

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: P869673

Luminaire Tested: **SMX14SLSFS010-1600LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869673
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14SLSFS010-1600LM-3500K
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

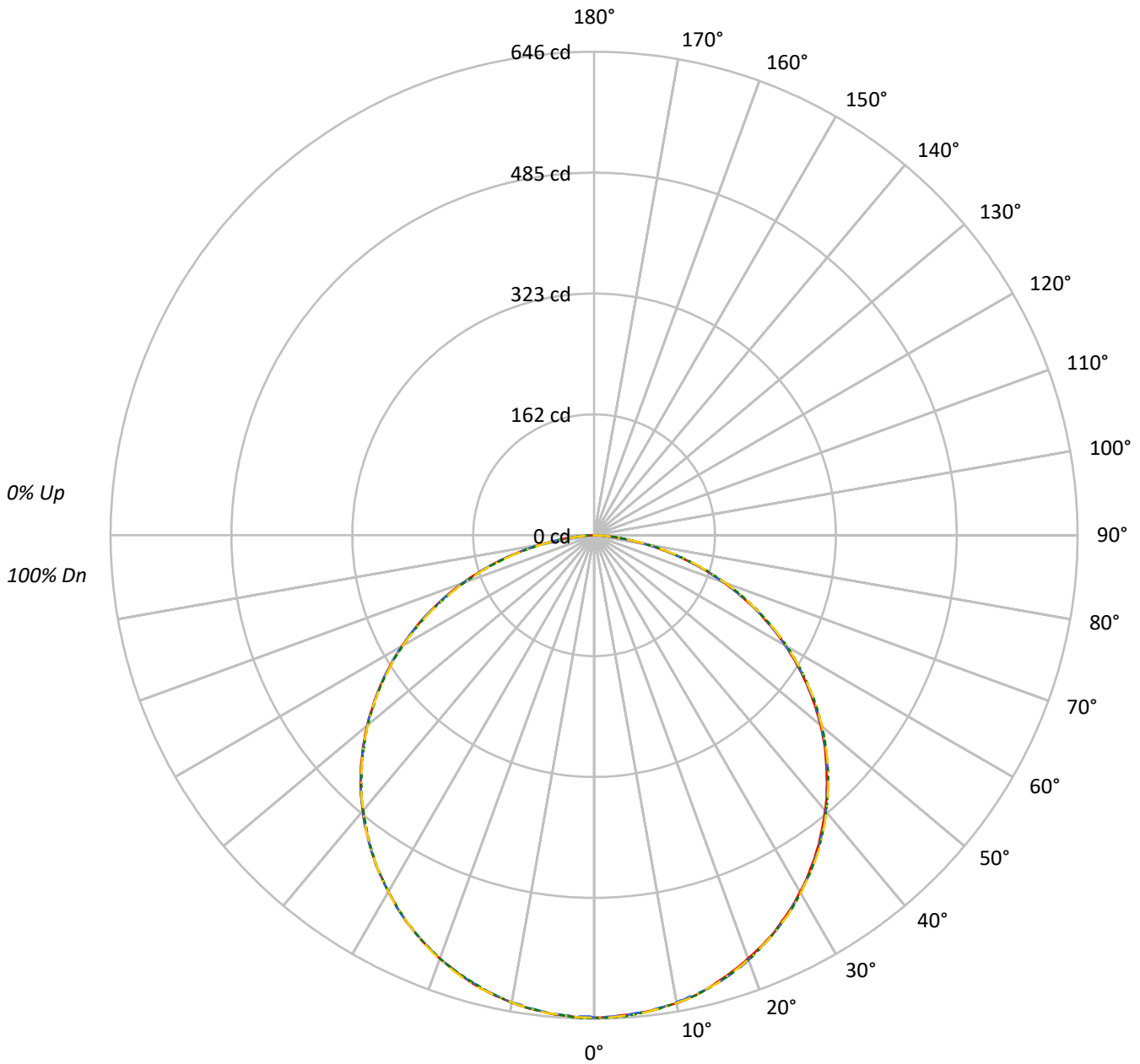
Lumens per Lamp: N/A
 Luminaire Lumens: 1883.4 lumens
 Efficiency: N/A
 Efficacy: 91.9 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 20.5
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - · 135°-315°

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69	69	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50	50	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5095	5095	5095	5095
5°	5090	5097	5094	5093
10°	5094	5093	5090	5089
15°	5081	5087	5082	5071
20°	5060	5073	5064	5062
25°	5047	5055	5042	5042
30°	5023	5039	5020	5014
35°	4991	5011	4995	4984
40°	4953	4976	4963	4949
45°	4906	4940	4927	4906
50°	4858	4891	4865	4850
55°	4775	4812	4793	4776
60°	4666	4712	4688	4665
65°	4509	4559	4543	4498
70°	4247	4326	4314	4252
75°	3860	3948	3952	3863
80°	3232	3359	3345	3236
85°	2204	2340	2322	2213

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	3.2
10°-20°	175.3	9.3
20°-30°	266.9	14.2
30°-40°	324.1	17.2
40°-50°	339.6	18.0
50°-60°	310.6	16.5
60°-70°	239.2	12.7
70°-80°	135.3	7.2
80°-90°	31.4	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°	503.2	26.7
0°-40°	827.3	43.9
0°-60°	1477.5	78.4
0°-90°	1883.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	645	645	645	645	645	
5°	642	642	642	642	642	61
15°	621	622	621	620	621	175
25°	579	580	578	578	579	267
35°	517	519	518	517	517	324
45°	439	442	441	439	439	339
55°	346	349	348	347	346	309
65°	241	244	243	240	241	238
75°	126	129	129	126	126	134
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°	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6	644.6
0.5°	644.3	645.4	643.7	644.4	645.1	644.7	644.7	644.7	644.3	645.1	643.0
1°	644.3	645.6	644.0	644.1	645.1	644.5	644.4	644.3	644.5	644.5	643.1
1.5°	643.9	644.9	643.7	643.8	645.0	644.3	644.8	643.9	644.2	644.6	643.2
2°	643.9	644.7	643.5	643.9	644.7	643.9	644.6	643.7	644.3	644.7	643.1
2.5°	643.6	644.7	643.4	643.3	644.8	644.2	644.3	643.6	643.7	644.6	643.0
3°	642.7	644.4	642.7	643.1	644.2	643.8	643.9	643.5	643.5	643.9	642.8
3.5°	642.4	643.8	642.8	642.8	643.9	643.2	643.5	643.2	643.1	643.9	642.6
4°	642.3	643.2	642.1	642.1	643.9	643.1	643.1	643.1	642.8	643.3	642.4
4.5°	641.9	643.0	641.7	641.9	643.0	642.7	642.7	642.4	642.7	643.6	641.5
5°	641.5	642.6	640.9	641.7	642.4	642.3	642.6	641.9	642.1	642.7	641.4
5.5°	641.1	641.9	640.7	641.1	641.9	641.8	642.3	641.0	641.5	642.0	640.9
6°	640.7	641.2	640.2	640.6	641.4	640.7	641.4	640.6	640.7	641.1	640.3
6.5°	640.2	641.1	639.4	639.8	640.7	639.7	640.7	640.1	639.8	640.5	639.4
7°	639.5	640.2	638.8	639.3	639.8	639.4	639.4	639.1	639.5	639.6	638.6
7.5°	638.8	639.3	637.7	638.2	639.0	638.5	638.8	638.3	638.6	639.1	637.8
8°	637.7	638.4	637.0	637.5	638.2	637.6	638.2	637.6	637.9	638.3	636.9
8.5°	637.0	637.7	636.8	636.5	637.3	637.0	637.4	636.2	637.0	637.0	635.8
9°	636.4	637.0	635.7	635.8	636.4	635.9	636.8	635.3	636.1	636.4	634.9
9.5°	635.5	635.8	634.6	634.9	635.5	634.7	635.5	634.5	634.9	635.8	634.2
10°	634.7	634.3	633.6	634.0	634.6	634.3	634.7	633.7	634.2	634.6	633.7
10.5°	633.9	633.6	632.3	632.9	634.3	633.1	633.5	632.5	632.9	633.4	632.4
11°	632.9	632.1	631.6	632.0	633.0	632.1	632.9	631.3	631.8	632.7	631.0
11.5°	631.7	631.3	630.0	630.5	631.8	631.3	632.1	630.1	630.4	631.0	630.0
12°	630.4	630.4	629.0	629.8	630.5	630.0	630.2	628.7	629.5	629.5	628.8
12.5°	629.1	629.4	628.2	628.4	629.6	629.2	628.9	627.6	628.2	628.2	627.3
13°	627.9	628.2	626.9	627.2	628.0	627.6	627.6	626.4	626.7	627.0	625.9
13.5°	626.4	627.0	625.9	625.3	626.8	625.8	625.5	624.8	625.6	625.9	624.6
14°	624.7	625.4	624.4	623.9	625.1	624.6	624.3	623.1	624.3	624.3	622.8
14.5°	622.8	623.7	623.1	622.3	623.3	623.1	623.2	621.6	622.3	623.1	621.0
15°	621.0	622.4	621.9	621.2	621.7	621.9	622.0	619.5	621.1	621.6	619.9
15.5°	619.0	620.8	620.6	619.0	620.2	620.2	620.2	618.1	619.1	620.0	618.2
16°	617.3	618.6	618.9	617.4	618.2	618.2	618.1	617.0	617.3	618.0	616.9
16.5°	615.4	616.5	617.1	615.9	616.8	616.5	616.2	615.4	615.6	616.1	615.3
17°	613.7	614.6	615.6	613.8	614.8	614.5	614.6	613.8	613.8	614.1	613.7
17.5°	611.7	612.6	613.8	611.6	612.8	612.6	613.0	611.8	611.6	612.5	611.8
18°	610.0	610.4	612.1	610.0	610.9	610.9	611.2	609.8	609.6	610.2	609.7
18.5°	608.0	608.6	610.4	608.3	609.3	608.8	609.2	608.4	607.6	608.6	607.7
19°	605.9	606.3	608.1	606.2	607.0	607.2	607.3	606.5	605.9	606.6	606.0
19.5°	603.9	604.3	606.1	603.8	605.0	605.4	605.2	604.3	604.3	604.7	604.3
20°	601.6	602.4	603.7	601.9	603.1	603.4	603.3	602.4	602.1	602.6	602.1
20.5°	599.8	600.7	601.8	599.7	601.4	601.6	601.3	600.2	600.2	600.2	600.2
21°	597.6	598.1	599.8	597.9	599.2	599.0	599.0	598.4	597.9	598.2	597.8
21.5°	595.3	596.0	597.4	595.3	596.8	596.5	596.4	596.1	595.4	595.9	595.3
22°	593.3	593.7	594.1	593.3	594.5	593.9	594.3	594.3	593.4	593.4	593.0

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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°	591.1	591.7	592.5	591.2	592.3	591.5	592.1	591.6	590.9	590.9	590.4
23°	588.8	589.4	590.0	588.6	590.0	589.2	589.8	589.0	588.8	588.4	587.7
23.5°	586.7	587.1	587.7	586.3	587.6	587.1	587.4	586.5	585.9	585.9	585.9
24°	584.5	584.7	584.9	584.0	585.1	584.9	585.1	584.2	583.5	584.0	583.3
24.5°	581.8	582.1	582.7	581.4	582.7	582.6	583.0	581.9	581.0	581.9	581.0
25°	578.7	579.8	580.2	578.7	579.7	580.0	580.2	579.4	578.2	578.9	578.3
25.5°	576.2	577.3	577.4	576.1	577.4	577.3	577.3	576.4	576.1	576.1	576.1
26°	573.1	574.4	574.5	573.1	574.9	574.8	574.9	573.8	573.4	574.1	573.5
26.5°	570.8	571.7	572.1	570.6	572.4	571.9	572.2	570.7	570.4	570.9	570.4
27°	568.2	569.2	568.9	568.4	569.9	569.2	569.9	568.4	567.6	568.1	568.0
27.5°	565.4	566.3	566.3	565.5	566.8	566.3	567.1	565.7	565.2	565.5	564.9
28°	562.4	563.1	563.3	562.6	564.1	563.8	563.9	562.7	562.1	563.0	562.4
28.5°	559.4	560.2	560.2	560.4	561.3	560.7	561.0	560.2	558.9	560.2	559.4
29°	556.4	557.4	557.7	557.2	557.9	557.6	557.9	557.2	555.7	557.3	556.0
29.5°	553.5	554.3	554.5	554.5	554.9	554.7	555.3	554.0	553.1	554.6	552.8
30°	550.4	551.2	551.5	551.3	552.1	552.0	552.3	551.2	550.0	551.0	549.7
30.5°	547.4	548.2	548.7	548.7	548.9	549.0	549.0	548.2	546.9	547.9	546.8
31°	544.6	544.9	545.1	545.8	545.6	545.9	545.5	545.1	543.7	544.9	543.9
31.5°	541.3	542.0	542.2	542.6	542.3	542.6	542.6	541.7	540.4	541.4	540.7
32°	537.7	538.9	539.0	539.1	538.9	539.5	539.4	538.4	537.2	538.2	537.6
32.5°	534.6	535.8	536.1	536.3	536.3	536.4	536.6	535.6	534.5	535.5	534.2
33°	530.8	532.4	532.4	532.9	533.1	532.9	533.2	532.2	531.2	532.3	531.2
33.5°	527.8	529.1	529.5	529.6	529.7	529.2	530.0	528.8	527.9	529.1	527.8
34°	524.5	526.0	525.9	526.3	526.3	526.0	526.9	525.1	524.3	525.2	524.4
34.5°	521.1	522.1	522.5	522.9	523.0	522.8	523.8	521.5	521.1	521.8	521.4
35°	517.3	517.9	518.8	519.3	519.4	519.5	520.5	518.6	517.7	518.1	517.7
35.5°	514.2	514.6	515.3	515.4	516.2	516.3	516.9	514.9	514.4	514.5	514.1
36°	510.6	511.2	511.4	512.0	512.5	512.3	513.3	511.2	510.7	511.0	510.6
36.5°	506.7	508.1	507.9	508.5	509.0	508.4	509.7	507.6	506.9	507.2	506.5
37°	502.7	504.1	504.5	504.9	505.3	505.2	506.1	503.5	503.0	503.8	503.2
37.5°	499.2	500.7	501.1	501.3	501.4	501.4	502.1	500.3	499.3	500.1	499.7
38°	495.5	497.2	497.3	497.3	497.8	497.4	498.1	496.7	496.1	496.6	496.1
38.5°	491.7	493.1	493.3	493.4	493.9	493.5	494.4	492.9	492.4	492.7	492.6
39°	487.9	489.5	489.4	489.6	490.2	489.8	490.7	489.0	488.7	488.8	488.4
39.5°	484.1	485.4	485.5	485.4	486.3	486.7	486.5	485.3	485.1	484.9	484.6
40°	480.1	481.2	481.6	481.6	482.3	483.0	482.7	481.9	481.0	481.2	480.9
40.5°	476.5	477.7	477.8	477.4	478.3	479.0	479.2	478.1	477.1	477.3	476.9
41°	472.4	473.7	473.9	473.6	474.8	475.1	475.0	474.0	472.8	473.4	473.0
41.5°	468.7	469.6	470.0	469.4	470.7	471.5	471.4	470.1	469.4	469.5	469.3
42°	464.5	465.4	465.9	465.4	466.3	467.2	467.1	466.2	465.8	465.2	465.2
42.5°	460.1	461.3	462.1	461.3	462.5	463.1	462.8	462.2	461.5	460.9	461.1
43°	456.0	457.2	458.1	457.2	458.5	458.9	458.7	457.9	457.3	456.8	457.1
43.5°	451.8	453.2	453.6	453.1	454.4	454.4	454.7	453.8	453.2	452.6	452.8
44°	447.5	449.0	449.5	449.1	450.2	450.3	450.5	449.7	448.9	448.4	448.7
44.5°	443.4	444.6	445.2	444.6	446.1	446.3	446.3	445.5	444.8	444.3	444.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	438.9	440.5	441.1	440.5	442.0	442.2	441.8	441.3	440.8	440.3	439.8
45.5°	434.4	436.0	437.0	436.2	437.9	438.0	437.4	437.2	436.4	436.0	435.4
46°	430.3	432.2	432.4	432.1	433.4	433.4	433.3	432.7	431.8	431.4	431.3
46.5°	426.4	427.7	427.9	427.8	429.0	429.1	429.2	428.2	427.4	427.5	426.8
47°	422.1	423.2	423.4	423.4	424.5	424.6	424.8	423.6	423.2	422.9	422.4
47.5°	418.0	419.1	418.9	418.7	420.1	420.5	420.1	419.2	418.8	418.4	417.7
48°	413.2	414.4	414.2	414.4	415.6	416.1	415.8	414.9	414.0	414.1	413.2
48.5°	408.6	409.9	409.9	409.6	411.3	411.3	411.3	410.5	409.4	409.5	409.0
49°	404.0	405.4	405.2	405.2	407.0	406.8	406.6	405.8	405.2	405.1	404.5
49.5°	399.5	400.9	400.7	400.5	402.4	402.0	402.1	401.6	400.5	400.9	399.8
50°	395.1	396.1	396.1	395.8	397.8	397.8	397.6	396.7	395.7	396.0	395.5
50.5°	389.9	391.5	391.5	391.2	393.1	393.0	392.9	392.2	391.1	391.3	390.9
51°	385.4	386.6	386.6	386.4	388.2	388.2	388.4	387.3	386.5	386.7	386.5
51.5°	380.6	382.0	382.1	381.8	383.5	383.3	383.7	382.5	381.7	382.0	381.3
52°	376.0	377.4	377.2	377.1	378.6	378.8	378.9	377.7	376.5	377.2	376.5
52.5°	371.1	372.3	372.3	372.3	374.0	374.3	374.0	373.0	372.0	372.7	371.8
53°	366.2	367.6	367.4	367.2	369.0	369.3	369.0	368.1	367.5	367.8	367.2
53.5°	361.3	362.6	362.5	362.2	364.0	364.1	363.9	363.6	362.6	363.3	362.2
54°	356.3	357.3	357.5	357.2	359.1	359.2	359.1	358.7	357.6	358.1	357.6
54.5°	351.1	352.3	352.7	352.5	354.3	354.3	354.1	353.5	352.6	353.1	352.8
55°	346.5	347.6	347.2	347.8	349.2	349.4	349.4	348.6	347.8	348.2	348.0
55.5°	341.7	342.5	342.5	342.5	344.1	344.6	344.0	343.3	342.9	343.6	342.9
56°	336.6	337.6	337.3	337.7	339.2	339.7	339.6	338.7	338.0	338.4	338.0
56.5°	331.6	332.5	332.4	332.7	334.2	334.7	334.6	333.5	332.8	333.3	332.7
57°	326.2	327.1	327.3	327.7	329.1	329.7	329.4	328.6	327.5	328.2	327.8
57.5°	320.8	321.9	322.1	322.4	324.1	324.2	324.3	323.3	322.6	323.1	322.9
58°	316.0	316.8	316.9	317.0	318.7	319.2	318.7	318.4	317.4	317.7	318.0
58.5°	310.7	311.8	311.9	311.9	313.6	314.3	313.1	313.1	312.3	312.6	312.7
59°	305.3	306.7	306.1	306.3	308.6	308.6	308.2	307.9	307.3	307.7	307.4
59.5°	300.1	301.1	300.8	301.1	303.5	303.3	303.0	302.6	301.7	302.5	302.1
60°	295.2	295.8	295.5	295.7	298.1	298.0	297.8	297.7	296.6	297.1	296.8
60.5°	290.2	290.4	290.3	290.1	292.7	292.7	292.1	292.1	290.9	291.7	291.5
61°	284.5	284.9	285.0	284.7	287.3	287.8	286.9	287.2	286.0	286.3	286.1
61.5°	279.2	279.6	279.9	279.2	281.8	282.4	281.5	281.6	280.8	281.2	280.7
62°	273.8	274.3	274.6	274.3	276.6	277.0	276.7	276.4	275.5	275.9	275.8
62.5°	268.4	268.6	269.1	268.6	270.9	271.4	271.0	271.0	270.0	270.4	270.2
63°	262.8	263.0	263.7	263.3	265.4	266.2	265.7	265.6	264.6	264.9	264.5
63.5°	257.4	257.9	258.1	257.9	260.0	260.8	260.3	260.3	259.4	259.5	259.3
64°	251.8	252.3	252.6	252.4	254.7	255.2	254.8	254.5	253.9	254.1	253.7
64.5°	246.5	247.1	247.3	246.8	249.2	249.4	249.1	248.8	248.4	248.4	248.2
65°	241.1	241.6	241.5	241.4	243.8	244.3	243.9	243.4	242.9	243.2	242.9
65.5°	235.5	235.8	235.9	235.5	238.6	238.3	238.0	237.7	237.2	237.7	237.5
66°	229.8	230.2	230.2	229.8	232.8	232.6	232.0	232.0	231.5	232.2	231.9
66.5°	224.0	224.5	224.2	224.2	227.0	226.9	226.7	226.4	226.1	226.6	226.1
67°	218.1	218.6	218.7	218.6	221.2	221.6	221.2	221.0	220.5	220.8	220.8

TEST NUMBER: P869673
 CATALOG NUMBER: SMX14SLSFS010-1600LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	212.6	213.1	213.0	213.0	215.5	215.9	215.4	215.2	215.0	215.3	215.0
68°	206.9	207.4	207.3	207.4	210.0	210.4	209.8	209.6	209.7	209.7	209.3
68.5°	201.2	201.6	201.6	201.6	204.4	204.8	204.2	204.0	204.2	204.1	203.6
69°	195.6	196.0	195.9	195.7	198.9	199.1	198.5	198.3	198.3	198.2	197.5
69.5°	189.6	190.1	190.2	190.0	193.0	193.3	192.8	192.4	192.5	192.5	192.1
70°	183.8	184.4	184.3	184.1	187.2	187.5	186.9	186.5	186.7	186.9	186.2
70.5°	178.1	178.7	178.2	178.5	181.6	181.9	181.2	181.1	181.2	181.0	180.7
71°	172.4	172.7	172.5	172.6	175.8	176.1	175.2	175.4	175.3	175.3	175.0
71.5°	166.9	167.1	166.8	166.6	169.9	170.1	169.7	169.5	169.7	169.3	169.1
72°	161.1	161.2	161.0	160.8	164.0	164.4	163.9	163.9	164.0	163.6	163.4
72.5°	155.0	155.7	155.4	154.9	158.4	158.6	158.3	158.0	158.3	157.9	157.6
73°	149.4	149.8	149.6	149.4	152.6	152.9	152.6	152.4	152.4	152.2	151.9
73.5°	143.7	144.1	143.7	143.7	147.0	147.3	147.2	146.8	146.8	146.6	146.4
74°	137.9	138.2	138.1	138.0	141.2	141.6	141.5	141.0	141.1	140.7	140.6
74.5°	132.1	132.7	132.2	132.3	135.4	135.8	135.4	135.3	135.2	135.2	135.0
75°	126.4	126.8	126.6	126.4	129.3	129.8	129.7	129.5	129.4	129.4	129.3
75.5°	120.7	120.8	120.7	120.6	123.6	124.1	123.8	123.8	123.7	123.7	123.6
76°	115.0	115.2	115.0	115.1	117.9	118.4	117.9	118.0	118.0	117.9	117.8
76.5°	109.3	109.5	109.6	109.3	112.4	112.5	112.3	112.5	112.4	112.3	112.4
77°	103.6	103.8	103.5	103.6	106.6	107.1	106.8	106.7	106.6	106.8	106.8
77.5°	98.0	98.4	98.2	98.2	100.9	101.3	101.1	101.1	101.1	101.2	101.2
78°	92.5	92.8	92.5	92.6	95.4	95.7	95.5	95.4	95.1	95.6	95.5
78.5°	87.1	87.2	87.0	87.2	90.1	90.1	90.1	89.8	89.6	90.0	90.1
79°	81.6	81.8	81.5	81.9	84.8	84.9	84.7	84.6	84.3	84.7	84.5
79.5°	76.2	76.5	76.3	76.5	79.4	79.4	79.1	79.1	78.9	79.3	79.3
80°	71.0	71.1	71.0	70.9	73.8	74.0	73.6	73.6	73.5	73.9	73.8
80.5°	65.7	65.8	65.7	65.6	68.4	68.8	68.5	68.4	68.3	68.6	68.7
81°	60.7	60.7	60.6	60.2	63.2	63.5	63.4	63.1	63.2	63.5	63.5
81.5°	55.6	55.7	55.5	55.3	58.1	58.3	58.1	58.0	58.0	58.3	58.4
82°	50.8	50.8	50.7	50.3	53.1	53.3	53.1	52.9	52.9	53.2	53.4
82.5°	46.0	46.0	45.8	45.5	48.4	48.5	48.4	48.2	48.1	48.4	48.8
83°	41.1	41.3	41.0	40.6	43.5	43.6	43.6	43.4	43.4	43.7	44.0
83.5°	36.6	36.7	36.5	36.3	38.6	39.0	38.7	38.7	38.7	39.0	39.3
84°	32.3	32.5	32.2	31.8	34.2	34.3	34.3	34.1	34.1	34.4	34.7
84.5°	28.3	28.3	28.2	27.9	30.0	30.3	30.0	29.9	29.8	30.0	30.4
85°	24.3	24.3	24.3	23.9	25.8	25.9	25.9	25.7	25.6	25.9	26.1
85.5°	20.7	20.7	20.7	20.4	21.9	21.9	21.9	21.9	21.8	21.9	22.3
86°	17.3	17.3	17.2	16.9	18.6	18.6	18.6	18.6	18.6	18.8	19.0
86.5°	14.0	14.1	14.0	13.7	15.5	15.5	15.6	15.3	15.4	15.7	15.7
87°	10.8	10.8	10.9	10.6	12.4	12.5	12.5	12.3	12.3	12.5	12.6
87.5°	8.0	7.9	7.9	7.6	9.5	9.5	9.5	9.4	9.3	9.6	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	4.7	4.9	4.7	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: P869673
CATALOG NUMBER: SMX14SLSFS010-1600LM-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: P869673
 CATALOG NUMBER: SMX14SLSFS010-1600LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	644.6	644.6	644.6	644.6	644.6	644.6
0.5°	644.0	645.5	644.9	644.6	644.4	644.3
1°	643.9	645.2	645.5	644.3	644.0	644.3
1.5°	644.1	645.5	645.0	644.7	643.6	643.9
2°	643.6	644.8	644.5	644.3	643.8	643.9
2.5°	643.8	644.5	644.1	643.7	644.1	643.6
3°	643.5	643.7	643.5	643.5	643.8	642.7
3.5°	642.8	643.1	643.5	642.9	643.6	642.4
4°	642.7	642.8	643.5	642.3	642.9	642.3
4.5°	642.2	642.3	642.6	642.0	642.6	641.9
5°	641.1	641.9	641.7	641.8	641.7	641.5
5.5°	640.5	641.3	641.3	641.9	641.2	641.1
6°	639.5	640.6	640.2	641.0	640.7	640.7
6.5°	639.2	639.7	639.6	640.5	639.6	640.2
7°	638.5	639.0	638.8	639.4	638.8	639.5
7.5°	638.4	638.6	638.2	638.4	638.6	638.8
8°	637.1	638.0	637.0	637.7	637.4	637.7
8.5°	636.2	637.1	636.6	637.0	636.2	637.0
9°	635.1	635.9	635.8	635.8	635.5	636.4
9.5°	633.8	635.3	634.5	634.8	634.5	635.5
10°	633.3	634.1	633.3	633.7	633.8	634.7
10.5°	632.0	632.9	632.5	632.7	633.2	633.9
11°	630.8	631.3	631.7	631.4	631.8	632.9
11.5°	629.6	629.9	630.8	629.7	630.8	631.7
12°	628.4	628.8	629.6	628.8	629.6	630.4
12.5°	627.2	627.6	628.2	628.1	629.2	629.1
13°	626.2	626.3	626.9	626.6	627.6	627.9
13.5°	624.7	624.7	625.1	625.5	626.0	626.4
14°	623.4	622.8	623.4	624.7	624.7	624.7
14.5°	621.5	621.2	621.5	622.9	622.8	622.8
15°	620.2	619.8	619.7	621.6	621.0	621.0
15.5°	618.4	618.2	618.2	620.3	619.4	619.0
16°	616.9	616.6	616.3	618.9	617.0	617.3
16.5°	615.1	614.9	614.9	617.1	615.5	615.4
17°	613.3	613.1	613.1	614.9	613.7	613.7
17.5°	611.4	611.5	611.0	613.0	611.5	611.7
18°	609.6	609.6	609.5	611.2	609.9	610.0
18.5°	607.8	607.9	607.6	608.9	607.6	608.0
19°	606.0	606.0	605.7	606.9	605.3	605.9
19.5°	603.7	603.9	604.1	604.7	603.4	603.9
20°	601.8	601.8	602.5	602.5	601.5	601.6
20.5°	599.4	599.6	600.5	600.5	599.8	599.8
21°	597.4	597.3	598.2	598.5	597.7	597.6
21.5°	595.1	595.0	596.4	596.1	595.9	595.3
22°	593.1	593.1	594.5	593.8	593.5	593.3

TEST NUMBER: P869673
 CATALOG NUMBER: SMX14SLSFS010-1600LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	590.4	590.5	591.9	591.3	591.2	591.1
23°	588.3	588.3	589.2	588.7	588.8	588.8
23.5°	586.2	585.8	587.3	586.4	586.5	586.7
24°	583.7	583.2	585.0	583.5	583.6	584.5
24.5°	581.1	580.7	581.6	581.4	581.1	581.8
25°	578.2	578.2	579.1	578.4	578.2	578.7
25.5°	575.7	575.7	576.4	575.9	575.7	576.2
26°	572.6	573.0	573.3	572.9	572.8	573.1
26.5°	570.0	570.0	570.6	570.0	570.0	570.8
27°	567.3	567.3	568.0	567.3	567.3	568.2
27.5°	565.0	564.5	565.4	564.5	564.5	565.4
28°	561.9	561.4	562.6	561.6	561.4	562.4
28.5°	559.1	558.3	559.8	559.2	559.0	559.4
29°	556.1	555.6	556.9	556.0	555.7	556.4
29.5°	552.9	552.3	554.2	553.1	552.8	553.5
30°	549.9	549.4	551.2	550.0	549.4	550.4
30.5°	546.7	546.7	547.9	546.4	546.3	547.4
31°	543.4	543.4	544.3	543.5	543.2	544.6
31.5°	540.3	540.2	540.7	540.5	540.1	541.3
32°	537.3	537.3	537.3	537.1	536.6	537.7
32.5°	534.3	533.8	534.4	534.4	533.6	534.6
33°	531.0	531.0	530.9	530.9	530.3	530.8
33.5°	527.7	527.5	527.9	527.5	527.1	527.8
34°	524.1	524.0	524.1	524.4	523.4	524.5
34.5°	521.0	520.3	520.8	521.1	520.1	521.1
35°	517.7	516.6	517.0	517.7	516.8	517.3
35.5°	514.2	512.9	513.5	514.1	513.3	514.2
36°	510.4	509.6	509.9	510.4	509.6	510.6
36.5°	506.9	506.0	506.3	506.6	506.3	506.7
37°	503.2	502.5	502.6	502.9	502.7	502.7
37.5°	499.7	498.5	498.9	499.5	499.1	499.2
38°	496.1	494.5	495.2	495.7	495.7	495.5
38.5°	492.6	490.7	491.7	491.5	491.7	491.7
39°	488.8	487.2	487.9	487.9	487.8	487.9
39.5°	485.0	483.4	484.2	484.0	484.0	484.1
40°	480.9	479.7	480.4	480.1	479.9	480.1
40.5°	476.8	476.0	476.3	476.1	476.3	476.5
41°	472.9	472.7	472.6	472.5	472.4	472.4
41.5°	468.8	468.4	468.7	468.7	469.0	468.7
42°	464.8	464.3	464.6	464.7	465.2	464.5
42.5°	460.8	460.0	460.7	460.5	460.4	460.1
43°	456.7	455.9	456.2	456.4	456.0	456.0
43.5°	452.9	451.6	452.5	452.0	451.9	451.8
44°	448.6	447.2	448.4	447.7	447.6	447.5
44.5°	444.6	443.4	443.9	443.5	444.1	443.4

TEST NUMBER: P869673
 CATALOG NUMBER: SMX14SLSFS010-1600LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	440.2	438.9	439.7	439.3	439.5	438.9
45.5°	436.1	434.6	435.3	435.0	434.7	434.4
46°	431.6	430.3	430.9	430.8	430.3	430.3
46.5°	427.1	425.8	426.9	426.3	425.8	426.4
47°	422.7	421.1	422.7	422.1	421.7	422.1
47.5°	418.2	416.6	418.2	417.5	417.7	418.0
48°	413.7	412.3	413.6	412.9	413.5	413.2
48.5°	409.5	408.0	409.0	408.4	408.9	408.6
49°	404.6	403.5	404.4	403.8	403.6	404.0
49.5°	400.1	399.0	399.9	399.2	398.9	399.5
50°	395.7	394.4	395.2	394.6	394.8	395.1
50.5°	391.1	389.8	390.4	389.9	389.9	389.9
51°	386.6	385.0	385.8	385.3	385.0	385.4
51.5°	381.7	380.1	380.8	380.5	380.0	380.6
52°	377.1	375.4	376.2	375.8	375.2	376.0
52.5°	372.0	370.3	371.4	371.3	370.6	371.1
53°	367.4	365.8	366.2	366.3	365.8	366.2
53.5°	362.7	361.1	361.6	361.4	360.9	361.3
54°	357.9	356.1	356.2	356.4	356.4	356.3
54.5°	352.9	351.2	351.6	351.0	351.0	351.1
55°	347.9	346.6	346.6	345.9	346.2	346.5
55.5°	343.0	341.7	341.8	340.9	341.3	341.7
56°	338.5	336.5	336.8	335.8	336.3	336.6
56.5°	333.2	331.5	331.6	331.0	331.4	331.6
57°	328.1	326.1	326.6	325.8	326.1	326.2
57.5°	322.9	321.2	321.5	320.8	320.8	320.8
58°	318.0	315.9	316.0	316.3	315.6	316.0
58.5°	312.7	310.8	310.8	311.0	310.9	310.7
59°	307.6	305.5	305.5	305.8	305.7	305.3
59.5°	302.0	300.3	300.1	300.3	300.5	300.1
60°	296.6	295.1	295.0	295.0	295.0	295.2
60.5°	291.6	289.8	289.7	289.5	289.4	290.2
61°	286.5	284.4	284.6	284.0	284.1	284.5
61.5°	281.2	278.9	279.5	278.5	279.0	279.2
62°	275.7	273.9	274.0	273.1	273.3	273.8
62.5°	270.3	268.3	268.6	267.9	267.7	268.4
63°	264.9	262.7	262.9	262.7	262.3	262.8
63.5°	259.2	257.2	257.6	256.9	256.7	257.4
64°	254.2	251.6	252.0	251.4	251.4	251.8
64.5°	248.2	246.2	246.6	246.1	246.0	246.5
65°	243.1	240.5	240.9	240.5	240.4	241.1
65.5°	237.4	235.1	235.2	234.8	235.0	235.5
66°	231.6	229.3	229.3	229.4	229.4	229.8
66.5°	226.0	223.6	223.8	223.7	224.1	224.0
67°	220.8	217.8	218.3	217.9	218.7	218.1

TEST NUMBER: P869673
 CATALOG NUMBER: SMX14SLSFS010-1600LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	214.9	212.2	213.0	212.4	213.0	212.6
68°	209.3	206.6	207.2	206.6	206.8	206.9
68.5°	203.6	201.4	201.5	201.1	201.2	201.2
69°	197.8	195.7	195.9	195.7	195.7	195.6
69.5°	192.1	189.8	190.2	189.8	189.9	189.6
70°	186.4	184.0	184.3	184.0	184.1	183.8
70.5°	181.1	178.3	178.6	178.5	178.6	178.1
71°	175.4	172.2	172.6	172.6	172.6	172.4
71.5°	169.5	166.7	167.0	166.7	166.7	166.9
72°	163.7	161.0	161.0	160.9	160.7	161.1
72.5°	158.0	155.3	155.4	155.3	154.7	155.0
73°	152.6	149.5	150.0	149.6	149.2	149.4
73.5°	146.8	143.7	144.3	143.8	143.6	143.7
74°	141.3	138.0	138.3	137.8	137.9	137.9
74.5°	135.4	132.3	132.5	132.1	131.9	132.1
75°	129.7	126.5	126.7	126.4	126.0	126.4
75.5°	123.9	120.9	121.0	120.5	120.3	120.7
76°	118.2	115.1	115.2	114.9	114.8	115.0
76.5°	112.7	109.3	109.5	109.3	109.2	109.3
77°	107.0	103.8	103.8	103.5	103.5	103.6
77.5°	101.3	98.5	98.2	98.1	98.2	98.0
78°	95.7	92.9	92.5	92.5	92.5	92.5
78.5°	90.1	87.5	87.1	87.1	87.2	87.1
79°	84.8	82.1	81.6	81.7	82.0	81.6
79.5°	79.4	76.5	76.5	76.3	76.6	76.2
80°	74.0	71.1	71.1	70.9	71.3	71.0
80.5°	68.8	66.0	66.0	66.0	65.8	65.7
81°	63.6	60.7	60.8	60.8	60.7	60.7
81.5°	58.4	55.7	55.9	56.0	55.6	55.6
82°	53.4	50.9	50.9	51.0	50.6	50.8
82.5°	48.8	46.0	46.3	46.0	45.8	46.0
83°	44.0	41.5	41.5	41.5	41.0	41.1
83.5°	39.3	37.0	37.0	36.9	36.5	36.6
84°	34.7	32.6	32.6	32.5	32.3	32.3
84.5°	30.4	28.4	28.4	28.4	28.3	28.3
85°	26.3	24.4	24.6	24.3	24.3	24.3
85.5°	22.3	20.9	21.0	20.9	20.9	20.7
86°	19.1	17.4	17.5	17.5	17.4	17.3
86.5°	15.8	14.1	14.3	14.1	14.1	14.0
87°	12.8	11.0	11.2	11.1	11.0	10.8
87.5°	9.9	8.0	8.1	8.1	8.0	8.0
88°	7.2	5.6	5.8	5.7	5.7	5.5
88.5°	4.9	3.7	3.9	3.9	3.9	3.7
89°	3.1	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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869673
CATALOG NUMBER: SMX14SLSFS010-1600LM-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)