

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: P869731

Luminaire Tested: **SMX18SLSFS010-2000LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869731  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18SLSFS010-2000LM-2700K  
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT  
 Ballast/Driver: -

**Summary**

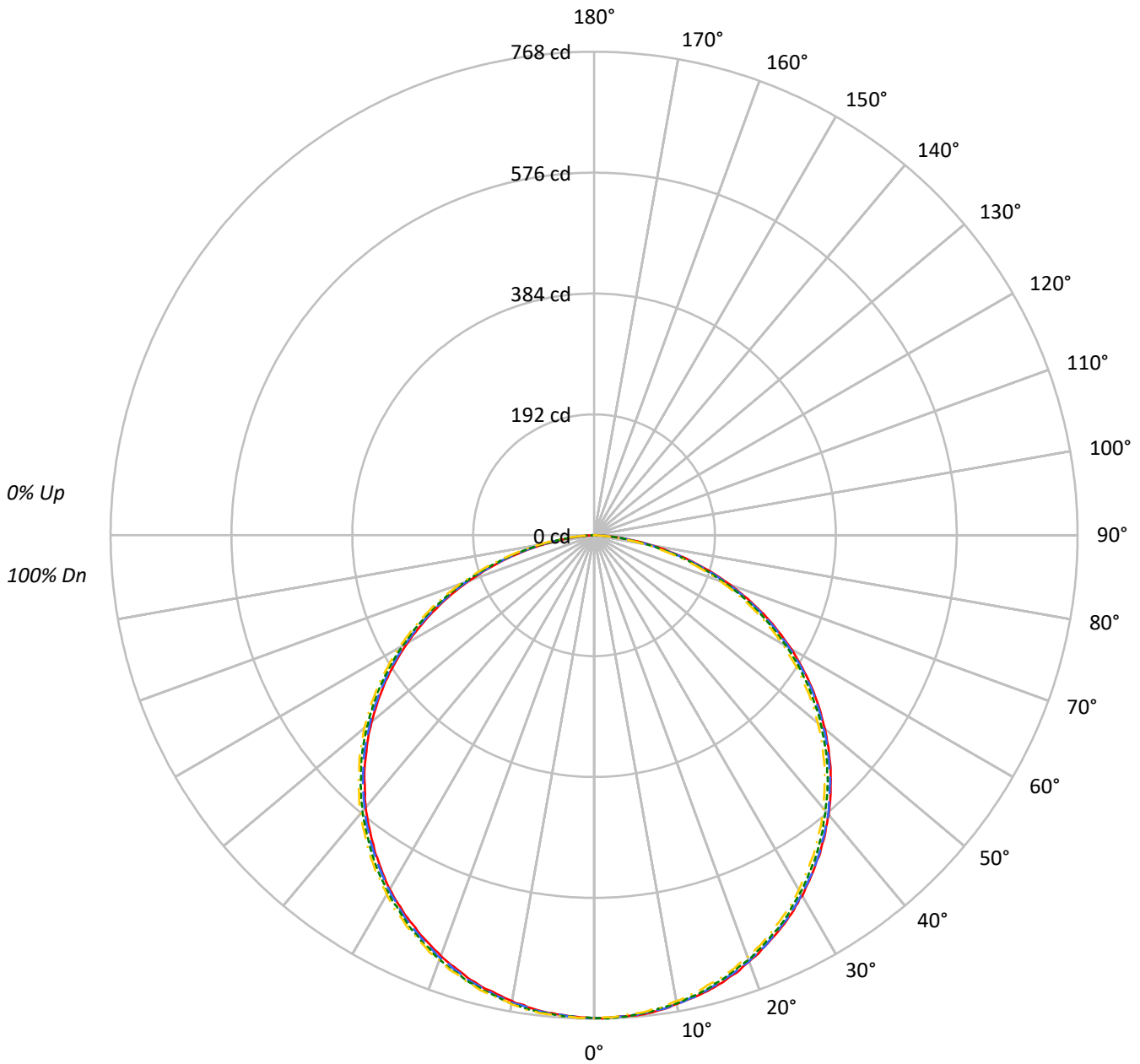
Lumens per Lamp: N/A  
 Luminaire Lumens: 2239.6 lumens  
 Efficiency: N/A  
 Efficacy: 94.5 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 23.7  
 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									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	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	102	102	102	102	102	102	102	102	102	102	102	102	100																
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	86	86	86	86	86	86	86	86	86	86	84																
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	72	72	72	72	72	72	72	72	72	72	72	72	69																
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	60	60	60	60	60	60	60	60	60	60	60	60	58																
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	52	52	52	52	52	52	52	52	52	52	52	52	50																
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	45	45	45	45	45	45	45	45	45	43																
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	39	39	39	39	39	39	39	39	39	37																
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	35	35	35	35	35	35	35	35	35	33																
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	31	31	31	31	31	31	31	31	31	29																
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	28	28	28	28	28	28	28	28	28	28	26																
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	26	26	26	26	26	26	26	26	26	24																

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	3670	3670	3670	3670
5°	3678	3669	3660	3668
10°	3673	3669	3650	3671
15°	3680	3656	3638	3658
20°	3669	3655	3622	3652
25°	3661	3642	3600	3638
30°	3654	3620	3586	3617
35°	3638	3603	3557	3599
40°	3620	3573	3524	3574
45°	3595	3543	3482	3545
50°	3563	3503	3432	3495
55°	3519	3454	3370	3444
60°	3458	3375	3275	3360
65°	3369	3262	3141	3251
70°	3212	3088	2940	3074
75°	2976	2824	2632	2789
80°	2609	2391	2141	2347
85°	1998	1685	1323	1625

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.7	3.2
10°-20°	208.5	9.3
20°-30°	317.5	14.2
30°-40°	385.5	17.2
40°-50°	403.7	18.0
50°-60°	369.1	16.5
60°-70°	284.2	12.7
70°-80°	160.6	7.2
80°-90°	37.8	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°	598.7	26.7
0°-40°	984.2	43.9
0°-60°	1757.0	78.5
0°-90°	2239.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2239.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	767	767	767	767	767	
5°	766	764	762	764	766	73
15°	743	738	734	739	743	210
25°	694	690	682	689	694	320
35°	623	617	609	616	623	389
45°	531	524	515	524	531	410
55°	422	414	404	413	422	377
65°	298	288	278	287	298	294
75°	161	153	142	151	161	170
85°	36	31	24	30	36	44
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°	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2
0.5°	767.0	766.8	767.3	766.7	767.4	768.1	766.7	767.2	766.7	767.0	766.3
1°	767.7	766.3	767.4	767.1	767.0	767.4	766.1	766.6	766.2	766.7	767.2
1.5°	767.0	767.0	766.6	767.1	768.0	767.2	765.6	766.4	766.4	766.1	767.0
2°	766.5	766.0	766.3	767.0	767.7	766.9	766.6	765.6	765.4	765.5	765.5
2.5°	766.4	766.7	766.1	767.0	767.0	766.9	765.7	765.5	765.2	765.2	765.2
3°	765.3	766.9	765.9	766.2	766.3	766.2	764.7	765.9	765.0	764.4	765.4
3.5°	765.8	767.0	765.6	766.1	766.5	765.5	764.7	765.4	764.1	764.2	764.2
4°	765.6	766.2	765.4	766.3	766.0	765.0	763.1	764.7	763.4	764.5	763.4
4.5°	765.5	766.1	764.4	766.0	765.2	764.9	763.1	763.2	763.4	763.8	763.3
5°	765.8	765.4	764.4	764.9	764.1	764.5	762.5	762.8	762.1	761.9	763.9
5.5°	765.2	764.9	763.8	763.5	763.4	763.5	762.2	761.6	762.0	761.0	762.8
6°	764.9	764.9	763.2	763.7	763.4	762.0	761.6	761.4	761.3	760.3	761.4
6.5°	764.1	764.5	762.6	762.3	762.5	762.2	760.5	760.3	760.2	759.7	760.8
7°	763.7	763.9	761.9	762.0	761.6	761.2	758.4	758.9	759.2	758.4	760.7
7.5°	762.3	762.1	760.8	760.5	759.7	760.5	758.3	758.1	757.7	757.5	759.2
8°	761.5	760.5	760.3	760.3	758.5	759.6	757.7	756.8	756.9	756.6	757.0
8.5°	760.6	759.5	760.0	758.4	758.0	758.6	756.4	756.0	754.7	755.8	756.2
9°	759.5	758.3	758.7	758.0	757.0	757.6	754.5	755.1	753.7	754.2	755.1
9.5°	757.7	757.8	757.0	756.2	756.2	756.5	752.6	753.1	753.5	753.2	754.8
10°	756.1	756.2	755.5	755.7	755.3	755.1	751.6	751.7	751.4	752.6	753.4
10.5°	755.1	755.1	755.1	753.7	753.9	753.0	750.7	750.3	749.8	750.9	751.9
11°	753.8	753.8	753.9	753.1	752.3	751.9	749.0	749.8	748.3	748.7	750.1
11.5°	752.2	753.1	751.9	751.0	749.7	750.8	747.6	747.9	746.0	747.8	748.7
12°	751.5	751.2	751.0	749.4	749.0	749.5	745.4	747.2	745.0	745.7	747.9
12.5°	750.2	749.6	750.4	748.1	748.0	748.0	743.8	745.6	742.9	744.2	745.9
13°	748.8	749.3	748.4	746.3	746.3	746.2	742.6	743.3	741.5	742.9	743.5
13.5°	747.3	747.9	745.9	744.9	744.7	744.3	740.6	742.1	740.8	741.5	741.3
14°	745.9	746.2	744.2	743.9	743.1	741.1	737.9	740.0	739.0	740.1	740.3
14.5°	744.2	743.9	742.2	741.4	741.1	740.0	736.0	737.6	736.7	737.8	738.5
15°	743.0	741.8	740.7	740.4	738.1	738.6	734.7	735.8	734.5	735.0	737.2
15.5°	740.6	740.2	739.0	737.9	736.4	736.4	733.3	733.6	732.9	732.9	735.4
16°	739.3	738.1	736.6	736.3	735.2	734.7	731.2	731.5	731.0	731.6	733.3
16.5°	736.9	736.1	734.6	733.8	732.6	732.8	729.0	729.6	727.8	729.6	731.0
17°	734.1	733.6	732.5	732.5	730.4	730.6	726.9	727.8	725.3	726.7	728.0
17.5°	732.5	731.8	730.7	729.3	727.7	728.3	724.9	725.6	723.1	724.2	726.0
18°	731.0	729.9	728.5	727.2	726.1	725.6	723.0	722.8	720.8	721.9	723.9
18.5°	728.4	727.8	726.4	724.8	723.3	723.5	719.5	719.9	719.0	719.5	720.7
19°	725.3	725.9	723.9	722.6	721.8	721.0	717.2	717.5	716.1	717.2	717.7
19.5°	722.9	723.8	722.2	720.2	719.2	718.8	715.2	714.8	714.0	714.8	715.9
20°	720.6	720.7	720.0	718.4	718.0	716.6	712.7	712.3	711.4	712.1	714.1
20.5°	717.9	717.8	716.6	715.4	715.2	713.8	710.4	709.8	708.0	709.4	712.3
21°	716.3	715.1	714.2	713.0	712.1	711.1	707.9	706.9	705.5	707.6	709.0
21.5°	713.7	713.0	712.1	711.3	709.3	708.4	705.1	704.0	702.7	705.1	705.8
22°	710.2	710.1	709.4	708.7	706.8	705.0	702.9	702.6	699.8	701.5	703.3

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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°	707.3	707.3	707.3	705.5	703.6	702.0	700.0	699.4	697.1	698.6	700.1
23°	704.8	704.4	704.3	702.3	700.8	700.2	696.7	696.9	694.3	696.2	697.6
23.5°	701.9	702.2	700.8	699.4	698.3	697.2	693.6	694.1	691.9	693.9	694.6
24°	699.2	699.6	697.9	697.3	695.0	694.1	690.9	690.4	688.9	690.1	691.8
24.5°	696.5	696.3	694.9	693.9	692.2	691.1	686.7	686.8	685.0	686.3	688.5
25°	693.5	692.7	692.2	690.7	689.9	688.0	683.7	684.4	682.1	683.3	685.0
25.5°	690.3	689.9	688.9	687.3	686.6	685.0	681.3	681.7	679.6	680.3	682.0
26°	687.6	687.1	685.8	684.3	684.1	681.9	677.9	678.4	676.3	677.6	679.9
26.5°	684.6	684.4	683.3	681.0	680.1	678.1	674.5	675.2	673.3	673.9	676.1
27°	681.2	681.1	680.2	678.1	677.2	674.5	671.7	671.8	669.3	670.2	672.2
27.5°	678.3	678.5	676.2	675.3	673.5	670.9	668.4	668.4	665.6	667.1	668.6
28°	675.3	674.0	673.0	672.2	669.0	667.7	665.0	664.2	663.0	664.8	665.4
28.5°	670.5	670.6	669.5	668.8	665.2	663.7	661.4	660.9	659.7	661.2	661.4
29°	667.7	667.6	665.9	665.1	662.3	661.1	658.0	657.5	656.6	657.8	658.3
29.5°	663.4	664.8	663.0	661.6	658.7	657.8	654.5	653.7	652.2	654.0	654.8
30°	661.4	661.0	659.1	657.5	655.3	653.3	650.6	649.8	649.1	649.8	651.1
30.5°	657.3	656.9	655.3	653.3	652.2	649.5	646.3	646.2	645.5	645.8	646.8
31°	653.0	652.6	651.7	650.0	647.9	645.5	642.5	642.0	641.6	642.2	643.7
31.5°	649.4	648.6	648.4	646.1	644.1	641.7	638.2	637.7	637.3	637.8	639.5
32°	645.7	645.4	644.0	642.9	640.0	638.7	634.4	634.4	633.3	633.9	635.7
32.5°	641.9	641.7	640.9	638.5	635.9	635.3	630.6	629.8	628.8	630.3	631.3
33°	638.3	638.0	637.5	635.0	632.7	631.2	627.0	625.9	624.9	626.3	627.9
33.5°	634.2	634.1	633.5	630.6	628.4	627.2	622.7	622.9	620.9	622.1	623.1
34°	629.7	630.7	629.3	626.8	625.2	622.7	619.1	619.1	616.8	618.3	619.3
34.5°	625.6	626.8	625.6	622.4	620.9	618.8	615.5	614.5	613.4	613.8	615.4
35°	623.0	622.6	621.6	618.0	616.9	614.8	610.8	610.1	609.0	609.9	611.6
35.5°	618.9	618.4	617.6	614.8	612.6	610.1	606.1	605.3	603.7	606.4	607.2
36°	614.0	613.9	613.4	610.7	608.3	605.1	602.0	602.2	599.6	602.1	603.6
36.5°	609.7	609.9	608.1	606.9	603.5	600.9	597.3	597.4	595.2	597.3	598.4
37°	606.2	606.1	604.0	601.9	599.1	596.8	592.9	593.5	590.7	592.3	593.8
37.5°	602.0	601.1	600.4	597.4	595.2	592.1	589.0	588.3	586.4	587.9	589.7
38°	597.5	596.9	595.6	593.7	590.6	587.7	585.1	583.1	582.4	584.1	585.7
38.5°	592.2	592.7	591.0	588.5	585.4	583.2	580.6	578.8	577.7	580.2	581.5
39°	588.1	587.8	587.2	584.1	580.7	579.4	575.6	574.6	573.1	575.6	576.8
39.5°	583.5	583.1	582.8	579.1	576.5	574.8	571.0	569.8	568.9	570.0	571.6
40°	579.7	578.5	578.4	574.5	572.1	569.8	566.7	565.3	564.3	565.5	566.8
40.5°	575.3	574.4	573.7	569.8	567.0	564.8	561.5	561.1	559.4	560.5	562.3
41°	570.5	569.8	568.4	566.1	562.6	560.1	556.3	555.8	554.8	555.2	557.6
41.5°	565.9	565.1	563.7	561.4	557.9	555.9	551.8	550.5	549.0	550.8	552.7
42°	560.8	559.9	559.0	556.5	553.3	550.4	546.9	546.1	544.3	545.9	547.9
42.5°	556.1	555.7	553.6	552.1	548.6	545.7	541.9	540.9	539.2	541.5	543.7
43°	551.2	551.4	548.7	546.6	543.7	541.7	537.0	536.4	534.6	536.0	538.1
43.5°	546.1	546.4	544.7	541.4	539.3	536.7	532.3	530.8	530.0	531.6	533.3
44°	541.4	541.0	539.6	536.4	534.2	531.0	527.4	525.9	525.2	526.7	528.2
44.5°	536.4	536.2	534.4	531.3	528.2	525.7	522.7	520.9	519.8	522.1	523.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	531.3	530.5	529.2	526.4	523.7	520.8	517.3	516.1	514.7	516.3	518.4
45.5°	526.6	525.9	523.8	522.2	519.0	516.3	512.5	510.8	509.2	511.5	513.1
46°	521.2	521.2	518.8	516.6	514.0	511.2	506.3	505.4	503.7	506.3	508.4
46.5°	515.5	515.2	513.8	510.8	508.9	505.9	501.5	500.1	498.6	501.2	503.1
47°	510.6	510.1	508.2	505.9	503.8	500.6	496.0	494.9	493.5	495.8	498.1
47.5°	505.5	504.8	502.7	500.3	498.2	495.1	490.7	489.6	488.5	489.9	492.4
48°	500.4	500.0	497.2	495.3	492.5	489.9	485.9	484.6	483.1	484.6	486.6
48.5°	494.4	494.4	492.4	489.9	486.7	484.2	480.2	479.4	477.9	478.9	481.8
49°	489.2	489.2	487.2	484.5	481.5	478.6	475.2	473.9	472.2	473.7	475.9
49.5°	483.8	484.1	481.7	479.1	475.9	472.8	469.3	468.3	466.6	468.7	469.8
50°	478.8	478.5	475.7	473.4	470.7	467.8	463.5	463.1	461.1	463.3	464.7
50.5°	472.8	472.8	470.4	467.6	465.7	462.9	458.3	457.5	455.3	457.3	459.4
51°	467.0	467.1	464.7	462.3	460.2	456.8	452.3	451.4	449.7	451.2	453.7
51.5°	461.8	461.6	459.5	456.7	454.8	450.9	447.5	445.5	444.0	445.8	447.9
52°	456.7	455.6	454.0	451.2	448.4	446.0	442.0	440.4	438.2	440.3	442.2
52.5°	451.1	450.2	448.2	445.6	442.2	440.0	436.4	434.8	432.8	434.1	436.4
53°	445.3	444.8	442.4	439.7	436.7	433.5	430.3	428.8	426.8	429.2	430.9
53.5°	439.1	438.8	436.7	434.5	431.2	427.8	424.8	422.3	421.2	423.4	425.0
54°	433.8	433.5	431.5	428.1	425.2	422.6	418.5	416.7	415.1	417.0	419.5
54.5°	428.4	427.7	425.6	422.1	420.1	417.0	411.8	410.5	409.9	410.8	413.5
55°	421.9	421.6	420.1	416.2	414.1	411.0	406.1	405.2	404.0	405.0	407.3
55.5°	415.8	415.3	413.7	410.8	407.9	404.5	400.5	398.8	397.8	399.1	401.0
56°	410.4	409.3	407.3	404.7	401.5	398.3	394.7	392.9	391.9	393.1	395.6
56.5°	404.2	403.8	401.8	398.3	395.7	392.1	388.5	387.5	385.8	387.6	389.6
57°	398.0	397.9	395.3	392.1	389.8	386.4	382.4	381.3	379.3	381.6	383.8
57.5°	392.1	391.8	389.6	386.1	383.9	380.6	375.9	374.4	373.3	375.1	377.5
58°	386.1	385.2	383.5	379.8	377.7	374.1	369.7	368.3	367.2	368.7	370.9
58.5°	379.8	378.8	377.0	373.7	371.2	367.5	363.5	362.3	361.2	362.4	364.7
59°	373.7	373.3	370.6	367.6	365.3	361.6	357.7	356.1	354.6	356.4	358.3
59.5°	367.8	366.9	364.8	362.0	359.2	355.4	351.4	350.0	348.4	350.5	352.1
60°	361.4	360.6	358.2	355.7	352.7	349.2	345.6	343.8	342.3	344.2	346.4
60.5°	355.2	354.1	351.9	349.5	345.7	343.1	339.2	337.5	336.0	337.4	340.1
61°	348.9	347.5	345.5	342.8	339.7	336.7	333.0	330.9	329.8	331.4	333.8
61.5°	342.0	341.2	339.2	336.2	333.4	330.2	326.7	324.2	323.0	324.8	327.3
62°	336.1	334.8	332.8	329.7	327.0	323.8	320.3	318.1	316.5	318.5	320.8
62.5°	329.5	328.5	326.3	323.4	320.4	317.6	313.6	311.6	310.0	312.0	314.1
63°	323.3	322.0	319.8	317.1	314.2	311.1	307.0	305.4	303.7	305.3	307.5
63.5°	317.3	315.4	313.5	310.2	308.0	304.6	300.7	298.7	297.5	298.6	301.4
64°	310.3	309.3	307.0	303.9	301.7	298.0	293.8	292.1	290.9	292.3	295.0
64.5°	303.9	302.8	300.5	297.1	294.7	291.6	287.0	285.5	284.0	285.5	288.3
65°	297.6	296.5	294.0	290.5	288.2	284.9	280.4	278.9	277.5	279.1	281.6
65.5°	291.0	289.8	287.6	283.7	281.7	278.1	273.7	272.4	271.1	272.6	275.1
66°	283.7	283.1	280.5	277.0	275.0	271.5	267.1	265.4	264.6	265.8	268.4
66.5°	276.9	276.2	273.7	270.6	268.3	264.9	260.4	258.9	257.9	259.0	261.4
67°	270.6	269.3	267.0	263.8	261.8	258.2	254.2	252.1	251.3	252.3	254.9



TEST NUMBER: P869731  
 CATALOG NUMBER: SMX18SLSFS010-2000LM-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	263.7	262.5	260.2	256.8	255.0	251.5	247.5	245.2	244.5	245.5	247.9
68°	256.9	255.9	253.4	249.9	248.4	244.7	240.7	238.8	237.7	239.1	241.5
68.5°	250.1	249.2	246.8	243.5	241.5	238.0	233.8	232.2	230.8	232.1	234.9
69°	243.4	242.7	240.1	237.0	235.1	231.0	226.9	225.1	223.9	225.2	228.1
69.5°	236.9	235.9	233.2	229.5	227.9	223.9	220.0	218.0	217.1	218.2	221.5
70°	229.6	229.0	226.2	222.7	220.8	217.3	213.2	211.4	210.2	211.4	214.2
70.5°	222.8	222.2	219.3	216.0	214.3	210.7	206.7	204.8	203.7	204.9	207.6
71°	216.0	215.4	212.9	209.4	207.5	204.0	199.9	198.1	197.0	198.1	200.6
71.5°	209.3	208.7	205.9	202.1	200.5	197.0	192.9	190.9	190.0	191.3	193.8
72°	202.6	201.6	198.8	195.3	193.8	190.0	186.0	184.1	183.4	184.5	187.2
72.5°	195.8	194.4	191.8	188.7	186.9	183.3	179.4	177.6	176.5	177.8	180.4
73°	188.8	187.4	184.9	181.5	180.1	176.7	172.7	170.5	169.4	171.0	173.6
73.5°	181.7	180.6	178.3	174.7	173.1	169.6	165.9	163.6	162.6	164.6	166.7
74°	174.9	173.7	171.1	167.9	166.2	162.8	159.2	157.0	155.9	157.5	159.9
74.5°	168.0	166.8	164.4	160.7	159.6	156.1	152.4	150.3	149.3	150.7	153.0
75°	161.0	159.9	157.5	153.8	152.8	149.1	145.5	143.6	142.4	144.0	146.3
75.5°	154.2	153.3	150.7	147.2	145.9	142.4	139.1	136.6	135.8	137.6	139.7
76°	147.6	146.6	144.1	140.4	139.1	135.6	132.2	129.9	129.2	130.7	133.0
76.5°	140.7	139.8	137.3	133.7	132.6	129.0	125.4	123.6	122.5	123.9	126.1
77°	134.2	132.8	130.6	126.9	125.8	122.2	118.9	116.8	115.9	117.1	119.4
77.5°	127.6	126.1	124.0	120.4	119.0	115.5	112.3	110.2	109.3	110.7	113.0
78°	120.7	119.4	117.3	113.9	112.5	109.1	106.0	103.5	102.8	104.1	106.4
78.5°	114.1	112.8	110.7	107.3	106.1	102.5	99.2	97.3	96.4	97.7	99.9
79°	107.7	106.3	104.1	100.6	99.5	95.9	92.7	90.9	89.9	91.2	93.4
79.5°	101.2	99.9	97.7	94.3	93.0	89.7	86.5	84.7	83.8	85.2	87.2
80°	94.7	93.2	91.2	88.0	86.8	83.6	80.4	78.6	77.7	79.1	81.2
80.5°	88.4	87.0	85.1	81.8	80.8	77.4	74.4	72.5	71.5	73.1	75.3
81°	82.1	80.8	79.1	75.7	74.7	71.4	68.3	66.5	65.7	67.1	69.3
81.5°	75.9	74.8	72.9	69.6	68.6	65.4	62.4	60.7	60.1	61.1	63.2
82°	69.8	68.8	66.6	63.5	62.7	59.6	56.7	54.9	54.2	55.4	57.4
82.5°	63.7	62.9	60.6	57.5	56.9	53.8	51.3	49.4	48.7	49.8	51.8
83°	57.8	56.7	54.8	52.0	51.4	48.4	45.8	44.1	43.4	44.6	46.6
83.5°	52.3	51.0	49.1	46.6	45.9	43.0	40.4	38.8	38.3	39.3	41.1
84°	46.8	45.7	43.8	41.4	40.7	37.9	35.3	33.7	33.1	34.3	36.1
84.5°	41.6	40.5	38.8	36.3	35.6	32.9	30.5	29.0	28.6	29.6	31.1
85°	36.4	35.4	33.8	31.4	30.7	28.2	25.9	24.4	24.1	25.0	26.6
85.5°	31.5	30.6	29.1	26.8	26.1	23.6	21.4	20.3	20.0	20.7	22.2
86°	27.0	26.1	24.7	22.6	21.8	19.6	17.7	16.4	16.2	16.9	18.3
86.5°	22.7	22.1	20.8	18.9	17.9	16.0	14.4	13.4	13.1	14.0	14.9
87°	18.9	18.3	17.1	15.3	14.6	12.9	11.3	10.4	10.3	10.9	12.1
87.5°	15.3	14.8	13.7	12.1	11.5	9.9	8.5	7.6	7.6	8.2	9.2
88°	12.1	11.6	10.6	9.0	8.6	7.2	5.9	5.2	5.2	5.7	6.6
88.5°	9.0	8.5	7.7	6.4	6.3	4.9	3.8	3.1	3.0	3.5	4.3
89°	6.4	6.1	5.4	4.4	4.4	3.1	2.0	1.6	1.4	1.7	2.4
89.5°	4.5	4.2	3.6	2.7	2.4	1.5	0.7	1.4	1.2	1.6	0.9

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



TEST NUMBER: P869731  
CATALOG NUMBER: SMX18SLSFS010-2000LM-2700K

**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: P869731  
 CATALOG NUMBER: SMX18SLSFS010-2000LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	767.2	767.2	767.2	767.2	767.2	767.2
0.5°	767.8	766.3	768.2	766.7	766.7	767.0
1°	767.1	766.1	768.5	767.0	766.5	767.7
1.5°	766.9	767.0	767.9	767.0	766.7	767.0
2°	766.4	766.8	767.0	767.0	767.8	766.5
2.5°	765.9	765.6	767.9	766.4	766.5	766.4
3°	766.7	765.1	767.8	765.9	767.2	765.3
3.5°	766.1	765.9	766.9	765.5	766.6	765.8
4°	765.9	765.2	766.8	765.7	765.6	765.6
4.5°	765.8	764.4	766.3	765.3	765.5	765.5
5°	765.2	763.8	766.5	764.7	765.0	765.8
5.5°	763.4	763.1	766.2	764.4	765.4	765.2
6°	762.5	762.8	766.3	764.1	764.1	764.9
6.5°	761.7	763.1	765.3	764.1	763.8	764.1
7°	761.3	761.3	764.5	762.7	763.5	763.7
7.5°	760.4	761.1	763.6	762.3	763.4	762.3
8°	759.3	760.2	761.7	761.6	762.3	761.5
8.5°	758.0	758.7	760.7	760.5	760.2	760.6
9°	757.0	757.8	760.5	758.7	760.1	759.5
9.5°	755.1	756.9	759.1	757.7	758.5	757.7
10°	754.1	755.7	757.3	756.3	757.0	756.1
10.5°	752.4	754.1	756.1	753.8	756.7	755.1
11°	751.3	752.4	754.6	752.6	754.7	753.8
11.5°	749.3	750.5	753.0	751.9	752.9	752.2
12°	747.7	748.3	752.2	750.8	751.6	751.5
12.5°	746.2	747.3	749.7	748.7	750.5	750.2
13°	745.1	745.4	747.6	747.8	748.7	748.8
13.5°	743.2	744.3	746.3	746.5	747.1	747.3
14°	741.9	742.3	745.4	745.1	744.8	745.9
14.5°	740.6	740.9	742.8	743.1	743.6	744.2
15°	738.6	738.6	740.7	740.5	742.8	743.0
15.5°	735.4	737.4	739.2	738.0	741.4	740.6
16°	733.3	735.7	737.2	736.9	738.9	739.3
16.5°	731.3	733.1	735.4	734.9	737.5	736.9
17°	729.7	730.0	733.2	732.0	735.3	734.1
17.5°	727.4	728.4	732.0	729.8	733.2	732.5
18°	724.9	726.8	729.7	728.9	731.0	731.0
18.5°	722.7	724.8	726.7	726.8	728.0	728.4
19°	720.1	722.0	723.7	723.8	725.2	725.3
19.5°	717.2	719.7	721.3	720.9	723.0	722.9
20°	715.2	717.3	719.2	718.4	720.4	720.6
20.5°	713.6	715.2	716.0	716.3	718.2	717.9
21°	711.2	711.9	713.7	714.5	715.9	716.3
21.5°	708.3	708.4	711.1	712.3	714.0	713.7
22°	705.2	705.5	708.3	709.1	711.7	710.2

TEST NUMBER: P869731  
 CATALOG NUMBER: SMX18SLSFS010-2000LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	701.5	703.8	705.5	705.8	708.1	707.3
23°	699.0	701.1	703.3	703.2	704.8	704.8
23.5°	695.8	697.4	700.1	701.2	702.0	701.9
24°	693.1	694.5	697.9	697.3	699.1	699.2
24.5°	691.1	692.2	694.7	694.6	696.3	696.5
25°	687.8	689.2	691.5	692.5	694.2	693.5
25.5°	684.3	686.7	687.9	689.4	691.8	690.3
26°	681.4	682.3	685.0	686.0	687.9	687.6
26.5°	678.1	678.9	682.4	682.0	684.1	684.6
27°	674.3	675.5	679.6	679.1	681.3	681.2
27.5°	670.6	671.5	675.8	676.3	679.2	678.3
28°	667.3	668.1	672.0	673.8	675.6	675.3
28.5°	663.4	665.6	668.3	669.9	671.9	670.5
29°	660.7	662.3	665.7	666.4	667.4	667.7
29.5°	657.3	658.4	661.9	662.7	664.9	663.4
30°	654.4	654.8	658.0	658.5	661.7	661.4
30.5°	649.5	652.1	653.7	654.3	657.6	657.3
31°	645.7	646.8	650.4	651.3	653.7	653.0
31.5°	641.8	643.3	647.2	647.0	650.5	649.4
32°	638.8	639.8	643.6	643.4	647.2	645.7
32.5°	635.4	636.4	639.5	640.0	643.9	641.9
33°	631.2	632.5	636.0	637.1	639.6	638.3
33.5°	626.0	628.4	631.8	632.8	635.7	634.2
34°	622.4	624.3	627.4	628.2	631.3	629.7
34.5°	617.9	620.4	623.4	624.3	627.3	625.6
35°	614.0	616.2	619.4	620.6	623.4	623.0
35.5°	610.4	611.5	615.6	616.6	618.9	618.9
36°	606.2	606.8	611.1	612.4	614.4	614.0
36.5°	602.0	602.5	606.8	607.1	610.3	609.7
37°	597.6	598.2	603.0	603.0	605.8	606.2
37.5°	592.6	594.4	598.6	598.4	602.2	602.0
38°	587.9	589.8	594.3	594.5	598.1	597.5
38.5°	583.5	585.5	589.4	590.3	593.8	592.2
39°	578.8	581.5	585.3	585.9	588.2	588.1
39.5°	574.5	577.4	580.7	580.9	583.9	583.5
40°	569.7	572.3	576.2	577.2	579.0	579.7
40.5°	565.8	567.4	571.4	572.7	574.6	575.3
41°	561.4	563.1	566.6	568.1	569.6	570.5
41.5°	556.1	558.7	561.9	563.1	565.2	565.9
42°	551.5	553.6	557.5	557.9	561.2	560.8
42.5°	545.8	548.0	552.4	552.9	556.4	556.1
43°	540.8	543.7	546.8	548.6	551.8	551.2
43.5°	535.6	538.2	541.4	544.0	546.4	546.1
44°	531.0	532.8	536.4	538.6	541.5	541.4
44.5°	525.9	528.6	532.4	532.8	536.5	536.4

TEST NUMBER: P869731  
 CATALOG NUMBER: SMX18SLSFS010-2000LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	520.9	524.0	527.6	527.7	530.9	531.3
45.5°	515.5	519.0	522.3	522.9	525.6	526.6
46°	510.4	513.7	517.3	518.0	520.7	521.2
46.5°	505.2	508.2	512.2	513.7	515.5	515.5
47°	499.9	503.0	507.0	508.2	510.4	510.6
47.5°	494.5	498.0	501.7	502.8	504.9	505.5
48°	489.3	492.5	496.4	497.5	500.0	500.4
48.5°	484.0	486.6	490.8	492.2	494.7	494.4
49°	478.4	481.1	485.0	486.7	489.2	489.2
49.5°	473.0	475.8	479.2	481.4	484.0	483.8
50°	467.5	469.6	473.5	476.3	478.4	478.8
50.5°	461.8	464.3	468.0	470.9	472.5	472.8
51°	456.5	459.3	462.9	464.7	467.2	467.0
51.5°	451.1	453.2	457.6	459.0	462.0	461.8
52°	445.5	447.4	452.2	453.2	456.7	456.7
52.5°	439.6	442.1	446.5	448.2	450.9	451.1
53°	433.8	436.6	440.9	442.8	445.7	445.3
53.5°	428.5	430.9	434.9	436.0	439.6	439.1
54°	422.3	424.9	429.1	430.3	433.8	433.8
54.5°	416.5	418.7	423.3	425.1	427.4	428.4
55°	410.8	412.9	417.2	419.0	422.0	421.9
55.5°	405.0	406.9	411.1	413.4	416.4	415.8
56°	399.0	401.1	405.4	407.4	410.4	410.4
56.5°	392.9	394.9	399.4	401.1	404.6	404.2
57°	386.5	388.7	393.1	395.0	398.4	398.0
57.5°	380.2	382.4	387.0	388.2	391.9	392.1
58°	374.4	376.4	380.6	382.7	386.1	386.1
58.5°	368.6	370.1	374.1	376.9	379.8	379.8
59°	362.5	364.1	367.9	370.9	373.7	373.7
59.5°	355.8	357.9	361.5	364.6	367.5	367.8
60°	350.0	351.2	355.7	358.1	361.4	361.4
60.5°	342.9	344.9	349.0	351.8	355.1	355.2
61°	336.6	338.4	342.9	345.3	348.5	348.9
61.5°	330.4	332.5	337.0	338.8	342.0	342.0
62°	323.9	326.2	330.6	332.4	335.7	336.1
62.5°	317.6	319.7	324.3	326.2	329.3	329.5
63°	311.0	312.9	317.6	319.4	323.2	323.3
63.5°	304.6	306.4	311.2	313.2	316.5	317.3
64°	298.1	300.3	304.6	306.5	309.3	310.3
64.5°	291.6	293.9	298.3	300.4	302.8	303.9
65°	285.0	287.2	291.3	293.9	296.4	297.6
65.5°	278.7	280.5	284.7	287.0	289.9	291.0
66°	272.0	273.4	278.0	280.5	283.2	283.7
66.5°	265.2	267.2	271.4	274.1	276.6	276.9
67°	258.4	260.5	264.7	267.5	270.3	270.6

TEST NUMBER: P869731  
 CATALOG NUMBER: SMX18SLSFS010-2000LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	251.8	253.5	257.5	260.2	263.5	263.7
68°	244.9	246.6	250.9	253.8	256.8	256.9
68.5°	238.4	240.0	244.2	247.0	249.6	250.1
69°	232.1	233.5	237.1	240.0	242.8	243.4
69.5°	225.1	226.8	230.4	233.3	236.1	236.9
70°	218.2	219.8	223.5	226.8	229.3	229.6
70.5°	211.4	212.6	216.9	219.8	222.6	222.8
71°	204.4	205.8	210.0	212.7	215.7	216.0
71.5°	197.4	199.1	203.0	206.2	209.0	209.3
72°	190.5	192.3	196.3	199.2	201.8	202.6
72.5°	184.1	185.2	189.5	192.1	194.9	195.8
73°	177.2	178.1	182.4	185.1	188.0	188.8
73.5°	170.4	171.6	176.0	178.4	181.2	181.7
74°	163.6	164.6	168.8	171.4	174.3	174.9
74.5°	157.0	157.8	161.9	164.8	167.3	168.0
75°	149.9	150.9	154.9	158.0	160.3	161.0
75.5°	143.3	144.2	148.4	151.1	153.5	154.2
76°	136.6	137.4	141.4	144.2	146.7	147.6
76.5°	129.7	130.8	134.8	137.6	139.9	140.7
77°	122.9	123.9	127.9	130.7	133.3	134.2
77.5°	116.3	117.5	121.3	124.3	126.8	127.6
78°	109.8	110.9	114.8	117.7	120.1	120.7
78.5°	103.2	104.4	108.5	111.3	113.5	114.1
79°	97.0	98.0	101.8	104.5	106.8	107.7
79.5°	90.4	91.6	95.3	98.1	100.5	101.2
80°	84.2	85.2	88.8	91.6	94.1	94.7
80.5°	78.3	79.1	82.9	85.4	87.7	88.4
81°	72.3	73.1	76.7	79.3	81.5	82.1
81.5°	66.4	67.0	70.6	73.2	75.3	75.9
82°	60.4	61.0	64.6	67.1	69.3	69.8
82.5°	54.8	55.3	58.6	61.0	63.3	63.7
83°	49.5	49.8	52.7	55.2	57.4	57.8
83.5°	43.9	44.3	47.3	49.6	51.8	52.3
84°	38.7	39.1	42.1	44.2	46.2	46.8
84.5°	33.7	34.2	36.9	39.1	41.1	41.6
85°	29.0	29.6	32.2	34.3	35.8	36.4
85.5°	24.4	25.0	27.5	29.6	31.1	31.5
86°	20.3	21.1	23.1	25.0	26.7	27.0
86.5°	16.7	17.3	19.3	21.1	22.4	22.7
87°	13.6	13.9	15.7	17.2	18.5	18.9
87.5°	10.6	10.9	12.6	13.9	14.9	15.3
88°	8.0	7.8	9.4	10.9	11.8	12.1
88.5°	5.5	5.3	6.4	7.7	8.7	9.0
89°	3.4	3.5	4.4	5.3	6.0	6.4
89.5°	1.6	2.0	2.7	3.4	4.2	4.5

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869731  
CATALOG NUMBER: SMX18SLSFS010-2000LM-2700K

**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)