

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: P869689

Luminaire Tested: **SMX14SLSFSD2W-1600LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869689  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX14SLSFSD2W-1600LM-4000K  
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT  
 Ballast/Driver: -

**Summary**

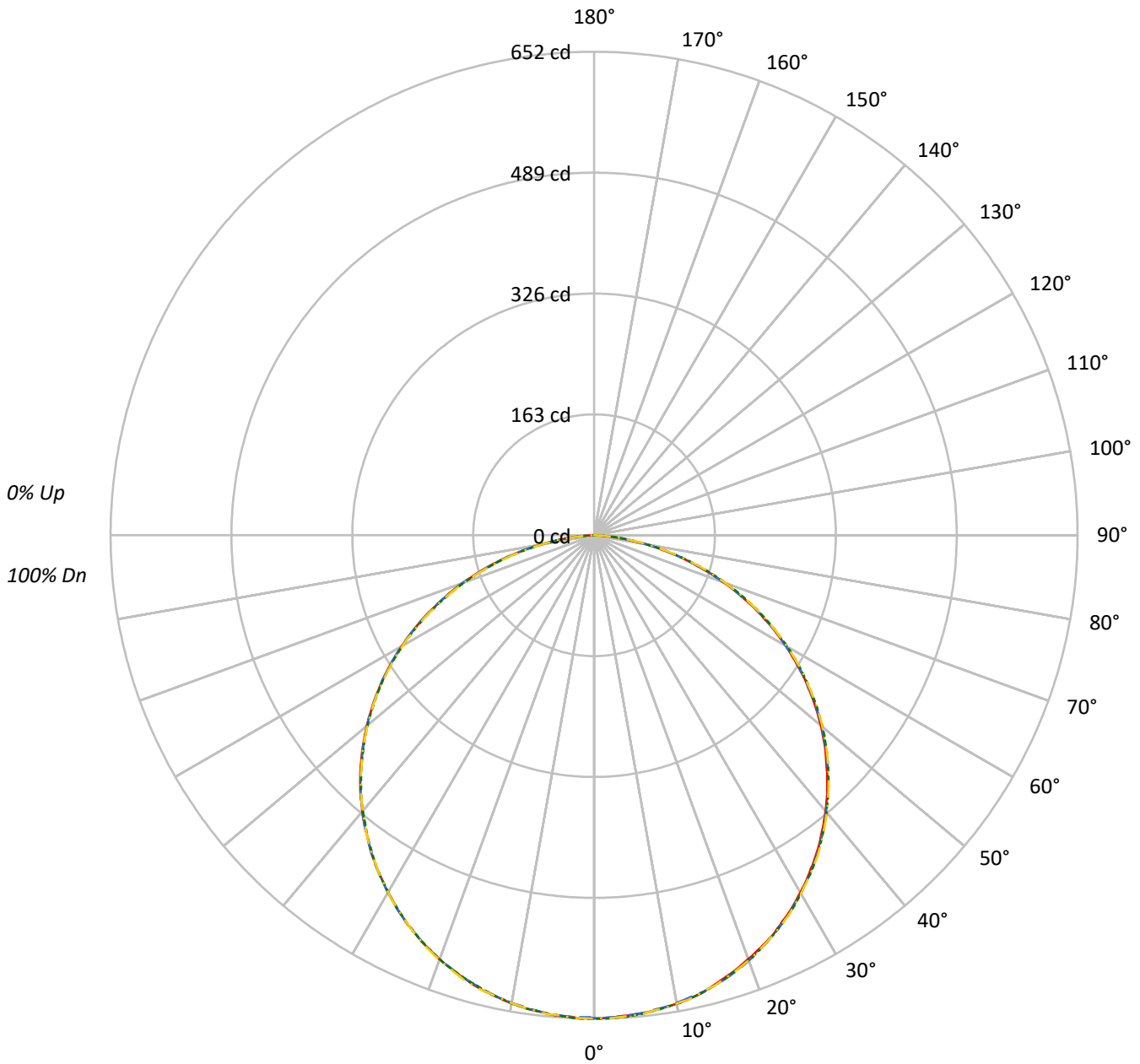
Lumens per Lamp: N/A  
 Luminaire Lumens: 1903.9 lumens  
 Efficiency: N/A  
 Efficacy: 91.5 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
 CIE Type: Direct

Input Watts (W): 20.8  
 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	25	24

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

	0°	90°	180°	270°
0°	5150	5150	5150	5150
5°	5144	5152	5150	5148
10°	5149	5148	5145	5144
15°	5136	5142	5138	5127
20°	5115	5127	5119	5116
25°	5102	5110	5096	5097
30°	5078	5093	5074	5069
35°	5046	5066	5050	5038
40°	5008	5031	5017	5004
45°	4959	4994	4981	4959
50°	4911	4944	4918	4902
55°	4826	4864	4845	4828
60°	4717	4764	4739	4715
65°	4558	4610	4593	4546
70°	4294	4372	4361	4298
75°	3900	3991	3994	3906
80°	3268	3395	3382	3273
85°	2231	2367	2349	2240

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.7	3.2
10°-20°	177.2	9.3
20°-30°	269.8	14.2
30°-40°	327.6	17.2
40°-50°	343.3	18.0
50°-60°	313.9	16.5
60°-70°	241.8	12.7
70°-80°	136.7	7.2
80°-90°	31.8	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°	508.7	26.7
0°-40°	836.3	43.9
0°-60°	1493.6	78.5
0°-90°	1903.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1903.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	652	652	652	652	652	
5°	648	649	649	649	648	62
15°	628	628	628	627	628	177
25°	585	586	584	584	585	270
35°	523	525	523	522	523	327
45°	444	447	446	444	444	342
55°	350	353	352	350	350	313
65°	244	246	246	243	244	240
75°	128	131	131	128	128	135
85°	25	26	26	25	25	31
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°	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6
0.5°	651.3	652.4	650.7	651.4	652.1	651.7	651.8	651.7	651.3	652.1	650.0
1°	651.3	652.6	651.0	651.1	652.1	651.5	651.4	651.3	651.5	651.5	650.1
1.5°	650.9	651.9	650.7	650.8	652.0	651.3	651.8	650.9	651.2	651.6	650.2
2°	650.9	651.8	650.5	650.9	651.8	650.9	651.6	650.7	651.3	651.8	650.1
2.5°	650.6	651.7	650.4	650.3	651.8	651.2	651.3	650.6	650.7	651.6	650.0
3°	649.7	651.4	649.7	650.1	651.2	650.8	650.9	650.5	650.5	650.9	649.8
3.5°	649.4	650.8	649.8	649.8	650.9	650.2	650.5	650.2	650.1	650.9	649.6
4°	649.3	650.2	649.1	649.1	650.9	650.1	650.1	650.1	649.8	650.3	649.4
4.5°	648.9	650.0	648.7	648.8	650.0	649.6	649.7	649.4	649.7	650.6	648.5
5°	648.4	649.6	647.9	648.7	649.4	649.2	649.6	648.8	649.1	649.7	648.3
5.5°	648.1	648.8	647.7	648.0	648.8	648.8	649.2	647.9	648.4	649.0	647.9
6°	647.7	648.2	647.1	647.5	648.3	647.7	648.3	647.5	647.7	648.1	647.3
6.5°	647.2	648.0	646.3	646.8	647.7	646.6	647.7	647.0	646.8	647.5	646.3
7°	646.5	647.2	645.7	646.2	646.8	646.3	646.4	646.1	646.5	646.6	645.5
7.5°	645.7	646.2	644.6	645.2	646.0	645.4	645.7	645.3	645.6	646.1	644.8
8°	644.6	645.3	644.0	644.4	645.1	644.5	645.1	644.5	644.9	645.3	643.8
8.5°	644.0	644.6	643.7	643.4	644.2	644.0	644.3	643.1	644.0	644.0	642.7
9°	643.3	643.9	642.6	642.7	643.3	642.8	643.7	642.3	643.0	643.3	641.8
9.5°	642.4	642.7	641.5	641.8	642.4	641.6	642.4	641.4	641.8	642.7	641.1
10°	641.6	641.2	640.5	640.9	641.5	641.2	641.6	640.5	641.1	641.5	640.5
10.5°	640.8	640.5	639.2	639.7	641.2	640.0	640.4	639.4	639.7	640.3	639.2
11°	639.7	639.0	638.4	638.8	639.9	639.0	639.7	638.1	638.7	639.6	637.9
11.5°	638.6	638.1	636.9	637.4	638.7	638.2	638.9	637.0	637.3	637.9	636.8
12°	637.2	637.3	635.8	636.7	637.4	636.8	637.1	635.5	636.3	636.3	635.7
12.5°	635.9	636.2	635.0	635.2	636.4	636.0	635.8	634.4	635.0	635.0	634.1
13°	634.7	635.0	633.7	634.0	634.8	634.5	634.5	633.2	633.5	633.8	632.7
13.5°	633.2	633.8	632.8	632.1	633.6	632.6	632.3	631.6	632.4	632.8	631.4
14°	631.5	632.2	631.2	630.7	631.9	631.4	631.0	629.8	631.1	631.1	629.6
14.5°	629.6	630.5	629.8	629.1	630.1	629.8	630.0	628.4	629.0	629.8	627.7
15°	627.7	629.2	628.7	628.0	628.4	628.7	628.8	626.3	627.9	628.4	626.7
15.5°	625.8	627.6	627.4	625.8	626.9	626.9	627.0	624.8	625.9	626.7	625.0
16°	624.0	625.3	625.6	624.1	624.9	624.9	624.8	623.7	624.0	624.7	623.6
16.5°	622.1	623.2	623.8	622.6	623.5	623.2	622.9	622.1	622.3	622.8	622.0
17°	620.4	621.3	622.3	620.5	621.5	621.2	621.3	620.5	620.5	620.7	620.3
17.5°	618.4	619.3	620.5	618.2	619.4	619.3	619.7	618.5	618.2	619.1	618.5
18°	616.6	617.0	618.7	616.7	617.6	617.6	617.8	616.4	616.2	616.8	616.3
18.5°	614.6	615.2	617.0	614.9	615.9	615.5	615.8	615.0	614.2	615.2	614.3
19°	612.5	612.9	614.7	612.8	613.6	613.8	613.9	613.1	612.5	613.2	612.6
19.5°	610.4	610.8	612.7	610.3	611.6	612.0	611.8	610.8	610.9	611.2	610.9
20°	608.1	609.0	610.3	608.5	609.6	609.9	609.9	609.0	608.6	609.1	608.6
20.5°	606.3	607.3	608.4	606.2	607.9	608.1	607.8	606.7	606.7	606.8	606.8
21°	604.1	604.6	606.3	604.4	605.7	605.5	605.5	604.9	604.4	604.7	604.3
21.5°	601.7	602.5	603.8	601.8	603.3	603.0	602.9	602.5	601.9	602.4	601.8
22°	599.7	600.2	600.5	599.8	601.0	600.4	600.8	600.8	599.9	599.9	599.5

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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°	597.5	598.2	599.0	597.6	598.7	597.9	598.6	598.1	597.3	597.3	596.9
23°	595.2	595.8	596.5	595.0	596.5	595.6	596.2	595.4	595.2	594.8	594.1
23.5°	593.1	593.5	594.1	592.7	593.9	593.4	593.8	592.9	592.2	592.3	592.2
24°	590.9	591.0	591.3	590.4	591.4	591.3	591.5	590.5	589.9	590.4	589.6
24.5°	588.1	588.4	589.0	587.8	589.0	588.9	589.3	588.3	587.3	588.3	587.4
25°	585.0	586.1	586.5	585.0	586.0	586.3	586.5	585.7	584.4	585.2	584.6
25.5°	582.5	583.6	583.7	582.4	583.7	583.6	583.6	582.6	582.4	582.4	582.3
26°	579.3	580.6	580.8	579.3	581.1	581.0	581.2	580.1	579.6	580.3	579.7
26.5°	577.0	577.9	578.3	576.8	578.7	578.1	578.4	576.9	576.6	577.1	576.6
27°	574.4	575.4	575.1	574.5	576.1	575.3	576.1	574.6	573.8	574.3	574.2
27.5°	571.5	572.4	572.4	571.7	573.0	572.4	573.3	571.8	571.4	571.7	571.0
28°	568.5	569.3	569.4	568.8	570.2	569.9	570.0	568.8	568.2	569.1	568.5
28.5°	565.5	566.3	566.3	566.5	567.4	566.8	567.1	566.3	564.9	566.3	565.5
29°	562.4	563.5	563.7	563.2	564.0	563.6	564.0	563.2	561.8	563.3	562.0
29.5°	559.5	560.3	560.6	560.5	561.0	560.7	561.3	560.0	559.1	560.6	558.9
30°	556.4	557.2	557.5	557.3	558.1	558.0	558.3	557.2	556.0	557.0	555.7
30.5°	553.3	554.1	554.6	554.6	554.9	555.0	555.0	554.1	552.8	553.8	552.8
31°	550.5	550.8	551.0	551.7	551.5	551.9	551.5	551.0	549.6	550.8	549.8
31.5°	547.2	547.9	548.1	548.5	548.2	548.5	548.5	547.6	546.3	547.3	546.6
32°	543.6	544.8	544.9	545.0	544.8	545.4	545.3	544.2	543.0	544.1	543.4
32.5°	540.4	541.6	541.9	542.1	542.1	542.2	542.5	541.4	540.3	541.3	540.0
33°	536.6	538.1	538.1	538.7	538.9	538.7	539.0	538.0	537.0	538.1	537.0
33.5°	533.5	534.9	535.2	535.4	535.5	535.0	535.8	534.6	533.6	534.9	533.5
34°	530.2	531.7	531.7	532.1	532.1	531.7	532.6	530.8	530.0	530.9	530.1
34.5°	526.8	527.8	528.2	528.6	528.7	528.5	529.5	527.2	526.8	527.4	527.0
35°	523.0	523.5	524.4	524.9	525.1	525.2	526.1	524.3	523.4	523.8	523.3
35.5°	519.8	520.2	520.9	521.0	521.8	521.9	522.5	520.5	520.0	520.1	519.7
36°	516.1	516.7	517.0	517.6	518.1	517.8	518.9	516.8	516.2	516.5	516.1
36.5°	512.2	513.6	513.4	514.0	514.5	513.9	515.2	513.1	512.4	512.7	512.0
37°	508.2	509.6	510.0	510.4	510.8	510.7	511.6	509.0	508.4	509.2	508.7
37.5°	504.6	506.2	506.6	506.7	506.8	506.8	507.5	505.7	504.8	505.5	505.1
38°	500.9	502.6	502.7	502.7	503.2	502.8	503.5	502.1	501.5	502.0	501.5
38.5°	497.1	498.4	498.7	498.8	499.3	498.8	499.8	498.3	497.8	498.0	498.0
39°	493.2	494.9	494.7	494.9	495.5	495.1	496.0	494.3	494.1	494.1	493.7
39.5°	489.3	490.7	490.8	490.6	491.6	491.9	491.8	490.6	490.4	490.2	489.8
40°	485.4	486.4	486.8	486.8	487.6	488.2	488.0	487.2	486.3	486.4	486.1
40.5°	481.6	482.8	483.0	482.6	483.5	484.2	484.4	483.3	482.3	482.5	482.0
41°	477.5	478.9	479.0	478.8	479.9	480.2	480.2	479.2	478.0	478.5	478.1
41.5°	473.8	474.7	475.1	474.5	475.9	476.6	476.5	475.2	474.5	474.6	474.4
42°	469.5	470.5	471.0	470.5	471.4	472.3	472.1	471.3	470.8	470.3	470.3
42.5°	465.1	466.4	467.1	466.3	467.5	468.1	467.8	467.2	466.5	466.0	466.1
43°	461.0	462.1	463.0	462.1	463.5	463.8	463.7	462.9	462.2	461.7	462.1
43.5°	456.7	458.2	458.6	458.0	459.4	459.4	459.6	458.7	458.2	457.5	457.7
44°	452.4	453.9	454.3	453.9	455.1	455.2	455.4	454.6	453.8	453.3	453.5
44.5°	448.3	449.4	450.0	449.4	450.9	451.2	451.2	450.4	449.6	449.1	449.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	443.7	445.2	445.9	445.2	446.8	447.0	446.6	446.1	445.6	445.1	444.6
45.5°	439.1	440.8	441.8	440.9	442.7	442.7	442.2	441.9	441.1	440.7	440.1
46°	434.9	436.9	437.1	436.8	438.1	438.1	438.0	437.4	436.5	436.1	436.0
46.5°	431.0	432.3	432.6	432.4	433.6	433.7	433.9	432.8	432.1	432.2	431.4
47°	426.7	427.8	428.0	428.0	429.1	429.3	429.4	428.2	427.8	427.5	427.0
47.5°	422.5	423.6	423.4	423.2	424.6	425.0	424.7	423.7	423.3	422.9	422.3
48°	417.7	418.9	418.7	418.9	420.2	420.6	420.3	419.4	418.5	418.6	417.7
48.5°	413.0	414.3	414.3	414.1	415.8	415.8	415.8	415.0	413.8	414.0	413.4
49°	408.4	409.8	409.6	409.6	411.4	411.2	411.1	410.3	409.6	409.5	408.9
49.5°	403.8	405.2	405.1	404.8	406.8	406.4	406.5	405.9	404.8	405.2	404.2
50°	399.4	400.4	400.4	400.1	402.1	402.1	401.9	401.0	400.0	400.3	399.8
50.5°	394.2	395.8	395.7	395.5	397.3	397.3	397.2	396.4	395.4	395.6	395.1
51°	389.5	390.8	390.8	390.6	392.4	392.4	392.6	391.5	390.7	390.9	390.7
51.5°	384.8	386.1	386.2	386.0	387.7	387.5	387.8	386.7	385.8	386.1	385.4
52°	380.0	381.5	381.3	381.2	382.7	383.0	383.0	381.8	380.6	381.3	380.6
52.5°	375.1	376.4	376.4	376.4	378.1	378.3	378.1	377.0	376.1	376.8	375.8
53°	370.2	371.6	371.4	371.2	373.0	373.3	373.0	372.1	371.5	371.8	371.2
53.5°	365.2	366.6	366.4	366.2	367.9	368.1	367.9	367.5	366.6	367.3	366.2
54°	360.1	361.2	361.4	361.1	363.0	363.2	363.0	362.6	361.4	362.0	361.4
54.5°	354.9	356.1	356.5	356.3	358.1	358.1	358.0	357.3	356.4	356.9	356.7
55°	350.2	351.4	351.0	351.5	353.0	353.2	353.2	352.4	351.6	351.9	351.8
55.5°	345.4	346.3	346.2	346.3	347.9	348.4	347.7	347.1	346.6	347.3	346.7
56°	340.3	341.3	341.0	341.4	342.8	343.4	343.3	342.4	341.7	342.1	341.6
56.5°	335.2	336.1	336.0	336.3	337.8	338.3	338.2	337.1	336.4	336.9	336.4
57°	329.8	330.7	330.8	331.2	332.7	333.3	332.9	332.1	331.1	331.8	331.3
57.5°	324.3	325.4	325.6	325.9	327.6	327.7	327.8	326.9	326.1	326.6	326.4
58°	319.5	320.2	320.4	320.4	322.1	322.7	322.1	321.9	320.8	321.2	321.4
58.5°	314.1	315.2	315.2	315.2	317.0	317.7	316.5	316.5	315.7	316.0	316.1
59°	308.7	310.0	309.5	309.6	312.0	312.0	311.6	311.3	310.6	311.0	310.8
59.5°	303.4	304.4	304.1	304.4	306.8	306.6	306.3	305.9	305.0	305.7	305.4
60°	298.4	299.0	298.7	298.9	301.4	301.3	301.0	300.9	299.8	300.3	300.1
60.5°	293.4	293.6	293.5	293.2	295.9	295.9	295.3	295.3	294.0	294.9	294.7
61°	287.5	288.0	288.1	287.8	290.4	290.9	290.0	290.3	289.1	289.4	289.2
61.5°	282.2	282.7	282.9	282.3	284.9	285.4	284.5	284.7	283.8	284.3	283.7
62°	276.7	277.2	277.6	277.2	279.6	280.0	279.7	279.4	278.5	278.9	278.8
62.5°	271.3	271.5	272.0	271.5	273.8	274.3	274.0	273.9	272.9	273.3	273.1
63°	265.6	265.9	266.5	266.2	268.3	269.1	268.5	268.5	267.5	267.8	267.4
63.5°	260.2	260.7	260.9	260.7	262.9	263.6	263.1	263.1	262.2	262.3	262.1
64°	254.5	255.1	255.3	255.1	257.5	258.0	257.6	257.3	256.7	256.9	256.4
64.5°	249.2	249.8	250.0	249.5	251.9	252.1	251.8	251.5	251.1	251.1	250.9
65°	243.7	244.2	244.1	244.0	246.5	246.9	246.5	246.1	245.6	245.8	245.6
65.5°	238.0	238.3	238.4	238.0	241.2	240.9	240.6	240.3	239.8	240.3	240.1
66°	232.3	232.7	232.7	232.2	235.3	235.2	234.5	234.5	234.0	234.7	234.4
66.5°	226.4	227.0	226.6	226.6	229.5	229.4	229.2	228.8	228.6	229.1	228.5
67°	220.5	221.0	221.0	221.0	223.6	224.0	223.6	223.4	222.9	223.2	223.2



TEST NUMBER: P869689  
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	215.0	215.4	215.4	215.3	217.9	218.2	217.7	217.5	217.3	217.6	217.3
68°	209.1	209.7	209.5	209.7	212.3	212.7	212.1	211.9	212.0	211.9	211.5
68.5°	203.4	203.8	203.8	203.7	206.7	207.0	206.4	206.2	206.4	206.3	205.8
69°	197.7	198.1	198.1	197.8	201.1	201.2	200.7	200.4	200.4	200.3	199.7
69.5°	191.6	192.1	192.3	192.1	195.1	195.4	194.9	194.5	194.6	194.6	194.2
70°	185.8	186.4	186.3	186.1	189.2	189.5	188.9	188.6	188.7	188.9	188.2
70.5°	180.0	180.6	180.1	180.4	183.5	183.8	183.2	183.0	183.2	183.0	182.6
71°	174.3	174.6	174.3	174.4	177.7	178.0	177.1	177.4	177.2	177.2	176.9
71.5°	168.7	168.9	168.6	168.4	171.7	171.9	171.5	171.3	171.6	171.2	170.9
72°	162.8	163.0	162.7	162.6	165.8	166.1	165.7	165.7	165.8	165.4	165.2
72.5°	156.7	157.4	157.1	156.6	160.1	160.3	160.1	159.7	160.0	159.7	159.3
73°	151.0	151.4	151.2	151.0	154.3	154.5	154.2	154.0	154.0	153.9	153.6
73.5°	145.3	145.7	145.3	145.3	148.6	148.9	148.8	148.4	148.4	148.2	148.0
74°	139.3	139.7	139.6	139.5	142.8	143.2	143.1	142.5	142.6	142.3	142.1
74.5°	133.6	134.2	133.7	133.7	136.9	137.3	136.8	136.8	136.7	136.7	136.4
75°	127.7	128.1	128.0	127.7	130.7	131.2	131.1	130.9	130.8	130.8	130.7
75.5°	122.1	122.1	122.1	121.9	125.0	125.5	125.1	125.1	125.1	125.1	125.0
76°	116.3	116.4	116.3	116.4	119.2	119.7	119.2	119.3	119.3	119.2	119.1
76.5°	110.4	110.7	110.8	110.4	113.6	113.8	113.5	113.7	113.6	113.5	113.6
77°	104.8	104.9	104.7	104.8	107.8	108.2	108.0	107.8	107.8	107.9	107.9
77.5°	99.1	99.5	99.2	99.2	102.0	102.4	102.2	102.2	102.2	102.3	102.3
78°	93.5	93.8	93.5	93.6	96.5	96.7	96.6	96.4	96.1	96.6	96.6
78.5°	88.0	88.2	87.9	88.1	91.1	91.1	91.1	90.8	90.5	91.0	91.0
79°	82.5	82.7	82.4	82.8	85.8	85.8	85.6	85.5	85.2	85.6	85.4
79.5°	77.1	77.3	77.1	77.3	80.3	80.2	80.0	80.0	79.7	80.1	80.1
80°	71.8	71.9	71.8	71.7	74.6	74.8	74.4	74.4	74.3	74.7	74.6
80.5°	66.4	66.5	66.4	66.3	69.2	69.6	69.3	69.2	69.0	69.3	69.4
81°	61.3	61.4	61.2	60.8	63.9	64.2	64.1	63.8	63.9	64.2	64.2
81.5°	56.2	56.3	56.1	55.9	58.7	59.0	58.7	58.6	58.6	59.0	59.0
82°	51.3	51.3	51.2	50.8	53.7	53.8	53.7	53.4	53.4	53.8	54.0
82.5°	46.4	46.5	46.3	46.0	48.9	49.0	48.9	48.7	48.6	49.0	49.3
83°	41.6	41.7	41.5	41.1	44.0	44.1	44.1	43.9	43.9	44.2	44.5
83.5°	36.9	37.1	36.9	36.7	39.1	39.4	39.1	39.1	39.1	39.4	39.7
84°	32.6	32.8	32.6	32.2	34.6	34.7	34.7	34.5	34.4	34.8	35.1
84.5°	28.6	28.6	28.5	28.2	30.3	30.6	30.3	30.2	30.1	30.4	30.7
85°	24.6	24.5	24.5	24.1	26.1	26.2	26.1	26.0	25.9	26.1	26.4
85.5°	21.0	21.0	21.0	20.6	22.1	22.2	22.1	22.1	22.0	22.2	22.5
86°	17.5	17.5	17.4	17.1	18.8	18.8	18.8	18.8	18.8	19.0	19.2
86.5°	14.1	14.2	14.1	13.9	15.7	15.7	15.8	15.5	15.6	15.8	15.9
87°	11.0	11.0	11.0	10.7	12.5	12.6	12.7	12.4	12.4	12.6	12.7
87.5°	8.0	8.0	8.0	7.7	9.6	9.6	9.6	9.5	9.4	9.7	9.8
88°	5.6	5.7	5.6	5.4	7.0	7.0	7.0	6.9	6.9	7.1	7.2
88.5°	3.7	3.8	3.7	3.6	4.7	5.0	4.7	4.6	4.5	4.8	4.9
89°	2.3	2.4	2.4	2.3	2.8	2.9	2.8	2.8	2.6	2.8	2.9
89.5°	1.3	1.3	1.3	1.2	1.4	1.5	1.4	1.2	1.1	1.3	1.4

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



TEST NUMBER: P869689  
CATALOG NUMBER: SMX14SLSFSD2W-1600LM-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: P869689  
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	651.6	651.6	651.6	651.6	651.6	651.6
0.5°	651.0	652.5	651.9	651.6	651.4	651.3
1°	650.9	652.2	652.5	651.3	651.0	651.3
1.5°	651.1	652.5	652.0	651.7	650.6	650.9
2°	650.6	651.8	651.5	651.3	650.8	650.9
2.5°	650.8	651.5	651.1	650.7	651.1	650.6
3°	650.5	650.7	650.5	650.5	650.8	649.7
3.5°	649.8	650.1	650.5	649.9	650.6	649.4
4°	649.7	649.8	650.5	649.2	649.9	649.3
4.5°	649.2	649.2	649.6	649.0	649.6	648.9
5°	648.1	648.9	648.7	648.8	648.7	648.4
5.5°	647.5	648.3	648.3	648.8	648.2	648.1
6°	646.5	647.5	647.2	647.9	647.6	647.7
6.5°	646.2	646.6	646.6	647.5	646.6	647.2
7°	645.4	646.0	645.7	646.3	645.7	646.5
7.5°	645.3	645.5	645.2	645.3	645.5	645.7
8°	644.0	644.9	644.0	644.6	644.4	644.6
8.5°	643.1	644.0	643.6	643.9	643.1	644.0
9°	642.0	642.8	642.7	642.7	642.4	643.3
9.5°	640.7	642.2	641.4	641.7	641.4	642.4
10°	640.1	641.0	640.1	640.6	640.7	641.6
10.5°	638.8	639.7	639.3	639.6	640.1	640.8
11°	637.7	638.1	638.5	638.3	638.7	639.7
11.5°	636.5	636.7	637.6	636.6	637.7	638.6
12°	635.2	635.7	636.4	635.6	636.5	637.2
12.5°	634.1	634.4	635.0	634.9	636.0	635.9
13°	633.0	633.1	633.7	633.4	634.4	634.7
13.5°	631.5	631.5	631.9	632.3	632.8	633.2
14°	630.2	629.6	630.2	631.5	631.5	631.5
14.5°	628.3	628.0	628.2	629.7	629.6	629.6
15°	626.9	626.6	626.4	628.4	627.7	627.7
15.5°	625.1	625.0	625.0	627.1	626.1	625.8
16°	623.6	623.3	623.0	625.6	623.7	624.0
16.5°	621.8	621.5	621.5	623.8	622.2	622.1
17°	619.9	619.8	619.8	621.6	620.3	620.4
17.5°	618.1	618.1	617.6	619.7	618.1	618.4
18°	616.2	616.3	616.1	617.9	616.5	616.6
18.5°	614.4	614.5	614.2	615.5	614.2	614.6
19°	612.6	612.6	612.3	613.5	611.9	612.5
19.5°	610.3	610.5	610.7	611.3	609.9	610.4
20°	608.3	608.3	609.0	609.0	608.1	608.1
20.5°	606.0	606.1	607.0	607.0	606.3	606.3
21°	603.8	603.8	604.7	605.0	604.2	604.1
21.5°	601.6	601.5	602.9	602.6	602.4	601.7
22°	599.5	599.5	600.9	600.3	599.9	599.7

TEST NUMBER: P869689  
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	596.8	596.9	598.3	597.8	597.6	597.5
23°	594.7	594.7	595.6	595.1	595.2	595.2
23.5°	592.6	592.2	593.7	592.8	592.9	593.1
24°	590.0	589.6	591.3	589.9	590.0	590.9
24.5°	587.4	587.0	587.9	587.8	587.4	588.1
25°	584.5	584.5	585.4	584.7	584.5	585.0
25.5°	581.9	581.9	582.6	582.2	581.9	582.5
26°	578.8	579.2	579.5	579.2	579.1	579.3
26.5°	576.2	576.2	576.8	576.2	576.2	577.0
27°	573.5	573.5	574.2	573.5	573.5	574.4
27.5°	571.1	570.6	571.5	570.6	570.6	571.5
28°	568.0	567.5	568.7	567.7	567.5	568.5
28.5°	565.2	564.4	565.8	565.3	565.0	565.5
29°	562.1	561.6	563.0	562.0	561.8	562.4
29.5°	558.9	558.3	560.2	559.1	558.8	559.5
30°	555.9	555.4	557.2	555.9	555.4	556.4
30.5°	552.6	552.7	553.9	552.4	552.2	553.3
31°	549.3	549.3	550.2	549.4	549.1	550.5
31.5°	546.2	546.1	546.6	546.4	545.9	547.2
32°	543.1	543.2	543.2	542.9	542.5	543.6
32.5°	540.1	539.6	540.2	540.2	539.4	540.4
33°	536.8	536.8	536.7	536.7	536.0	536.6
33.5°	533.4	533.3	533.7	533.2	532.9	533.5
34°	529.8	529.7	529.8	530.1	529.1	530.2
34.5°	526.6	526.0	526.5	526.8	525.7	526.8
35°	523.4	522.2	522.6	523.3	522.4	523.0
35.5°	519.8	518.5	519.1	519.7	518.9	519.8
36°	516.0	515.2	515.5	515.9	515.2	516.1
36.5°	512.4	511.5	511.8	512.1	511.8	512.2
37°	508.7	507.9	508.1	508.3	508.2	508.2
37.5°	505.1	503.9	504.3	504.9	504.5	504.6
38°	501.5	499.9	500.6	501.0	501.1	500.9
38.5°	498.0	496.0	497.1	496.8	497.1	497.1
39°	494.1	492.5	493.2	493.2	493.1	493.2
39.5°	490.2	488.7	489.5	489.3	489.3	489.3
40°	486.2	485.0	485.6	485.4	485.1	485.4
40.5°	482.0	481.2	481.5	481.3	481.5	481.6
41°	478.1	477.8	477.7	477.7	477.5	477.5
41.5°	473.9	473.5	473.8	473.8	474.1	473.8
42°	469.9	469.4	469.6	469.8	470.3	469.5
42.5°	465.8	465.0	465.7	465.6	465.4	465.1
43°	461.7	460.8	461.2	461.3	461.0	461.0
43.5°	457.8	456.5	457.4	456.9	456.9	456.7
44°	453.5	452.1	453.3	452.6	452.5	452.4
44.5°	449.4	448.2	448.7	448.3	448.9	448.3

TEST NUMBER: P869689  
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	445.0	443.7	444.4	444.1	444.3	443.7
45.5°	440.9	439.3	440.1	439.7	439.4	439.1
46°	436.3	435.0	435.6	435.5	434.9	434.9
46.5°	431.8	430.4	431.5	431.0	430.5	431.0
47°	427.3	425.7	427.3	426.7	426.3	426.7
47.5°	422.8	421.1	422.8	422.0	422.3	422.5
48°	418.2	416.7	418.0	417.4	418.0	417.7
48.5°	414.0	412.4	413.4	412.8	413.3	413.0
49°	409.0	407.9	408.8	408.1	408.0	408.4
49.5°	404.5	403.3	404.2	403.5	403.3	403.8
50°	400.0	398.7	399.4	398.9	399.1	399.4
50.5°	395.3	394.0	394.7	394.2	394.2	394.2
51°	390.8	389.2	389.9	389.5	389.1	389.5
51.5°	385.9	384.2	384.9	384.7	384.1	384.8
52°	381.2	379.5	380.3	379.9	379.3	380.0
52.5°	376.1	374.4	375.4	375.3	374.6	375.1
53°	371.4	369.8	370.2	370.3	369.8	370.2
53.5°	366.6	365.0	365.5	365.3	364.9	365.2
54°	361.8	360.0	360.1	360.2	360.2	360.1
54.5°	356.7	355.0	355.4	354.8	354.8	354.9
55°	351.7	350.4	350.4	349.7	349.9	350.2
55.5°	346.7	345.4	345.5	344.6	345.0	345.4
56°	342.2	340.2	340.4	339.4	339.9	340.3
56.5°	336.8	335.1	335.2	334.6	335.0	335.2
57°	331.6	329.7	330.1	329.4	329.7	329.8
57.5°	326.4	324.7	325.0	324.3	324.3	324.3
58°	321.4	319.4	319.5	319.7	319.1	319.5
58.5°	316.1	314.2	314.2	314.4	314.3	314.1
59°	310.9	308.8	308.8	309.1	309.1	308.7
59.5°	305.3	303.5	303.4	303.5	303.8	303.4
60°	299.8	298.3	298.2	298.2	298.2	298.4
60.5°	294.8	293.0	292.8	292.7	292.5	293.4
61°	289.7	287.5	287.7	287.1	287.1	287.5
61.5°	284.2	281.9	282.5	281.5	282.0	282.2
62°	278.7	276.8	277.0	276.1	276.3	276.7
62.5°	273.3	271.2	271.5	270.8	270.7	271.3
63°	267.7	265.5	265.8	265.5	265.1	265.6
63.5°	262.1	260.0	260.4	259.7	259.5	260.2
64°	256.9	254.3	254.7	254.2	254.1	254.5
64.5°	250.9	248.9	249.3	248.8	248.7	249.2
65°	245.7	243.1	243.5	243.1	243.0	243.7
65.5°	240.0	237.6	237.8	237.4	237.5	238.0
66°	234.1	231.8	231.8	231.9	231.9	232.3
66.5°	228.4	226.1	226.2	226.2	226.6	226.4
67°	223.2	220.1	220.6	220.2	221.1	220.5

TEST NUMBER: P869689  
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	217.2	214.5	215.4	214.7	215.4	215.0
68°	211.5	208.9	209.4	208.9	209.0	209.1
68.5°	205.8	203.6	203.7	203.3	203.3	203.4
69°	199.9	197.8	198.1	197.8	197.8	197.7
69.5°	194.2	191.9	192.3	191.9	192.0	191.6
70°	188.4	186.0	186.3	186.0	186.1	185.8
70.5°	183.0	180.3	180.5	180.4	180.5	180.0
71°	177.4	174.0	174.4	174.5	174.5	174.3
71.5°	171.3	168.5	168.8	168.5	168.5	168.7
72°	165.5	162.7	162.7	162.7	162.5	162.8
72.5°	159.7	157.0	157.1	157.0	156.4	156.7
73°	154.2	151.1	151.6	151.2	150.8	151.0
73.5°	148.4	145.3	145.8	145.4	145.2	145.3
74°	142.8	139.5	139.8	139.3	139.3	139.3
74.5°	136.9	133.7	134.0	133.6	133.3	133.6
75°	131.1	127.9	128.1	127.7	127.4	127.7
75.5°	125.2	122.2	122.3	121.8	121.6	122.1
76°	119.5	116.4	116.4	116.1	116.0	116.3
76.5°	113.9	110.4	110.7	110.5	110.4	110.4
77°	108.2	104.9	104.9	104.6	104.6	104.8
77.5°	102.4	99.6	99.2	99.2	99.2	99.1
78°	96.7	93.9	93.5	93.5	93.5	93.5
78.5°	91.1	88.4	88.0	88.0	88.1	88.0
79°	85.7	83.0	82.5	82.6	82.9	82.5
79.5°	80.2	77.3	77.3	77.1	77.5	77.1
80°	74.8	71.9	71.9	71.7	72.0	71.8
80.5°	69.6	66.7	66.7	66.7	66.5	66.4
81°	64.3	61.4	61.5	61.5	61.3	61.3
81.5°	59.0	56.3	56.5	56.6	56.2	56.2
82°	54.0	51.4	51.5	51.6	51.2	51.3
82.5°	49.3	46.5	46.8	46.5	46.3	46.4
83°	44.5	41.9	42.0	41.9	41.5	41.6
83.5°	39.7	37.4	37.4	37.3	36.9	36.9
84°	35.1	33.0	33.0	32.9	32.6	32.6
84.5°	30.7	28.7	28.7	28.7	28.6	28.6
85°	26.6	24.7	24.8	24.6	24.6	24.6
85.5°	22.5	21.1	21.2	21.1	21.1	21.0
86°	19.3	17.5	17.7	17.7	17.5	17.5
86.5°	16.0	14.2	14.5	14.3	14.2	14.1
87°	12.9	11.1	11.3	11.2	11.1	11.0
87.5°	10.0	8.0	8.2	8.2	8.1	8.0
88°	7.3	5.7	5.8	5.8	5.8	5.6
88.5°	5.0	3.7	3.9	3.9	3.9	3.7
89°	3.1	2.2	2.4	2.4	2.4	2.3
89.5°	1.5	1.2	1.3	1.3	1.3	1.3

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869689  
CATALOG NUMBER: SMX14SLSFSD2W-1600LM-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)