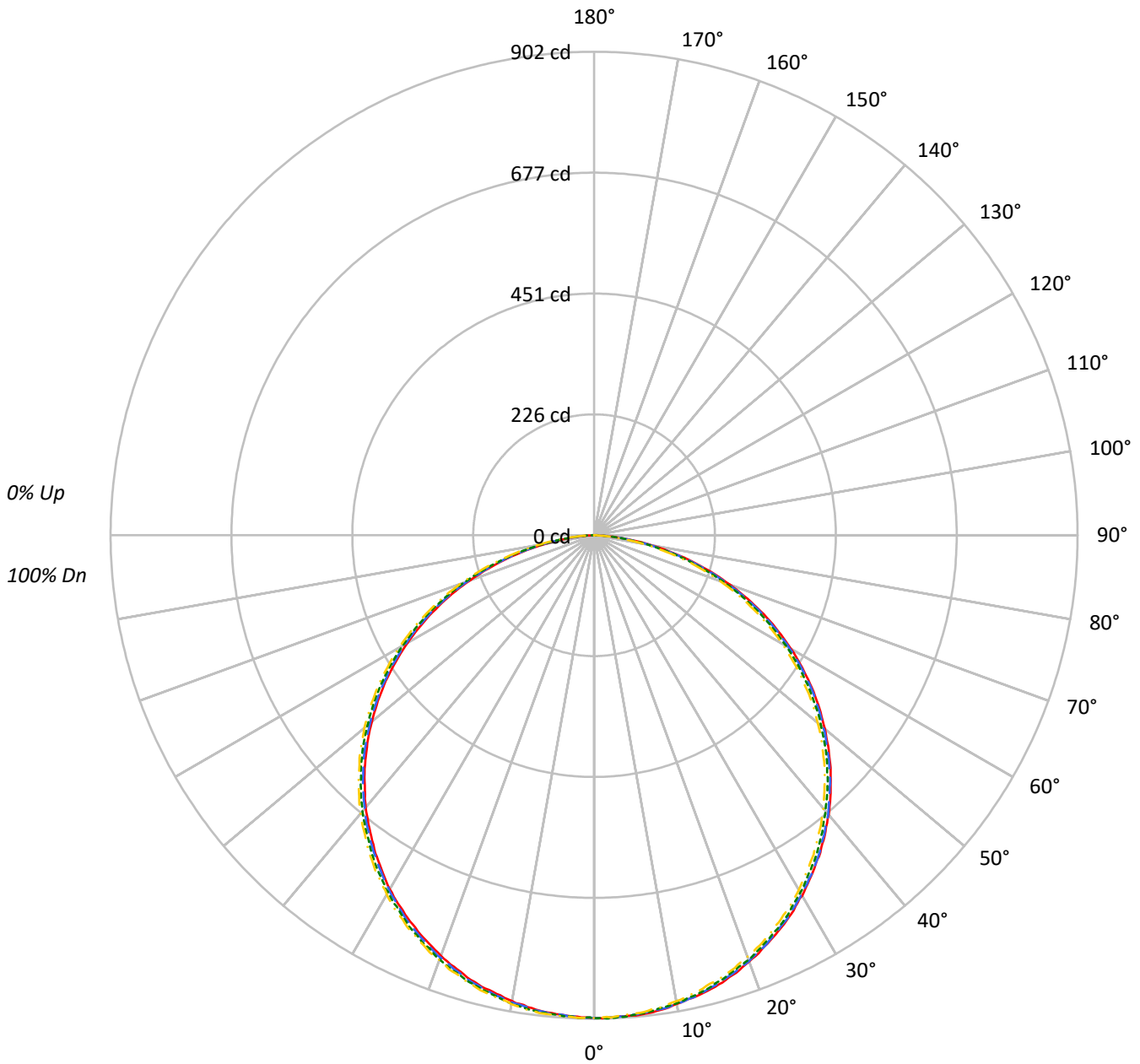
Lumens per Lamp: N/A
 Luminaire Lumens: 2630.0 lumens
 Efficiency: N/A
 Efficacy: 87.7 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4310	4310	4310	4310
5°	4319	4309	4298	4308
10°	4313	4309	4286	4311
15°	4321	4293	4272	4295
20°	4308	4292	4253	4288
25°	4299	4276	4228	4272
30°	4291	4251	4211	4248
35°	4273	4231	4176	4227
40°	4252	4195	4139	4197
45°	4222	4161	4089	4163
50°	4185	4113	4029	4105
55°	4133	4056	3958	4044
60°	4061	3963	3845	3946
65°	3956	3831	3689	3818
70°	3771	3627	3452	3610
75°	3493	3316	3090	3275
80°	3064	2807	2515	2758
85°	2344	1976	1553	1905

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	3.2
10°-20°	244.9	9.3
20°-30°	372.9	14.2
30°-40°	452.7	17.2
40°-50°	474.1	18.0
50°-60°	433.5	16.5
60°-70°	333.7	12.7
70°-80°	188.6	7.2
80°-90°	44.4	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°	703.0	26.7
0°-40°	1155.7	43.9
0°-60°	2063.3	78.5
0°-90°	2630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2630.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	901	901	901	901	901	
5°	899	897	895	897	899	85
15°	872	867	862	867	872	246
25°	814	810	801	809	814	375
35°	732	724	715	724	732	457
45°	624	615	604	615	624	481
55°	496	486	474	485	496	443
65°	350	338	326	337	350	345
75°	189	179	167	177	189	200
85°	43	36	28	35	43	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°	900.9	900.9	900.9	900.9	900.9	900.9	900.9	900.9	900.9	900.9	900.9
0.5°	900.8	900.5	901.0	900.3	901.2	901.9	900.3	900.9	900.3	900.8	899.8
1°	901.5	899.9	901.1	900.8	900.8	901.1	899.6	900.2	899.7	900.4	900.9
1.5°	900.7	900.7	900.2	900.8	901.9	900.9	899.0	900.0	900.0	899.6	900.7
2°	900.1	899.6	899.9	900.7	901.5	900.6	900.2	899.0	898.8	898.9	898.9
2.5°	900.0	900.4	899.6	900.7	900.8	900.6	899.2	898.9	898.5	898.5	898.6
3°	898.7	900.6	899.4	899.7	899.9	899.7	898.0	899.5	898.4	897.6	898.8
3.5°	899.3	900.8	899.1	899.6	900.1	898.9	898.0	898.8	897.4	897.4	897.4
4°	899.0	899.7	898.8	899.8	899.6	898.4	896.2	898.0	896.5	897.8	896.5
4.5°	898.9	899.6	897.6	899.6	898.5	898.2	896.2	896.2	896.5	896.9	896.3
5°	899.3	898.8	897.6	898.2	897.3	897.8	895.4	895.8	895.0	894.7	897.1
5.5°	898.6	898.2	896.9	896.6	896.5	896.6	895.1	894.4	894.8	893.7	895.8
6°	898.2	898.2	896.2	896.8	896.5	894.8	894.4	894.1	894.0	892.8	894.1
6.5°	897.4	897.8	895.5	895.2	895.4	895.1	893.0	892.8	892.8	892.1	893.4
7°	896.8	897.1	894.7	894.9	894.4	893.9	890.6	891.2	891.6	890.6	893.3
7.5°	895.2	895.0	893.4	893.1	892.1	893.1	890.5	890.3	889.8	889.5	891.6
8°	894.2	893.1	892.8	892.8	890.7	892.0	889.7	888.7	888.9	888.4	889.0
8.5°	893.2	891.9	892.5	890.6	890.2	890.8	888.3	887.8	886.2	887.5	888.1
9°	891.9	890.5	891.0	890.1	889.0	889.6	886.0	886.7	885.1	885.7	886.7
9.5°	889.8	889.9	889.0	888.1	888.1	888.3	883.8	884.4	884.9	884.5	886.3
10°	887.9	888.0	887.2	887.4	887.0	886.7	882.6	882.7	882.4	883.8	884.8
10.5°	886.8	886.8	886.7	885.1	885.3	884.2	881.5	881.1	880.5	881.8	882.9
11°	885.2	885.2	885.3	884.4	883.4	882.9	879.6	880.5	878.8	879.2	880.9
11.5°	883.3	884.4	883.0	881.9	880.4	881.6	878.0	878.2	876.0	878.1	879.2
12°	882.6	882.1	881.9	880.1	879.6	880.2	875.4	877.4	874.8	875.7	878.2
12.5°	881.0	880.3	881.2	878.5	878.4	878.4	873.5	875.6	872.4	873.9	875.9
13°	879.3	879.9	878.9	876.4	876.4	876.3	872.1	872.9	870.8	872.4	873.1
13.5°	877.6	878.2	875.9	874.7	874.6	874.0	869.7	871.4	870.0	870.7	870.5
14°	875.9	876.3	873.9	873.6	872.6	870.2	866.6	869.0	867.8	869.1	869.3
14.5°	873.9	873.6	871.5	870.6	870.2	869.0	864.3	866.2	865.1	866.4	867.2
15°	872.5	871.2	869.8	869.4	866.8	867.3	862.8	864.1	862.5	863.1	865.6
15.5°	869.7	869.2	867.8	866.6	864.8	864.7	861.1	861.4	860.7	860.7	863.5
16°	868.1	866.8	865.0	864.6	863.4	862.8	858.7	859.0	858.4	859.1	861.1
16.5°	865.4	864.4	862.7	861.7	860.3	860.5	856.1	856.7	854.6	856.7	858.5
17°	862.1	861.4	860.1	860.2	857.7	857.9	853.6	854.7	851.7	853.3	854.9
17.5°	860.2	859.3	858.0	856.5	854.5	855.3	851.3	852.1	849.2	850.4	852.5
18°	858.4	857.1	855.4	854.0	852.7	852.1	849.0	848.8	846.4	847.7	850.1
18.5°	855.4	854.6	853.0	851.1	849.4	849.7	844.9	845.3	844.3	845.0	846.4
19°	851.7	852.4	850.1	848.6	847.6	846.7	842.2	842.6	840.9	842.2	842.8
19.5°	848.9	850.0	848.1	845.7	844.6	844.1	839.8	839.5	838.4	839.4	840.7
20°	846.2	846.4	845.5	843.7	843.1	841.5	836.9	836.4	835.4	836.2	838.5
20.5°	843.0	843.0	841.5	840.1	839.8	838.2	834.2	833.5	831.5	833.1	836.4
21°	841.1	839.7	838.7	837.3	836.2	835.0	831.3	830.2	828.5	831.0	832.6
21.5°	838.1	837.3	836.2	835.3	832.9	831.8	828.0	826.7	825.2	828.1	828.8
22°	833.9	833.9	833.1	832.3	830.0	827.9	825.4	825.1	821.8	823.8	825.9

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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°	830.5	830.5	830.6	828.5	826.2	824.4	822.0	821.3	818.6	820.3	822.1
23°	827.7	827.2	827.1	824.8	822.9	822.3	818.1	818.3	815.4	817.6	819.2
23.5°	824.3	824.7	823.0	821.4	820.1	818.8	814.6	815.1	812.5	814.8	815.7
24°	821.1	821.5	819.5	818.9	816.1	815.1	811.3	810.7	809.0	810.4	812.3
24.5°	818.0	817.7	816.0	814.8	812.8	811.6	806.4	806.5	804.4	805.9	808.5
25°	814.4	813.5	812.8	811.1	810.1	807.9	802.9	803.7	801.0	802.4	804.4
25.5°	810.6	810.1	808.9	807.1	806.3	804.4	800.0	800.6	798.1	798.9	800.9
26°	807.5	806.9	805.4	803.6	803.3	800.8	796.1	796.6	794.2	795.7	798.4
26.5°	804.0	803.7	802.4	799.8	798.7	796.4	792.1	792.9	790.7	791.4	794.0
27°	799.9	799.9	798.7	796.3	795.3	792.0	788.7	788.9	786.0	787.1	789.4
27.5°	796.5	796.8	794.1	793.0	790.8	787.8	785.0	784.9	781.7	783.4	785.1
28°	793.1	791.5	790.3	789.4	785.6	784.0	780.9	780.0	778.5	780.7	781.4
28.5°	787.4	787.5	786.3	785.3	781.2	779.5	776.7	776.1	774.7	776.5	776.7
29°	784.0	784.0	781.9	781.0	777.8	776.3	772.7	772.1	771.1	772.5	773.1
29.5°	779.1	780.6	778.6	776.9	773.5	772.5	768.6	767.6	765.9	768.0	769.0
30°	776.7	776.2	773.9	772.1	769.5	767.1	764.0	763.1	762.3	763.1	764.6
30.5°	771.9	771.4	769.5	767.2	765.9	762.7	759.0	758.9	758.0	758.3	759.5
31°	766.9	766.4	765.3	763.3	760.9	758.0	754.5	753.9	753.4	754.1	755.9
31.5°	762.5	761.6	761.4	758.8	756.4	753.5	749.4	748.9	748.4	748.9	751.0
32°	758.2	757.9	756.2	754.9	751.6	750.0	745.0	745.0	743.7	744.4	746.5
32.5°	753.8	753.5	752.6	749.8	746.7	746.1	740.6	739.6	738.4	740.2	741.3
33°	749.6	749.2	748.7	745.7	743.0	741.2	736.3	735.0	733.8	735.4	737.4
33.5°	744.8	744.6	744.0	740.6	737.9	736.5	731.3	731.5	729.2	730.6	731.8
34°	739.5	740.7	739.0	736.1	734.1	731.2	727.1	727.1	724.3	726.1	727.3
34.5°	734.7	736.1	734.7	730.8	729.2	726.7	722.8	721.6	720.3	720.8	722.7
35°	731.6	731.1	730.0	725.7	724.4	721.9	717.2	716.4	715.1	716.2	718.2
35.5°	726.8	726.2	725.2	721.9	719.4	716.5	711.7	710.8	709.0	712.1	713.0
36°	721.0	720.9	720.3	717.1	714.4	710.5	706.9	707.2	704.1	707.0	708.8
36.5°	716.0	716.2	714.1	712.6	708.7	705.7	701.4	701.5	699.0	701.4	702.7
37°	711.8	711.7	709.3	706.9	703.5	700.8	696.3	696.9	693.6	695.6	697.3
37.5°	706.9	705.8	705.0	701.5	699.0	695.3	691.7	690.9	688.7	690.4	692.5
38°	701.6	701.0	699.4	697.2	693.5	690.1	687.1	684.8	683.9	685.9	687.7
38.5°	695.5	696.0	694.0	691.0	687.5	684.9	681.8	679.7	678.4	681.3	682.9
39°	690.6	690.2	689.6	685.9	682.0	680.4	675.9	674.8	672.9	676.0	677.4
39.5°	685.2	684.8	684.4	680.0	677.0	675.0	670.6	669.2	668.1	669.4	671.3
40°	680.8	679.3	679.2	674.7	671.8	669.2	665.5	663.8	662.7	664.0	665.6
40.5°	675.6	674.5	673.7	669.2	665.9	663.3	659.3	658.9	656.9	658.2	660.3
41°	670.0	669.2	667.5	664.8	660.7	657.7	653.3	652.7	651.5	652.0	654.8
41.5°	664.5	663.7	661.9	659.3	655.1	652.8	648.0	646.5	644.7	646.8	649.1
42°	658.6	657.5	656.4	653.5	649.8	646.3	642.3	641.2	639.1	641.1	643.4
42.5°	653.0	652.5	650.2	648.3	644.2	640.8	636.4	635.2	633.2	635.9	638.5
43°	647.3	647.5	644.4	641.9	638.5	636.1	630.6	629.8	627.8	629.5	631.9
43.5°	641.3	641.6	639.7	635.7	633.3	630.2	625.1	623.3	622.4	624.2	626.3
44°	635.7	635.3	633.7	629.8	627.4	623.5	619.3	617.6	616.7	618.5	620.3
44.5°	629.9	629.7	627.5	623.9	620.3	617.3	613.8	611.7	610.5	613.1	614.6

TEST NUMBER: P869754
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	624.0	623.0	621.4	618.2	615.0	611.6	607.5	606.0	604.4	606.3	608.7
45.5°	618.5	617.6	615.1	613.2	609.4	606.3	601.8	599.8	598.0	600.7	602.6
46°	612.0	612.1	609.3	606.7	603.6	600.3	594.6	593.5	591.5	594.6	597.0
46.5°	605.4	605.0	603.4	599.8	597.6	594.1	588.9	587.3	585.5	588.6	590.8
47°	599.6	599.0	596.8	594.1	591.6	587.9	582.4	581.1	579.5	582.2	584.9
47.5°	593.6	592.8	590.3	587.5	585.0	581.4	576.2	574.9	573.7	575.4	578.2
48°	587.6	587.2	583.9	581.6	578.4	575.4	570.6	569.1	567.3	569.1	571.4
48.5°	580.6	580.6	578.2	575.4	571.5	568.6	564.0	562.9	561.2	562.4	565.8
49°	574.4	574.5	572.1	569.0	565.4	562.0	558.0	556.5	554.5	556.3	558.8
49.5°	568.2	568.5	565.6	562.6	558.8	555.2	551.1	549.9	548.0	550.4	551.7
50°	562.3	561.9	558.6	555.9	552.7	549.3	544.3	543.8	541.4	544.1	545.8
50.5°	555.2	555.2	552.4	549.2	546.9	543.6	538.2	537.2	534.6	537.0	539.5
51°	548.4	548.5	545.7	542.9	540.4	536.4	531.2	530.0	528.1	529.9	532.8
51.5°	542.3	542.1	539.6	536.3	534.1	529.5	525.5	523.2	521.4	523.5	526.0
52°	536.3	535.0	533.1	529.9	526.6	523.7	519.0	517.2	514.6	517.0	519.3
52.5°	529.7	528.7	526.4	523.2	519.3	516.7	512.5	510.6	508.3	509.7	512.5
53°	522.9	522.3	519.5	516.4	512.8	509.1	505.3	503.5	501.2	504.0	506.0
53.5°	515.6	515.3	512.9	510.2	506.3	502.4	498.8	495.9	494.7	497.2	499.1
54°	509.4	509.1	506.7	502.8	499.3	496.2	491.5	489.3	487.5	489.7	492.6
54.5°	503.0	502.2	499.8	495.7	493.3	489.7	483.6	482.1	481.3	482.4	485.6
55°	495.5	495.1	493.4	488.7	486.3	482.6	476.9	475.8	474.5	475.6	478.3
55.5°	488.2	487.7	485.8	482.4	479.0	475.0	470.3	468.3	467.1	468.7	470.9
56°	481.9	480.7	478.3	475.2	471.5	467.7	463.5	461.4	460.2	461.7	464.5
56.5°	474.6	474.2	471.8	467.7	464.6	460.5	456.2	455.1	453.0	455.2	457.5
57°	467.4	467.3	464.3	460.5	457.7	453.8	449.1	447.7	445.4	448.2	450.7
57.5°	460.4	460.1	457.5	453.4	450.8	447.0	441.5	439.7	438.4	440.5	443.3
58°	453.4	452.3	450.4	446.1	443.5	439.3	434.1	432.5	431.2	433.0	435.6
58.5°	446.0	444.9	442.7	438.9	435.9	431.5	426.9	425.5	424.2	425.6	428.3
59°	438.9	438.3	435.2	431.7	429.0	424.6	420.1	418.1	416.4	418.5	420.8
59.5°	431.9	430.8	428.4	425.1	421.8	417.4	412.6	411.0	409.1	411.6	413.4
60°	424.4	423.5	420.6	417.8	414.2	410.0	405.8	403.8	401.9	404.2	406.8
60.5°	417.1	415.8	413.3	410.4	406.0	403.0	398.3	396.3	394.6	396.2	399.4
61°	409.8	408.1	405.7	402.5	398.9	395.4	391.0	388.5	387.2	389.2	392.0
61.5°	401.7	400.7	398.3	394.8	391.5	387.8	383.7	380.7	379.2	381.5	384.4
62°	394.7	393.2	390.8	387.2	384.0	380.3	376.1	373.6	371.7	374.0	376.8
62.5°	387.0	385.8	383.2	379.8	376.2	373.0	368.3	365.9	364.0	366.4	368.9
63°	379.6	378.1	375.6	372.4	369.0	365.3	360.5	358.7	356.6	358.6	361.1
63.5°	372.6	370.3	368.1	364.3	361.7	357.7	353.2	350.8	349.4	350.7	354.0
64°	364.4	363.2	360.5	356.9	354.3	349.9	345.0	343.0	341.6	343.2	346.4
64.5°	356.9	355.5	352.9	348.9	346.1	342.4	337.0	335.2	333.5	335.2	338.5
65°	349.5	348.2	345.2	341.1	338.4	334.6	329.3	327.5	325.9	327.7	330.6
65.5°	341.8	340.3	337.7	333.1	330.8	326.6	321.4	319.9	318.3	320.1	323.0
66°	333.2	332.5	329.4	325.3	322.9	318.8	313.6	311.7	310.7	312.2	315.2
66.5°	325.1	324.4	321.4	317.8	315.0	311.1	305.7	304.1	302.9	304.2	307.0
67°	317.8	316.2	313.5	309.8	307.4	303.2	298.6	296.0	295.1	296.3	299.3

TEST NUMBER: P869754
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	309.7	308.3	305.6	301.5	299.5	295.3	290.7	287.9	287.2	288.3	291.1
68°	301.7	300.5	297.6	293.4	291.7	287.4	282.7	280.5	279.2	280.7	283.6
68.5°	293.7	292.6	289.8	286.0	283.6	279.5	274.6	272.7	271.0	272.6	275.9
69°	285.9	285.1	281.9	278.3	276.1	271.3	266.4	264.3	262.9	264.5	267.9
69.5°	278.2	277.1	273.8	269.5	267.6	262.9	258.4	256.0	254.9	256.2	260.1
70°	269.6	269.0	265.7	261.5	259.3	255.2	250.3	248.3	246.8	248.3	251.5
70.5°	261.6	261.0	257.5	253.6	251.6	247.5	242.8	240.5	239.2	240.7	243.8
71°	253.6	252.9	250.0	245.9	243.7	239.6	234.7	232.6	231.3	232.7	235.6
71.5°	245.8	245.1	241.8	237.3	235.4	231.4	226.5	224.2	223.1	224.7	227.5
72°	237.9	236.7	233.5	229.4	227.5	223.1	218.4	216.1	215.4	216.7	219.8
72.5°	229.9	228.3	225.2	221.6	219.5	215.3	210.6	208.5	207.2	208.8	211.8
73°	221.7	220.1	217.1	213.2	211.5	207.5	202.8	200.2	199.0	200.8	203.8
73.5°	213.4	212.1	209.4	205.2	203.3	199.1	194.8	192.2	191.0	193.3	195.7
74°	205.4	204.0	200.9	197.2	195.2	191.1	186.9	184.3	183.1	185.0	187.7
74.5°	197.3	195.9	193.1	188.8	187.5	183.3	178.9	176.5	175.3	177.0	179.7
75°	189.0	187.7	185.0	180.6	179.4	175.1	170.8	168.6	167.2	169.1	171.8
75.5°	181.1	180.0	177.0	172.9	171.4	167.2	163.3	160.4	159.5	161.6	164.0
76°	173.3	172.1	169.2	164.9	163.4	159.3	155.2	152.5	151.7	153.5	156.1
76.5°	165.2	164.1	161.2	157.0	155.7	151.4	147.3	145.1	143.8	145.5	148.1
77°	157.6	155.9	153.4	149.1	147.8	143.4	139.6	137.1	136.1	137.6	140.2
77.5°	149.8	148.0	145.7	141.3	139.8	135.6	131.9	129.4	128.4	130.0	132.7
78°	141.8	140.2	137.8	133.7	132.1	128.1	124.4	121.6	120.7	122.2	125.0
78.5°	134.0	132.5	130.0	126.0	124.6	120.4	116.5	114.2	113.2	114.7	117.3
79°	126.4	124.9	122.2	118.2	116.8	112.6	108.9	106.7	105.6	107.1	109.6
79.5°	118.8	117.3	114.8	110.7	109.3	105.3	101.6	99.5	98.4	100.1	102.4
80°	111.2	109.4	107.1	103.3	101.9	98.1	94.5	92.3	91.3	92.9	95.4
80.5°	103.8	102.2	100.0	96.0	94.8	90.9	87.4	85.2	84.0	85.8	88.4
81°	96.4	94.8	92.9	88.9	87.8	83.9	80.2	78.1	77.2	78.8	81.3
81.5°	89.1	87.9	85.6	81.8	80.6	76.8	73.3	71.3	70.6	71.8	74.3
82°	82.0	80.8	78.2	74.6	73.6	69.9	66.5	64.4	63.7	65.1	67.5
82.5°	74.8	73.9	71.1	67.5	66.8	63.2	60.2	58.0	57.2	58.5	60.8
83°	67.8	66.5	64.3	61.0	60.4	56.9	53.8	51.7	51.0	52.4	54.7
83.5°	61.4	59.9	57.7	54.8	53.9	50.5	47.4	45.6	44.9	46.1	48.2
84°	55.0	53.7	51.5	48.6	47.8	44.5	41.4	39.6	38.9	40.2	42.4
84.5°	48.8	47.6	45.6	42.6	41.8	38.7	35.8	34.0	33.5	34.7	36.6
85°	42.7	41.6	39.7	36.8	36.0	33.2	30.4	28.7	28.3	29.3	31.2
85.5°	36.9	35.9	34.2	31.5	30.6	27.8	25.2	23.9	23.5	24.4	26.1
86°	31.7	30.7	29.0	26.6	25.6	23.0	20.8	19.3	19.0	19.8	21.5
86.5°	26.6	25.9	24.4	22.1	21.0	18.8	16.9	15.7	15.3	16.4	17.6
87°	22.2	21.5	20.0	17.9	17.2	15.2	13.3	12.2	12.0	12.8	14.2
87.5°	18.0	17.4	16.1	14.2	13.5	11.7	9.9	8.9	8.9	9.6	10.8
88°	14.2	13.6	12.4	10.6	10.1	8.5	7.0	6.2	6.1	6.7	7.7
88.5°	10.6	10.0	9.1	7.5	7.4	5.7	4.5	3.7	3.5	4.1	5.1
89°	7.5	7.2	6.3	5.1	5.1	3.6	2.4	1.8	1.7	2.0	2.8
89.5°	5.2	5.0	4.2	3.2	2.8	1.7	0.8	1.7	1.4	1.8	1.0

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



TEST NUMBER: P869754
CATALOG NUMBER: SMX18SLSFSD2W-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: P869754
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	900.9	900.9	900.9	900.9	900.9	900.9
0.5°	901.7	899.8	902.1	900.4	900.3	900.8
1°	900.8	899.6	902.5	900.7	900.1	901.5
1.5°	900.6	900.7	901.8	900.7	900.4	900.7
2°	900.0	900.5	900.8	900.7	901.7	900.1
2.5°	899.5	899.1	901.8	900.0	900.1	900.0
3°	900.4	898.5	901.7	899.4	900.9	898.7
3.5°	899.6	899.4	900.6	898.9	900.2	899.3
4°	899.4	898.5	900.5	899.2	899.1	899.0
4.5°	899.3	897.6	899.9	898.7	898.9	898.9
5°	898.6	897.0	900.1	898.0	898.4	899.3
5.5°	896.5	896.2	899.7	897.6	898.8	898.6
6°	895.4	895.8	899.8	897.4	897.4	898.2
6.5°	894.5	896.1	898.7	897.3	897.0	897.4
7°	894.0	894.0	897.8	895.7	896.6	896.8
7.5°	892.9	893.8	896.7	895.1	896.4	895.2
8°	891.7	892.8	894.5	894.4	895.1	894.2
8.5°	890.2	890.9	893.3	893.0	892.8	893.2
9°	889.0	889.9	893.0	890.9	892.6	891.9
9.5°	886.8	888.8	891.5	889.8	890.7	889.8
10°	885.6	887.4	889.4	888.2	889.0	887.9
10.5°	883.6	885.5	887.9	885.2	888.6	886.8
11°	882.3	883.6	886.1	883.8	886.2	885.2
11.5°	879.9	881.4	884.3	882.9	884.1	883.3
12°	878.1	878.8	883.3	881.6	882.6	882.6
12.5°	876.3	877.6	880.4	879.2	881.3	881.0
13°	874.9	875.3	878.0	878.1	879.2	879.3
13.5°	872.7	874.0	876.4	876.6	877.3	877.6
14°	871.3	871.7	875.4	875.0	874.7	875.9
14.5°	869.7	870.1	872.3	872.6	873.3	873.9
15°	867.3	867.3	869.8	869.6	872.3	872.5
15.5°	863.5	865.9	868.0	866.7	870.6	869.7
16°	861.1	863.9	865.7	865.4	867.7	868.1
16.5°	858.8	860.9	863.5	863.0	866.1	865.4
17°	856.9	857.3	861.0	859.6	863.4	862.1
17.5°	854.2	855.4	859.6	857.0	861.0	860.2
18°	851.2	853.5	856.9	855.9	858.4	858.4
18.5°	848.6	851.1	853.4	853.5	854.9	855.4
19°	845.6	847.9	849.8	849.9	851.6	851.7
19.5°	842.2	845.2	847.0	846.5	849.0	848.9
20°	839.8	842.3	844.6	843.6	846.0	846.2
20.5°	838.0	839.8	840.8	841.1	843.4	843.0
21°	835.1	836.0	838.1	839.0	840.7	841.1
21.5°	831.7	831.8	835.0	836.4	838.4	838.1
22°	828.2	828.5	831.7	832.8	835.8	833.9

TEST NUMBER: P869754
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	823.7	826.5	828.4	828.8	831.6	830.5
23°	820.9	823.3	825.9	825.8	827.6	827.7
23.5°	817.1	819.0	822.1	823.5	824.4	824.3
24°	813.9	815.6	819.5	818.9	821.0	821.1
24.5°	811.5	812.9	815.7	815.7	817.7	818.0
25°	807.7	809.3	812.0	813.2	815.2	814.4
25.5°	803.6	806.4	807.8	809.6	812.3	810.6
26°	800.1	801.2	804.4	805.5	807.8	807.5
26.5°	796.4	797.3	801.3	800.9	803.3	804.0
27°	791.9	793.2	798.1	797.5	800.0	799.9
27.5°	787.4	788.5	793.6	794.2	797.6	796.5
28°	783.7	784.5	789.1	791.2	793.4	793.1
28.5°	779.1	781.7	784.8	786.7	789.0	787.4
29°	775.9	777.7	781.7	782.6	783.8	784.0
29.5°	771.9	773.2	777.3	778.3	780.8	779.1
30°	768.4	769.0	772.7	773.3	777.1	776.7
30.5°	762.7	765.8	767.6	768.3	772.3	771.9
31°	758.2	759.6	763.8	764.8	767.7	766.9
31.5°	753.6	755.5	760.1	759.8	763.9	762.5
32°	750.1	751.3	755.8	755.6	760.1	758.2
32.5°	746.2	747.4	751.0	751.5	756.1	753.8
33°	741.2	742.8	746.8	748.1	751.1	749.6
33.5°	735.2	737.9	742.0	743.2	746.6	744.8
34°	730.9	733.1	736.8	737.7	741.3	739.5
34.5°	725.6	728.5	732.1	733.1	736.6	734.7
35°	721.0	723.7	727.3	728.8	732.0	731.6
35.5°	716.8	718.1	722.9	724.1	726.8	726.8
36°	711.8	712.6	717.6	719.2	721.6	721.0
36.5°	706.9	707.5	712.6	712.9	716.7	716.0
37°	701.8	702.4	708.1	708.1	711.4	711.8
37.5°	695.9	698.0	702.9	702.7	707.2	706.9
38°	690.4	692.6	697.8	698.1	702.4	701.6
38.5°	685.2	687.6	692.2	693.3	697.3	695.5
39°	679.7	682.9	687.4	688.0	690.7	690.6
39.5°	674.6	678.1	682.0	682.1	685.6	685.2
40°	669.0	672.1	676.6	677.8	679.9	680.8
40.5°	664.4	666.3	671.0	672.6	674.8	675.6
41°	659.3	661.3	665.3	667.2	668.9	670.0
41.5°	653.1	656.1	659.8	661.3	663.8	664.5
42°	647.6	650.1	654.7	655.2	659.1	658.6
42.5°	641.0	643.5	648.7	649.3	653.4	653.0
43°	635.1	638.5	642.1	644.2	648.0	647.3
43.5°	628.9	632.1	635.8	638.9	641.7	641.3
44°	623.6	625.6	629.8	632.5	635.9	635.7
44.5°	617.6	620.7	625.2	625.7	630.0	629.9

TEST NUMBER: P869754

CATALOG NUMBER: SMX18SLSFSD2W-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	611.7	615.3	619.6	619.7	623.4	624.0
45.5°	605.3	609.4	613.3	614.0	617.2	618.5
46°	599.4	603.2	607.5	608.3	611.5	612.0
46.5°	593.3	596.8	601.5	603.2	605.4	605.4
47°	587.0	590.7	595.4	596.8	599.3	599.6
47.5°	580.7	584.8	589.1	590.4	592.9	593.6
48°	574.6	578.4	582.9	584.2	587.1	587.6
48.5°	568.4	571.4	576.4	578.0	581.0	580.6
49°	561.8	565.0	569.6	571.6	574.5	574.4
49.5°	555.5	558.7	562.8	565.3	568.4	568.2
50°	549.0	551.5	556.1	559.4	561.8	562.3
50.5°	542.3	545.2	549.5	552.9	554.9	555.2
51°	536.1	539.4	543.6	545.8	548.6	548.4
51.5°	529.7	532.3	537.4	539.0	542.5	542.3
52°	523.2	525.4	531.0	532.2	536.3	536.3
52.5°	516.2	519.2	524.4	526.4	529.5	529.7
53°	509.4	512.7	517.7	519.9	523.3	522.9
53.5°	503.2	506.0	510.7	512.0	516.3	515.6
54°	496.0	499.0	504.0	505.3	509.4	509.4
54.5°	489.2	491.7	497.1	499.2	501.9	503.0
55°	482.4	484.9	489.9	492.1	495.6	495.5
55.5°	475.6	477.9	482.8	485.5	489.0	488.2
56°	468.6	471.0	476.0	478.4	481.9	481.9
56.5°	461.4	463.8	469.0	471.0	475.1	474.6
57°	453.9	456.4	461.7	463.9	467.8	467.4
57.5°	446.4	449.1	454.4	455.9	460.2	460.4
58°	439.6	442.0	447.0	449.4	453.4	453.4
58.5°	432.8	434.7	439.3	442.7	446.0	446.0
59°	425.7	427.6	432.1	435.6	438.9	438.9
59.5°	417.8	420.2	424.6	428.1	431.5	431.9
60°	411.0	412.4	417.8	420.5	424.4	424.4
60.5°	402.7	405.0	409.9	413.1	417.0	417.1
61°	395.2	397.4	402.7	405.4	409.3	409.8
61.5°	388.0	390.5	395.7	397.8	401.6	401.7
62°	380.4	383.0	388.3	390.4	394.2	394.7
62.5°	373.0	375.5	380.8	383.1	386.7	387.0
63°	365.2	367.4	372.9	375.1	379.5	379.6
63.5°	357.7	359.9	365.5	367.8	371.6	372.6
64°	350.1	352.6	357.7	360.0	363.3	364.4
64.5°	342.4	345.2	350.3	352.8	355.6	356.9
65°	334.7	337.3	342.0	345.2	348.1	349.5
65.5°	327.3	329.4	334.3	337.1	340.4	341.8
66°	319.4	321.1	326.5	329.4	332.6	333.2
66.5°	311.4	313.7	318.7	321.9	324.8	325.1
67°	303.4	305.9	310.8	314.1	317.4	317.8

TEST NUMBER: P869754
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	295.7	297.7	302.3	305.6	309.4	309.7
68°	287.6	289.6	294.6	298.0	301.5	301.7
68.5°	280.0	281.8	286.8	290.1	293.1	293.7
69°	272.6	274.2	278.4	281.8	285.1	285.9
69.5°	264.4	266.3	270.5	273.9	277.2	278.2
70°	256.2	258.1	262.5	266.3	269.3	269.6
70.5°	248.2	249.7	254.7	258.1	261.4	261.6
71°	240.0	241.7	246.6	249.8	253.4	253.6
71.5°	231.9	233.8	238.4	242.1	245.5	245.8
72°	223.7	225.9	230.6	234.0	237.0	237.9
72.5°	216.1	217.5	222.5	225.6	228.8	229.9
73°	208.0	209.2	214.2	217.4	220.7	221.7
73.5°	200.1	201.5	206.7	209.5	212.7	213.4
74°	192.2	193.3	198.2	201.2	204.7	205.4
74.5°	184.3	185.3	190.1	193.5	196.5	197.3
75°	176.1	177.2	182.0	185.5	188.2	189.0
75.5°	168.3	169.4	174.2	177.4	180.2	181.1
76°	160.4	161.4	166.1	169.4	172.3	173.3
76.5°	152.4	153.6	158.2	161.6	164.3	165.2
77°	144.4	145.5	150.2	153.5	156.5	157.6
77.5°	136.6	137.9	142.4	146.0	149.0	149.8
78°	128.9	130.2	134.8	138.2	141.1	141.8
78.5°	121.2	122.6	127.4	130.7	133.3	134.0
79°	113.9	115.1	119.6	122.8	125.4	126.4
79.5°	106.1	107.6	111.9	115.2	118.0	118.8
80°	98.9	100.1	104.3	107.5	110.5	111.2
80.5°	91.9	92.9	97.3	100.3	103.0	103.8
81°	84.9	85.8	90.1	93.2	95.8	96.4
81.5°	77.9	78.7	82.9	85.9	88.4	89.1
82°	70.9	71.6	75.8	78.8	81.3	82.0
82.5°	64.3	65.0	68.8	71.7	74.3	74.8
83°	58.1	58.4	61.9	64.8	67.5	67.8
83.5°	51.6	52.0	55.5	58.3	60.8	61.4
84°	45.5	45.9	49.4	51.9	54.2	55.0
84.5°	39.6	40.2	43.4	45.9	48.2	48.8
85°	34.1	34.7	37.8	40.2	42.1	42.7
85.5°	28.7	29.3	32.3	34.7	36.5	36.9
86°	23.9	24.7	27.1	29.4	31.3	31.7
86.5°	19.6	20.3	22.7	24.7	26.3	26.6
87°	16.0	16.4	18.5	20.2	21.7	22.2
87.5°	12.5	12.8	14.8	16.3	17.6	18.0
88°	9.4	9.2	11.0	12.8	13.9	14.2
88.5°	6.4	6.2	7.5	9.1	10.2	10.6
89°	4.0	4.1	5.1	6.2	7.1	7.5
89.5°	1.9	2.3	3.1	4.0	5.0	5.2

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869754
CATALOG NUMBER: SMX18SLSFSD2W-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)