

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: P869724

Luminaire Tested: **SMX18RLSFSD2W-2500LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869724  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18RLSFSD2W-2500LM-4000K  
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT  
 Ballast/Driver: -

**Summary**

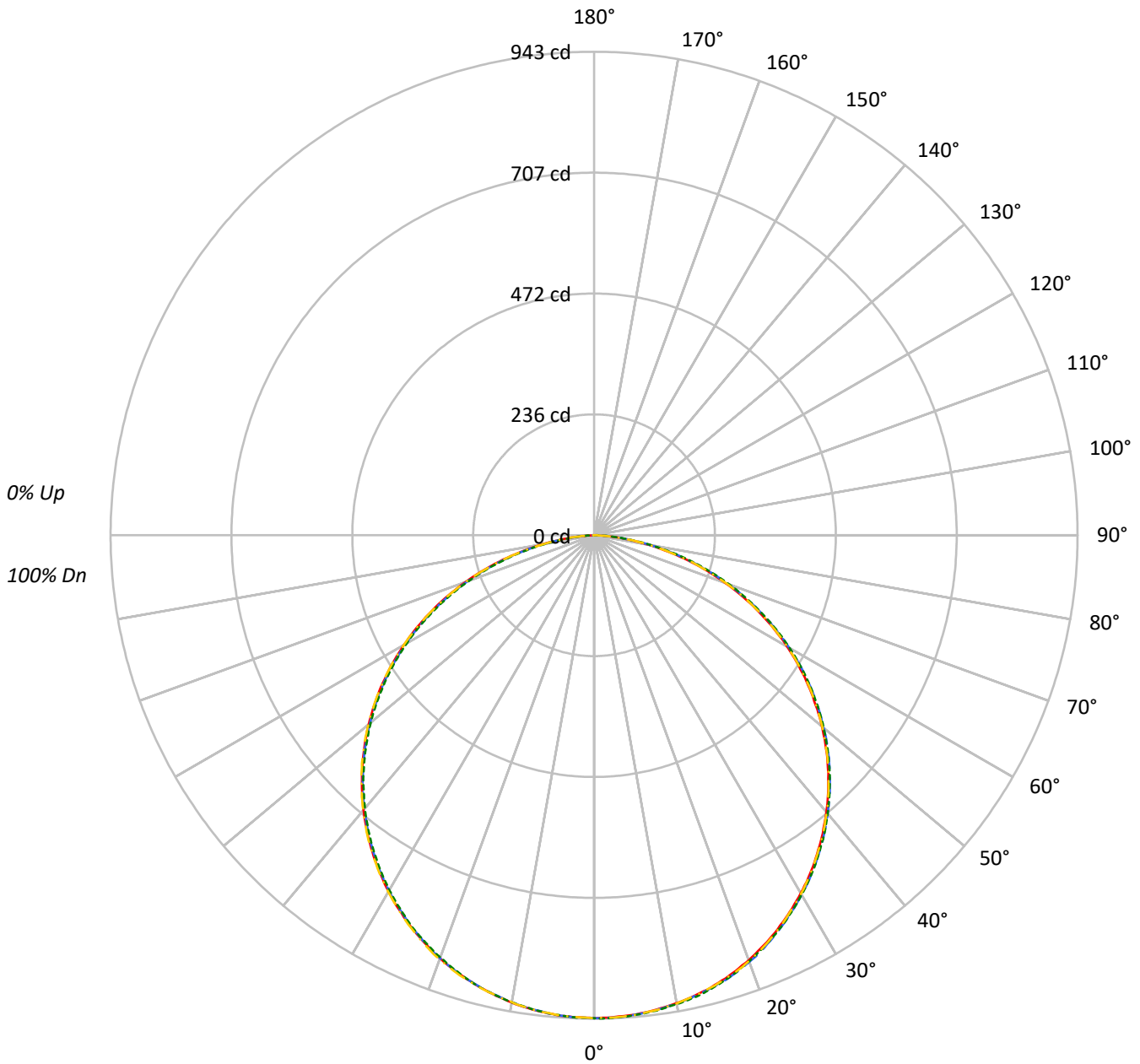
Lumens per Lamp: N/A  
 Luminaire Lumens: 2750.0 lumens  
 Efficiency: N/A  
 Efficacy: 90.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Circular (Dia: 1.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 30.5  
 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°	5738	5738	5738	5738
5°	5738	5741	5732	5733
10°	5732	5745	5726	5721
15°	5729	5745	5709	5710
20°	5716	5731	5693	5681
25°	5698	5715	5668	5657
30°	5671	5694	5640	5619
35°	5640	5668	5605	5578
40°	5601	5636	5562	5528
45°	5560	5596	5506	5467
50°	5499	5540	5438	5387
55°	5411	5469	5346	5284
60°	5294	5364	5220	5137
65°	5127	5216	5036	4936
70°	4864	4990	4755	4620
75°	4453	4632	4319	4140
80°	3802	4044	3613	3367
85°	2740	3131	2432	2118

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.2	3.2
10°-20°	256.2	9.3
20°-30°	390.1	14.2
30°-40°	473.7	17.2
40°-50°	495.9	18.0
50°-60°	452.9	16.5
60°-70°	348.4	12.7
70°-80°	197.1	7.2
80°-90°	46.5	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
<b>0°-30°</b>	<b>735.5</b>	<b>26.7</b>
<b>0°-40°</b>	<b>1209.2</b>	<b>44.0</b>
<b>0°-60°</b>	<b>2158.0</b>	<b>78.5</b>
<b>0°-90°</b>	<b>2750.0</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>2750.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	942	942	942	942	942	
5°	938	939	938	938	938	89
15°	908	911	905	906	908	256
25°	848	850	843	842	848	391
35°	758	762	754	750	758	475
45°	645	650	639	635	645	498
55°	510	515	503	498	510	455
65°	356	362	349	342	356	351
75°	189	197	184	176	189	200
85°	39	45	35	30	39	48
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°	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1	942.1
0.5°	941.4	942.0	941.9	942.0	942.6	943.2	942.0	942.3	941.2	941.9	942.1
1°	941.4	942.1	941.8	942.3	942.8	942.9	941.4	941.8	941.4	941.7	941.8
1.5°	941.4	942.5	941.7	941.7	942.4	942.4	941.8	941.5	941.0	941.7	941.6
2°	941.1	942.0	941.5	941.4	942.0	942.4	941.6	941.3	940.8	941.2	940.9
2.5°	940.5	941.8	941.4	941.3	942.0	941.9	941.2	940.5	940.7	941.1	940.9
3°	939.9	941.4	941.4	940.7	941.4	941.0	940.8	940.1	939.7	941.3	940.1
3.5°	939.5	940.7	941.0	940.7	940.8	940.4	940.7	939.9	939.9	940.6	939.9
4°	939.2	940.2	940.2	940.0	940.8	940.2	939.9	939.5	939.5	939.4	939.3
4.5°	938.7	939.1	939.3	939.8	939.6	940.0	939.5	938.9	938.6	938.7	938.6
5°	938.4	938.3	938.4	939.0	938.9	939.2	938.8	937.6	937.5	937.9	938.0
5.5°	937.1	938.1	938.1	938.6	938.4	938.8	938.2	937.1	936.7	936.8	936.9
6°	936.0	937.2	936.5	937.5	937.7	937.8	936.9	936.5	935.6	935.7	935.1
6.5°	935.3	936.1	935.8	936.4	936.5	937.0	935.7	935.7	935.2	934.4	934.1
7°	934.2	934.9	935.0	935.2	935.4	935.9	934.6	934.2	933.8	933.8	933.4
7.5°	933.0	933.7	933.9	934.5	935.1	934.6	934.1	932.7	932.7	932.6	932.2
8°	931.8	932.6	932.5	933.0	933.8	933.7	933.1	932.0	931.3	931.0	930.9
8.5°	930.6	931.7	931.6	931.8	932.5	932.7	931.1	930.6	930.2	929.8	929.7
9°	929.4	930.5	930.0	930.7	931.0	931.4	929.8	929.4	928.6	928.4	928.2
9.5°	927.8	929.3	929.1	929.6	929.8	930.2	928.9	927.9	927.3	926.7	926.6
10°	926.7	927.7	927.5	927.9	928.9	928.7	927.2	926.0	925.7	924.8	924.6
10.5°	925.6	926.1	926.0	927.0	927.6	927.2	925.3	924.7	923.6	923.3	923.0
11°	923.9	924.4	924.5	925.4	925.9	925.5	923.8	923.1	921.9	922.1	921.0
11.5°	922.0	922.9	922.9	923.9	924.6	924.1	922.3	920.8	920.1	920.6	919.3
12°	920.5	921.4	921.2	922.5	922.8	922.4	920.8	919.1	918.5	918.0	917.6
12.5°	918.5	919.4	919.0	920.6	921.6	920.6	919.1	917.1	916.1	916.0	915.9
13°	916.8	917.9	917.5	919.2	919.8	919.0	917.1	915.0	914.3	913.9	913.7
13.5°	914.7	915.8	916.0	917.1	917.7	917.1	915.1	913.5	912.0	911.6	912.0
14°	913.6	913.9	914.1	915.7	915.7	915.1	912.7	911.5	909.9	909.7	909.9
14.5°	911.3	911.6	912.2	913.7	913.7	913.2	911.2	908.9	908.0	906.9	907.1
15°	908.5	909.3	910.3	910.8	911.1	910.8	909.2	906.8	905.4	905.1	905.1
15.5°	906.1	907.4	908.0	908.9	909.4	908.7	906.8	904.1	903.0	902.7	902.9
16°	903.5	905.7	906.2	906.6	906.4	906.6	904.8	901.6	900.7	900.4	900.5
16.5°	901.6	903.2	904.4	904.2	904.1	904.1	901.9	899.8	898.2	897.9	897.8
17°	898.9	900.4	901.9	901.7	901.8	901.5	899.7	897.2	895.3	895.0	894.7
17.5°	895.9	897.9	899.4	899.4	899.0	898.9	897.6	894.3	893.3	892.2	892.4
18°	893.6	895.2	896.8	896.0	896.2	896.0	895.5	891.7	890.3	889.4	889.8
18.5°	890.5	892.2	894.3	893.4	892.9	893.2	892.4	888.5	887.2	886.7	886.8
19°	887.4	889.6	891.6	890.4	890.1	890.0	890.0	886.0	884.5	883.4	884.3
19.5°	884.7	886.7	888.4	887.4	887.6	887.4	886.5	883.2	881.3	880.2	881.5
20°	881.8	884.0	885.6	883.8	884.1	884.3	883.6	879.9	878.3	877.5	878.2
20.5°	878.7	880.4	882.8	881.1	881.0	880.6	880.3	876.7	875.7	874.4	875.1
21°	875.6	876.9	879.8	877.9	878.1	877.0	877.9	873.6	872.5	871.1	871.9
21.5°	871.8	873.7	876.6	875.0	874.5	874.4	874.3	870.7	868.7	867.6	868.8
22°	868.5	870.5	873.3	871.4	871.4	870.8	871.1	867.6	864.9	864.1	865.4

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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°	865.3	867.2	869.8	868.0	868.0	867.3	867.6	864.2	861.7	860.3	861.4
23°	862.3	864.2	865.8	864.9	864.6	864.3	863.6	860.3	858.2	857.2	857.6
23.5°	858.5	861.0	862.7	861.6	861.2	861.0	860.3	857.0	854.4	854.1	853.5
24°	855.0	857.4	858.9	857.9	857.7	856.8	856.7	853.7	851.2	849.7	849.8
24.5°	851.6	853.8	854.7	854.1	854.4	852.7	852.7	850.0	847.3	846.0	846.5
25°	847.8	849.9	851.0	850.7	850.3	849.6	848.8	846.6	843.4	842.1	841.8
25.5°	843.3	845.9	847.1	847.1	846.9	846.4	844.9	843.0	839.7	838.4	837.8
26°	839.8	842.4	843.0	843.2	842.9	841.9	840.9	839.0	835.5	834.7	834.5
26.5°	835.3	838.4	839.1	839.0	839.1	838.0	836.6	835.1	831.8	830.6	829.9
27°	831.5	834.7	834.9	835.3	834.6	834.4	832.5	830.9	827.5	826.9	825.8
27.5°	827.5	830.8	831.0	831.9	830.9	829.8	828.1	827.1	823.4	823.1	821.9
28°	823.5	826.4	827.2	827.7	827.1	826.1	823.8	822.7	819.7	818.9	817.6
28.5°	818.8	822.7	822.5	823.3	822.8	822.1	820.2	818.8	815.5	814.5	813.6
29°	814.5	818.7	818.1	818.9	818.7	817.7	815.8	814.7	811.1	810.0	809.1
29.5°	810.6	814.4	814.4	815.0	814.0	813.2	811.6	810.6	806.5	805.6	804.9
30°	806.3	810.0	810.2	810.8	809.6	808.9	807.5	805.9	801.9	801.2	799.8
30.5°	801.9	805.8	805.7	806.3	805.2	804.6	803.2	801.7	797.4	796.9	795.7
31°	797.2	801.3	801.2	801.6	801.1	800.1	798.3	797.1	792.9	791.8	791.2
31.5°	793.1	796.3	796.5	797.3	796.3	795.2	793.9	792.2	788.3	787.1	786.4
32°	788.1	791.4	792.0	793.1	791.5	790.4	789.0	787.6	783.5	782.9	781.4
32.5°	783.3	786.9	787.0	788.4	786.8	786.3	784.1	783.0	778.7	778.2	776.8
33°	778.8	782.1	782.1	783.5	782.3	781.4	779.5	777.9	773.8	773.6	771.8
33.5°	774.0	777.4	777.5	778.5	778.0	776.7	774.4	773.0	768.8	768.6	766.8
34°	768.9	772.8	772.8	773.7	772.8	771.8	769.2	768.7	764.3	763.5	761.5
34.5°	763.8	767.7	767.6	768.7	767.5	767.0	764.5	763.7	759.3	758.4	756.6
35°	758.5	762.8	762.3	763.9	762.3	762.0	759.2	758.1	753.8	753.2	751.5
35.5°	753.0	757.6	757.5	758.9	757.4	756.9	754.2	753.0	748.7	748.3	746.4
36°	748.4	752.6	752.2	753.7	752.1	751.7	749.0	747.7	743.5	742.9	741.0
36.5°	743.2	747.3	747.0	748.3	746.7	746.4	743.8	742.6	738.3	738.1	736.0
37°	738.1	742.2	742.0	742.8	741.8	741.4	738.6	737.4	732.9	732.4	730.1
37.5°	732.8	736.5	736.5	737.8	736.8	736.0	733.4	732.2	727.5	726.4	724.6
38°	726.6	731.0	731.0	732.4	731.1	730.4	727.8	726.9	722.0	721.0	719.2
38.5°	721.3	725.4	725.7	727.2	725.6	724.8	722.4	721.6	716.3	714.9	713.8
39°	716.0	720.3	720.2	721.6	720.2	719.7	716.5	715.8	710.9	709.8	708.3
39.5°	710.5	714.1	714.6	715.9	714.6	713.8	711.1	710.2	705.1	704.3	702.8
40°	704.4	708.4	709.1	709.9	708.8	708.3	705.6	704.3	699.5	698.3	696.8
40.5°	698.8	702.7	703.3	704.4	703.2	702.9	700.4	698.1	693.7	692.1	691.3
41°	693.5	697.0	697.5	698.6	697.3	697.0	694.2	691.9	687.9	686.6	685.1
41.5°	687.7	691.0	691.9	692.7	691.7	690.9	688.7	686.3	682.3	680.5	679.5
42°	681.6	684.9	686.2	686.9	685.9	685.2	682.6	680.2	676.2	674.4	673.3
42.5°	675.7	679.2	680.5	680.8	679.8	679.3	676.9	673.9	670.1	668.7	667.2
43°	669.7	672.9	674.3	674.6	673.8	673.2	670.5	668.1	663.9	662.8	661.4
43.5°	663.5	667.1	668.0	668.8	667.8	667.0	664.1	661.9	657.8	656.8	655.3
44°	657.8	661.2	662.3	662.5	661.8	661.4	658.2	656.0	651.6	650.8	649.0
44.5°	652.0	655.1	656.3	656.6	655.8	655.0	652.1	649.5	645.6	644.5	642.9

TEST NUMBER: P869724  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	645.4	648.3	650.3	650.6	649.6	648.8	646.0	643.2	639.2	638.0	636.4
45.5°	638.7	642.4	643.9	644.2	643.0	642.6	639.9	637.1	633.1	631.1	630.3
46°	633.0	636.1	637.4	637.6	636.7	636.2	633.5	630.8	626.6	624.9	623.8
46.5°	626.4	629.7	631.5	631.0	630.5	629.9	627.4	624.1	619.7	618.4	617.6
47°	620.2	623.3	624.8	625.0	624.0	623.5	620.8	618.1	613.6	612.1	611.1
47.5°	613.2	616.8	618.5	618.7	617.8	617.0	614.0	611.9	607.0	605.5	604.2
48°	606.9	610.5	611.7	611.9	611.1	610.9	607.8	605.0	600.7	598.9	597.5
48.5°	600.6	604.0	605.3	605.1	604.4	604.0	601.2	598.0	593.6	592.2	591.2
49°	593.6	597.1	598.5	598.8	597.9	597.4	594.2	591.4	587.4	585.5	584.1
49.5°	587.0	590.2	591.8	592.2	591.2	590.9	587.7	584.7	580.9	578.8	577.7
50°	580.3	583.8	584.9	585.2	584.6	584.1	581.1	578.1	573.9	572.3	570.8
50.5°	573.5	577.2	578.4	578.6	578.0	577.1	574.2	571.2	566.9	565.0	563.9
51°	566.3	570.2	571.4	571.5	571.2	570.2	567.2	564.5	559.8	557.9	556.8
51.5°	559.6	563.5	564.6	564.8	564.1	563.5	560.0	557.7	553.2	551.4	549.9
52°	552.6	556.4	557.8	557.9	557.4	556.4	553.3	550.8	546.5	544.1	543.1
52.5°	545.3	549.3	550.5	550.7	550.1	549.7	546.5	543.9	539.3	537.2	535.8
53°	537.8	542.1	543.5	543.5	542.8	542.6	539.6	536.4	532.0	529.9	528.7
53.5°	531.2	535.0	536.5	536.7	536.1	535.5	532.4	529.4	524.8	522.8	521.8
54°	524.2	527.8	529.2	529.3	529.1	528.2	525.2	522.1	518.1	515.5	514.4
54.5°	517.2	520.5	522.3	522.1	522.2	521.3	518.1	515.1	510.8	508.0	506.9
55°	509.5	513.5	515.0	514.8	515.0	513.8	510.9	507.8	503.4	501.0	500.0
55.5°	502.4	506.1	507.8	507.4	507.6	506.7	503.7	501.0	496.0	494.2	492.4
56°	495.3	498.8	500.4	500.2	500.5	499.2	496.2	493.2	488.6	486.6	484.8
56.5°	487.8	491.3	492.9	492.9	493.2	491.8	488.6	486.2	481.1	478.9	477.3
57°	480.1	483.8	485.7	485.5	485.9	484.5	481.4	478.6	474.1	471.4	469.6
57.5°	472.7	476.4	478.2	477.9	478.4	476.8	473.7	471.0	466.3	463.7	462.4
58°	465.3	469.1	470.7	470.5	470.6	469.4	466.3	463.4	458.8	456.3	454.8
58.5°	457.8	461.8	463.4	463.0	463.2	462.0	458.8	456.0	451.5	448.8	447.2
59°	450.0	453.9	455.6	455.2	455.9	454.1	451.2	448.0	443.8	441.4	439.8
59.5°	442.4	446.1	447.9	447.6	448.2	446.5	443.4	440.3	436.0	433.1	431.8
60°	434.6	438.4	440.0	439.8	440.3	438.8	435.4	432.5	428.5	425.5	424.0
60.5°	427.0	430.5	432.3	432.1	432.8	431.3	428.0	425.0	420.7	417.9	416.4
61°	419.5	422.9	424.6	424.3	425.2	423.3	420.2	417.3	412.9	410.2	408.8
61.5°	411.4	415.0	416.8	416.7	417.5	415.5	412.4	409.6	405.1	402.2	400.8
62°	403.5	407.1	409.2	409.1	409.8	407.9	404.5	401.6	397.5	394.2	392.5
62.5°	395.5	399.4	401.0	401.0	401.8	399.9	396.6	393.5	389.2	386.5	384.7
63°	387.6	391.5	392.8	393.0	393.8	392.1	388.6	385.6	381.3	378.4	376.7
63.5°	379.6	383.2	384.9	385.1	386.1	384.3	380.8	377.8	373.3	370.2	368.7
64°	371.8	375.4	376.9	376.9	377.9	375.9	372.8	369.6	365.4	362.3	360.7
64.5°	363.7	367.6	368.9	369.3	370.1	368.2	364.8	361.5	357.3	354.2	352.3
65°	355.7	359.3	360.9	361.3	361.9	360.1	356.6	353.3	349.4	346.1	344.5
65.5°	347.5	351.2	352.7	352.9	353.6	352.0	348.6	345.3	341.4	338.1	336.5
66°	339.6	343.1	344.6	344.7	345.6	343.8	340.2	336.9	333.0	330.1	328.6
66.5°	331.2	334.9	336.5	336.6	337.8	335.5	332.4	328.8	325.0	321.7	320.2
67°	323.0	326.8	328.3	328.5	329.6	327.7	324.2	320.6	316.7	313.5	311.7



TEST NUMBER: P869724  
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	314.9	318.4	319.9	320.2	321.6	319.3	316.1	312.4	308.6	305.1	303.6
68°	306.4	309.9	311.5	311.6	313.1	310.8	307.8	304.0	300.3	297.2	295.3
68.5°	298.2	302.0	303.4	303.9	305.3	302.7	299.5	295.7	292.2	289.1	287.2
69°	290.1	293.7	294.9	295.7	297.1	294.5	290.9	287.5	283.8	280.5	279.0
69.5°	281.3	285.3	286.7	286.8	288.5	286.3	282.8	279.5	275.6	272.2	270.3
70°	273.1	276.9	278.3	278.5	280.2	277.9	274.4	270.8	267.0	264.0	262.1
70.5°	264.9	268.4	269.7	270.3	272.1	269.6	266.1	262.6	258.9	255.6	253.7
71°	256.4	260.3	261.5	262.0	263.8	261.6	258.0	254.1	250.6	247.3	245.5
71.5°	247.9	251.8	253.1	253.6	255.4	253.0	249.5	245.6	242.1	238.9	237.2
72°	239.7	243.4	244.7	245.1	247.1	244.9	241.1	237.4	233.6	230.2	228.5
72.5°	231.3	234.7	236.2	236.6	238.8	236.4	233.0	228.7	225.1	221.9	220.3
73°	222.8	226.3	227.7	228.1	230.1	227.7	224.1	220.3	216.9	213.6	211.8
73.5°	214.6	217.9	219.5	219.7	222.0	219.5	215.8	211.8	208.7	205.1	203.6
74°	206.2	209.6	211.0	211.4	213.6	211.2	207.6	203.6	200.2	196.8	195.2
74.5°	197.8	201.4	202.9	203.0	205.1	203.0	199.3	195.1	191.8	188.5	186.7
75°	189.2	192.7	194.2	194.4	196.8	194.5	191.0	186.6	183.5	180.0	178.4
75.5°	181.2	184.5	186.0	185.9	188.6	186.0	182.5	178.8	175.2	172.1	170.3
76°	172.9	176.3	177.9	177.8	180.1	177.9	174.2	170.4	167.1	163.8	162.0
76.5°	164.6	168.0	169.5	169.3	172.0	169.5	165.8	162.3	158.7	155.2	153.6
77°	156.4	159.8	161.5	161.3	163.6	161.4	157.7	154.2	150.5	147.2	145.4
77.5°	148.1	151.5	153.1	153.1	155.6	153.2	149.7	145.8	142.6	139.1	137.6
78°	140.1	143.6	144.8	145.1	147.3	145.1	141.5	137.9	134.1	131.4	129.5
78.5°	132.0	135.3	137.0	137.2	139.3	136.9	133.3	129.5	126.3	123.0	121.5
79°	124.2	127.5	129.1	129.2	131.3	128.9	125.6	121.7	118.3	115.2	114.0
79.5°	116.1	119.4	121.0	121.2	123.2	121.0	117.6	113.8	110.5	107.6	106.0
80°	108.4	111.5	113.1	113.3	115.3	113.5	109.6	106.0	103.0	100.3	98.5
80.5°	100.9	103.9	105.4	105.8	107.7	105.7	102.4	98.7	95.4	92.6	91.2
81°	93.3	96.4	97.8	98.2	100.5	98.4	94.8	91.2	88.1	85.3	84.0
81.5°	85.9	88.8	90.4	90.6	92.5	90.8	87.4	83.8	80.6	78.1	76.9
82°	78.4	81.5	82.8	82.8	85.1	83.3	80.4	76.7	73.4	70.9	69.6
82.5°	71.3	74.2	75.6	75.7	78.0	76.2	73.2	69.6	66.5	63.9	62.8
83°	64.6	67.4	68.6	68.7	71.1	69.2	66.2	62.8	59.8	57.3	56.2
83.5°	57.8	60.6	61.9	62.0	64.1	62.2	59.4	56.0	53.1	50.8	49.7
84°	51.4	54.1	55.2	55.4	57.2	55.7	52.8	49.6	46.6	44.7	43.5
84.5°	45.2	47.8	48.8	49.1	50.8	49.4	46.4	43.5	40.6	38.5	37.6
85°	39.2	41.7	42.7	42.7	44.8	43.2	40.4	37.4	34.8	32.7	31.9
85.5°	33.6	35.9	36.9	36.9	38.5	37.1	34.4	31.7	29.3	27.5	26.6
86°	28.5	30.6	31.4	31.5	32.9	31.4	28.9	26.5	24.5	22.6	21.8
86.5°	23.9	25.8	26.6	26.6	27.3	26.2	24.0	21.5	19.7	18.4	17.8
87°	19.3	21.2	21.8	21.8	22.8	21.4	19.6	17.5	15.7	14.4	13.9
87.5°	15.3	17.0	17.6	17.6	18.3	17.5	15.7	13.7	12.0	10.9	10.3
88°	11.5	13.0	13.7	13.6	14.6	13.5	11.9	10.0	8.7	7.6	7.4
88.5°	7.8	9.1	9.7	9.7	10.8	10.0	8.6	7.0	5.7	5.0	4.5
89°	5.3	6.4	6.8	6.6	7.7	6.9	5.6	4.3	3.3	2.8	2.6
89.5°	3.4	4.2	4.5	4.3	4.9	4.2	3.2	2.3	1.6	1.2	1.0

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



TEST NUMBER: P869724  
CATALOG NUMBER: SMX18RLSFSD2W-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: P869724  
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	942.1	942.1	942.1	942.1	942.1	942.1
0.5°	941.9	941.8	942.8	941.6	941.6	941.4
1°	941.2	941.3	942.2	941.0	941.5	941.4
1.5°	941.1	941.6	942.0	940.9	941.4	941.4
2°	940.7	941.6	941.5	940.6	941.4	941.1
2.5°	940.5	940.9	941.3	940.5	941.1	940.5
3°	939.8	940.1	941.3	939.6	941.0	939.9
3.5°	939.4	939.4	940.5	939.4	940.2	939.5
4°	939.4	938.4	939.6	939.3	939.3	939.2
4.5°	938.3	938.1	938.8	938.1	938.2	938.7
5°	937.7	937.7	938.3	937.0	937.2	938.4
5.5°	935.9	936.2	937.1	935.8	936.6	937.1
6°	935.0	935.3	935.9	935.6	936.2	936.0
6.5°	934.2	934.2	935.2	934.9	935.2	935.3
7°	933.5	933.0	934.1	933.6	934.5	934.2
7.5°	931.5	932.0	932.4	932.5	933.4	933.0
8°	930.5	930.3	931.2	931.0	931.8	931.8
8.5°	929.3	929.2	930.2	929.5	930.5	930.6
9°	927.5	927.5	929.1	928.5	929.0	929.4
9.5°	926.4	926.1	926.7	926.9	927.5	927.8
10°	925.0	924.9	925.1	924.7	926.1	926.7
10.5°	923.2	923.5	923.4	922.8	924.6	925.6
11°	921.2	921.4	921.8	921.6	923.4	923.9
11.5°	919.7	919.7	920.3	919.9	922.1	922.0
12°	917.8	917.7	919.0	917.9	920.1	920.5
12.5°	915.7	915.8	916.4	916.1	918.2	918.5
13°	913.7	914.0	914.9	914.7	916.4	916.8
13.5°	912.0	912.2	912.7	912.4	914.7	914.7
14°	909.5	909.9	910.9	910.7	912.9	913.6
14.5°	907.6	907.7	908.7	908.6	911.1	911.3
15°	905.5	905.5	906.3	906.1	908.7	908.5
15.5°	903.5	902.7	904.0	904.1	906.0	906.1
16°	901.2	900.2	901.8	901.4	903.5	903.5
16.5°	898.5	897.4	899.0	899.6	900.8	901.6
17°	896.0	894.3	896.0	897.6	898.4	898.9
17.5°	892.9	891.4	893.5	894.7	895.7	895.9
18°	890.1	888.7	890.2	892.0	892.9	893.6
18.5°	886.6	885.8	886.6	889.1	889.8	890.5
19°	883.4	882.8	883.5	886.8	886.8	887.4
19.5°	880.4	879.3	880.7	883.4	883.9	884.7
20°	877.3	876.4	878.2	880.3	881.3	881.8
20.5°	874.0	873.4	874.9	877.6	877.7	878.7
21°	870.8	870.1	871.7	874.7	874.5	875.6
21.5°	867.5	866.3	868.3	871.0	870.8	871.8
22°	864.3	862.8	864.4	867.3	867.4	868.5

TEST NUMBER: P869724  
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	860.6	859.4	861.3	864.0	864.6	865.3
23°	857.4	856.1	858.1	860.4	861.6	862.3
23.5°	853.3	852.7	853.9	856.7	857.6	858.5
24°	849.8	849.0	850.1	852.6	853.4	855.0
24.5°	845.7	845.3	846.3	848.7	850.2	851.6
25°	842.1	841.7	843.4	845.1	846.9	847.8
25.5°	838.3	837.4	839.5	841.2	842.9	843.3
26°	834.2	833.5	835.6	837.1	839.2	839.8
26.5°	829.8	828.9	831.6	833.0	835.1	835.3
27°	826.0	824.9	827.5	829.1	830.8	831.5
27.5°	821.8	820.4	823.3	824.9	826.8	827.5
28°	817.7	816.5	819.4	820.8	823.1	823.5
28.5°	813.2	812.1	814.7	816.1	818.9	818.8
29°	809.2	807.6	810.3	811.9	814.5	814.5
29.5°	804.4	803.0	805.6	807.4	809.9	810.6
30°	799.8	798.9	801.3	803.1	805.6	806.3
30.5°	795.7	794.1	796.5	798.1	801.2	801.9
31°	790.9	789.5	792.0	793.7	797.0	797.2
31.5°	786.0	784.7	787.2	789.0	792.0	793.1
32°	781.2	779.7	782.9	784.7	787.6	788.1
32.5°	776.5	774.9	778.2	779.8	782.7	783.3
33°	771.7	770.4	773.5	775.1	778.4	778.8
33.5°	766.8	765.1	768.2	770.0	773.8	774.0
34°	762.1	759.9	763.3	765.1	768.8	768.9
34.5°	756.4	755.0	758.1	760.2	763.8	763.8
35°	751.2	750.1	753.1	754.7	758.5	758.5
35.5°	746.2	744.8	747.3	749.5	753.1	753.0
36°	740.9	739.7	742.5	744.7	748.3	748.4
36.5°	736.1	734.2	737.2	739.7	743.4	743.2
37°	730.9	728.8	731.8	734.2	737.9	738.1
37.5°	725.4	723.6	726.0	729.0	732.6	732.8
38°	719.2	718.0	720.5	723.1	726.9	726.6
38.5°	714.3	712.2	714.9	717.5	721.3	721.3
39°	708.7	706.8	709.3	712.2	715.8	716.0
39.5°	702.7	701.2	703.3	706.2	709.8	710.5
40°	697.0	695.2	698.2	700.7	704.0	704.4
40.5°	691.0	689.4	692.0	695.0	698.6	698.8
41°	684.9	683.7	686.1	688.7	691.9	693.5
41.5°	679.4	677.5	680.1	683.2	686.3	687.7
42°	673.3	671.5	674.4	677.2	680.1	681.6
42.5°	667.1	665.8	668.0	670.9	674.2	675.7
43°	661.6	659.9	662.2	664.9	668.2	669.7
43.5°	655.4	653.8	655.9	659.2	662.6	663.5
44°	648.7	647.3	649.7	653.1	656.7	657.8
44.5°	642.7	641.1	643.6	646.6	650.4	652.0

TEST NUMBER: P869724  
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	636.5	634.6	637.3	640.7	643.9	645.4
45.5°	630.5	628.3	631.2	634.6	637.2	638.7
46°	623.5	621.7	624.8	627.8	630.8	633.0
46.5°	617.1	615.5	618.2	621.5	624.6	626.4
47°	610.8	608.6	611.3	614.7	618.2	620.2
47.5°	603.8	602.2	605.0	608.5	611.6	613.2
48°	597.2	595.3	598.1	601.7	605.0	606.9
48.5°	590.6	588.7	591.5	595.2	598.8	600.6
49°	583.8	582.5	584.9	588.3	592.3	593.6
49.5°	577.0	575.5	578.1	581.8	585.3	587.0
50°	570.2	568.5	571.0	574.9	578.6	580.3
50.5°	563.3	561.7	564.2	568.3	571.7	573.5
51°	556.4	554.9	557.3	561.4	564.9	566.3
51.5°	549.6	547.8	550.1	554.2	557.8	559.6
52°	542.3	540.5	543.3	546.9	550.8	552.6
52.5°	535.0	533.8	536.4	540.1	543.5	545.3
53°	528.4	526.5	529.2	532.9	536.8	537.8
53.5°	521.1	519.2	522.1	525.9	529.4	531.2
54°	513.7	511.9	514.7	518.4	522.1	524.2
54.5°	506.4	504.7	507.4	511.2	514.9	517.2
55°	499.6	497.6	500.4	504.1	507.4	509.5
55.5°	492.1	490.3	493.2	496.7	500.7	502.4
56°	484.5	483.0	485.6	489.7	493.3	495.3
56.5°	477.0	475.4	478.2	482.1	485.8	487.8
57°	469.9	467.8	470.6	474.7	478.0	480.1
57.5°	462.2	460.5	463.2	466.8	470.5	472.7
58°	454.5	452.7	455.6	459.3	463.0	465.3
58.5°	446.9	445.0	448.1	451.7	455.5	457.8
59°	439.4	437.4	440.3	443.9	447.7	450.0
59.5°	431.5	429.4	432.5	436.2	439.8	442.4
60°	423.8	421.7	424.8	428.5	432.1	434.6
60.5°	416.2	414.2	416.5	420.9	424.3	427.0
61°	408.3	406.3	409.2	412.9	416.5	419.5
61.5°	400.3	398.4	401.4	405.2	409.0	411.4
62°	392.5	390.6	393.4	397.2	401.0	403.5
62.5°	384.7	382.7	385.5	389.2	392.9	395.5
63°	376.5	374.6	377.3	380.8	385.0	387.6
63.5°	368.7	366.6	369.3	372.9	376.9	379.6
64°	360.4	358.2	361.1	365.1	368.9	371.8
64.5°	352.2	350.4	353.1	356.8	360.8	363.7
65°	344.4	342.5	345.0	348.4	352.8	355.7
65.5°	336.1	334.1	337.1	340.4	344.5	347.5
66°	327.9	326.2	328.6	332.4	336.4	339.6
66.5°	319.8	317.4	320.6	324.0	328.1	331.2
67°	311.3	309.5	312.1	315.7	320.0	323.0

TEST NUMBER: P869724  
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	303.5	301.3	304.0	307.6	311.8	314.9
68°	295.2	292.6	295.7	299.2	303.7	306.4
68.5°	286.7	284.6	287.1	290.8	295.1	298.2
69°	278.5	276.1	278.8	282.4	286.7	290.1
69.5°	270.0	267.7	270.5	274.1	278.3	281.3
70°	261.9	259.4	262.5	265.9	269.8	273.1
70.5°	253.7	251.0	253.9	257.3	261.8	264.9
71°	245.2	242.7	245.7	249.3	253.3	256.4
71.5°	236.8	234.2	237.0	240.4	244.9	247.9
72°	228.4	226.1	228.4	232.1	236.4	239.7
72.5°	219.9	217.6	220.3	223.8	228.0	231.3
73°	211.5	209.2	211.7	215.4	219.5	222.8
73.5°	203.4	200.8	203.3	207.0	211.2	214.6
74°	195.1	192.3	194.9	198.6	202.6	206.2
74.5°	186.6	184.2	186.5	190.1	194.1	197.8
75°	178.4	175.9	178.4	181.9	185.8	189.2
75.5°	170.4	167.8	169.9	173.8	177.7	181.2
76°	162.0	159.3	161.8	165.3	169.2	172.9
76.5°	153.7	151.2	153.5	157.1	161.3	164.6
77°	145.3	143.1	145.5	149.1	153.0	156.4
77.5°	137.4	135.0	137.5	141.2	145.0	148.1
78°	129.3	127.0	129.5	132.9	137.0	140.1
78.5°	121.4	119.2	121.5	124.9	129.0	132.0
79°	113.7	111.1	113.7	117.1	121.1	124.2
79.5°	105.9	103.4	105.8	109.2	113.2	116.1
80°	98.4	96.0	98.1	101.7	105.3	108.4
80.5°	91.1	88.5	90.8	94.0	97.5	100.9
81°	83.9	81.1	83.3	86.6	90.2	93.3
81.5°	76.5	73.9	76.0	79.4	83.0	85.9
82°	69.3	67.1	68.9	72.3	75.5	78.4
82.5°	62.5	60.3	62.3	65.2	68.6	71.3
83°	56.1	53.7	55.8	58.7	62.0	64.6
83.5°	49.6	47.4	49.1	52.0	55.4	57.8
84°	43.4	41.3	43.1	45.8	48.9	51.4
84.5°	37.5	35.7	37.3	39.9	42.8	45.2
85°	31.7	30.3	31.9	34.3	37.0	39.2
85.5°	26.5	25.5	26.8	28.9	31.6	33.6
86°	21.7	20.7	22.1	24.2	26.6	28.5
86.5°	17.7	16.5	17.7	19.7	21.9	23.9
87°	14.0	12.6	13.8	15.5	17.6	19.3
87.5°	10.3	8.8	10.0	11.8	13.7	15.3
88°	7.2	6.2	6.8	8.2	9.7	11.5
88.5°	4.6	3.9	4.6	5.6	6.8	7.8
89°	2.6	2.4	2.9	3.7	4.5	5.3
89.5°	1.1	1.5	1.9	2.4	3.0	3.4

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869724  
CATALOG NUMBER: SMX18RLSFSD2W-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)