

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: P869672

Luminaire Tested: **SMX14SLSFS010-1600LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869672
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14SLSFS010-1600LM-3000K
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

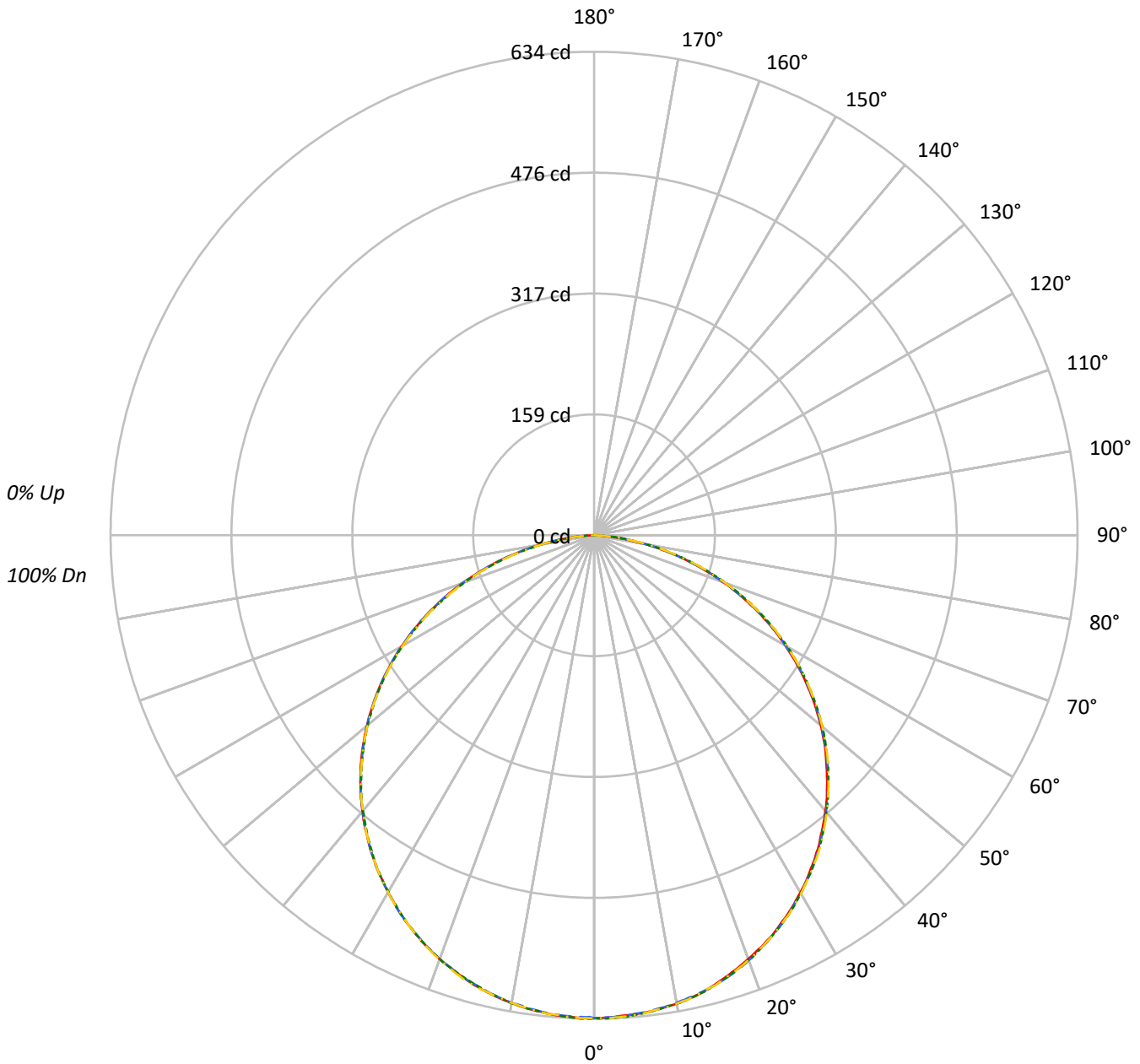
Lumens per Lamp: N/A
 Luminaire Lumens: 1850.6 lumens
 Efficiency: N/A
 Efficacy: 90.3 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
 CIE Type: Direct

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	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°	5006	5006	5006	5006
5°	5001	5008	5005	5005
10°	5006	5005	5002	5000
15°	4993	4999	4994	4984
20°	4972	4984	4976	4973
25°	4959	4967	4954	4955
30°	4936	4951	4933	4926
35°	4904	4925	4908	4898
40°	4868	4889	4877	4864
45°	4821	4854	4841	4821
50°	4773	4806	4781	4766
55°	4691	4728	4710	4693
60°	4586	4630	4606	4584
65°	4430	4481	4464	4419
70°	4173	4250	4238	4178
75°	3793	3881	3884	3796
80°	3177	3300	3286	3182
85°	2167	2294	2285	2176

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	3.2
10°-20°	172.2	9.3
20°-30°	262.3	14.2
30°-40°	318.5	17.2
40°-50°	333.7	18.0
50°-60°	305.2	16.5
60°-70°	235.0	12.7
70°-80°	132.9	7.2
80°-90°	30.9	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°	494.4	26.7
0°-40°	812.9	43.9
0°-60°	1451.8	78.5
0°-90°	1850.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1850.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	633	633	633	633	633	
5°	630	631	631	631	630	60
15°	610	611	610	609	610	172
25°	569	570	568	568	569	262
35°	508	510	509	508	508	318
45°	431	434	433	431	431	333
55°	340	343	342	341	340	304
65°	237	240	239	236	237	234
75°	124	127	127	124	124	131
85°	24	25	25	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°	633.4	633.4	633.4	633.4	633.4	633.4	633.4	633.4	633.4	633.4	633.4
0.5°	633.1	634.2	632.5	633.2	633.9	633.5	633.5	633.5	633.1	633.9	631.8
1°	633.1	634.3	632.8	632.9	633.9	633.3	633.2	633.1	633.3	633.3	632.0
1.5°	632.7	633.7	632.5	632.6	633.8	633.1	633.6	632.7	633.0	633.4	632.0
2°	632.7	633.5	632.3	632.7	633.5	632.7	633.4	632.5	633.1	633.5	632.0
2.5°	632.4	633.5	632.2	632.1	633.6	633.0	633.1	632.4	632.5	633.4	631.8
3°	631.6	633.2	631.6	631.9	633.0	632.6	632.7	632.4	632.3	632.7	631.6
3.5°	631.2	632.6	631.6	631.6	632.7	632.0	632.3	632.0	632.0	632.7	631.4
4°	631.2	632.0	630.9	630.9	632.7	632.0	632.0	632.0	631.6	632.1	631.2
4.5°	630.8	631.8	630.5	630.7	631.8	631.5	631.6	631.2	631.6	632.4	630.4
5°	630.3	631.4	629.7	630.5	631.2	631.1	631.4	630.7	630.9	631.6	630.2
5.5°	630.0	630.7	629.6	629.9	630.7	630.6	631.1	629.8	630.3	630.9	629.7
6°	629.6	630.1	629.0	629.4	630.2	629.6	630.2	629.4	629.6	630.0	629.2
6.5°	629.1	629.9	628.2	628.7	629.6	628.6	629.6	629.0	628.7	629.4	628.2
7°	628.4	629.1	627.7	628.2	628.7	628.2	628.3	628.0	628.4	628.5	627.5
7.5°	627.7	628.2	626.6	627.1	627.9	627.4	627.7	627.2	627.5	628.0	626.7
8°	626.6	627.3	626.0	626.4	627.1	626.5	627.1	626.5	626.8	627.2	625.8
8.5°	626.0	626.6	625.7	625.4	626.2	626.0	626.3	625.2	626.0	626.0	624.7
9°	625.3	625.9	624.6	624.7	625.3	624.9	625.7	624.3	625.0	625.3	623.9
9.5°	624.5	624.7	623.6	623.8	624.5	623.7	624.5	623.5	623.9	624.7	623.2
10°	623.7	623.3	622.6	623.0	623.6	623.3	623.7	622.6	623.2	623.6	622.6
10.5°	622.9	622.6	621.3	621.9	623.3	622.1	622.5	621.5	621.9	622.4	621.4
11°	621.9	621.1	620.6	621.0	622.0	621.1	621.9	620.3	620.8	621.7	620.0
11.5°	620.7	620.3	619.1	619.6	620.8	620.4	621.1	619.2	619.5	620.0	619.0
12°	619.4	619.5	618.1	618.9	619.6	619.0	619.2	617.7	618.5	618.5	617.9
12.5°	618.1	618.5	617.3	617.4	618.6	618.2	618.0	616.6	617.3	617.3	616.4
13°	617.0	617.3	616.0	616.2	617.0	616.7	616.7	615.5	615.8	616.1	615.0
13.5°	615.5	616.1	615.1	614.4	615.9	614.9	614.7	614.0	614.7	615.1	613.7
14°	613.9	614.5	613.6	613.1	614.3	613.7	613.4	612.2	613.5	613.5	612.0
14.5°	612.0	612.9	612.2	611.5	612.5	612.2	612.4	610.8	611.4	612.2	610.2
15°	610.2	611.6	611.1	610.4	610.9	611.1	611.2	608.7	610.3	610.8	609.1
15.5°	608.3	610.0	609.9	608.3	609.4	609.4	609.5	607.3	608.4	609.2	607.5
16°	606.5	607.8	608.1	606.6	607.4	607.4	607.3	606.3	606.5	607.2	606.1
16.5°	604.7	605.7	606.4	605.2	606.1	605.7	605.5	604.7	604.9	605.4	604.6
17°	603.1	603.9	604.9	603.1	604.1	603.9	603.9	603.1	603.1	603.4	603.0
17.5°	601.1	602.0	603.1	600.9	602.1	602.0	602.4	601.2	600.9	601.8	601.2
18°	599.4	599.8	601.4	599.4	600.3	600.3	600.5	599.2	599.0	599.6	599.1
18.5°	597.4	598.0	599.8	597.7	598.7	598.3	598.6	597.8	597.1	598.0	597.1
19°	595.3	595.8	597.5	595.6	596.4	596.7	596.8	596.0	595.3	596.0	595.5
19.5°	593.4	593.8	595.6	593.3	594.5	594.9	594.7	593.8	593.8	594.1	593.8
20°	591.1	591.9	593.2	591.5	592.6	592.9	592.8	591.9	591.6	592.1	591.6
20.5°	589.3	590.3	591.4	589.3	590.9	591.1	590.8	589.7	589.7	589.8	589.8
21°	587.2	587.7	589.3	587.5	588.8	588.6	588.6	588.0	587.5	587.8	587.4
21.5°	584.9	585.6	587.0	585.0	586.4	586.1	586.0	585.7	585.1	585.5	585.0
22°	582.9	583.4	583.7	583.0	584.2	583.6	584.0	584.0	583.1	583.1	582.7

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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°	580.8	581.4	582.2	580.9	582.0	581.2	581.8	581.4	580.6	580.6	580.2
23°	578.6	579.1	579.8	578.4	579.8	579.0	579.5	578.8	578.6	578.2	577.5
23.5°	576.5	576.9	577.5	576.1	577.3	576.9	577.2	576.3	575.7	575.8	575.7
24°	574.3	574.5	574.7	573.9	574.9	574.7	575.0	574.0	573.4	573.9	573.1
24.5°	571.6	572.0	572.5	571.3	572.5	572.4	572.8	571.8	570.9	571.8	570.9
25°	568.6	569.8	570.1	568.6	569.6	569.9	570.1	569.4	568.1	568.8	568.3
25.5°	566.2	567.3	567.4	566.1	567.4	567.3	567.3	566.4	566.1	566.1	566.0
26°	563.1	564.4	564.5	563.1	564.9	564.8	564.9	563.8	563.4	564.1	563.5
26.5°	560.9	561.8	562.2	560.7	562.5	561.9	562.3	560.8	560.4	561.0	560.4
27°	558.3	559.3	559.0	558.5	560.0	559.3	560.0	558.5	557.8	558.2	558.2
27.5°	555.5	556.4	556.4	555.7	557.0	556.4	557.3	555.9	555.4	555.7	555.1
28°	552.6	553.3	553.5	552.9	554.3	554.0	554.0	552.9	552.3	553.2	552.6
28.5°	549.7	550.5	550.5	550.7	551.5	551.0	551.2	550.5	549.2	550.5	549.7
29°	546.7	547.7	548.0	547.5	548.2	547.9	548.2	547.5	546.1	547.6	546.3
29.5°	543.9	544.7	544.9	544.8	545.3	545.0	545.6	544.3	543.5	545.0	543.2
30°	540.9	541.6	541.9	541.7	542.5	542.4	542.7	541.6	540.5	541.4	540.2
30.5°	537.9	538.7	539.1	539.1	539.4	539.4	539.4	538.7	537.4	538.3	537.3
31°	535.1	535.4	535.6	536.3	536.1	536.4	536.0	535.6	534.2	535.4	534.5
31.5°	531.9	532.6	532.7	533.1	532.9	533.2	533.1	532.3	531.0	532.0	531.3
32°	528.4	529.6	529.7	529.7	529.6	530.1	530.1	529.0	527.8	528.9	528.2
32.5°	525.3	526.5	526.7	527.0	527.0	527.1	527.3	526.3	525.2	526.2	524.9
33°	521.6	523.1	523.1	523.7	523.8	523.7	523.9	522.9	522.0	523.0	522.0
33.5°	518.6	519.9	520.3	520.4	520.5	520.0	520.8	519.6	518.7	519.9	518.6
34°	515.4	516.9	516.8	517.2	517.2	516.9	517.7	516.0	515.2	516.1	515.3
34.5°	512.1	513.0	513.4	513.8	513.9	513.7	514.7	512.4	512.1	512.7	512.3
35°	508.3	508.9	509.8	510.2	510.4	510.5	511.4	509.6	508.7	509.1	508.7
35.5°	505.3	505.7	506.3	506.4	507.2	507.3	507.9	506.0	505.5	505.6	505.2
36°	501.7	502.3	502.5	503.1	503.6	503.4	504.4	502.3	501.8	502.1	501.7
36.5°	497.9	499.3	499.0	499.7	500.1	499.6	500.8	498.8	498.1	498.4	497.7
37°	494.0	495.3	495.7	496.1	496.5	496.4	497.3	494.8	494.2	495.0	494.5
37.5°	490.5	492.0	492.4	492.6	492.6	492.6	493.3	491.6	490.7	491.4	491.0
38°	486.9	488.5	488.6	488.7	489.2	488.8	489.4	488.1	487.5	488.0	487.5
38.5°	483.2	484.5	484.7	484.8	485.3	484.9	485.8	484.3	483.9	484.1	484.0
39°	479.5	481.0	480.9	481.1	481.7	481.3	482.1	480.5	480.2	480.3	479.9
39.5°	475.7	477.0	477.1	476.9	477.9	478.2	478.0	476.8	476.7	476.5	476.1
40°	471.8	472.8	473.2	473.2	473.9	474.6	474.3	473.5	472.7	472.8	472.5
40.5°	468.2	469.3	469.5	469.1	470.0	470.7	470.8	469.7	468.8	469.0	468.6
41°	464.1	465.5	465.6	465.4	466.5	466.8	466.7	465.8	464.6	465.2	464.8
41.5°	460.6	461.5	461.9	461.2	462.6	463.3	463.2	461.9	461.2	461.3	461.1
42°	456.4	457.4	457.8	457.4	458.2	459.1	458.9	458.1	457.7	457.1	457.1
42.5°	452.1	453.3	454.0	453.2	454.4	455.1	454.7	454.1	453.5	452.9	453.1
43°	448.1	449.2	450.1	449.2	450.6	450.9	450.7	449.9	449.3	448.8	449.1
43.5°	443.9	445.4	445.7	445.2	446.5	446.5	446.8	445.9	445.4	444.7	444.9
44°	439.7	441.2	441.6	441.2	442.4	442.5	442.7	441.9	441.1	440.6	440.9
44.5°	435.7	436.8	437.5	436.8	438.3	438.6	438.6	437.8	437.1	436.6	436.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	431.3	432.8	433.4	432.8	434.3	434.5	434.1	433.6	433.1	432.6	432.2
45.5°	426.8	428.5	429.4	428.6	430.3	430.4	429.8	429.6	428.8	428.4	427.8
46°	422.8	424.7	424.9	424.6	425.9	425.9	425.8	425.1	424.3	423.9	423.8
46.5°	419.0	420.3	420.5	420.3	421.5	421.6	421.8	420.7	420.0	420.1	419.4
47°	414.8	415.8	416.1	416.0	417.1	417.3	417.4	416.2	415.8	415.5	415.0
47.5°	410.7	411.8	411.6	411.4	412.8	413.1	412.8	411.9	411.5	411.1	410.5
48°	406.0	407.2	407.0	407.1	408.4	408.9	408.6	407.7	406.8	406.9	406.0
48.5°	401.5	402.7	402.7	402.5	404.1	404.1	404.1	403.4	402.3	402.4	401.9
49°	397.0	398.3	398.1	398.1	399.9	399.7	399.6	398.8	398.1	398.1	397.4
49.5°	392.5	393.9	393.7	393.5	395.4	395.0	395.1	394.6	393.5	393.9	392.9
50°	388.2	389.2	389.2	388.9	390.9	390.9	390.7	389.8	388.8	389.2	388.6
50.5°	383.2	384.7	384.7	384.4	386.2	386.2	386.1	385.4	384.3	384.5	384.1
51°	378.7	379.9	379.8	379.7	381.4	381.4	381.7	380.5	379.8	380.0	379.8
51.5°	374.0	375.3	375.4	375.2	376.8	376.7	377.0	375.9	375.0	375.3	374.6
52°	369.4	370.8	370.6	370.5	372.0	372.3	372.3	371.2	370.0	370.6	370.0
52.5°	364.6	365.9	365.9	365.9	367.5	367.8	367.5	366.5	365.5	366.3	365.3
53°	359.9	361.2	361.0	360.8	362.5	362.9	362.5	361.7	361.1	361.4	360.8
53.5°	355.0	356.3	356.2	355.9	357.7	357.8	357.6	357.3	356.3	357.0	355.9
54°	350.1	351.1	351.3	351.0	352.8	353.0	352.8	352.4	351.3	351.9	351.3
54.5°	344.9	346.1	346.5	346.4	348.1	348.1	347.9	347.3	346.4	346.9	346.7
55°	340.4	341.6	341.2	341.7	343.1	343.3	343.3	342.6	341.8	342.1	341.9
55.5°	335.8	336.6	336.5	336.6	338.2	338.6	338.0	337.4	336.9	337.6	337.0
56°	330.7	331.8	331.4	331.8	333.3	333.8	333.7	332.8	332.2	332.6	332.1
56.5°	325.8	326.7	326.6	326.9	328.4	328.8	328.8	327.7	327.0	327.5	326.9
57°	320.6	321.4	321.6	322.0	323.4	324.0	323.6	322.8	321.8	322.5	322.1
57.5°	315.3	316.3	316.5	316.8	318.4	318.6	318.7	317.7	317.0	317.5	317.2
58°	310.5	311.2	311.4	311.5	313.1	313.7	313.1	312.9	311.9	312.2	312.4
58.5°	305.3	306.3	306.4	306.4	308.2	308.8	307.7	307.7	306.9	307.1	307.3
59°	300.0	301.4	300.8	301.0	303.3	303.3	302.9	302.6	301.9	302.3	302.1
59.5°	294.9	295.8	295.6	295.8	298.2	298.0	297.7	297.3	296.5	297.2	296.9
60°	290.1	290.6	290.3	290.6	292.9	292.8	292.6	292.5	291.4	291.9	291.7
60.5°	285.2	285.4	285.3	285.0	287.6	287.6	287.0	287.0	285.8	286.6	286.5
61°	279.5	279.9	280.1	279.7	282.3	282.7	281.9	282.2	281.0	281.3	281.1
61.5°	274.3	274.8	275.0	274.4	276.9	277.5	276.6	276.7	275.9	276.4	275.8
62°	269.0	269.5	269.8	269.5	271.8	272.2	271.9	271.6	270.7	271.1	271.0
62.5°	263.7	263.9	264.4	263.9	266.2	266.6	266.3	266.2	265.3	265.7	265.5
63°	258.2	258.4	259.1	258.7	260.8	261.6	261.0	261.0	260.0	260.3	259.9
63.5°	252.9	253.4	253.6	253.4	255.5	256.2	255.8	255.8	254.9	255.0	254.8
64°	247.4	247.9	248.2	248.0	250.3	250.8	250.4	250.1	249.5	249.7	249.3
64.5°	242.3	242.8	243.0	242.5	244.9	245.0	244.8	244.5	244.1	244.1	243.9
65°	236.9	237.4	237.3	237.2	239.6	240.0	239.6	239.2	238.7	238.9	238.7
65.5°	231.4	231.7	231.8	231.4	234.4	234.1	233.9	233.6	233.1	233.6	233.4
66°	225.8	226.1	226.1	225.8	228.8	228.6	228.0	228.0	227.5	228.1	227.9
66.5°	220.1	220.6	220.3	220.3	223.1	223.0	222.8	222.4	222.2	222.7	222.1
67°	214.3	214.8	214.9	214.8	217.4	217.7	217.3	217.2	216.7	217.0	216.9

TEST NUMBER: P869672
 CATALOG NUMBER: SMX14SLSFS010-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	208.9	209.4	209.3	209.3	211.8	212.1	211.6	211.5	211.2	211.5	211.2
68°	203.3	203.8	203.7	203.8	206.3	206.7	206.2	205.9	206.1	206.0	205.6
68.5°	197.7	198.1	198.1	198.0	200.9	201.2	200.7	200.4	200.7	200.6	200.0
69°	192.2	192.6	192.5	192.3	195.4	195.6	195.0	194.8	194.8	194.7	194.1
69.5°	186.3	186.8	186.9	186.7	189.6	189.9	189.4	189.0	189.1	189.1	188.7
70°	180.6	181.2	181.1	180.9	183.9	184.2	183.6	183.3	183.4	183.6	183.0
70.5°	175.0	175.6	175.1	175.4	178.4	178.7	178.1	177.9	178.1	177.8	177.5
71°	169.4	169.7	169.5	169.6	172.7	173.0	172.2	172.4	172.2	172.2	171.9
71.5°	163.9	164.2	163.9	163.7	166.9	167.1	166.7	166.6	166.8	166.4	166.2
72°	158.3	158.4	158.2	158.0	161.2	161.5	161.0	161.0	161.2	160.8	160.6
72.5°	152.3	153.0	152.7	152.2	155.7	155.8	155.6	155.3	155.5	155.2	154.9
73°	146.8	147.2	147.0	146.8	150.0	150.2	149.9	149.7	149.7	149.6	149.3
73.5°	141.2	141.6	141.2	141.2	144.5	144.8	144.6	144.3	144.2	144.1	143.9
74°	135.5	135.8	135.7	135.6	138.8	139.2	139.1	138.5	138.6	138.3	138.1
74.5°	129.8	130.4	129.9	130.0	133.1	133.5	133.0	132.9	132.8	132.8	132.6
75°	124.2	124.6	124.4	124.2	127.1	127.6	127.5	127.2	127.2	127.2	127.1
75.5°	118.6	118.7	118.6	118.5	121.5	122.0	121.6	121.6	121.6	121.6	121.5
76°	113.0	113.2	113.0	113.1	115.9	116.4	115.9	116.0	116.0	115.9	115.8
76.5°	107.4	107.6	107.7	107.4	110.4	110.6	110.4	110.5	110.4	110.4	110.4
77°	101.8	102.0	101.7	101.8	104.7	105.2	105.0	104.8	104.7	104.9	104.9
77.5°	96.3	96.7	96.5	96.5	99.1	99.5	99.3	99.4	99.3	99.5	99.5
78°	90.9	91.2	90.9	91.0	93.8	94.0	93.9	93.7	93.5	93.9	93.9
78.5°	85.6	85.7	85.5	85.6	88.6	88.6	88.6	88.2	88.0	88.4	88.5
79°	80.2	80.4	80.1	80.5	83.4	83.4	83.2	83.1	82.8	83.2	83.0
79.5°	74.9	75.1	75.0	75.1	78.1	78.0	77.8	77.8	77.5	77.9	77.9
80°	69.8	69.9	69.8	69.7	72.5	72.7	72.3	72.3	72.2	72.6	72.5
80.5°	64.6	64.6	64.6	64.4	67.3	67.6	67.3	67.3	67.1	67.4	67.5
81°	59.6	59.7	59.5	59.1	62.1	62.4	62.3	62.0	62.1	62.4	62.4
81.5°	54.6	54.7	54.5	54.3	57.1	57.3	57.1	57.0	57.0	57.3	57.4
82°	49.9	49.9	49.8	49.4	52.2	52.3	52.2	51.9	51.9	52.3	52.5
82.5°	45.2	45.2	45.0	44.8	47.5	47.7	47.5	47.4	47.3	47.6	47.9
83°	40.4	40.6	40.3	39.9	42.8	42.9	42.9	42.6	42.6	42.9	43.3
83.5°	35.9	36.1	35.8	35.7	38.0	38.3	38.0	38.0	38.0	38.3	38.6
84°	31.7	31.9	31.7	31.3	33.6	33.7	33.7	33.5	33.5	33.8	34.1
84.5°	27.8	27.8	27.7	27.4	29.4	29.8	29.4	29.4	29.3	29.5	29.8
85°	23.9	23.8	23.8	23.4	25.3	25.5	25.4	25.3	25.2	25.4	25.7
85.5°	20.4	20.4	20.4	20.0	21.5	21.5	21.5	21.5	21.4	21.5	21.9
86°	17.0	17.0	16.9	16.6	18.3	18.3	18.3	18.2	18.2	18.5	18.6
86.5°	13.7	13.8	13.7	13.5	15.2	15.2	15.3	15.1	15.2	15.4	15.5
87°	10.7	10.7	10.7	10.4	12.2	12.2	12.3	12.1	12.1	12.2	12.4
87.5°	7.8	7.7	7.7	7.5	9.3	9.3	9.3	9.2	9.2	9.4	9.6
88°	5.4	5.5	5.4	5.3	6.8	6.8	6.8	6.7	6.7	6.9	7.0
88.5°	3.6	3.7	3.6	3.5	4.6	4.8	4.6	4.5	4.4	4.7	4.7
89°	2.2	2.3	2.3	2.2	2.7	2.8	2.7	2.7	2.5	2.8	2.8
89.5°	1.3	1.3	1.3	1.2	1.3	1.4	1.3	1.2	1.1	1.3	1.3

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



TEST NUMBER: P869672
CATALOG NUMBER: SMX14SLSFS010-1600LM-3000K

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: P869672
 CATALOG NUMBER: SMX14SLSFS010-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	633.4	633.4	633.4	633.4	633.4	633.4
0.5°	632.8	634.2	633.7	633.4	633.2	633.1
1°	632.7	634.0	634.2	633.1	632.8	633.1
1.5°	632.9	634.2	633.8	633.5	632.4	632.7
2°	632.4	633.6	633.3	633.1	632.6	632.7
2.5°	632.6	633.3	632.9	632.5	632.9	632.4
3°	632.3	632.5	632.4	632.4	632.6	631.6
3.5°	631.6	632.0	632.4	631.7	632.4	631.2
4°	631.6	631.6	632.3	631.1	631.7	631.2
4.5°	631.0	631.1	631.4	630.9	631.4	630.8
5°	630.0	630.8	630.5	630.6	630.5	630.3
5.5°	629.4	630.1	630.1	630.7	630.1	630.0
6°	628.4	629.4	629.1	629.8	629.5	629.6
6.5°	628.1	628.6	628.5	629.4	628.5	629.1
7°	627.4	627.9	627.7	628.2	627.7	628.4
7.5°	627.3	627.5	627.1	627.3	627.5	627.7
8°	626.0	626.9	626.0	626.6	626.4	626.6
8.5°	625.1	626.0	625.6	625.9	625.2	626.0
9°	624.1	624.9	624.8	624.7	624.5	625.3
9.5°	622.8	624.2	623.5	623.7	623.5	624.5
10°	622.2	623.0	622.2	622.7	622.8	623.7
10.5°	621.0	621.9	621.5	621.7	622.2	622.9
11°	619.9	620.3	620.7	620.4	620.8	621.9
11.5°	618.7	618.9	619.8	618.8	619.9	620.7
12°	617.4	617.9	618.6	617.8	618.7	619.4
12.5°	616.3	616.6	617.3	617.2	618.2	618.1
13°	615.3	615.4	616.0	615.7	616.6	617.0
13.5°	613.9	613.8	614.3	614.7	615.1	615.5
14°	612.5	612.0	612.5	613.8	613.8	613.9
14.5°	610.7	610.4	610.6	612.1	612.0	612.0
15°	609.4	609.1	608.9	610.8	610.2	610.2
15.5°	607.6	607.5	607.5	609.5	608.6	608.3
16°	606.1	605.9	605.6	608.1	606.3	606.5
16.5°	604.4	604.2	604.2	606.4	604.8	604.7
17°	602.6	602.4	602.4	604.2	603.0	603.1
17.5°	600.8	600.9	600.4	602.4	600.9	601.1
18°	599.0	599.0	598.9	600.6	599.3	599.4
18.5°	597.2	597.3	597.0	598.3	597.0	597.4
19°	595.5	595.5	595.2	596.4	594.8	595.3
19.5°	593.2	593.4	593.6	594.2	592.9	593.4
20°	591.3	591.3	592.0	592.0	591.1	591.1
20.5°	589.0	589.2	590.0	590.0	589.3	589.3
21°	587.0	586.9	587.8	588.1	587.3	587.2
21.5°	584.8	584.7	586.0	585.8	585.5	584.9
22°	582.8	582.8	584.1	583.5	583.2	582.9

TEST NUMBER: P869672
 CATALOG NUMBER: SMX14SLSFS010-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	580.1	580.3	581.6	581.0	580.9	580.8
23°	578.0	578.0	578.9	578.4	578.5	578.6
23.5°	576.0	575.6	577.1	576.2	576.3	576.5
24°	573.5	573.1	574.8	573.4	573.5	574.3
24.5°	571.0	570.6	571.5	571.3	571.0	571.6
25°	568.2	568.2	569.0	568.3	568.2	568.6
25.5°	565.6	565.6	566.4	565.9	565.6	566.2
26°	562.7	563.0	563.3	563.0	562.9	563.1
26.5°	560.0	560.1	560.7	560.0	560.0	560.9
27°	557.4	557.4	558.2	557.4	557.4	558.3
27.5°	555.2	554.7	555.5	554.7	554.7	555.5
28°	552.2	551.6	552.8	551.8	551.7	552.6
28.5°	549.4	548.6	550.0	549.5	549.2	549.7
29°	546.4	545.9	547.3	546.3	546.1	546.7
29.5°	543.3	542.7	544.6	543.5	543.2	543.9
30°	540.3	539.8	541.6	540.4	539.8	540.9
30.5°	537.2	537.2	538.4	536.9	536.8	537.9
31°	533.9	533.9	534.8	534.1	533.8	535.1
31.5°	530.9	530.8	531.3	531.1	530.7	531.9
32°	527.9	528.0	528.0	527.8	527.3	528.4
32.5°	525.0	524.5	525.1	525.1	524.4	525.3
33°	521.8	521.8	521.7	521.7	521.1	521.6
33.5°	518.5	518.4	518.8	518.3	518.0	518.6
34°	515.0	514.9	515.0	515.3	514.3	515.4
34.5°	511.9	511.3	511.7	512.1	511.0	512.1
35°	508.7	507.6	508.0	508.7	507.8	508.3
35.5°	505.3	504.0	504.6	505.2	504.4	505.3
36°	501.6	500.8	501.1	501.5	500.8	501.7
36.5°	498.1	497.2	497.4	497.8	497.5	497.9
37°	494.5	493.7	493.9	494.1	494.0	494.0
37.5°	491.0	489.8	490.2	490.8	490.4	490.5
38°	487.5	485.9	486.6	487.0	487.1	486.9
38.5°	484.0	482.1	483.2	482.9	483.2	483.2
39°	480.3	478.7	479.5	479.4	479.3	479.5
39.5°	476.5	475.0	475.8	475.6	475.6	475.7
40°	472.6	471.4	472.0	471.8	471.6	471.8
40.5°	468.5	467.8	468.0	467.8	468.0	468.2
41°	464.7	464.5	464.4	464.3	464.1	464.1
41.5°	460.7	460.3	460.6	460.6	460.8	460.6
42°	456.7	456.2	456.5	456.6	457.1	456.4
42.5°	452.8	452.0	452.7	452.5	452.4	452.1
43°	448.7	448.0	448.3	448.4	448.1	448.1
43.5°	445.0	443.8	444.6	444.2	444.1	443.9
44°	440.8	439.4	440.6	439.9	439.8	439.7
44.5°	436.8	435.6	436.2	435.8	436.4	435.7

TEST NUMBER: P869672
 CATALOG NUMBER: SMX14SLSFS010-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	432.6	431.3	432.0	431.7	431.9	431.3
45.5°	428.5	427.0	427.8	427.4	427.1	426.8
46°	424.1	422.9	423.4	423.3	422.8	422.8
46.5°	419.7	418.4	419.5	418.9	418.4	419.0
47°	415.4	413.8	415.4	414.7	414.4	414.8
47.5°	410.9	409.4	410.9	410.2	410.5	410.7
48°	406.5	405.1	406.4	405.7	406.3	406.0
48.5°	402.4	400.9	401.9	401.3	401.8	401.5
49°	397.5	396.5	397.4	396.7	396.6	397.0
49.5°	393.2	392.1	392.9	392.2	392.0	392.5
50°	388.8	387.6	388.3	387.7	388.0	388.2
50.5°	384.3	383.0	383.6	383.2	383.2	383.2
51°	379.9	378.3	379.0	378.6	378.3	378.7
51.5°	375.1	373.4	374.2	373.9	373.4	374.0
52°	370.5	368.9	369.7	369.3	368.7	369.4
52.5°	365.5	363.9	364.9	364.8	364.1	364.6
53°	361.0	359.5	359.9	359.9	359.5	359.9
53.5°	356.4	354.8	355.3	355.1	354.7	355.0
54°	351.7	349.9	350.0	350.2	350.2	350.1
54.5°	346.8	345.1	345.5	344.9	344.9	344.9
55°	341.9	340.6	340.6	339.9	340.1	340.4
55.5°	337.1	335.7	335.9	335.0	335.3	335.8
56°	332.6	330.7	330.9	329.9	330.4	330.7
56.5°	327.4	325.7	325.8	325.3	325.6	325.8
57°	322.4	320.5	320.9	320.2	320.5	320.6
57.5°	317.3	315.6	315.9	315.3	315.3	315.3
58°	312.4	310.5	310.5	310.8	310.1	310.5
58.5°	307.3	305.4	305.4	305.6	305.5	305.3
59°	302.2	300.2	300.2	300.5	300.4	300.0
59.5°	296.8	295.1	294.9	295.1	295.3	294.9
60°	291.4	290.0	289.9	289.9	289.9	290.1
60.5°	286.5	284.8	284.6	284.5	284.3	285.2
61°	281.6	279.4	279.7	279.0	279.1	279.5
61.5°	276.3	274.1	274.6	273.7	274.1	274.3
62°	270.9	269.1	269.2	268.4	268.5	269.0
62.5°	265.6	263.6	263.9	263.2	263.1	263.7
63°	260.2	258.1	258.4	258.1	257.7	258.2
63.5°	254.7	252.8	253.1	252.4	252.3	252.9
64°	249.8	247.2	247.6	247.1	247.0	247.4
64.5°	243.9	241.9	242.3	241.9	241.7	242.3
65°	238.9	236.3	236.7	236.3	236.2	236.9
65.5°	233.3	231.0	231.1	230.7	230.9	231.4
66°	227.6	225.3	225.4	225.4	225.4	225.8
66.5°	222.0	219.8	219.9	219.8	220.2	220.1
67°	216.9	214.0	214.5	214.1	214.9	214.3

TEST NUMBER: P869672
 CATALOG NUMBER: SMX14SLSFS010-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	211.2	208.5	209.3	208.7	209.3	208.9
68°	205.6	203.0	203.6	203.0	203.2	203.3
68.5°	200.0	197.9	198.0	197.6	197.7	197.7
69°	194.3	192.3	192.5	192.3	192.3	192.2
69.5°	188.7	186.5	186.9	186.5	186.6	186.3
70°	183.1	180.8	181.1	180.8	180.9	180.6
70.5°	177.9	175.2	175.5	175.4	175.5	175.0
71°	172.4	169.2	169.6	169.6	169.6	169.4
71.5°	166.6	163.8	164.1	163.8	163.8	163.9
72°	160.9	158.2	158.2	158.1	157.9	158.3
72.5°	155.3	152.6	152.7	152.6	152.0	152.3
73°	149.9	146.9	147.4	147.0	146.6	146.8
73.5°	144.3	141.2	141.8	141.3	141.1	141.2
74°	138.8	135.6	135.9	135.4	135.5	135.5
74.5°	133.1	130.0	130.2	129.8	129.6	129.8
75°	127.5	124.3	124.5	124.2	123.8	124.2
75.5°	121.7	118.8	118.9	118.4	118.2	118.6
76°	116.2	113.1	113.2	112.9	112.8	113.0
76.5°	110.7	107.4	107.6	107.4	107.3	107.4
77°	105.1	102.0	102.0	101.7	101.7	101.8
77.5°	99.5	96.8	96.5	96.4	96.5	96.3
78°	94.0	91.2	90.9	90.9	90.9	90.9
78.5°	88.6	86.0	85.6	85.6	85.6	85.6
79°	83.3	80.7	80.2	80.3	80.6	80.2
79.5°	78.0	75.1	75.1	75.0	75.3	74.9
80°	72.7	69.9	69.9	69.7	70.0	69.8
80.5°	67.6	64.8	64.8	64.8	64.6	64.6
81°	62.5	59.7	59.8	59.8	59.6	59.6
81.5°	57.4	54.7	54.9	55.0	54.6	54.6
82°	52.5	50.0	50.0	50.1	49.7	49.9
82.5°	47.9	45.2	45.5	45.2	45.0	45.2
83°	43.3	40.7	40.8	40.7	40.3	40.4
83.5°	38.6	36.3	36.3	36.2	35.8	35.9
84°	34.1	32.0	32.0	32.0	31.7	31.7
84.5°	29.8	27.9	27.9	27.9	27.8	27.8
85°	25.8	24.0	24.2	23.9	23.9	23.9
85.5°	21.9	20.5	20.6	20.5	20.5	20.4
86°	18.8	17.1	17.2	17.2	17.1	17.0
86.5°	15.6	13.8	14.1	13.9	13.8	13.7
87°	12.6	10.8	11.0	10.9	10.8	10.7
87.5°	9.7	7.8	8.0	8.0	7.9	7.8
88°	7.1	5.5	5.7	5.6	5.6	5.4
88.5°	4.8	3.6	3.8	3.8	3.8	3.6
89°	3.0	2.1	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: P869672
CATALOG NUMBER: SMX14SLSFS010-1600LM-3000K

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)