

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: P869688

Luminaire Tested: **SMX14SLSFSD2W-1600LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869688  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX14SLSFSD2W-1600LM-3500K  
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

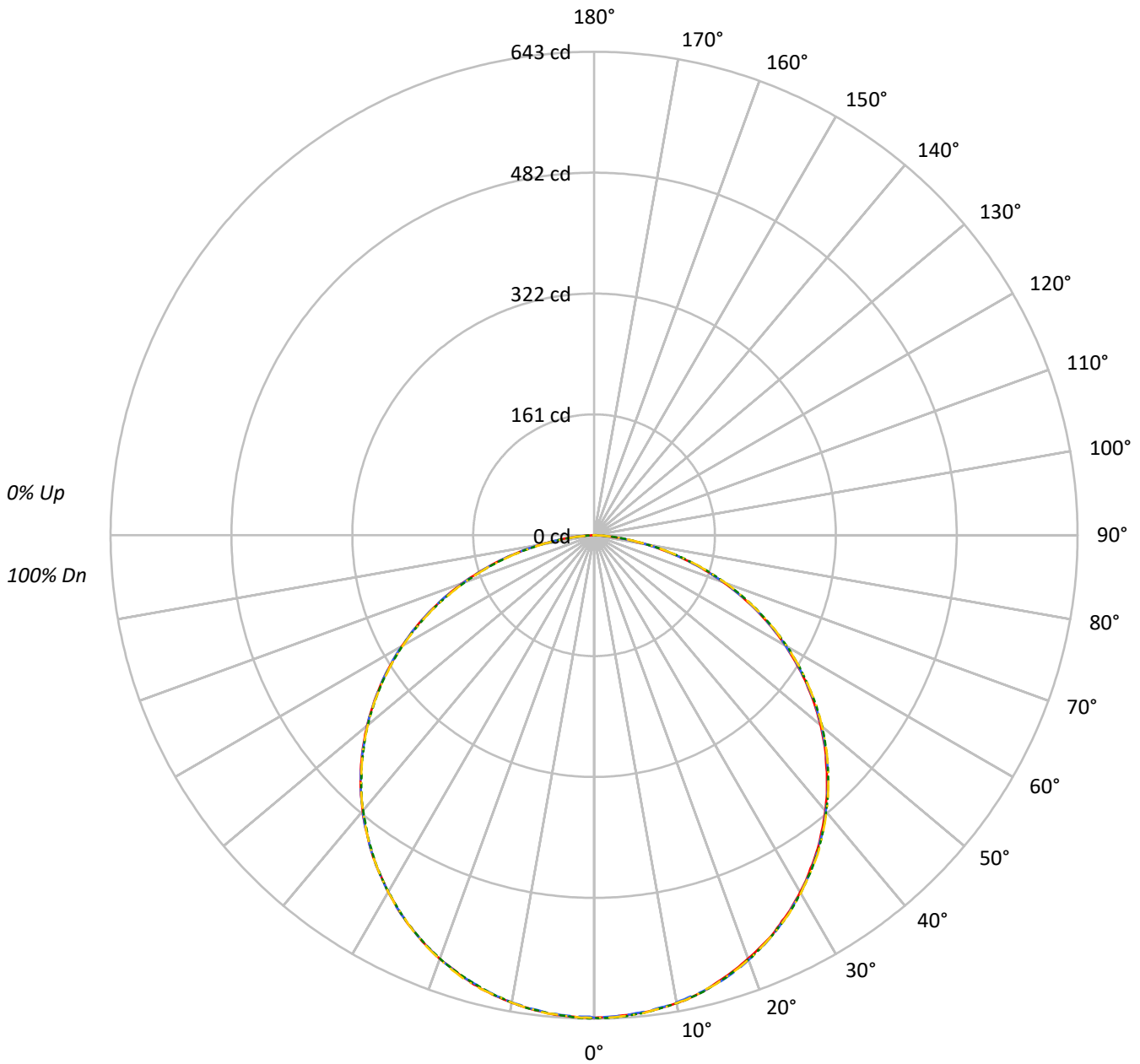
Lumens per Lamp: N/A  
 Luminaire Lumens: 1875.2 lumens  
 Efficiency: N/A  
 Efficacy: 90.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
 CIE Type: Direct

Input Watts (W): 20.8  
 Input Voltage (V): NR  
 Input Current (A<sub>in</sub>): 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	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°	5073	5073	5073	5073
5°	5067	5074	5072	5071
10°	5071	5071	5068	5067
15°	5059	5065	5060	5049
20°	5038	5050	5042	5040
25°	5025	5034	5020	5021
30°	5001	5017	4998	4992
35°	4970	4990	4974	4963
40°	4933	4954	4941	4929
45°	4885	4919	4906	4885
50°	4837	4870	4845	4829
55°	4754	4791	4772	4755
60°	4646	4692	4668	4646
65°	4488	4539	4524	4479
70°	4229	4307	4296	4234
75°	3842	3933	3936	3848
80°	3218	3345	3332	3222
85°	2195	2331	2312	2204

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	3.2
10°-20°	174.5	9.3
20°-30°	265.7	14.2
30°-40°	322.7	17.2
40°-50°	338.2	18.0
50°-60°	309.2	16.5
60°-70°	238.1	12.7
70°-80°	134.7	7.2
80°-90°	31.3	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°	501.0	26.7
0°-40°	823.7	43.9
0°-60°	1471.1	78.5
0°-90°	1875.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1875.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	642	642	642	642	642	
5°	639	640	639	639	639	61
15°	618	619	618	617	618	175
25°	576	577	576	576	576	266
35°	515	517	516	514	515	322
45°	437	440	439	437	437	337
55°	345	348	346	345	345	308
65°	240	243	242	240	240	237
75°	126	129	129	126	126	133
85°	24	26	26	24	24	30
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°	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8
0.5°	641.5	642.6	640.9	641.6	642.3	641.9	641.9	641.9	641.5	642.3	640.2
1°	641.5	642.7	641.2	641.3	642.3	641.7	641.6	641.5	641.7	641.7	640.3
1.5°	641.1	642.1	640.9	641.0	642.2	641.5	642.0	641.1	641.4	641.8	640.4
2°	641.1	641.9	640.7	641.1	641.9	641.1	641.8	640.9	641.5	641.9	640.3
2.5°	640.8	641.9	640.6	640.5	642.0	641.4	641.5	640.8	640.9	641.8	640.2
3°	639.9	641.6	639.9	640.3	641.4	641.0	641.1	640.7	640.7	641.1	640.0
3.5°	639.6	641.0	640.0	640.0	641.1	640.4	640.7	640.4	640.3	641.1	639.8
4°	639.5	640.4	639.3	639.3	641.1	640.3	640.3	640.3	640.0	640.5	639.6
4.5°	639.1	640.2	638.9	639.1	640.2	639.9	639.9	639.6	639.9	640.8	638.7
5°	638.7	639.8	638.1	638.9	639.6	639.5	639.8	639.1	639.3	639.9	638.6
5.5°	638.3	639.1	637.9	638.3	639.1	639.0	639.5	638.2	638.7	639.2	638.1
6°	637.9	638.4	637.4	637.8	638.6	637.9	638.6	637.8	637.9	638.3	637.5
6.5°	637.5	638.3	636.6	637.1	637.9	636.9	637.9	637.3	637.1	637.7	636.6
7°	636.7	637.5	636.0	636.5	637.1	636.6	636.7	636.3	636.7	636.8	635.8
7.5°	636.0	636.5	634.9	635.5	636.3	635.7	636.0	635.5	635.9	636.3	635.1
8°	634.9	635.6	634.3	634.7	635.4	634.8	635.4	634.8	635.1	635.5	634.1
8.5°	634.3	634.9	634.0	633.7	634.5	634.3	634.6	633.5	634.3	634.3	633.0
9°	633.6	634.2	632.9	633.0	633.6	633.1	634.0	632.6	633.3	633.6	632.2
9.5°	632.7	633.0	631.9	632.1	632.7	631.9	632.7	631.8	632.2	633.0	631.5
10°	631.9	631.5	630.8	631.2	631.9	631.5	631.9	630.9	631.5	631.9	630.9
10.5°	631.1	630.8	629.5	630.1	631.5	630.3	630.7	629.8	630.1	630.7	629.6
11°	630.1	629.4	628.8	629.2	630.3	629.4	630.1	628.5	629.1	629.9	628.3
11.5°	629.0	628.5	627.3	627.8	629.1	628.6	629.3	627.4	627.7	628.3	627.2
12°	627.6	627.7	626.3	627.1	627.8	627.2	627.5	625.9	626.7	626.7	626.1
12.5°	626.3	626.7	625.5	625.6	626.8	626.4	626.2	624.8	625.5	625.5	624.6
13°	625.1	625.5	624.2	624.4	625.2	624.9	624.9	623.7	623.9	624.3	623.1
13.5°	623.7	624.3	623.2	622.6	624.0	623.1	622.8	622.1	622.9	623.2	621.9
14°	622.0	622.7	621.7	621.2	622.4	621.9	621.5	620.3	621.6	621.6	620.1
14.5°	620.1	621.0	620.3	619.6	620.6	620.3	620.5	618.9	619.5	620.3	618.3
15°	618.3	619.7	619.2	618.5	619.0	619.2	619.3	616.8	618.4	618.9	617.2
15.5°	616.3	618.1	617.9	616.3	617.5	617.5	617.5	615.4	616.4	617.3	615.5
16°	614.6	615.9	616.2	614.7	615.5	615.5	615.4	614.3	614.6	615.3	614.2
16.5°	612.8	613.8	614.4	613.2	614.1	613.8	613.6	612.8	612.9	613.5	612.7
17°	611.1	612.0	612.9	611.2	612.1	611.9	612.0	611.2	611.2	611.4	611.0
17.5°	609.1	610.0	611.2	608.9	610.1	610.0	610.4	609.2	608.9	609.8	609.2
18°	607.3	607.7	609.4	607.4	608.3	608.3	608.5	607.2	606.9	607.6	607.1
18.5°	605.3	606.0	607.7	605.6	606.7	606.2	606.5	605.7	605.0	606.0	605.1
19°	603.2	603.7	605.5	603.6	604.4	604.6	604.7	603.9	603.2	604.0	603.4
19.5°	601.2	601.6	603.5	601.2	602.4	602.8	602.6	601.6	601.7	602.0	601.7
20°	599.0	599.8	601.1	599.3	600.4	600.8	600.7	599.8	599.5	600.0	599.5
20.5°	597.2	598.1	599.2	597.1	598.8	599.0	598.7	597.6	597.6	597.6	597.6
21°	595.0	595.5	597.2	595.3	596.6	596.4	596.4	595.8	595.3	595.6	595.2
21.5°	592.7	593.4	594.8	592.8	594.2	593.9	593.8	593.5	592.8	593.3	592.8
22°	590.7	591.2	591.5	590.8	592.0	591.3	591.7	591.7	590.8	590.8	590.4

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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°	588.5	589.2	590.0	588.6	589.7	588.9	589.6	589.1	588.4	588.4	587.9
23°	586.3	586.8	587.5	586.0	587.5	586.7	587.2	586.4	586.3	585.9	585.2
23.5°	584.2	584.6	585.2	583.8	585.0	584.5	584.8	584.0	583.3	583.4	583.3
24°	582.0	582.1	582.4	581.5	582.5	582.4	582.6	581.6	581.0	581.5	580.8
24.5°	579.2	579.6	580.1	578.9	580.1	580.0	580.4	579.4	578.4	579.4	578.5
25°	576.2	577.3	577.7	576.2	577.2	577.5	577.7	576.9	575.6	576.4	575.8
25.5°	573.7	574.8	574.9	573.6	574.9	574.8	574.8	573.9	573.6	573.6	573.6
26°	570.6	571.9	572.0	570.6	572.4	572.3	572.4	571.3	570.9	571.6	571.0
26.5°	568.4	569.2	569.6	568.1	570.0	569.4	569.7	568.2	567.9	568.4	567.9
27°	565.7	566.8	566.4	565.9	567.4	566.7	567.4	566.0	565.2	565.6	565.6
27.5°	562.9	563.8	563.8	563.1	564.4	563.8	564.7	563.2	562.8	563.1	562.4
28°	560.0	560.7	560.8	560.2	561.6	561.3	561.4	560.3	559.6	560.5	560.0
28.5°	557.0	557.8	557.8	558.0	558.8	558.3	558.5	557.8	556.4	557.8	557.0
29°	554.0	555.0	555.2	554.8	555.5	555.2	555.5	554.8	553.3	554.8	553.6
29.5°	551.1	551.9	552.1	552.0	552.5	552.3	552.8	551.6	550.7	552.2	550.4
30°	548.0	548.8	549.1	548.9	549.7	549.6	549.9	548.8	547.6	548.6	547.3
30.5°	545.0	545.8	546.3	546.3	546.5	546.6	546.6	545.8	544.5	545.5	544.4
31°	542.2	542.5	542.7	543.4	543.2	543.6	543.2	542.7	541.3	542.5	541.6
31.5°	538.9	539.6	539.8	540.2	540.0	540.3	540.2	539.3	538.0	539.1	538.4
32°	535.4	536.6	536.7	536.8	536.6	537.2	537.1	536.0	534.8	535.9	535.2
32.5°	532.3	533.5	533.7	534.0	534.0	534.0	534.3	533.2	532.2	533.2	531.9
33°	528.5	530.0	530.0	530.6	530.8	530.6	530.8	529.9	528.9	530.0	528.9
33.5°	525.5	526.8	527.2	527.3	527.4	526.9	527.7	526.5	525.6	526.8	525.5
34°	522.2	523.7	523.6	524.0	524.0	523.7	524.6	522.8	522.0	522.9	522.1
34.5°	518.9	519.8	520.2	520.6	520.8	520.5	521.5	519.3	518.9	519.5	519.1
35°	515.1	515.7	516.5	517.0	517.2	517.3	518.2	516.4	515.5	515.9	515.4
35.5°	512.0	512.4	513.0	513.2	514.0	514.1	514.6	512.7	512.2	512.3	511.9
36°	508.4	508.9	509.2	509.8	510.3	510.1	511.1	509.0	508.5	508.8	508.4
36.5°	504.5	505.9	505.7	506.3	506.8	506.2	507.5	505.4	504.7	505.0	504.3
37°	500.5	501.9	502.3	502.7	503.1	503.0	503.9	501.3	500.8	501.6	501.0
37.5°	497.0	498.5	498.9	499.1	499.2	499.2	499.9	498.1	497.2	497.9	497.5
38°	493.3	495.0	495.1	495.2	495.7	495.3	495.9	494.5	494.0	494.5	494.0
38.5°	489.6	490.9	491.2	491.3	491.7	491.3	492.3	490.8	490.3	490.5	490.5
39°	485.8	487.4	487.3	487.5	488.1	487.7	488.5	486.9	486.6	486.7	486.3
39.5°	482.0	483.3	483.4	483.3	484.2	484.5	484.4	483.2	483.0	482.8	482.5
40°	478.1	479.1	479.5	479.5	480.2	480.9	480.6	479.8	478.9	479.1	478.8
40.5°	474.4	475.6	475.7	475.3	476.2	476.9	477.1	476.0	475.0	475.3	474.8
41°	470.3	471.7	471.8	471.6	472.7	473.0	472.9	472.0	470.8	471.3	470.9
41.5°	466.7	467.6	468.0	467.3	468.7	469.4	469.3	468.1	467.3	467.4	467.3
42°	462.5	463.4	463.9	463.4	464.3	465.2	465.0	464.2	463.7	463.2	463.2
42.5°	458.1	459.3	460.1	459.3	460.5	461.1	460.8	460.1	459.5	458.9	459.1
43°	454.1	455.2	456.1	455.2	456.5	456.9	456.7	455.9	455.3	454.8	455.1
43.5°	449.8	451.3	451.7	451.1	452.5	452.5	452.7	451.8	451.3	450.6	450.8
44°	445.6	447.0	447.5	447.1	448.2	448.4	448.5	447.7	446.9	446.5	446.7
44.5°	441.5	442.6	443.3	442.6	444.1	444.4	444.4	443.6	442.9	442.4	442.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	437.0	438.5	439.2	438.5	440.1	440.3	439.9	439.3	438.9	438.4	437.9
45.5°	432.5	434.1	435.1	434.3	436.0	436.1	435.5	435.3	434.5	434.1	433.5
46°	428.4	430.3	430.5	430.2	431.5	431.5	431.4	430.8	429.9	429.5	429.4
46.5°	424.6	425.8	426.1	425.9	427.1	427.2	427.3	426.3	425.6	425.7	425.0
47°	420.3	421.4	421.6	421.5	422.6	422.8	423.0	421.8	421.4	421.0	420.6
47.5°	416.2	417.3	417.0	416.9	418.2	418.6	418.3	417.4	417.0	416.6	415.9
48°	411.4	412.6	412.4	412.6	413.8	414.3	414.0	413.1	412.2	412.3	411.4
48.5°	406.8	408.1	408.1	407.8	409.5	409.5	409.5	408.7	407.6	407.8	407.2
49°	402.2	403.6	403.4	403.4	405.2	405.0	404.9	404.1	403.4	403.4	402.7
49.5°	397.8	399.1	399.0	398.7	400.6	400.2	400.4	399.8	398.7	399.1	398.1
50°	393.4	394.4	394.4	394.1	396.1	396.1	395.8	395.0	394.0	394.3	393.8
50.5°	388.2	389.8	389.8	389.5	391.4	391.3	391.2	390.5	389.4	389.6	389.2
51°	383.7	385.0	384.9	384.7	386.5	386.5	386.7	385.6	384.8	385.0	384.8
51.5°	379.0	380.3	380.4	380.2	381.8	381.7	382.0	380.9	380.0	380.3	379.6
52°	374.3	375.8	375.5	375.4	377.0	377.2	377.3	376.1	374.9	375.5	374.9
52.5°	369.4	370.7	370.7	370.7	372.4	372.6	372.4	371.4	370.4	371.1	370.2
53°	364.6	366.0	365.8	365.6	367.4	367.7	367.4	366.5	365.9	366.2	365.6
53.5°	359.7	361.0	360.9	360.6	362.4	362.6	362.3	362.0	361.0	361.8	360.6
54°	354.7	355.8	355.9	355.7	357.5	357.7	357.5	357.1	356.0	356.6	356.0
54.5°	349.5	350.7	351.1	351.0	352.7	352.7	352.6	351.9	351.0	351.5	351.3
55°	345.0	346.1	345.7	346.2	347.7	347.8	347.8	347.1	346.3	346.6	346.5
55.5°	340.2	341.0	341.0	341.0	342.6	343.1	342.5	341.8	341.4	342.1	341.4
56°	335.1	336.2	335.8	336.2	337.7	338.2	338.2	337.2	336.6	337.0	336.5
56.5°	330.2	331.0	331.0	331.2	332.7	333.2	333.1	332.0	331.4	331.8	331.3
57°	324.8	325.7	325.9	326.3	327.7	328.3	327.9	327.1	326.1	326.8	326.3
57.5°	319.5	320.5	320.7	321.0	322.7	322.8	322.9	321.9	321.2	321.7	321.5
58°	314.7	315.4	315.5	315.6	317.3	317.9	317.3	317.1	316.0	316.3	316.6
58.5°	309.4	310.4	310.5	310.5	312.3	312.9	311.8	311.8	311.0	311.2	311.4
59°	304.0	305.4	304.8	305.0	307.3	307.3	306.9	306.6	305.9	306.3	306.1
59.5°	298.8	299.8	299.5	299.8	302.2	301.9	301.7	301.3	300.4	301.1	300.8
60°	293.9	294.5	294.2	294.4	296.8	296.7	296.5	296.4	295.3	295.8	295.5
60.5°	289.0	289.1	289.1	288.8	291.5	291.5	290.8	290.8	289.6	290.4	290.3
61°	283.2	283.6	283.8	283.5	286.0	286.5	285.6	285.9	284.7	285.1	284.8
61.5°	277.9	278.4	278.7	278.0	280.6	281.1	280.3	280.4	279.5	280.0	279.5
62°	272.6	273.1	273.4	273.1	275.4	275.8	275.5	275.2	274.3	274.7	274.6
62.5°	267.2	267.4	267.9	267.4	269.7	270.2	269.9	269.8	268.8	269.2	269.0
63°	261.6	261.9	262.5	262.2	264.3	265.1	264.5	264.4	263.5	263.8	263.4
63.5°	256.3	256.7	257.0	256.7	258.9	259.6	259.1	259.1	258.3	258.3	258.2
64°	250.7	251.2	251.5	251.3	253.6	254.1	253.7	253.4	252.8	253.0	252.6
64.5°	245.5	246.0	246.2	245.7	248.1	248.3	248.0	247.7	247.3	247.3	247.1
65°	240.0	240.5	240.4	240.3	242.7	243.2	242.8	242.3	241.9	242.1	241.9
65.5°	234.4	234.8	234.8	234.4	237.5	237.2	237.0	236.7	236.2	236.7	236.5
66°	228.8	229.2	229.2	228.8	231.8	231.6	231.0	231.0	230.5	231.2	230.9
66.5°	223.0	223.6	223.2	223.2	226.0	226.0	225.7	225.4	225.2	225.6	225.1
67°	217.2	217.6	217.7	217.6	220.3	220.6	220.2	220.0	219.6	219.9	219.8



TEST NUMBER: P869688  
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	211.7	212.2	212.1	212.0	214.6	214.9	214.4	214.3	214.0	214.4	214.0
68°	206.0	206.5	206.4	206.5	209.1	209.5	208.9	208.7	208.8	208.8	208.4
68.5°	200.4	200.8	200.8	200.7	203.6	203.9	203.3	203.1	203.3	203.2	202.7
69°	194.8	195.2	195.1	194.8	198.0	198.2	197.6	197.4	197.4	197.3	196.7
69.5°	188.8	189.2	189.4	189.2	192.1	192.4	192.0	191.6	191.6	191.6	191.2
70°	183.0	183.6	183.5	183.3	186.4	186.7	186.0	185.7	185.9	186.0	185.4
70.5°	177.3	177.9	177.4	177.7	180.8	181.1	180.4	180.3	180.4	180.2	179.9
71°	171.6	172.0	171.7	171.8	175.0	175.3	174.4	174.7	174.5	174.5	174.2
71.5°	166.1	166.4	166.0	165.9	169.2	169.3	168.9	168.8	169.0	168.6	168.4
72°	160.4	160.5	160.3	160.1	163.3	163.6	163.2	163.2	163.3	162.9	162.7
72.5°	154.4	155.0	154.8	154.2	157.7	157.9	157.6	157.3	157.6	157.2	156.9
73°	148.8	149.2	148.9	148.8	152.0	152.2	151.9	151.7	151.7	151.6	151.2
73.5°	143.1	143.5	143.1	143.1	146.4	146.7	146.5	146.2	146.1	146.0	145.8
74°	137.3	137.6	137.5	137.4	140.6	141.0	140.9	140.4	140.5	140.1	140.0
74.5°	131.6	132.1	131.7	131.7	134.9	135.3	134.8	134.7	134.6	134.6	134.4
75°	125.8	126.2	126.1	125.8	128.8	129.3	129.2	128.9	128.9	128.9	128.8
75.5°	120.2	120.3	120.2	120.1	123.1	123.6	123.3	123.3	123.2	123.2	123.1
76°	114.5	114.7	114.5	114.6	117.4	117.9	117.4	117.5	117.5	117.4	117.3
76.5°	108.8	109.0	109.1	108.8	111.9	112.1	111.8	112.0	111.9	111.8	111.9
77°	103.2	103.3	103.1	103.2	106.1	106.6	106.4	106.2	106.1	106.3	106.3
77.5°	97.6	98.0	97.7	97.7	100.5	100.9	100.6	100.7	100.6	100.8	100.8
78°	92.1	92.4	92.1	92.2	95.0	95.3	95.1	94.9	94.7	95.2	95.1
78.5°	86.7	86.9	86.6	86.8	89.7	89.7	89.7	89.4	89.2	89.6	89.7
79°	81.3	81.4	81.2	81.6	84.5	84.5	84.3	84.2	83.9	84.3	84.1
79.5°	75.9	76.1	76.0	76.1	79.1	79.0	78.8	78.8	78.5	78.9	78.9
80°	70.7	70.8	70.7	70.6	73.5	73.7	73.3	73.3	73.2	73.6	73.5
80.5°	65.4	65.5	65.4	65.3	68.1	68.5	68.2	68.1	68.0	68.3	68.4
81°	60.4	60.5	60.3	59.9	62.9	63.3	63.1	62.9	62.9	63.2	63.3
81.5°	55.3	55.4	55.3	55.0	57.8	58.1	57.8	57.7	57.7	58.1	58.1
82°	50.5	50.5	50.5	50.1	52.9	53.0	52.9	52.6	52.6	52.9	53.2
82.5°	45.8	45.8	45.6	45.4	48.1	48.3	48.1	48.0	47.9	48.2	48.5
83°	41.0	41.1	40.9	40.5	43.4	43.4	43.4	43.2	43.2	43.5	43.8
83.5°	36.4	36.6	36.3	36.2	38.5	38.8	38.6	38.6	38.6	38.8	39.1
84°	32.2	32.3	32.1	31.7	34.1	34.2	34.2	34.0	33.9	34.2	34.6
84.5°	28.2	28.2	28.1	27.8	29.8	30.2	29.8	29.8	29.7	29.9	30.2
85°	24.2	24.2	24.2	23.8	25.7	25.8	25.8	25.6	25.5	25.8	26.0
85.5°	20.6	20.6	20.6	20.3	21.8	21.8	21.8	21.8	21.7	21.8	22.2
86°	17.2	17.2	17.1	16.8	18.6	18.6	18.6	18.5	18.5	18.7	18.9
86.5°	13.9	14.0	13.9	13.7	15.4	15.4	15.5	15.3	15.4	15.6	15.7
87°	10.8	10.8	10.9	10.6	12.3	12.4	12.5	12.2	12.2	12.4	12.6
87.5°	7.9	7.8	7.8	7.6	9.4	9.4	9.4	9.4	9.3	9.5	9.7
88°	5.5	5.6	5.5	5.4	6.9	6.9	6.9	6.8	6.8	7.0	7.1
88.5°	3.7	3.8	3.7	3.5	4.6	4.9	4.6	4.6	4.5	4.7	4.8
89°	2.2	2.3	2.3	2.2	2.7	2.9	2.7	2.7	2.6	2.8	2.9
89.5°	1.3	1.3	1.3	1.2	1.4	1.4	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: P869688  
CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P869688  
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	641.8	641.8	641.8	641.8	641.8	641.8
0.5°	641.2	642.7	642.1	641.8	641.6	641.5
1°	641.1	642.4	642.7	641.5	641.2	641.5
1.5°	641.3	642.7	642.2	641.9	640.8	641.1
2°	640.8	642.0	641.7	641.5	641.0	641.1
2.5°	641.0	641.7	641.3	640.9	641.3	640.8
3°	640.7	640.9	640.7	640.7	641.0	639.9
3.5°	640.0	640.3	640.7	640.1	640.8	639.6
4°	639.9	640.0	640.7	639.5	640.1	639.5
4.5°	639.4	639.5	639.8	639.2	639.8	639.1
5°	638.3	639.1	638.9	639.0	638.9	638.7
5.5°	637.7	638.5	638.5	639.1	638.4	638.3
6°	636.7	637.8	637.5	638.2	637.9	637.9
6.5°	636.4	636.9	636.8	637.7	636.8	637.5
7°	635.7	636.3	636.0	636.6	636.0	636.7
7.5°	635.6	635.8	635.5	635.6	635.8	636.0
8°	634.3	635.2	634.3	634.9	634.7	634.9
8.5°	633.4	634.3	633.9	634.2	633.5	634.3
9°	632.3	633.1	633.1	633.0	632.7	633.6
9.5°	631.1	632.5	631.8	632.0	631.8	632.7
10°	630.5	631.3	630.5	631.0	631.1	631.9
10.5°	629.2	630.1	629.7	629.9	630.4	631.1
11°	628.1	628.5	628.9	628.7	629.1	630.1
11.5°	626.9	627.1	628.0	627.0	628.1	629.0
12°	625.6	626.1	626.8	626.0	626.9	627.6
12.5°	624.5	624.8	625.5	625.4	626.4	626.3
13°	623.5	623.5	624.2	623.9	624.8	625.1
13.5°	622.0	621.9	622.4	622.8	623.3	623.7
14°	620.7	620.1	620.7	621.9	621.9	622.0
14.5°	618.8	618.5	618.7	620.2	620.1	620.1
15°	617.5	617.1	617.0	618.9	618.3	618.3
15.5°	615.7	615.5	615.5	617.6	616.7	616.3
16°	614.2	613.9	613.6	616.2	614.3	614.6
16.5°	612.4	612.2	612.2	614.4	612.8	612.8
17°	610.6	610.4	610.4	612.3	611.0	611.1
17.5°	608.8	608.8	608.4	610.4	608.8	609.1
18°	606.9	607.0	606.8	608.6	607.2	607.3
18.5°	605.2	605.2	604.9	606.3	604.9	605.3
19°	603.4	603.4	603.1	604.3	602.7	603.2
19.5°	601.1	601.3	601.5	602.1	600.8	601.2
20°	599.2	599.2	599.9	599.9	598.9	599.0
20.5°	596.8	597.0	597.9	597.9	597.2	597.2
21°	594.8	594.7	595.6	595.9	595.1	595.0
21.5°	592.5	592.4	593.8	593.6	593.3	592.7
22°	590.5	590.5	591.9	591.2	590.9	590.7

TEST NUMBER: P869688  
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	587.8	588.0	589.3	588.8	588.6	588.5
23°	585.7	585.7	586.6	586.1	586.2	586.3
23.5°	583.6	583.2	584.8	583.9	584.0	584.2
24°	581.2	580.7	582.4	581.0	581.1	582.0
24.5°	578.6	578.2	579.1	578.9	578.6	579.2
25°	575.7	575.7	576.6	575.9	575.7	576.2
25.5°	573.2	573.2	573.9	573.4	573.2	573.7
26°	570.1	570.5	570.8	570.4	570.4	570.6
26.5°	567.5	567.6	568.1	567.5	567.5	568.4
27°	564.8	564.8	565.6	564.8	564.8	565.7
27.5°	562.5	562.0	562.9	562.0	562.0	562.9
28°	559.5	558.9	560.1	559.2	559.0	560.0
28.5°	556.7	555.9	557.3	556.8	556.5	557.0
29°	553.6	553.2	554.5	553.6	553.3	554.0
29.5°	550.5	549.9	551.8	550.7	550.4	551.1
30°	547.5	547.0	548.8	547.6	547.0	548.0
30.5°	544.3	544.4	545.6	544.0	543.9	545.0
31°	541.0	541.0	541.9	541.2	540.8	542.2
31.5°	538.0	537.9	538.4	538.1	537.7	538.9
32°	534.9	535.0	535.0	534.8	534.3	535.4
32.5°	532.0	531.5	532.0	532.0	531.3	532.3
33°	528.7	528.7	528.6	528.6	528.0	528.5
33.5°	525.4	525.2	525.6	525.2	524.8	525.5
34°	521.8	521.7	521.8	522.1	521.2	522.2
34.5°	518.7	518.1	518.5	518.9	517.8	518.9
35°	515.5	514.4	514.8	515.4	514.5	515.1
35.5°	512.0	510.7	511.3	511.9	511.1	512.0
36°	508.2	507.4	507.7	508.1	507.4	508.4
36.5°	504.7	503.8	504.1	504.4	504.1	504.5
37°	501.0	500.3	500.5	500.7	500.5	500.5
37.5°	497.5	496.3	496.7	497.3	496.9	497.0
38°	494.0	492.4	493.0	493.5	493.6	493.3
38.5°	490.5	488.5	489.6	489.3	489.6	489.6
39°	486.7	485.1	485.8	485.7	485.7	485.8
39.5°	482.9	481.3	482.1	481.9	481.9	482.0
40°	478.9	477.7	478.3	478.1	477.8	478.1
40.5°	474.7	474.0	474.2	474.1	474.2	474.4
41°	470.9	470.6	470.5	470.5	470.3	470.3
41.5°	466.8	466.4	466.7	466.7	466.9	466.7
42°	462.8	462.3	462.5	462.7	463.2	462.5
42.5°	458.8	458.0	458.7	458.5	458.4	458.1
43°	454.7	453.9	454.2	454.4	454.1	454.1
43.5°	450.9	449.7	450.5	450.1	450.0	449.8
44°	446.6	445.3	446.5	445.7	445.7	445.6
44.5°	442.6	441.4	442.0	441.6	442.1	441.5

TEST NUMBER: P869688  
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	438.3	437.0	437.7	437.4	437.6	437.0
45.5°	434.2	432.7	433.4	433.1	432.8	432.5
46°	429.7	428.5	429.0	428.9	428.4	428.4
46.5°	425.3	423.9	425.0	424.5	424.0	424.6
47°	420.9	419.3	420.9	420.2	419.9	420.3
47.5°	416.4	414.8	416.4	415.7	415.9	416.2
48°	411.9	410.5	411.8	411.1	411.7	411.4
48.5°	407.8	406.2	407.2	406.6	407.1	406.8
49°	402.8	401.8	402.6	402.0	401.8	402.2
49.5°	398.4	397.3	398.2	397.4	397.2	397.8
50°	394.0	392.7	393.4	392.9	393.1	393.4
50.5°	389.4	388.1	388.7	388.2	388.2	388.2
51°	385.0	383.4	384.1	383.6	383.3	383.7
51.5°	380.1	378.4	379.1	378.9	378.3	379.0
52°	375.4	373.8	374.6	374.2	373.6	374.3
52.5°	370.4	368.7	369.8	369.7	369.0	369.4
53°	365.8	364.2	364.6	364.7	364.2	364.6
53.5°	361.1	359.5	360.0	359.8	359.4	359.7
54°	356.3	354.6	354.6	354.8	354.8	354.7
54.5°	351.4	349.7	350.1	349.4	349.4	349.5
55°	346.4	345.1	345.1	344.4	344.6	345.0
55.5°	341.5	340.2	340.3	339.4	339.8	340.2
56°	337.0	335.0	335.3	334.3	334.8	335.1
56.5°	331.8	330.0	330.2	329.6	329.9	330.2
57°	326.7	324.7	325.1	324.4	324.7	324.8
57.5°	321.5	319.8	320.1	319.5	319.5	319.5
58°	316.6	314.6	314.7	314.9	314.3	314.7
58.5°	311.4	309.5	309.5	309.7	309.5	309.4
59°	306.3	304.2	304.2	304.5	304.4	304.0
59.5°	300.7	299.0	298.8	299.0	299.2	298.8
60°	295.3	293.9	293.7	293.7	293.7	293.9
60.5°	290.3	288.6	288.4	288.3	288.1	289.0
61°	285.3	283.1	283.4	282.7	282.8	283.2
61.5°	279.9	277.7	278.3	277.3	277.8	277.9
62°	274.5	272.7	272.8	271.9	272.1	272.6
62.5°	269.1	267.1	267.4	266.7	266.6	267.2
63°	263.7	261.5	261.8	261.5	261.1	261.6
63.5°	258.1	256.1	256.5	255.8	255.6	256.3
64°	253.1	250.5	250.9	250.3	250.3	250.7
64.5°	247.1	245.1	245.5	245.1	244.9	245.5
65°	242.0	239.5	239.9	239.5	239.3	240.0
65.5°	236.3	234.0	234.2	233.8	234.0	234.4
66°	230.6	228.3	228.4	228.4	228.4	228.8
66.5°	225.0	222.7	222.8	222.8	223.2	223.0
67°	219.8	216.8	217.3	216.9	217.8	217.2

TEST NUMBER: P869688  
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	214.0	211.3	212.1	211.5	212.1	211.7
68°	208.4	205.7	206.3	205.7	205.9	206.0
68.5°	202.7	200.5	200.6	200.2	200.3	200.4
69°	196.9	194.8	195.1	194.8	194.8	194.8
69.5°	191.2	189.0	189.4	189.0	189.1	188.8
70°	185.6	183.2	183.5	183.2	183.3	183.0
70.5°	180.3	177.6	177.8	177.7	177.8	177.3
71°	174.7	171.4	171.8	171.9	171.9	171.6
71.5°	168.8	166.0	166.3	166.0	166.0	166.1
72°	163.0	160.3	160.3	160.2	160.0	160.4
72.5°	157.3	154.6	154.7	154.6	154.0	154.4
73°	151.9	148.8	149.3	148.9	148.5	148.8
73.5°	146.2	143.1	143.6	143.2	143.0	143.1
74°	140.7	137.4	137.7	137.2	137.3	137.3
74.5°	134.9	131.7	132.0	131.6	131.3	131.6
75°	129.2	126.0	126.1	125.8	125.5	125.8
75.5°	123.3	120.4	120.5	120.0	119.8	120.2
76°	117.7	114.6	114.7	114.4	114.3	114.5
76.5°	112.2	108.8	109.0	108.9	108.7	108.8
77°	106.5	103.3	103.3	103.0	103.0	103.2
77.5°	100.9	98.1	97.7	97.7	97.7	97.6
78°	95.3	92.5	92.1	92.1	92.1	92.1
78.5°	89.7	87.1	86.7	86.7	86.8	86.7
79°	84.4	81.7	81.3	81.3	81.7	81.3
79.5°	79.0	76.1	76.1	76.0	76.3	75.9
80°	73.7	70.8	70.8	70.6	70.9	70.7
80.5°	68.5	65.7	65.7	65.7	65.5	65.4
81°	63.3	60.5	60.5	60.5	60.4	60.4
81.5°	58.1	55.4	55.7	55.7	55.3	55.3
82°	53.2	50.6	50.7	50.8	50.4	50.5
82.5°	48.5	45.8	46.1	45.8	45.6	45.8
83°	43.8	41.3	41.4	41.3	40.9	41.0
83.5°	39.1	36.8	36.8	36.7	36.3	36.4
84°	34.6	32.5	32.5	32.4	32.2	32.2
84.5°	30.2	28.2	28.3	28.2	28.2	28.2
85°	26.2	24.3	24.5	24.2	24.2	24.2
85.5°	22.2	20.8	20.9	20.8	20.8	20.6
86°	19.0	17.3	17.4	17.4	17.3	17.2
86.5°	15.8	14.0	14.2	14.1	14.0	13.9
87°	12.7	11.0	11.1	11.0	11.0	10.8
87.5°	9.8	7.9	8.1	8.1	8.0	7.9
88°	7.2	5.6	5.8	5.7	5.7	5.5
88.5°	4.9	3.7	3.8	3.8	3.8	3.7
89°	3.0	2.2	2.3	2.3	2.3	2.2
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



TEST NUMBER: P869688  
CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)