

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: P869753

Luminaire Tested: **SMX18SLSFSD2W-2500LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869753  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18SLSFSD2W-2500LM-3500K  
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

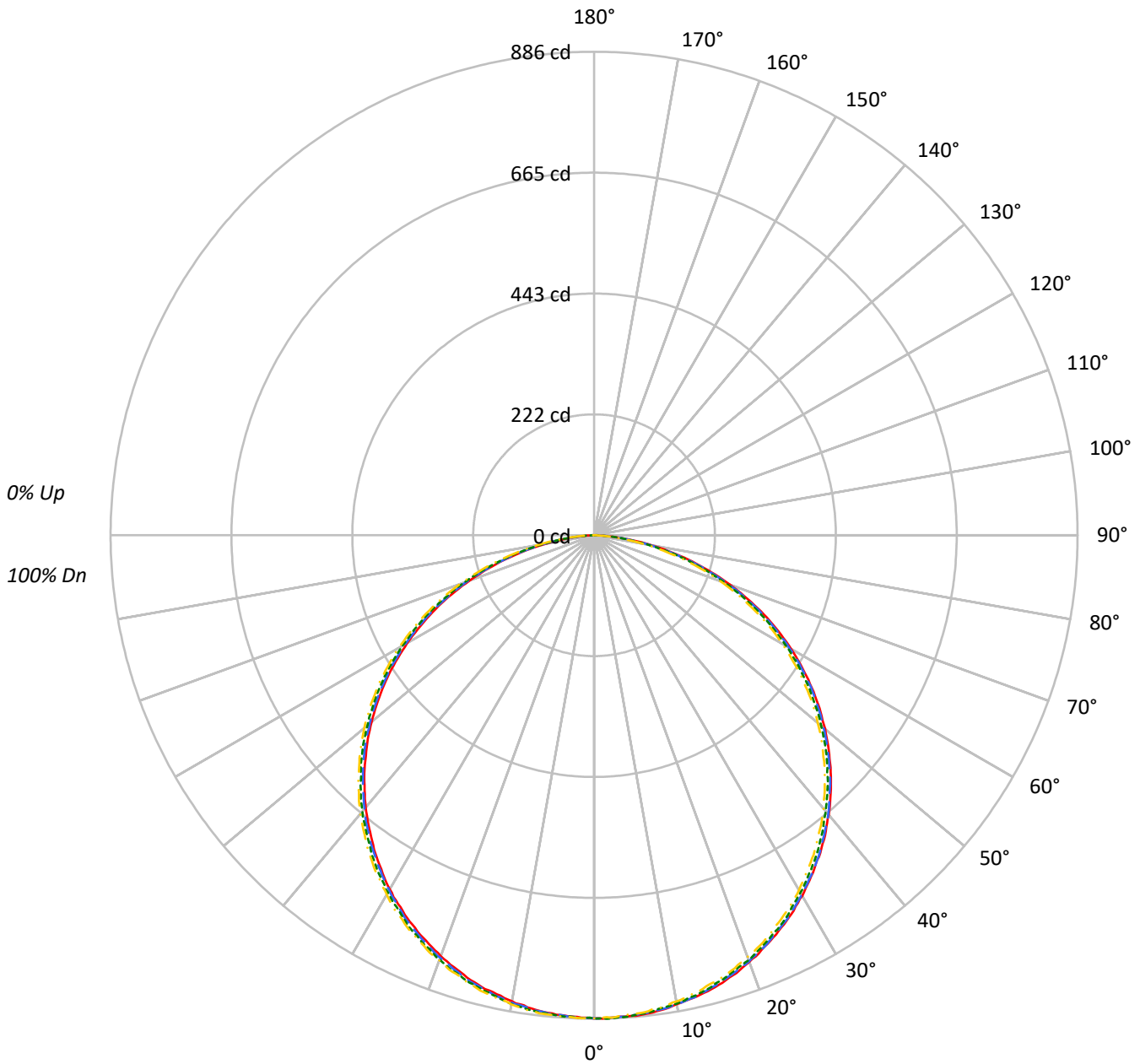
Lumens per Lamp: N/A  
 Luminaire Lumens: 2585.0 lumens  
 Efficiency: N/A  
 Efficacy: 86.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 30  
 Input Voltage (V): NR  
 Input Current (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	33	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°	4236	4236	4236	4236
5°	4245	4235	4225	4234
10°	4239	4235	4213	4237
15°	4247	4219	4199	4222
20°	4234	4219	4180	4215
25°	4225	4203	4156	4199
30°	4217	4178	4139	4175
35°	4200	4158	4105	4154
40°	4179	4124	4067	4125
45°	4149	4089	4019	4092
50°	4113	4044	3961	4034
55°	4062	3987	3889	3975
60°	3991	3895	3780	3879
65°	3888	3766	3626	3753
70°	3707	3565	3393	3549
75°	3434	3259	3039	3218
80°	3011	2760	2471	2711
85°	2305	1943	1526	1872

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	3.2
10°-20°	240.7	9.3
20°-30°	366.5	14.2
30°-40°	444.9	17.2
40°-50°	466.0	18.0
50°-60°	426.0	16.5
60°-70°	328.0	12.7
70°-80°	185.4	7.2
80°-90°	43.6	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
<b>0°-30°</b>	<b>691.0</b>	<b>26.7</b>
<b>0°-40°</b>	<b>1135.9</b>	<b>43.9</b>
<b>0°-60°</b>	<b>2028.0</b>	<b>78.5</b>
<b>0°-90°</b>	<b>2585.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>2585.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	886	886	886	886	886	
5°	884	882	880	882	884	84
15°	858	852	848	852	858	242
25°	800	796	787	796	800	369
35°	719	712	703	711	719	449
45°	613	604	594	605	613	473
55°	487	478	466	477	487	435
65°	344	333	320	332	344	339
75°	186	176	164	174	186	197
85°	42	35	28	34	42	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°	885.5	885.5	885.5	885.5	885.5	885.5	885.5	885.5	885.5	885.5	885.5
0.5°	885.3	885.1	885.6	884.9	885.8	886.5	884.9	885.5	884.9	885.3	884.4
1°	886.1	884.5	885.7	885.4	885.3	885.7	884.3	884.8	884.3	885.0	885.5
1.5°	885.3	885.3	884.8	885.4	886.4	885.5	883.6	884.6	884.6	884.3	885.3
2°	884.7	884.2	884.5	885.3	886.1	885.2	884.8	883.6	883.4	883.5	883.5
2.5°	884.6	885.0	884.3	885.3	885.3	885.2	883.8	883.5	883.2	883.2	883.3
3°	883.4	885.2	884.0	884.3	884.5	884.3	882.6	884.1	883.0	882.3	883.4
3.5°	883.9	885.3	883.7	884.3	884.7	883.5	882.6	883.4	882.0	882.1	882.1
4°	883.6	884.3	883.4	884.4	884.2	883.0	880.8	882.6	881.2	882.5	881.2
4.5°	883.5	884.3	882.3	884.2	883.2	882.8	880.8	880.9	881.2	881.5	881.0
5°	883.9	883.4	882.3	882.8	881.9	882.5	880.1	880.5	879.7	879.4	881.7
5.5°	883.3	882.8	881.5	881.3	881.2	881.3	879.7	879.1	879.5	878.4	880.5
6°	882.8	882.8	880.9	881.5	881.2	879.5	879.1	878.8	878.7	877.6	878.8
6.5°	882.0	882.5	880.2	879.9	880.1	879.7	877.8	877.6	877.5	876.9	878.1
7°	881.5	881.7	879.4	879.6	879.1	878.6	875.3	875.9	876.3	875.4	878.0
7.5°	879.9	879.7	878.1	877.8	876.9	877.8	875.2	875.0	874.6	874.3	876.3
8°	878.9	877.8	877.6	877.6	875.5	876.8	874.5	873.5	873.7	873.2	873.8
8.5°	877.9	876.7	877.2	875.4	875.0	875.6	873.1	872.6	871.1	872.3	872.9
9°	876.7	875.2	875.8	874.9	873.8	874.4	870.9	871.5	870.0	870.5	871.5
9.5°	874.6	874.7	873.8	872.9	872.9	873.1	868.6	869.3	869.7	869.4	871.2
10°	872.7	872.8	872.1	872.2	871.8	871.5	867.5	867.6	867.3	868.7	869.6
10.5°	871.6	871.6	871.5	870.0	870.2	869.1	866.5	866.0	865.5	866.7	867.8
11°	870.1	870.1	870.2	869.3	868.3	867.8	864.6	865.5	863.8	864.2	865.8
11.5°	868.2	869.3	867.9	866.8	865.4	866.6	862.9	863.2	861.0	863.1	864.2
12°	867.5	867.0	866.8	865.0	864.6	865.1	860.4	862.4	859.9	860.7	863.2
12.5°	865.9	865.2	866.1	863.5	863.4	863.4	858.5	860.6	857.5	859.0	861.0
13°	864.3	864.8	863.8	861.4	861.4	861.3	857.2	858.0	855.9	857.5	858.2
13.5°	862.6	863.2	861.0	859.8	859.6	859.1	854.8	856.5	855.1	855.8	855.6
14°	861.0	861.3	859.0	858.6	857.7	855.4	851.7	854.1	852.9	854.3	854.5
14.5°	859.0	858.6	856.6	855.7	855.4	854.1	849.5	851.4	850.3	851.6	852.4
15°	857.6	856.3	854.9	854.5	851.9	852.5	848.0	849.3	847.8	848.3	850.8
15.5°	854.8	854.4	852.9	851.7	850.0	849.9	846.4	846.7	846.0	846.0	848.8
16°	853.3	851.9	850.2	849.8	848.6	848.0	844.0	844.3	843.7	844.4	846.4
16.5°	850.6	849.6	847.9	847.0	845.6	845.8	841.4	842.1	840.0	842.1	843.8
17°	847.3	846.7	845.4	845.5	843.1	843.3	839.0	840.1	837.1	838.7	840.3
17.5°	845.5	844.6	843.3	841.8	839.9	840.6	836.7	837.6	834.7	835.8	837.9
18°	843.7	842.4	840.8	839.4	838.1	837.6	834.5	834.3	832.0	833.2	835.6
18.5°	840.7	840.0	838.4	836.6	834.9	835.1	830.4	830.9	829.9	830.5	831.9
19°	837.1	837.8	835.6	834.0	833.1	832.2	827.8	828.2	826.5	827.8	828.3
19.5°	834.4	835.5	833.6	831.2	830.2	829.6	825.5	825.1	824.1	825.0	826.3
20°	831.7	831.9	831.1	829.3	828.7	827.1	822.6	822.1	821.1	821.9	824.2
20.5°	828.6	828.5	827.1	825.7	825.5	823.8	819.9	819.2	817.2	818.9	822.1
21°	826.7	825.4	824.4	823.0	821.9	820.8	817.1	816.0	814.3	816.8	818.3
21.5°	823.7	823.0	821.9	821.0	818.7	817.6	813.8	812.5	811.1	813.9	814.6
22°	819.7	819.6	818.9	818.1	815.8	813.7	811.3	811.0	807.8	809.7	811.7

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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°	816.3	816.3	816.4	814.3	812.1	810.3	807.9	807.2	804.6	806.3	808.0
23°	813.5	813.1	812.9	810.6	808.8	808.2	804.1	804.3	801.4	803.6	805.1
23.5°	810.2	810.6	808.9	807.3	806.0	804.8	800.6	801.2	798.6	800.9	801.7
24°	807.0	807.5	805.5	804.9	802.2	801.2	797.5	796.8	795.2	796.6	798.5
24.5°	804.0	803.7	802.1	800.9	798.9	797.7	792.6	792.7	790.6	792.1	794.7
25°	800.4	799.5	798.9	797.2	796.3	794.1	789.1	790.0	787.3	788.7	790.7
25.5°	796.7	796.3	795.1	793.3	792.5	790.7	786.3	786.9	784.5	785.3	787.2
26°	793.7	793.1	791.6	789.9	789.6	787.1	782.5	783.0	780.7	782.1	784.7
26.5°	790.2	790.0	788.7	786.1	785.0	782.7	778.6	779.3	777.1	777.9	780.4
27°	786.3	786.2	785.1	782.6	781.7	778.5	775.2	775.4	772.5	773.6	775.9
27.5°	782.9	783.2	780.5	779.4	777.3	774.3	771.5	771.4	768.3	770.0	771.7
28°	779.5	777.9	776.8	775.9	772.2	770.6	767.6	766.7	765.2	767.4	768.0
28.5°	773.9	774.1	772.8	771.9	767.8	766.1	763.4	762.9	761.4	763.2	763.4
29°	770.6	770.5	768.6	767.7	764.5	763.0	759.4	758.9	757.9	759.3	759.9
29.5°	765.8	767.3	765.3	763.6	760.2	759.3	755.5	754.5	752.8	754.8	755.8
30°	763.4	763.0	760.7	758.9	756.4	754.0	750.9	750.0	749.2	750.0	751.5
30.5°	758.7	758.2	756.4	754.1	752.7	749.7	746.0	745.9	745.1	745.3	746.5
31°	753.7	753.3	752.2	750.2	747.9	745.1	741.6	741.0	740.6	741.2	743.0
31.5°	749.5	748.6	748.4	745.8	743.4	740.6	736.6	736.0	735.6	736.1	738.1
32°	745.3	744.9	743.3	742.0	738.7	737.2	732.2	732.2	731.0	731.7	733.7
32.5°	740.9	740.6	739.7	736.9	734.0	733.3	727.9	726.9	725.7	727.5	728.6
33°	736.8	736.4	735.9	733.0	730.3	728.5	723.7	722.4	721.2	722.9	724.7
33.5°	732.1	731.9	731.3	727.9	725.3	723.9	718.8	719.0	716.7	718.1	719.2
34°	726.8	728.0	726.4	723.5	721.6	718.7	714.6	714.6	711.9	713.6	714.8
34.5°	722.1	723.5	722.1	718.3	716.7	714.3	710.5	709.3	707.9	708.5	710.3
35°	719.1	718.6	717.5	713.3	712.0	709.6	705.0	704.2	702.9	704.0	706.0
35.5°	714.4	713.7	712.8	709.6	707.0	704.2	699.5	698.6	696.8	699.9	700.8
36°	708.7	708.6	707.9	704.9	702.2	698.4	694.9	695.1	692.1	694.9	696.7
36.5°	703.7	704.0	701.9	700.5	696.6	693.6	689.4	689.5	687.0	689.4	690.7
37°	699.6	699.5	697.2	694.8	691.5	688.8	684.4	685.0	681.8	683.7	685.4
37.5°	694.9	693.8	693.0	689.5	687.0	683.4	679.9	679.0	676.9	678.6	680.7
38°	689.6	689.0	687.4	685.3	681.7	678.3	675.3	673.1	672.2	674.2	676.0
38.5°	683.6	684.1	682.1	679.2	675.7	673.2	670.1	668.0	666.8	669.7	671.2
39°	678.8	678.4	677.8	674.2	670.3	668.7	664.3	663.2	661.4	664.4	665.8
39.5°	673.4	673.1	672.7	668.4	665.4	663.4	659.1	657.7	656.6	657.9	659.8
40°	669.1	667.7	667.6	663.1	660.3	657.7	654.1	652.5	651.3	652.7	654.2
40.5°	664.1	663.0	662.2	657.7	654.5	651.9	648.1	647.6	645.6	647.0	649.0
41°	658.5	657.7	656.1	653.4	649.4	646.4	642.1	641.6	640.4	640.8	643.6
41.5°	653.1	652.3	650.6	648.0	643.9	641.7	636.9	635.4	633.7	635.7	637.9
42°	647.3	646.3	645.2	642.3	638.7	635.2	631.3	630.3	628.2	630.1	632.3
42.5°	641.8	641.4	639.0	637.2	633.2	629.8	625.5	624.3	622.3	625.0	627.6
43°	636.2	636.4	633.3	630.9	627.6	625.2	619.8	619.1	617.1	618.7	621.1
43.5°	630.4	630.6	628.7	624.9	622.5	619.4	614.4	612.7	611.8	613.6	615.5
44°	624.9	624.4	622.9	619.1	616.6	612.8	608.7	607.1	606.2	608.0	609.7
44.5°	619.2	618.9	616.8	613.2	609.7	606.8	603.3	601.3	600.0	602.6	604.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	613.3	612.3	610.8	607.6	604.4	601.1	597.1	595.7	594.1	595.9	598.3
45.5°	607.9	607.1	604.6	602.7	599.0	595.9	591.5	589.5	587.7	590.4	592.2
46°	601.5	601.6	598.8	596.3	593.2	590.0	584.4	583.3	581.4	584.4	586.8
46.5°	595.0	594.7	593.1	589.5	587.4	583.9	578.8	577.3	575.4	578.5	580.7
47°	589.4	588.7	586.6	583.9	581.5	577.8	572.5	571.2	569.6	572.3	574.9
47.5°	583.5	582.7	580.2	577.4	575.0	571.5	566.3	565.1	563.9	565.5	568.3
48°	577.5	577.2	573.9	571.7	568.5	565.5	560.8	559.4	557.6	559.4	561.6
48.5°	570.7	570.7	568.3	565.5	561.7	558.9	554.3	553.3	551.6	552.8	556.1
49°	564.6	564.7	562.3	559.3	555.8	552.4	548.4	547.0	545.0	546.8	549.3
49.5°	558.5	558.7	555.9	553.0	549.3	545.7	541.7	540.5	538.6	540.9	542.3
50°	552.7	552.3	549.1	546.4	543.3	539.9	535.0	534.5	532.2	534.8	536.4
50.5°	545.7	545.7	542.9	539.8	537.5	534.3	529.0	528.0	525.5	527.8	530.3
51°	539.0	539.1	536.3	533.6	531.2	527.2	522.1	521.0	519.1	520.8	523.7
51.5°	533.0	532.8	530.4	527.1	525.0	520.4	516.5	514.2	512.5	514.6	517.0
52°	527.1	525.9	524.0	520.8	517.5	514.7	510.1	508.3	505.8	508.2	510.4
52.5°	520.6	519.6	517.4	514.3	510.4	507.9	503.7	501.8	499.6	501.0	503.7
53°	513.9	513.4	510.6	507.5	504.0	500.4	496.7	494.9	492.6	495.4	497.3
53.5°	506.8	506.5	504.1	501.5	497.7	493.8	490.3	487.4	486.2	488.7	490.5
54°	500.7	500.4	498.0	494.2	490.7	487.7	483.0	481.0	479.2	481.3	484.2
54.5°	494.4	493.6	491.3	487.2	484.9	481.3	475.4	473.8	473.1	474.2	477.3
55°	487.0	486.7	484.9	480.3	478.0	474.4	468.8	467.7	466.3	467.5	470.1
55.5°	479.9	479.3	477.5	474.1	470.9	466.9	462.3	460.3	459.1	460.6	462.8
56°	473.7	472.5	470.1	467.1	463.4	459.7	455.6	453.5	452.3	453.8	456.6
56.5°	466.5	466.1	463.7	459.7	456.7	452.6	448.4	447.3	445.3	447.4	449.7
57°	459.4	459.3	456.3	452.6	449.9	446.0	441.4	440.1	437.8	440.5	443.0
57.5°	452.5	452.2	449.7	445.7	443.1	439.3	433.9	432.2	430.9	433.0	435.7
58°	445.7	444.6	442.7	438.4	435.9	431.8	426.7	425.1	423.8	425.6	428.1
58.5°	438.3	437.3	435.2	431.4	428.4	424.2	419.5	418.2	416.9	418.3	421.0
59°	431.4	430.8	427.8	424.3	421.6	417.4	412.9	411.0	409.3	411.3	413.6
59.5°	424.5	423.4	421.1	417.8	414.6	410.2	405.5	404.0	402.1	404.6	406.4
60°	417.1	416.2	413.4	410.6	407.1	403.0	398.9	396.9	395.1	397.3	399.9
60.5°	410.0	408.7	406.2	403.4	399.0	396.1	391.5	389.6	387.8	389.4	392.5
61°	402.7	401.1	398.8	395.6	392.1	388.7	384.3	381.9	380.6	382.5	385.3
61.5°	394.8	393.8	391.5	388.0	384.8	381.2	377.1	374.2	372.8	374.9	377.8
62°	387.9	386.5	384.1	380.5	377.5	373.8	369.7	367.2	365.4	367.6	370.3
62.5°	380.3	379.2	376.6	373.3	369.8	366.6	362.0	359.7	357.8	360.1	362.6
63°	373.1	371.7	369.1	366.0	362.6	359.0	354.3	352.5	350.5	352.4	354.9
63.5°	366.3	364.0	361.8	358.0	355.5	351.5	347.1	344.8	343.4	344.7	347.9
64°	358.1	357.0	354.3	350.8	348.3	343.9	339.1	337.2	335.7	337.4	340.5
64.5°	350.8	349.5	346.8	343.0	340.2	336.5	331.2	329.5	327.8	329.5	332.7
65°	343.5	342.2	339.3	335.3	332.7	328.9	323.6	321.9	320.3	322.1	325.0
65.5°	335.9	334.5	331.9	327.4	325.2	321.0	315.9	314.4	312.9	314.6	317.5
66°	327.5	326.8	323.7	319.7	317.4	313.3	308.3	306.4	305.4	306.8	309.8
66.5°	319.6	318.8	315.9	312.3	309.6	305.7	300.5	298.9	297.7	299.0	301.8
67°	312.3	310.8	308.2	304.5	302.1	298.0	293.5	290.9	290.0	291.2	294.2



TEST NUMBER: P869753  
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	304.4	303.0	300.3	296.3	294.4	290.3	285.7	283.0	282.3	283.3	286.1
68°	296.5	295.4	292.5	288.4	286.7	282.4	277.8	275.7	274.4	275.9	278.7
68.5°	288.7	287.6	284.9	281.1	278.7	274.7	269.9	268.0	266.4	267.9	271.1
69°	281.0	280.2	277.1	273.6	271.3	266.6	261.8	259.8	258.4	259.9	263.3
69.5°	273.4	272.3	269.2	264.9	263.0	258.4	254.0	251.6	250.6	251.8	255.6
70°	265.0	264.4	261.1	257.1	254.9	250.8	246.0	244.1	242.6	244.1	247.2
70.5°	257.1	256.5	253.1	249.3	247.3	243.2	238.6	236.4	235.1	236.6	239.6
71°	249.3	248.6	245.7	241.7	239.5	235.5	230.7	228.6	227.3	228.7	231.6
71.5°	241.6	240.9	237.6	233.2	231.4	227.4	222.6	220.4	219.3	220.8	223.6
72°	233.8	232.7	229.5	225.4	223.6	219.3	214.7	212.4	211.7	213.0	216.1
72.5°	226.0	224.4	221.4	217.8	215.8	211.6	207.0	204.9	203.7	205.2	208.2
73°	217.9	216.3	213.4	209.5	207.9	203.9	199.3	196.8	195.5	197.4	200.3
73.5°	209.7	208.5	205.8	201.7	199.8	195.7	191.5	188.9	187.7	189.9	192.4
74°	201.9	200.5	197.4	193.8	191.8	187.9	183.7	181.2	179.9	181.8	184.5
74.5°	193.9	192.6	189.8	185.5	184.3	180.2	175.9	173.5	172.3	174.0	176.6
75°	185.8	184.5	181.8	177.5	176.3	172.1	167.9	165.7	164.4	166.2	168.8
75.5°	178.0	176.9	174.0	169.9	168.5	164.4	160.5	157.7	156.8	158.8	161.2
76°	170.3	169.2	166.3	162.0	160.6	156.5	152.6	149.9	149.1	150.8	153.5
76.5°	162.4	161.3	158.4	154.3	153.0	148.9	144.8	142.6	141.4	143.0	145.6
77°	154.9	153.3	150.7	146.5	145.2	141.0	137.2	134.8	133.8	135.2	137.8
77.5°	147.2	145.5	143.2	138.9	137.4	133.3	129.6	127.2	126.2	127.8	130.4
78°	139.4	137.8	135.4	131.4	129.9	125.9	122.3	119.5	118.7	120.1	122.8
78.5°	131.7	130.2	127.8	123.8	122.5	118.3	114.5	112.3	111.3	112.7	115.3
79°	124.3	122.7	120.1	116.2	114.8	110.6	107.0	104.9	103.8	105.2	107.8
79.5°	116.8	115.3	112.8	108.8	107.4	103.5	99.9	97.8	96.7	98.4	100.6
80°	109.3	107.6	105.3	101.5	100.2	96.5	92.9	90.7	89.7	91.3	93.8
80.5°	102.1	100.4	98.3	94.4	93.2	89.3	85.9	83.7	82.6	84.4	86.9
81°	94.7	93.2	91.3	87.3	86.3	82.5	78.9	76.8	75.9	77.5	79.9
81.5°	87.6	86.3	84.1	80.4	79.2	75.5	72.1	70.1	69.4	70.5	73.0
82°	80.6	79.4	76.9	73.3	72.3	68.7	65.4	63.3	62.6	63.9	66.3
82.5°	73.5	72.6	69.9	66.4	65.7	62.1	59.2	57.0	56.2	57.5	59.8
83°	66.7	65.4	63.2	60.0	59.3	55.9	52.8	50.9	50.1	51.5	53.7
83.5°	60.3	58.9	56.7	53.8	53.0	49.7	46.6	44.8	44.2	45.3	47.4
84°	54.0	52.7	50.6	47.8	47.0	43.7	40.7	38.9	38.2	39.6	41.6
84.5°	48.0	46.8	44.8	41.9	41.1	38.0	35.2	33.4	33.0	34.1	35.9
85°	42.0	40.9	39.0	36.2	35.4	32.6	29.9	28.2	27.8	28.8	30.7
85.5°	36.3	35.3	33.6	31.0	30.1	27.3	24.7	23.5	23.1	23.9	25.7
86°	31.2	30.2	28.5	26.1	25.2	22.6	20.4	19.0	18.7	19.5	21.1
86.5°	26.2	25.5	24.0	21.8	20.7	18.5	16.6	15.4	15.1	16.2	17.3
87°	21.9	21.1	19.7	17.6	16.9	14.9	13.1	12.0	11.8	12.6	13.9
87.5°	17.7	17.1	15.8	13.9	13.3	11.5	9.8	8.8	8.8	9.5	10.6
88°	13.9	13.4	12.2	10.4	9.9	8.3	6.9	6.1	6.0	6.6	7.6
88.5°	10.4	9.8	8.9	7.4	7.2	5.6	4.4	3.6	3.4	4.1	5.0
89°	7.4	7.0	6.2	5.1	5.1	3.5	2.3	1.8	1.6	2.0	2.8
89.5°	5.1	4.9	4.2	3.2	2.8	1.7	0.8	1.6	1.4	1.8	1.0

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



TEST NUMBER: P869753  
CATALOG NUMBER: SMX18SLSFSD2W-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: P869753  
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	885.5	885.5	885.5	885.5	885.5	885.5
0.5°	886.2	884.4	886.7	885.0	884.9	885.3
1°	885.4	884.3	887.1	885.3	884.7	886.1
1.5°	885.2	885.3	886.3	885.3	885.0	885.3
2°	884.6	885.1	885.3	885.3	886.2	884.7
2.5°	884.1	883.7	886.3	884.6	884.7	884.6
3°	885.0	883.1	886.2	884.0	885.5	883.4
3.5°	884.3	884.0	885.2	883.5	884.8	883.9
4°	884.0	883.2	885.1	883.8	883.7	883.6
4.5°	883.9	882.3	884.5	883.4	883.5	883.5
5°	883.3	881.6	884.7	882.6	883.0	883.9
5.5°	881.2	880.8	884.3	882.3	883.4	883.3
6°	880.1	880.5	884.4	882.0	882.0	882.8
6.5°	879.2	880.7	883.4	881.9	881.6	882.0
7°	878.7	878.7	882.5	880.4	881.3	881.5
7.5°	877.7	878.5	881.4	879.8	881.1	879.9
8°	876.4	877.5	879.2	879.1	879.8	878.9
8.5°	875.0	875.7	878.0	877.8	877.5	877.9
9°	873.8	874.7	877.8	875.7	877.3	876.7
9.5°	871.6	873.6	876.2	874.6	875.5	874.6
10°	870.4	872.2	874.1	873.0	873.8	872.7
10.5°	868.5	870.3	872.7	870.1	873.4	871.6
11°	867.2	868.5	871.0	868.7	871.1	870.1
11.5°	864.8	866.3	869.2	867.8	869.0	868.2
12°	863.0	863.8	868.2	866.6	867.5	867.5
12.5°	861.3	862.6	865.3	864.2	866.2	865.9
13°	860.0	860.3	862.9	863.1	864.2	864.3
13.5°	857.8	859.1	861.4	861.6	862.3	862.6
14°	856.3	856.8	860.4	860.1	859.7	861.0
14.5°	854.8	855.2	857.3	857.7	858.3	859.0
15°	852.5	852.5	854.9	854.7	857.3	857.6
15.5°	848.8	851.1	853.2	851.8	855.7	854.8
16°	846.4	849.1	850.9	850.6	852.8	853.3
16.5°	844.1	846.1	848.8	848.2	851.3	850.6
17°	842.3	842.6	846.2	844.9	848.7	847.3
17.5°	839.5	840.7	844.9	842.3	846.2	845.5
18°	836.7	838.9	842.3	841.3	843.7	843.7
18.5°	834.1	836.6	838.8	838.9	840.3	840.7
19°	831.1	833.4	835.3	835.4	837.0	837.1
19.5°	827.8	830.7	832.5	832.1	834.5	834.4
20°	825.5	827.9	830.2	829.2	831.5	831.7
20.5°	823.7	825.5	826.5	826.7	829.0	828.6
21°	820.9	821.7	823.7	824.6	826.4	826.7
21.5°	817.5	817.6	820.8	822.1	824.1	823.7
22°	814.0	814.3	817.5	818.5	821.5	819.7

TEST NUMBER: P869753  
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	809.7	812.4	814.3	814.6	817.3	816.3
23°	806.9	809.2	811.7	811.6	813.4	813.5
23.5°	803.1	805.0	808.0	809.4	810.3	810.2
24°	800.0	801.6	805.5	804.9	806.9	807.0
24.5°	797.6	799.0	801.8	801.7	803.7	804.0
25°	793.8	795.5	798.1	799.3	801.3	800.4
25.5°	789.9	792.6	794.0	795.7	798.5	796.7
26°	786.4	787.5	790.6	791.8	793.9	793.7
26.5°	782.7	783.6	787.6	787.2	789.6	790.2
27°	778.3	779.7	784.5	783.8	786.3	786.3
27.5°	774.0	775.1	780.0	780.7	783.9	782.9
28°	770.3	771.1	775.6	777.7	779.8	779.5
28.5°	765.8	768.3	771.4	773.3	775.5	773.9
29°	762.6	764.4	768.4	769.2	770.4	770.6
29.5°	758.7	760.0	764.0	764.9	767.5	765.8
30°	755.3	755.8	759.4	760.1	763.8	763.4
30.5°	749.7	752.7	754.5	755.2	759.1	758.7
31°	745.3	746.6	750.8	751.8	754.6	753.7
31.5°	740.7	742.5	747.1	746.8	750.9	749.5
32°	737.3	738.5	742.9	742.6	747.1	745.3
32.5°	733.4	734.6	738.1	738.7	743.2	740.9
33°	728.5	730.1	734.1	735.3	738.2	736.8
33.5°	722.6	725.3	729.3	730.4	733.8	732.1
34°	718.4	720.6	724.2	725.1	728.6	726.8
34.5°	713.2	716.1	719.6	720.6	724.0	722.1
35°	708.7	711.3	714.9	716.3	719.5	719.1
35.5°	704.5	705.8	710.6	711.7	714.4	714.4
36°	699.6	700.4	705.3	706.9	709.2	708.7
36.5°	694.9	695.4	700.4	700.7	704.4	703.7
37°	689.8	690.4	696.0	696.0	699.3	699.6
37.5°	684.0	686.1	690.9	690.7	695.1	694.9
38°	678.6	680.8	685.9	686.2	690.3	689.6
38.5°	673.4	675.8	680.3	681.4	685.4	683.6
39°	668.0	671.2	675.6	676.2	678.9	678.8
39.5°	663.1	666.5	670.3	670.5	673.9	673.4
40°	657.5	660.6	665.0	666.2	668.3	669.1
40.5°	653.0	654.9	659.5	661.1	663.2	664.1
41°	648.0	650.0	653.9	655.7	657.5	658.5
41.5°	641.9	644.9	648.5	650.0	652.4	653.1
42°	636.5	638.9	643.5	644.0	647.8	647.3
42.5°	630.0	632.5	637.6	638.2	642.2	641.8
43°	624.2	627.6	631.1	633.2	636.9	636.2
43.5°	618.2	621.2	624.9	627.9	630.7	630.4
44°	612.9	614.9	619.1	621.7	625.0	624.9
44.5°	607.1	610.1	614.5	615.0	619.3	619.2

TEST NUMBER: P869753  
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	601.2	604.8	609.0	609.1	612.7	613.3
45.5°	595.0	599.0	602.8	603.5	606.6	607.9
46°	589.2	592.9	597.1	597.8	601.0	601.5
46.5°	583.1	586.6	591.2	592.9	595.0	595.0
47°	577.0	580.6	585.2	586.6	589.1	589.4
47.5°	570.7	574.8	579.1	580.3	582.8	583.5
48°	564.8	568.5	572.9	574.2	577.1	577.5
48.5°	558.6	561.6	566.5	568.1	571.0	570.7
49°	552.1	555.3	559.8	561.8	564.7	564.6
49.5°	546.0	549.2	553.1	555.7	558.6	558.5
50°	539.6	542.0	546.5	549.8	552.1	552.7
50.5°	533.0	535.9	540.1	543.5	545.4	545.7
51°	526.9	530.2	534.3	536.4	539.2	539.0
51.5°	520.6	523.1	528.2	529.7	533.3	533.0
52°	514.2	516.4	521.9	523.1	527.1	527.1
52.5°	507.3	510.3	515.4	517.4	520.4	520.6
53°	500.7	503.9	508.9	511.0	514.4	513.9
53.5°	494.6	497.3	501.9	503.3	507.4	506.8
54°	487.5	490.5	495.3	496.7	500.7	500.7
54.5°	480.8	483.3	488.6	490.6	493.3	494.4
55°	474.1	476.6	481.5	483.7	487.1	487.0
55.5°	467.4	469.7	474.6	477.2	480.6	479.9
56°	460.6	462.9	467.9	470.2	473.7	473.7
56.5°	453.5	455.9	461.0	462.9	467.0	466.5
57°	446.1	448.6	453.8	455.9	459.8	459.4
57.5°	438.8	441.4	446.6	448.1	452.3	452.5
58°	432.1	434.5	439.3	441.7	445.7	445.7
58.5°	425.4	427.2	431.7	435.1	438.3	438.3
59°	418.4	420.3	424.7	428.1	431.4	431.4
59.5°	410.7	413.0	417.3	420.8	424.2	424.5
60°	403.9	405.4	410.6	413.3	417.1	417.1
60.5°	395.8	398.1	402.8	406.0	409.9	410.0
61°	388.5	390.6	395.8	398.5	402.3	402.7
61.5°	381.3	383.8	388.9	391.0	394.7	394.8
62°	373.8	376.5	381.6	383.7	387.5	387.9
62.5°	366.6	369.1	374.3	376.6	380.1	380.3
63°	358.9	361.1	366.5	368.7	373.0	373.1
63.5°	351.6	353.7	359.2	361.5	365.3	366.3
64°	344.1	346.6	351.6	353.8	357.0	358.1
64.5°	336.5	339.3	344.3	346.7	349.5	350.8
65°	329.0	331.5	336.2	339.3	342.1	343.5
65.5°	321.7	323.8	328.6	331.3	334.6	335.9
66°	314.0	315.6	320.9	323.7	326.9	327.5
66.5°	306.1	308.4	313.2	316.4	319.3	319.6
67°	298.2	300.7	305.5	308.7	312.0	312.3

TEST NUMBER: P869753  
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	290.7	292.6	297.2	300.3	304.1	304.4
68°	282.7	284.6	289.6	292.9	296.3	296.5
68.5°	275.2	277.0	281.9	285.1	288.0	288.7
69°	267.9	269.5	273.7	277.0	280.3	281.0
69.5°	259.9	261.8	265.9	269.3	272.5	273.4
70°	251.8	253.7	258.0	261.8	264.6	265.0
70.5°	244.0	245.4	250.4	253.7	257.0	257.1
71°	235.9	237.5	242.4	245.5	249.0	249.3
71.5°	227.9	229.8	234.3	238.0	241.3	241.6
72°	219.8	222.0	226.6	230.0	232.9	233.8
72.5°	212.4	213.8	218.7	221.7	224.9	226.0
73°	204.5	205.6	210.5	213.7	217.0	217.9
73.5°	196.7	198.1	203.1	205.9	209.1	209.7
74°	188.9	189.9	194.8	197.8	201.2	201.9
74.5°	181.2	182.1	186.9	190.2	193.1	193.9
75°	173.1	174.1	178.8	182.4	185.0	185.8
75.5°	165.4	166.5	171.3	174.4	177.1	178.0
76°	157.6	158.6	163.2	166.5	169.4	170.3
76.5°	149.8	150.9	155.5	158.8	161.5	162.4
77°	141.9	143.0	147.7	150.8	153.8	154.9
77.5°	134.2	135.6	140.0	143.5	146.4	147.2
78°	126.7	128.0	132.5	135.8	138.6	139.4
78.5°	119.1	120.5	125.2	128.4	131.1	131.7
79°	111.9	113.1	117.5	120.7	123.3	124.3
79.5°	104.3	105.8	110.0	113.3	116.0	116.8
80°	97.2	98.4	102.5	105.7	108.6	109.3
80.5°	90.3	91.3	95.7	98.5	101.3	102.1
81°	83.5	84.4	88.5	91.6	94.1	94.7
81.5°	76.6	77.3	81.5	84.5	86.9	87.6
82°	69.7	70.4	74.5	77.5	79.9	80.6
82.5°	63.2	63.9	67.7	70.5	73.1	73.5
83°	57.1	57.4	60.9	63.7	66.3	66.7
83.5°	50.7	51.1	54.6	57.3	59.8	60.3
84°	44.7	45.2	48.6	51.0	53.3	54.0
84.5°	38.9	39.5	42.6	45.2	47.4	48.0
85°	33.5	34.1	37.1	39.6	41.4	42.0
85.5°	28.2	28.8	31.8	34.1	35.9	36.3
86°	23.5	24.3	26.6	28.9	30.8	31.2
86.5°	19.2	20.0	22.3	24.3	25.8	26.2
87°	15.7	16.1	18.2	19.9	21.3	21.9
87.5°	12.3	12.6	14.5	16.0	17.3	17.7
88°	9.2	9.0	10.8	12.6	13.6	13.9
88.5°	6.3	6.1	7.4	8.9	10.0	10.4
89°	4.0	4.1	5.1	6.1	7.0	7.4
89.5°	1.9	2.3	3.1	3.9	4.9	5.1

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869753  
CATALOG NUMBER: SMX18SLSFSD2W-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)