

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: P869746

Luminaire Tested: **SMX18SLSFSD2W-2000LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869746  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18SLSFSD2W-2000LM-2700K  
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT  
 Ballast/Driver: -

**Summary**

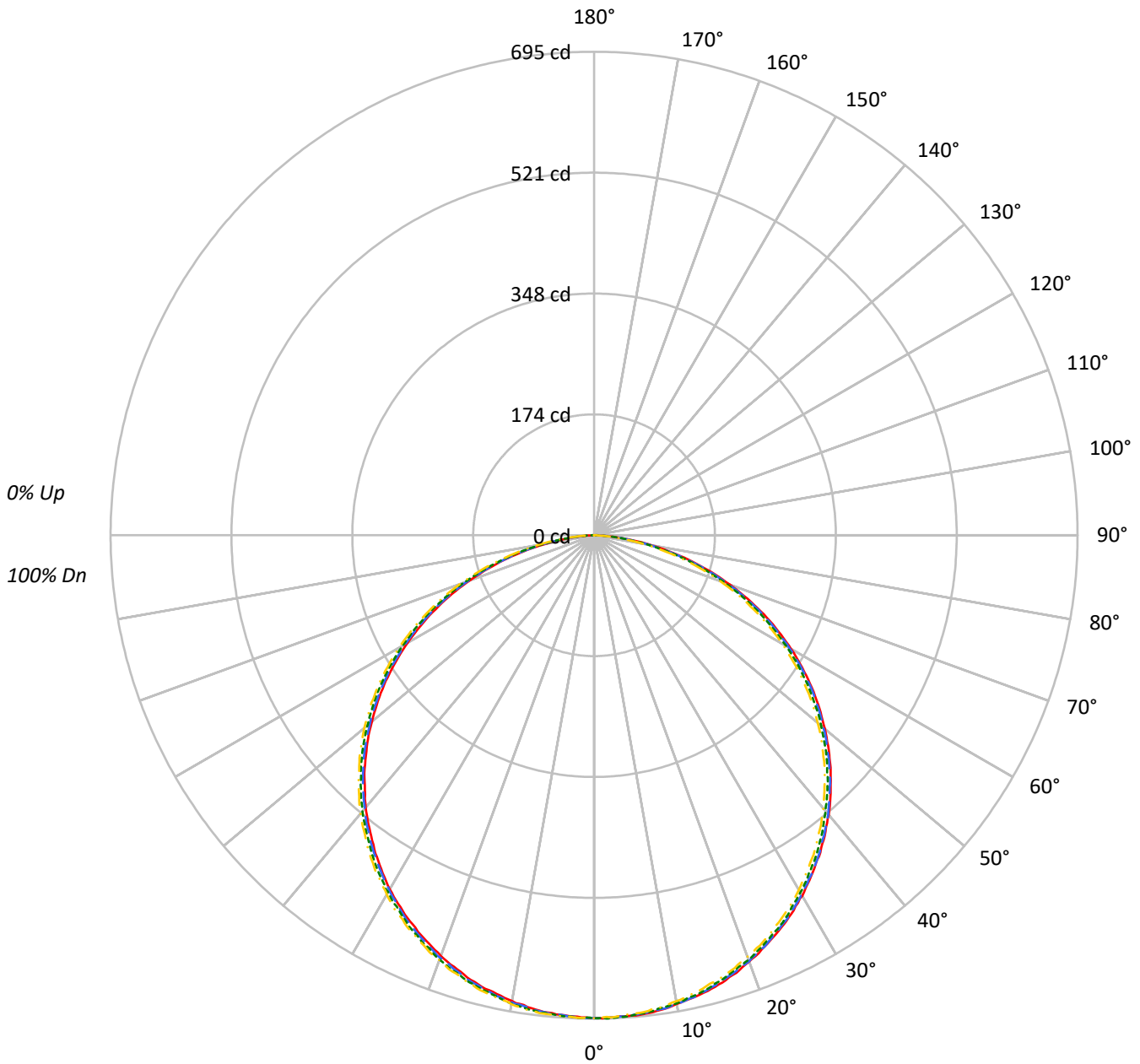
Lumens per Lamp: N/A  
 Luminaire Lumens: 2026.7 lumens  
 Efficiency: N/A  
 Efficacy: 86.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 23.5  
 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	90°	180°	270°
0°	3322	3322	3322	3322
5°	3328	3320	3312	3319
10°	3324	3320	3303	3322
15°	3330	3308	3292	3310
20°	3320	3308	3278	3305
25°	3313	3295	3258	3292
30°	3306	3276	3245	3274
35°	3293	3260	3219	3257
40°	3276	3233	3189	3234
45°	3253	3206	3151	3208
50°	3225	3171	3105	3163
55°	3184	3126	3049	3117
60°	3129	3054	2963	3041
65°	3048	2952	2842	2942
70°	2907	2795	2660	2782
75°	2693	2554	2383	2523
80°	2361	2163	1937	2124
85°	1806	1526	1197	1471

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.7	3.2
10°-20°	188.7	9.3
20°-30°	287.3	14.2
30°-40°	348.8	17.2
40°-50°	365.4	18.0
50°-60°	334.0	16.5
60°-70°	257.1	12.7
70°-80°	145.4	7.2
80°-90°	34.2	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°	541.8	26.7
0°-40°	890.6	43.9
0°-60°	1590.0	78.5
0°-90°	2026.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2026.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	694	694	694	694	694	
5°	693	691	690	691	693	66
15°	672	668	665	668	672	190
25°	628	624	617	624	628	289
35°	564	558	551	558	564	352
45°	481	474	466	474	481	371
55°	382	375	366	374	382	341
65°	269	261	251	260	269	266
75°	146	138	129	136	146	154
85°	33	28	22	27	33	40
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°	694.3	694.3	694.3	694.3	694.3	694.3	694.3	694.3	694.3	694.3	694.3
0.5°	694.1	693.9	694.3	693.8	694.5	695.0	693.8	694.3	693.8	694.1	693.4
1°	694.7	693.5	694.4	694.2	694.1	694.4	693.3	693.7	693.3	693.8	694.3
1.5°	694.1	694.1	693.7	694.2	695.0	694.3	692.8	693.6	693.6	693.3	694.1
2°	693.6	693.2	693.5	694.1	694.7	694.0	693.7	692.8	692.6	692.7	692.7
2.5°	693.6	693.8	693.3	694.1	694.1	694.0	692.9	692.7	692.4	692.4	692.5
3°	692.6	694.0	693.1	693.3	693.5	693.3	692.0	693.1	692.3	691.7	692.6
3.5°	693.0	694.1	692.9	693.3	693.6	692.7	692.0	692.6	691.5	691.6	691.6
4°	692.8	693.3	692.6	693.4	693.2	692.3	690.6	692.0	690.9	691.9	690.9
4.5°	692.7	693.3	691.7	693.2	692.4	692.1	690.6	690.7	690.9	691.2	690.7
5°	693.0	692.6	691.7	692.1	691.4	691.9	690.0	690.3	689.7	689.5	691.3
5.5°	692.5	692.1	691.2	690.9	690.9	690.9	689.7	689.2	689.5	688.7	690.3
6°	692.1	692.1	690.7	691.1	690.9	689.5	689.2	689.0	689.0	688.0	689.0
6.5°	691.5	691.9	690.1	689.9	690.0	689.7	688.2	688.0	688.0	687.5	688.5
7°	691.1	691.3	689.5	689.6	689.2	688.8	686.3	686.8	687.0	686.3	688.4
7.5°	689.9	689.7	688.5	688.2	687.5	688.2	686.2	686.1	685.7	685.5	687.0
8°	689.1	688.2	688.0	688.0	686.4	687.4	685.6	684.8	685.0	684.6	685.1
8.5°	688.3	687.3	687.8	686.3	686.0	686.5	684.5	684.1	682.9	683.9	684.4
9°	687.3	686.2	686.6	685.9	685.1	685.6	682.8	683.3	682.1	682.5	683.3
9.5°	685.7	685.8	685.1	684.4	684.4	684.6	681.0	681.5	681.9	681.6	683.0
10°	684.2	684.3	683.7	683.9	683.5	683.3	680.2	680.2	680.0	681.1	681.8
10.5°	683.4	683.4	683.3	682.1	682.2	681.4	679.3	679.0	678.5	679.5	680.4
11°	682.2	682.2	682.2	681.5	680.7	680.4	677.8	678.5	677.2	677.6	678.8
11.5°	680.7	681.5	680.5	679.6	678.5	679.4	676.6	676.8	675.1	676.7	677.6
12°	680.1	679.8	679.6	678.2	677.8	678.3	674.6	676.1	674.2	674.8	676.8
12.5°	678.9	678.3	679.0	677.0	676.9	676.9	673.1	674.7	672.3	673.4	675.0
13°	677.6	678.1	677.3	675.4	675.4	675.3	672.0	672.7	671.0	672.3	672.8
13.5°	676.3	676.8	675.0	674.1	673.9	673.5	670.2	671.5	670.4	671.0	670.8
14°	675.0	675.3	673.4	673.2	672.5	670.6	667.8	669.6	668.7	669.8	669.9
14.5°	673.4	673.2	671.6	670.9	670.6	669.6	666.0	667.5	666.6	667.6	668.3
15°	672.4	671.3	670.3	670.0	667.9	668.3	664.9	665.9	664.7	665.1	667.1
15.5°	670.2	669.8	668.7	667.8	666.4	666.4	663.6	663.8	663.3	663.3	665.4
16°	669.0	667.9	666.6	666.3	665.3	664.9	661.7	662.0	661.5	662.0	663.6
16.5°	666.9	666.1	664.8	664.0	663.0	663.1	659.7	660.2	658.6	660.2	661.6
17°	664.3	663.8	662.8	662.9	661.0	661.1	657.8	658.6	656.3	657.6	658.8
17.5°	662.9	662.2	661.2	660.0	658.5	659.1	656.0	656.7	654.4	655.3	656.9
18°	661.5	660.5	659.2	658.1	657.1	656.7	654.3	654.1	652.3	653.3	655.1
18.5°	659.1	658.6	657.3	655.9	654.5	654.8	651.1	651.4	650.6	651.1	652.2
19°	656.3	656.9	655.1	653.9	653.2	652.5	649.0	649.3	648.0	649.0	649.4
19.5°	654.2	655.0	653.5	651.7	650.9	650.4	647.2	646.9	646.1	646.8	647.8
20°	652.1	652.2	651.6	650.1	649.7	648.5	644.9	644.6	643.8	644.4	646.2
20.5°	649.7	649.6	648.5	647.4	647.2	645.9	642.9	642.3	640.7	642.0	644.6
21°	648.2	647.1	646.3	645.3	644.4	643.5	640.6	639.7	638.5	640.4	641.6
21.5°	645.8	645.3	644.4	643.7	641.9	641.0	638.0	637.0	635.9	638.1	638.7
22°	642.6	642.6	642.0	641.4	639.6	638.0	636.1	635.8	633.3	634.9	636.4

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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°	640.0	640.0	640.1	638.5	636.7	635.3	633.4	632.9	630.8	632.2	633.5
23°	637.8	637.5	637.3	635.6	634.1	633.6	630.5	630.6	628.3	630.0	631.2
23.5°	635.2	635.5	634.2	632.9	632.0	631.0	627.7	628.1	626.1	627.9	628.6
24°	632.7	633.1	631.5	631.0	628.9	628.1	625.2	624.7	623.5	624.5	626.0
24.5°	630.3	630.1	628.8	627.9	626.4	625.4	621.4	621.5	619.8	621.0	623.0
25°	627.6	626.9	626.4	625.0	624.3	622.6	618.7	619.3	617.2	618.4	619.9
25.5°	624.7	624.3	623.4	622.0	621.3	619.9	616.5	616.9	615.0	615.7	617.1
26°	622.2	621.8	620.6	619.3	619.1	617.1	613.5	613.9	612.1	613.2	615.2
26.5°	619.6	619.3	618.4	616.3	615.5	613.7	610.4	611.0	609.3	609.9	611.8
27°	616.4	616.4	615.5	613.6	612.8	610.4	607.8	607.9	605.7	606.5	608.3
27.5°	613.8	614.0	611.9	611.1	609.4	607.1	604.9	604.8	602.3	603.7	605.0
28°	611.1	609.9	609.0	608.3	605.4	604.2	601.8	601.1	599.9	601.6	602.1
28.5°	606.7	606.9	605.9	605.2	602.0	600.7	598.5	598.1	597.0	598.4	598.5
29°	604.2	604.1	602.6	601.9	599.4	598.2	595.4	595.0	594.2	595.3	595.8
29.5°	600.4	601.6	600.0	598.7	596.0	595.3	592.3	591.5	590.2	591.8	592.6
30°	598.5	598.2	596.4	595.0	593.0	591.2	588.8	588.0	587.4	588.0	589.2
30.5°	594.8	594.4	593.0	591.2	590.2	587.8	584.9	584.8	584.2	584.4	585.3
31°	590.9	590.6	589.7	588.2	586.3	584.2	581.5	581.0	580.6	581.1	582.5
31.5°	587.6	586.9	586.8	584.7	582.9	580.7	577.5	577.1	576.7	577.1	578.7
32°	584.3	584.0	582.7	581.7	579.2	578.0	574.1	574.1	573.1	573.7	575.2
32.5°	580.9	580.7	580.0	577.8	575.4	574.9	570.7	569.9	569.0	570.4	571.3
33°	577.6	577.4	576.9	574.7	572.5	571.2	567.4	566.4	565.5	566.7	568.2
33.5°	574.0	573.8	573.3	570.7	568.6	567.6	563.5	563.7	561.9	563.0	563.9
34°	569.8	570.8	569.5	567.2	565.7	563.5	560.3	560.3	558.2	559.5	560.4
34.5°	566.2	567.2	566.2	563.2	561.9	560.0	557.0	556.1	555.0	555.5	556.9
35°	563.8	563.4	562.6	559.2	558.2	556.3	552.7	552.1	551.1	551.9	553.5
35.5°	560.1	559.6	558.9	556.3	554.3	552.1	548.5	547.8	546.3	548.7	549.5
36°	555.6	555.5	555.0	552.6	550.5	547.5	544.8	545.0	542.6	544.8	546.2
36.5°	551.7	551.9	550.3	549.2	546.1	543.8	540.5	540.6	538.6	540.5	541.5
37°	548.5	548.5	546.6	544.7	542.2	540.0	536.6	537.1	534.5	536.0	537.3
37.5°	544.8	543.9	543.3	540.6	538.6	535.8	533.0	532.4	530.7	532.0	533.7
38°	540.7	540.2	539.0	537.3	534.4	531.8	529.5	527.7	527.0	528.6	530.0
38.5°	535.9	536.4	534.8	532.5	529.8	527.8	525.4	523.7	522.8	525.0	526.2
39°	532.2	531.9	531.4	528.6	525.5	524.3	520.8	520.0	518.6	520.9	522.0
39.5°	528.0	527.7	527.4	524.0	521.7	520.1	516.7	515.7	514.8	515.8	517.3
40°	524.6	523.5	523.4	519.9	517.7	515.7	512.8	511.6	510.6	511.7	512.9
40.5°	520.6	519.8	519.1	515.7	513.1	511.1	508.1	507.7	506.2	507.2	508.8
41°	516.3	515.7	514.4	512.3	509.2	506.8	503.4	503.0	502.1	502.4	504.6
41.5°	512.1	511.4	510.1	508.0	504.8	503.1	499.3	498.2	496.8	498.4	500.2
42°	507.5	506.7	505.8	503.6	500.7	498.0	494.9	494.1	492.5	494.0	495.8
42.5°	503.2	502.9	501.0	499.6	496.4	493.8	490.4	489.5	487.9	490.0	492.0
43°	498.8	499.0	496.6	494.6	492.0	490.2	485.9	485.4	483.8	485.1	486.9
43.5°	494.2	494.4	492.9	489.9	488.1	485.6	481.7	480.3	479.6	481.0	482.6
44°	489.9	489.5	488.3	485.4	483.5	480.5	477.2	475.9	475.2	476.7	478.0
44.5°	485.4	485.2	483.6	480.8	478.0	475.7	473.0	471.4	470.4	472.5	473.6

TEST NUMBER: P869746  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	480.8	480.1	478.8	476.4	473.9	471.3	468.2	467.0	465.7	467.2	469.1
45.5°	476.6	475.9	474.0	472.5	469.6	467.2	463.8	462.2	460.8	462.9	464.3
46°	471.6	471.7	469.5	467.5	465.1	462.6	458.2	457.3	455.8	458.2	460.1
46.5°	466.5	466.2	465.0	462.2	460.5	457.8	453.8	452.6	451.2	453.6	455.3
47°	462.1	461.6	459.9	457.8	455.9	453.0	448.8	447.8	446.6	448.7	450.7
47.5°	457.5	456.8	454.9	452.7	450.8	448.0	444.0	443.0	442.1	443.4	445.6
48°	452.8	452.5	450.0	448.2	445.7	443.4	439.7	438.6	437.1	438.6	440.3
48.5°	447.4	447.4	445.6	443.4	440.4	438.2	434.6	433.8	432.5	433.4	436.0
49°	442.7	442.7	440.9	438.5	435.7	433.1	430.0	428.9	427.3	428.7	430.6
49.5°	437.8	438.1	435.9	433.5	430.6	427.9	424.7	423.8	422.3	424.1	425.2
50°	433.3	433.0	430.5	428.4	426.0	423.3	419.4	419.1	417.2	419.3	420.6
50.5°	427.9	427.9	425.7	423.2	421.4	418.9	414.8	414.0	412.0	413.8	415.8
51°	422.6	422.7	420.5	418.4	416.5	413.3	409.3	408.5	407.0	408.3	410.6
51.5°	417.9	417.7	415.8	413.3	411.6	408.0	404.9	403.1	401.8	403.4	405.3
52°	413.3	412.3	410.8	408.3	405.8	403.6	400.0	398.5	396.6	398.4	400.2
52.5°	408.2	407.4	405.6	403.2	400.2	398.2	394.9	393.4	391.7	392.8	394.9
53°	402.9	402.5	400.3	397.9	395.1	392.3	389.4	388.0	386.2	388.4	389.9
53.5°	397.3	397.1	395.2	393.2	390.2	387.1	384.4	382.1	381.2	383.2	384.6
54°	392.5	392.3	390.5	387.4	384.7	382.4	378.7	377.1	375.7	377.4	379.6
54.5°	387.6	387.0	385.2	382.0	380.1	377.4	372.7	371.5	370.9	371.8	374.2
55°	381.8	381.5	380.2	376.6	374.8	371.9	367.5	366.7	365.6	366.5	368.6
55.5°	376.2	375.8	374.4	371.7	369.2	366.0	362.4	360.9	360.0	361.2	362.9
56°	371.4	370.4	368.6	366.2	363.4	360.4	357.2	355.6	354.6	355.8	358.0
56.5°	365.8	365.4	363.6	360.4	358.0	354.9	351.5	350.7	349.1	350.7	352.6
57°	360.2	360.1	357.8	354.9	352.7	349.7	346.1	345.0	343.2	345.4	347.3
57.5°	354.8	354.6	352.6	349.4	347.4	344.4	340.2	338.8	337.9	339.5	341.6
58°	349.4	348.5	347.1	343.7	341.8	338.6	334.5	333.3	332.3	333.7	335.7
58.5°	343.7	342.8	341.2	338.2	335.9	332.5	328.9	327.9	326.9	327.9	330.1
59°	338.2	337.8	335.4	332.7	330.6	327.2	323.7	322.2	320.9	322.5	324.3
59.5°	332.8	332.0	330.1	327.6	325.0	321.6	318.0	316.8	315.3	317.2	318.6
60°	327.0	326.3	324.1	321.9	319.2	316.0	312.7	311.2	309.7	311.5	313.5
60.5°	321.4	320.4	318.5	316.3	312.9	310.5	306.9	305.4	304.1	305.3	307.8
61°	315.8	314.5	312.6	310.2	307.4	304.7	301.3	299.4	298.4	299.9	302.1
61.5°	309.5	308.8	306.9	304.2	301.7	298.8	295.7	293.4	292.3	294.0	296.2
62°	304.1	303.0	301.2	298.3	295.9	293.0	289.8	287.9	286.4	288.2	290.3
62.5°	298.2	297.3	295.3	292.7	289.9	287.4	283.8	282.0	280.5	282.3	284.3
63°	292.5	291.4	289.4	286.9	284.3	281.5	277.8	276.4	274.8	276.3	278.2
63.5°	287.2	285.4	283.7	280.7	278.7	275.6	272.1	270.3	269.2	270.2	272.8
64°	280.8	279.9	277.8	275.0	273.1	269.7	265.8	264.4	263.2	264.5	267.0
64.5°	275.0	274.0	271.9	268.9	266.7	263.9	259.7	258.3	257.0	258.3	260.9
65°	269.3	268.3	266.1	262.9	260.8	257.8	253.7	252.4	251.1	252.5	254.8
65.5°	263.4	262.2	260.2	256.7	254.9	251.7	247.6	246.5	245.3	246.6	248.9
66°	256.8	256.2	253.8	250.7	248.8	245.7	241.7	240.2	239.4	240.6	242.9
66.5°	250.5	250.0	247.7	244.9	242.8	239.7	235.6	234.3	233.4	234.4	236.6
67°	244.9	243.7	241.6	238.7	236.9	233.6	230.1	228.1	227.4	228.3	230.6



TEST NUMBER: P869746  
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	238.6	237.6	235.5	232.3	230.8	227.6	224.0	221.9	221.3	222.1	224.3
68°	232.5	231.6	229.3	226.1	224.8	221.4	217.8	216.1	215.1	216.3	218.5
68.5°	226.3	225.5	223.3	220.4	218.5	215.3	211.6	210.1	208.8	210.0	212.6
69°	220.3	219.7	217.3	214.5	212.7	209.0	205.3	203.7	202.6	203.8	206.4
69.5°	214.4	213.5	211.0	207.7	206.2	202.6	199.1	197.3	196.4	197.4	200.4
70°	207.8	207.3	204.7	201.5	199.8	196.7	192.9	191.3	190.2	191.3	193.8
70.5°	201.6	201.1	198.4	195.4	193.9	190.7	187.1	185.3	184.3	185.5	187.9
71°	195.4	194.9	192.6	189.5	187.8	184.6	180.9	179.2	178.2	179.3	181.6
71.5°	189.4	188.9	186.3	182.8	181.4	178.3	174.6	172.8	171.9	173.1	175.3
72°	183.3	182.4	179.9	176.8	175.3	171.9	168.3	166.6	166.0	167.0	169.4
72.5°	177.2	175.9	173.6	170.7	169.2	165.9	162.3	160.7	159.7	160.9	163.2
73°	170.9	169.6	167.3	164.3	163.0	159.9	156.3	154.3	153.3	154.7	157.1
73.5°	164.4	163.4	161.4	158.1	156.6	153.5	150.1	148.1	147.2	148.9	150.8
74°	158.3	157.2	154.8	152.0	150.4	147.3	144.0	142.1	141.1	142.5	144.7
74.5°	152.0	151.0	148.8	145.5	144.5	141.3	137.9	136.0	135.1	136.4	138.4
75°	145.7	144.7	142.5	139.2	138.2	134.9	131.6	129.9	128.9	130.3	132.4
75.5°	139.6	138.7	136.4	133.2	132.1	128.9	125.8	123.6	122.9	124.5	126.4
76°	133.6	132.6	130.4	127.0	125.9	122.7	119.6	117.6	116.9	118.3	120.3
76.5°	127.3	126.5	124.2	121.0	120.0	116.7	113.5	111.8	110.8	112.1	114.2
77°	121.4	120.2	118.2	114.9	113.9	110.5	107.6	105.7	104.9	106.0	108.1
77.5°	115.4	114.1	112.2	108.9	107.7	104.5	101.6	99.7	98.9	100.2	102.3
78°	109.3	108.1	106.2	103.0	101.8	98.7	95.9	93.7	93.1	94.2	96.3
78.5°	103.2	102.1	100.2	97.1	96.0	92.8	89.8	88.0	87.2	88.4	90.4
79°	97.4	96.2	94.2	91.1	90.0	86.7	83.9	82.2	81.4	82.5	84.5
79.5°	91.6	90.4	88.4	85.3	84.2	81.2	78.3	76.7	75.8	77.1	78.9
80°	85.7	84.3	82.6	79.6	78.5	75.6	72.8	71.1	70.3	71.6	73.5
80.5°	80.0	78.7	77.0	74.0	73.1	70.0	67.3	65.6	64.7	66.1	68.1
81°	74.3	73.1	71.6	68.5	67.6	64.7	61.8	60.2	59.5	60.8	62.7
81.5°	68.7	67.7	65.9	63.0	62.1	59.2	56.5	55.0	54.4	55.3	57.2
82°	63.2	62.2	60.3	57.5	56.7	53.9	51.3	49.6	49.1	50.1	52.0
82.5°	57.6	56.9	54.8	52.0	51.5	48.7	46.4	44.7	44.0	45.1	46.9
83°	52.3	51.3	49.6	47.0	46.5	43.8	41.4	39.9	39.3	40.4	42.1
83.5°	47.3	46.2	44.5	42.2	41.6	38.9	36.5	35.1	34.6	35.5	37.2
84°	42.3	41.4	39.7	37.5	36.8	34.3	31.9	30.5	30.0	31.0	32.6
84.5°	37.6	36.7	35.1	32.9	32.2	29.8	27.6	26.2	25.8	26.8	28.2
85°	32.9	32.1	30.6	28.4	27.8	25.6	23.4	22.1	21.8	22.6	24.1
85.5°	28.5	27.7	26.3	24.3	23.6	21.4	19.4	18.4	18.1	18.8	20.1
86°	24.4	23.7	22.4	20.5	19.8	17.7	16.0	14.9	14.7	15.3	16.6
86.5°	20.5	20.0	18.8	17.1	16.2	14.5	13.0	12.1	11.8	12.7	13.5
87°	17.1	16.6	15.4	13.8	13.2	11.7	10.3	9.4	9.3	9.8	10.9
87.5°	13.9	13.4	12.4	10.9	10.4	9.0	7.6	6.9	6.9	7.4	8.3
88°	10.9	10.5	9.6	8.1	7.8	6.5	5.4	4.7	4.7	5.2	5.9
88.5°	8.1	7.7	7.0	5.8	5.7	4.4	3.5	2.8	2.7	3.2	3.9
89°	5.8	5.5	4.9	4.0	4.0	2.8	1.8	1.4	1.3	1.6	2.2
89.5°	4.0	3.8	3.3	2.5	2.2	1.3	0.6	1.3	1.1	1.4	0.8

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



TEST NUMBER: P869746  
CATALOG NUMBER: SMX18SLSFSD2W-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: P869746  
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	694.3	694.3	694.3	694.3	694.3	694.3
0.5°	694.8	693.4	695.2	693.8	693.8	694.1
1°	694.2	693.3	695.5	694.1	693.6	694.7
1.5°	694.0	694.1	694.9	694.1	693.8	694.1
2°	693.6	693.9	694.1	694.1	694.8	693.6
2.5°	693.1	692.9	694.9	693.6	693.6	693.6
3°	693.8	692.4	694.8	693.1	694.3	692.6
3.5°	693.3	693.1	694.0	692.7	693.7	693.0
4°	693.1	692.4	693.9	692.9	692.9	692.8
4.5°	693.0	691.7	693.5	692.6	692.7	692.7
5°	692.5	691.2	693.6	692.0	692.3	693.0
5.5°	690.9	690.6	693.3	691.7	692.6	692.5
6°	690.0	690.3	693.4	691.5	691.5	692.1
6.5°	689.3	690.5	692.6	691.4	691.2	691.5
7°	689.0	688.9	691.9	690.2	690.9	691.1
7.5°	688.1	688.7	691.0	689.8	690.8	689.9
8°	687.1	688.0	689.3	689.2	689.8	689.1
8.5°	686.0	686.5	688.4	688.2	688.0	688.3
9°	685.1	685.8	688.2	686.5	687.8	687.3
9.5°	683.4	684.9	687.0	685.7	686.4	685.7
10°	682.4	683.9	685.3	684.4	685.1	684.2
10.5°	680.9	682.4	684.2	682.2	684.8	683.4
11°	679.9	680.9	682.9	681.1	682.9	682.2
11.5°	678.1	679.2	681.4	680.4	681.3	680.7
12°	676.6	677.2	680.7	679.4	680.2	680.1
12.5°	675.3	676.3	678.4	677.6	679.1	678.9
13°	674.2	674.5	676.6	676.7	677.6	677.6
13.5°	672.5	673.5	675.4	675.5	676.1	676.3
14°	671.4	671.7	674.6	674.3	674.0	675.0
14.5°	670.2	670.5	672.2	672.5	673.0	673.4
15°	668.3	668.3	670.3	670.1	672.2	672.4
15.5°	665.4	667.3	668.9	667.9	670.9	670.2
16°	663.6	665.7	667.1	666.9	668.6	669.0
16.5°	661.8	663.4	665.4	665.0	667.4	666.9
17°	660.3	660.6	663.5	662.4	665.4	664.3
17.5°	658.2	659.1	662.4	660.4	663.5	662.9
18°	656.0	657.7	660.3	659.6	661.5	661.5
18.5°	654.0	655.9	657.7	657.7	658.8	659.1
19°	651.6	653.4	654.9	655.0	656.2	656.3
19.5°	649.0	651.3	652.7	652.3	654.3	654.2
20°	647.2	649.1	650.9	650.1	651.9	652.1
20.5°	645.8	647.2	648.0	648.2	649.9	649.7
21°	643.6	644.2	645.8	646.5	647.9	648.2
21.5°	640.9	641.0	643.5	644.6	646.1	645.8
22°	638.2	638.5	640.9	641.7	644.1	642.6

TEST NUMBER: P869746

CATALOG NUMBER: SMX18SLSFSD2W-2000LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	634.8	636.9	638.4	638.7	640.8	640.0
23°	632.6	634.4	636.4	636.3	637.8	637.8
23.5°	629.7	631.1	633.5	634.6	635.3	635.2
24°	627.2	628.5	631.5	631.0	632.7	632.7
24.5°	625.4	626.4	628.6	628.6	630.1	630.3
25°	622.4	623.7	625.7	626.6	628.2	627.6
25.5°	619.3	621.4	622.5	623.9	626.0	624.7
26°	616.6	617.4	619.8	620.8	622.5	622.2
26.5°	613.7	614.4	617.5	617.1	619.1	619.6
27°	610.2	611.3	615.0	614.5	616.5	616.4
27.5°	606.8	607.7	611.6	612.1	614.6	613.8
28°	603.9	604.5	608.1	609.7	611.4	611.1
28.5°	600.4	602.3	604.8	606.2	608.0	606.7
29°	597.9	599.3	602.4	603.1	604.0	604.2
29.5°	594.8	595.8	599.0	599.7	601.7	600.4
30°	592.2	592.6	595.4	595.9	598.8	598.5
30.5°	587.8	590.1	591.5	592.1	595.1	594.8
31°	584.3	585.4	588.6	589.4	591.6	590.9
31.5°	580.8	582.2	585.7	585.5	588.7	587.6
32°	578.1	579.0	582.5	582.2	585.7	584.3
32.5°	575.0	575.9	578.7	579.1	582.7	580.9
33°	571.2	572.4	575.5	576.5	578.8	577.6
33.5°	566.5	568.6	571.8	572.7	575.3	574.0
34°	563.3	565.0	567.8	568.5	571.3	569.8
34.5°	559.2	561.4	564.2	565.0	567.7	566.2
35°	555.6	557.7	560.5	561.6	564.1	563.8
35.5°	552.4	553.3	557.1	558.0	560.1	560.1
36°	548.5	549.1	553.0	554.2	556.0	555.6
36.5°	544.8	545.2	549.1	549.4	552.3	551.7
37°	540.8	541.3	545.7	545.7	548.2	548.5
37.5°	536.3	537.9	541.7	541.5	545.0	544.8
38°	532.0	533.7	537.8	538.0	541.2	540.7
38.5°	528.0	529.8	533.4	534.2	537.3	535.9
39°	523.7	526.2	529.7	530.2	532.2	532.2
39.5°	519.9	522.5	525.5	525.7	528.3	528.0
40°	515.5	517.9	521.4	522.3	524.0	524.6
40.5°	512.0	513.5	517.1	518.3	520.0	520.6
41°	508.0	509.6	512.7	514.1	515.5	516.3
41.5°	503.3	505.6	508.4	509.6	511.5	512.1
42°	499.0	500.9	504.5	504.9	507.9	507.5
42.5°	493.9	495.9	499.9	500.4	503.5	503.2
43°	489.4	492.0	494.8	496.4	499.3	498.8
43.5°	484.7	487.1	490.0	492.3	494.5	494.2
44°	480.5	482.1	485.4	487.4	490.0	489.9
44.5°	475.9	478.4	481.8	482.2	485.5	485.4

TEST NUMBER: P869746

CATALOG NUMBER: SMX18SLSFSD2W-2000LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	471.3	474.2	477.4	477.6	480.4	480.8
45.5°	466.5	469.6	472.6	473.2	475.6	476.6
46°	461.9	464.8	468.2	468.7	471.2	471.6
46.5°	457.2	459.9	463.5	464.8	466.5	466.5
47°	452.4	455.2	458.8	459.9	461.9	462.1
47.5°	447.5	450.7	454.0	455.0	456.9	457.5
48°	442.8	445.7	449.2	450.2	452.4	452.8
48.5°	438.0	440.3	444.1	445.4	447.7	447.4
49°	432.9	435.4	438.9	440.5	442.7	442.7
49.5°	428.1	430.6	433.7	435.7	438.0	437.8
50°	423.0	425.0	428.5	431.0	432.9	433.3
50.5°	417.9	420.1	423.5	426.1	427.6	427.9
51°	413.1	415.7	418.9	420.6	422.8	422.6
51.5°	408.2	410.2	414.1	415.3	418.1	417.9
52°	403.1	404.8	409.2	410.1	413.3	413.3
52.5°	397.8	400.1	404.1	405.6	408.0	408.2
53°	392.5	395.1	399.0	400.7	403.3	402.9
53.5°	387.8	389.9	393.5	394.6	397.8	397.3
54°	382.2	384.5	388.3	389.4	392.5	392.5
54.5°	376.9	378.9	383.0	384.7	386.8	387.6
55°	371.7	373.7	377.5	379.2	381.9	381.8
55.5°	366.5	368.2	372.1	374.1	376.8	376.2
56°	361.1	362.9	366.8	368.7	371.4	371.4
56.5°	355.6	357.4	361.4	362.9	366.1	365.8
57°	349.8	351.7	355.8	357.5	360.5	360.2
57.5°	344.0	346.1	350.2	351.3	354.6	354.8
58°	338.8	340.6	344.4	346.3	349.4	349.4
58.5°	333.5	335.0	338.5	341.1	343.7	343.7
59°	328.0	329.5	333.0	335.7	338.2	338.2
59.5°	322.0	323.8	327.2	329.9	332.5	332.8
60°	316.7	317.8	321.9	324.0	327.0	327.0
60.5°	310.3	312.1	315.8	318.3	321.4	321.4
61°	304.6	306.2	310.3	312.4	315.4	315.8
61.5°	299.0	300.9	304.9	306.6	309.5	309.5
62°	293.1	295.2	299.2	300.8	303.8	304.1
62.5°	287.4	289.3	293.5	295.2	298.0	298.2
63°	281.4	283.1	287.4	289.1	292.5	292.5
63.5°	275.7	277.3	281.6	283.4	286.4	287.2
64°	269.8	271.7	275.7	277.4	279.9	280.8
64.5°	263.9	266.0	269.9	271.9	274.1	275.0
65°	257.9	259.9	263.6	266.0	268.2	269.3
65.5°	252.2	253.9	257.6	259.7	262.3	263.4
66°	246.2	247.4	251.6	253.8	256.3	256.8
66.5°	240.0	241.8	245.6	248.1	250.3	250.5
67°	233.8	235.7	239.5	242.0	244.6	244.9

TEST NUMBER: P869746  
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	227.9	229.4	233.0	235.5	238.4	238.6
68°	221.6	223.1	227.0	229.7	232.3	232.5
68.5°	215.8	217.2	221.0	223.6	225.8	226.3
69°	210.0	211.3	214.6	217.2	219.7	220.3
69.5°	203.7	205.2	208.5	211.1	213.6	214.4
70°	197.4	198.9	202.2	205.2	207.5	207.8
70.5°	191.3	192.4	196.3	198.9	201.5	201.6
71°	185.0	186.2	190.1	192.5	195.2	195.4
71.5°	178.7	180.2	183.7	186.6	189.1	189.4
72°	172.4	174.1	177.7	180.3	182.6	183.3
72.5°	166.6	167.6	171.4	173.9	176.3	177.2
73°	160.3	161.2	165.1	167.5	170.1	170.9
73.5°	154.2	155.3	159.3	161.5	163.9	164.4
74°	148.1	148.9	152.7	155.1	157.8	158.3
74.5°	142.1	142.8	146.5	149.1	151.4	152.0
75°	135.7	136.5	140.2	143.0	145.0	145.7
75.5°	129.7	130.5	134.3	136.7	138.9	139.6
76°	123.6	124.4	128.0	130.5	132.8	133.6
76.5°	117.4	118.3	121.9	124.5	126.6	127.3
77°	111.2	112.1	115.8	118.3	120.6	121.4
77.5°	105.2	106.3	109.8	112.5	114.8	115.4
78°	99.4	100.3	103.9	106.5	108.7	109.3
78.5°	93.4	94.5	98.1	100.7	102.8	103.2
79°	87.7	88.7	92.1	94.6	96.7	97.4
79.5°	81.8	82.9	86.3	88.8	90.9	91.6
80°	76.2	77.1	80.4	82.9	85.1	85.7
80.5°	70.8	71.6	75.0	77.3	79.4	80.0
81°	65.4	66.1	69.4	71.8	73.8	74.3
81.5°	60.1	60.6	63.9	66.2	68.1	68.7
82°	54.7	55.2	58.4	60.8	62.7	63.2
82.5°	49.6	50.1	53.0	55.2	57.3	57.6
83°	44.8	45.0	47.7	49.9	52.0	52.3
83.5°	39.7	40.1	42.8	44.9	46.9	47.3
84°	35.1	35.4	38.1	40.0	41.8	42.3
84.5°	30.5	30.9	33.4	35.4	37.2	37.6
85°	26.3	26.8	29.1	31.0	32.4	32.9
85.5°	22.1	22.6	24.9	26.8	28.1	28.5
86°	18.4	19.0	20.9	22.7	24.1	24.4
86.5°	15.1	15.7	17.5	19.0	20.3	20.5
87°	12.3	12.6	14.2	15.6	16.7	17.1
87.5°	9.6	9.8	11.4	12.5	13.5	13.9
88°	7.2	7.1	8.5	9.8	10.7	10.9
88.5°	5.0	4.8	5.8	7.0	7.9	8.1
89°	3.1	3.2	4.0	4.8	5.5	5.8
89.5°	1.5	1.8	2.4	3.0	3.8	4.0

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869746  
CATALOG NUMBER: SMX18SLSFSD2W-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)