

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: P869674

Luminaire Tested: **SMX14SLSFS010-1600LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869674
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14SLSFS010-1600LM-4000K
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

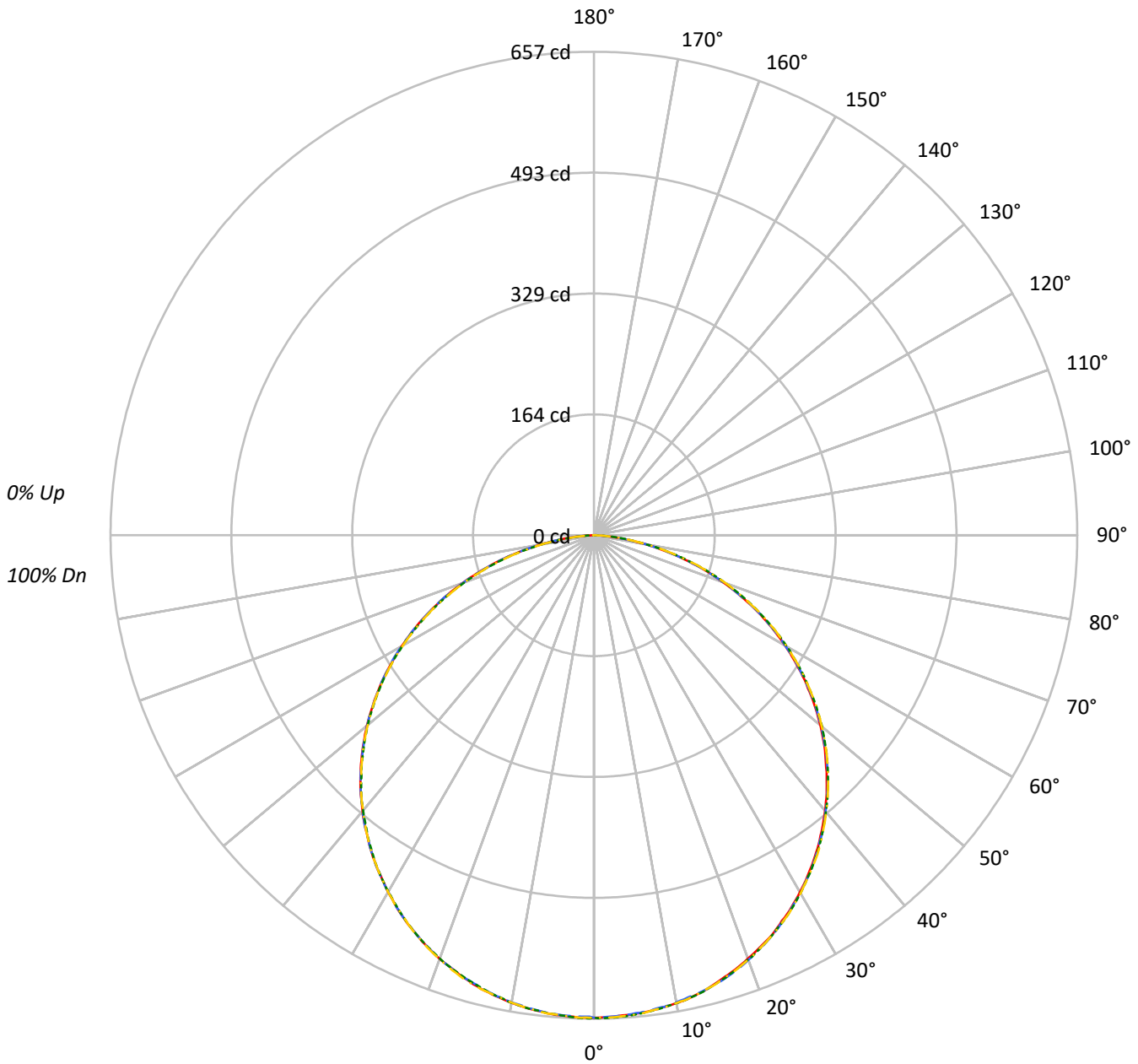
Lumens per Lamp: N/A
 Luminaire Lumens: 1916.1 lumens
 Efficiency: N/A
 Efficacy: 93.5 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 20.5
 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

TEST NUMBER: P869674
CATALOG NUMBER: SMX14SLSFS010-1600LM-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5183	5183	5183	5183
5°	5178	5186	5183	5182
10°	5182	5182	5179	5177
15°	5170	5175	5171	5160
20°	5148	5160	5153	5149
25°	5135	5143	5130	5130
30°	5111	5126	5107	5101
35°	5078	5099	5082	5071
40°	5040	5063	5049	5036
45°	4992	5027	5012	4992
50°	4942	4976	4950	4934
55°	4857	4896	4877	4860
60°	4749	4794	4769	4747
65°	4588	4638	4621	4576
70°	4321	4400	4388	4326
75°	3927	4019	4022	3930
80°	3286	3418	3405	3291
85°	2249	2376	2367	2249

TEST NUMBER: P869674
 CATALOG NUMBER: SMX14SLSFS010-1600LM-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	3.2
10°-20°	178.3	9.3
20°-30°	271.5	14.2
30°-40°	329.8	17.2
40°-50°	345.5	18.0
50°-60°	316.0	16.5
60°-70°	243.3	12.7
70°-80°	137.6	7.2
80°-90°	32.0	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°	511.9	26.7
0°-40°	841.7	43.9
0°-60°	1503.2	78.5
0°-90°	1916.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1916.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	656	656	656	656	656	
5°	653	654	653	653	653	62
15°	632	632	632	631	632	178
25°	589	590	588	588	589	271
35°	526	528	527	526	526	329
45°	447	450	448	447	447	345
55°	352	355	354	353	352	315
65°	245	248	247	245	245	242
75°	129	132	132	129	129	136
85°	25	26	26	25	25	31
90°	0	0	0	0	0	

TEST NUMBER: P869674
 CATALOG NUMBER: SMX14SLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	655.8	655.8	655.8	655.8	655.8	655.8	655.8	655.8	655.8	655.8	655.8
0.5°	655.5	656.6	654.9	655.6	656.3	655.9	656.0	655.9	655.6	656.3	654.2
1°	655.5	656.8	655.2	655.3	656.3	655.7	655.6	655.5	655.7	655.7	654.3
1.5°	655.1	656.1	654.9	655.0	656.2	655.5	656.0	655.1	655.4	655.8	654.4
2°	655.1	656.0	654.7	655.1	656.0	655.1	655.8	654.9	655.6	656.0	654.3
2.5°	654.8	655.9	654.6	654.5	656.0	655.4	655.5	654.8	654.9	655.8	654.2
3°	653.9	655.6	653.9	654.2	655.4	655.0	655.1	654.7	654.7	655.1	654.0
3.5°	653.6	655.0	654.0	654.0	655.1	654.4	654.7	654.4	654.3	655.1	653.8
4°	653.5	654.4	653.3	653.3	655.1	654.3	654.3	654.3	654.0	654.5	653.6
4.5°	653.1	654.2	652.9	653.0	654.2	653.8	653.9	653.6	653.9	654.8	652.7
5°	652.6	653.8	652.0	652.9	653.6	653.4	653.8	653.0	653.3	653.9	652.5
5.5°	652.3	653.0	651.9	652.2	653.0	652.9	653.4	652.1	652.6	653.2	652.0
6°	651.9	652.4	651.3	651.7	652.5	651.9	652.5	651.7	651.9	652.3	651.5
6.5°	651.4	652.2	650.5	651.0	651.9	650.8	651.9	651.2	651.0	651.6	650.5
7°	650.6	651.4	649.9	650.4	651.0	650.5	650.6	650.2	650.6	650.7	649.7
7.5°	649.9	650.4	648.8	649.3	650.2	649.6	649.9	649.4	649.7	650.2	648.9
8°	648.8	649.5	648.1	648.6	649.3	648.7	649.3	648.7	649.0	649.4	648.0
8.5°	648.1	648.8	647.9	647.5	648.4	648.1	648.4	647.3	648.1	648.1	646.8
9°	647.5	648.0	646.7	646.8	647.5	647.0	647.9	646.4	647.1	647.5	646.0
9.5°	646.6	646.8	645.7	645.9	646.6	645.7	646.6	645.6	646.0	646.8	645.3
10°	645.7	645.3	644.6	645.0	645.7	645.3	645.7	644.7	645.3	645.7	644.7
10.5°	644.9	644.6	643.3	643.9	645.3	644.1	644.5	643.5	643.9	644.4	643.4
11°	643.9	643.1	642.6	643.0	644.0	643.1	643.9	642.2	642.8	643.7	642.0
11.5°	642.7	642.2	641.0	641.5	642.8	642.3	643.0	641.1	641.4	642.0	640.9
12°	641.3	641.4	639.9	640.8	641.5	640.9	641.2	639.6	640.4	640.4	639.8
12.5°	640.0	640.3	639.1	639.3	640.5	640.1	639.9	638.5	639.1	639.1	638.2
13°	638.8	639.1	637.8	638.1	638.9	638.6	638.6	637.3	637.6	637.9	636.8
13.5°	637.3	637.9	636.8	636.2	637.7	636.7	636.4	635.7	636.5	636.8	635.4
14°	635.6	636.3	635.3	634.8	636.0	635.4	635.1	633.9	635.2	635.2	633.6
14.5°	633.6	634.5	633.9	633.2	634.1	633.9	634.1	632.4	633.1	633.9	631.8
15°	631.8	633.2	632.7	632.0	632.5	632.7	632.8	630.3	631.9	632.4	630.7
15.5°	629.8	631.6	631.4	629.8	631.0	631.0	631.0	628.8	629.9	630.8	629.0
16°	628.0	629.3	629.6	628.1	628.9	628.9	628.8	627.8	628.0	628.7	627.6
16.5°	626.1	627.2	627.8	626.6	627.5	627.2	626.9	626.1	626.3	626.9	626.0
17°	624.4	625.3	626.3	624.5	625.5	625.2	625.3	624.5	624.5	624.7	624.3
17.5°	622.4	623.3	624.5	622.2	623.4	623.3	623.7	622.5	622.2	623.1	622.5
18°	620.6	621.0	622.7	620.7	621.6	621.6	621.8	620.4	620.2	620.8	620.3
18.5°	618.5	619.2	621.0	618.9	619.9	619.4	619.8	618.9	618.2	619.2	618.3
19°	616.4	616.9	618.7	616.7	617.5	617.8	617.9	617.1	616.4	617.1	616.6
19.5°	614.4	614.8	616.6	614.3	615.5	615.9	615.7	614.8	614.9	615.2	614.9
20°	612.1	612.9	614.2	612.4	613.5	613.9	613.8	612.9	612.6	613.1	612.6
20.5°	610.2	611.2	612.3	610.1	611.8	612.1	611.7	610.6	610.6	610.7	610.7
21°	608.0	608.5	610.2	608.3	609.6	609.5	609.5	608.8	608.3	608.6	608.1
21.5°	605.6	606.4	607.7	605.7	607.2	606.8	606.8	606.4	605.8	606.3	605.7
22°	603.6	604.1	604.4	603.7	604.9	604.2	604.6	604.6	603.7	603.7	603.3

TEST NUMBER: P869674
 CATALOG NUMBER: SMX14SLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	601.4	602.0	602.8	601.4	602.6	601.8	602.4	601.9	601.2	601.2	600.7
23°	599.1	599.6	600.3	598.8	600.3	599.5	600.1	599.2	599.1	598.7	597.9
23.5°	597.0	597.4	597.9	596.5	597.8	597.3	597.6	596.7	596.1	596.1	596.1
24°	594.7	594.8	595.1	594.2	595.2	595.1	595.3	594.3	593.7	594.2	593.4
24.5°	591.9	592.2	592.8	591.6	592.8	592.7	593.1	592.0	591.1	592.0	591.1
25°	588.8	589.9	590.3	588.8	589.8	590.1	590.3	589.5	588.2	588.9	588.4
25.5°	586.2	587.4	587.5	586.2	587.5	587.4	587.4	586.4	586.2	586.2	586.1
26°	583.1	584.4	584.5	583.1	584.9	584.8	584.9	583.8	583.4	584.0	583.5
26.5°	580.8	581.7	582.1	580.5	582.4	581.8	582.2	580.6	580.3	580.9	580.3
27°	578.1	579.1	578.8	578.2	579.8	579.1	579.8	578.3	577.5	578.0	577.9
27.5°	575.2	576.1	576.1	575.4	576.7	576.1	577.0	575.5	575.0	575.4	574.7
28°	572.2	572.9	573.1	572.4	573.9	573.6	573.7	572.5	571.9	572.8	572.2
28.5°	569.2	570.0	570.0	570.1	571.0	570.5	570.7	570.0	568.6	570.0	569.2
29°	566.1	567.1	567.4	566.9	567.6	567.3	567.6	566.9	565.4	567.0	565.6
29.5°	563.1	563.9	564.2	564.1	564.6	564.3	564.9	563.6	562.7	564.3	562.5
30°	560.0	560.7	561.1	560.9	561.7	561.6	561.9	560.7	559.6	560.6	559.3
30.5°	556.9	557.7	558.2	558.2	558.5	558.5	558.5	557.7	556.4	557.4	556.3
31°	554.0	554.4	554.5	555.3	555.1	555.4	555.0	554.5	553.1	554.4	553.4
31.5°	550.7	551.4	551.6	552.0	551.8	552.1	552.0	551.1	549.8	550.9	550.1
32°	547.1	548.3	548.4	548.5	548.3	548.9	548.8	547.8	546.5	547.6	546.9
32.5°	543.9	545.1	545.4	545.6	545.6	545.7	546.0	544.9	543.8	544.8	543.5
33°	540.1	541.6	541.6	542.2	542.4	542.2	542.4	541.5	540.5	541.5	540.5
33.5°	537.0	538.4	538.7	538.8	538.9	538.4	539.3	538.0	537.0	538.4	537.0
34°	533.6	535.2	535.1	535.5	535.5	535.2	536.1	534.3	533.4	534.3	533.5
34.5°	530.2	531.2	531.6	532.0	532.1	531.9	532.9	530.6	530.2	530.8	530.4
35°	526.3	526.9	527.8	528.3	528.5	528.5	529.5	527.6	526.7	527.2	526.7
35.5°	523.1	523.6	524.2	524.4	525.2	525.3	525.8	523.9	523.4	523.5	523.1
36°	519.5	520.0	520.3	520.9	521.4	521.2	522.3	520.1	519.6	519.9	519.5
36.5°	515.5	516.9	516.7	517.3	517.8	517.3	518.6	516.4	515.7	516.0	515.3
37°	511.5	512.9	513.3	513.7	514.1	514.0	514.9	512.3	511.7	512.5	512.0
37.5°	507.9	509.4	509.8	510.0	510.1	510.1	510.8	509.0	508.0	508.8	508.4
38°	504.1	505.8	505.9	506.0	506.5	506.1	506.7	505.3	504.8	505.3	504.8
38.5°	500.3	501.7	501.9	502.0	502.5	502.1	503.0	501.5	501.0	501.2	501.2
39°	496.4	498.1	497.9	498.1	498.7	498.3	499.2	497.5	497.2	497.3	496.9
39.5°	492.5	493.9	494.0	493.8	494.8	495.1	495.0	493.7	493.6	493.3	493.0
40°	488.5	489.6	490.0	490.0	490.7	491.4	491.1	490.3	489.4	489.6	489.2
40.5°	484.7	486.0	486.1	485.7	486.6	487.4	487.5	486.4	485.4	485.6	485.1
41°	480.6	482.0	482.1	481.9	483.0	483.3	483.3	482.3	481.1	481.6	481.2
41.5°	476.9	477.8	478.2	477.5	478.9	479.7	479.6	478.3	477.5	477.6	477.5
42°	472.6	473.5	474.0	473.5	474.4	475.3	475.2	474.4	473.9	473.3	473.3
42.5°	468.1	469.4	470.1	469.3	470.5	471.2	470.8	470.2	469.5	469.0	469.1
43°	464.0	465.1	466.0	465.1	466.5	466.8	466.7	465.9	465.2	464.7	465.0
43.5°	459.6	461.1	461.5	461.0	462.3	462.3	462.6	461.7	461.1	460.5	460.6
44°	455.3	456.8	457.3	456.9	458.0	458.2	458.3	457.5	456.7	456.2	456.5
44.5°	451.1	452.3	452.9	452.3	453.8	454.1	454.1	453.3	452.5	452.0	452.1

TEST NUMBER: P869674
 CATALOG NUMBER: SMX14SLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	446.6	448.1	448.8	448.1	449.7	449.9	449.5	448.9	448.4	448.0	447.5
45.5°	441.9	443.6	444.6	443.8	445.5	445.6	445.0	444.8	444.0	443.5	443.0
46°	437.7	439.7	439.9	439.6	440.9	440.9	440.8	440.2	439.3	438.9	438.8
46.5°	433.8	435.1	435.4	435.2	436.4	436.5	436.7	435.6	434.9	435.0	434.2
47°	429.5	430.6	430.8	430.7	431.9	432.0	432.2	431.0	430.6	430.2	429.7
47.5°	425.2	426.4	426.1	426.0	427.4	427.8	427.4	426.5	426.1	425.6	425.0
48°	420.4	421.6	421.4	421.6	422.9	423.4	423.0	422.1	421.2	421.3	420.4
48.5°	415.7	417.0	417.0	416.7	418.5	418.5	418.5	417.6	416.5	416.7	416.1
49°	411.0	412.4	412.2	412.2	414.0	413.9	413.7	412.9	412.2	412.2	411.5
49.5°	406.4	407.8	407.7	407.4	409.4	409.0	409.1	408.6	407.4	407.8	406.8
50°	401.9	403.0	403.0	402.7	404.7	404.7	404.5	403.6	402.6	402.9	402.4
50.5°	396.7	398.3	398.3	398.0	399.9	399.8	399.7	399.0	397.9	398.1	397.7
51°	392.1	393.4	393.3	393.1	394.9	394.9	395.2	394.0	393.2	393.4	393.2
51.5°	387.2	388.6	388.7	388.5	390.2	390.0	390.3	389.2	388.3	388.6	387.9
52°	382.5	384.0	383.7	383.6	385.2	385.4	385.5	384.3	383.1	383.7	383.1
52.5°	377.5	378.8	378.8	378.8	380.5	380.8	380.5	379.5	378.5	379.2	378.2
53°	372.6	374.0	373.7	373.6	375.4	375.7	375.4	374.5	373.9	374.2	373.6
53.5°	367.5	368.9	368.8	368.5	370.3	370.5	370.2	369.9	368.9	369.7	368.5
54°	362.5	363.5	363.7	363.5	365.3	365.5	365.3	364.9	363.8	364.3	363.8
54.5°	357.2	358.4	358.8	358.6	360.4	360.4	360.3	359.6	358.7	359.2	359.0
55°	352.5	353.6	353.2	353.8	355.3	355.4	355.4	354.7	353.9	354.2	354.1
55.5°	347.7	348.5	348.4	348.5	350.1	350.6	350.0	349.3	348.8	349.6	348.9
56°	342.4	343.5	343.2	343.6	345.1	345.6	345.6	344.6	343.9	344.3	343.8
56.5°	337.4	338.3	338.2	338.4	340.0	340.5	340.4	339.3	338.6	339.1	338.5
57°	331.9	332.8	333.0	333.4	334.8	335.4	335.1	334.3	333.2	333.9	333.5
57.5°	326.4	327.5	327.7	328.0	329.7	329.9	329.9	329.0	328.2	328.7	328.5
58°	321.5	322.3	322.4	322.5	324.2	324.8	324.2	324.0	322.9	323.2	323.5
58.5°	316.1	317.2	317.3	317.3	319.1	319.7	318.6	318.6	317.8	318.0	318.2
59°	310.7	312.0	311.5	311.6	314.0	314.0	313.6	313.3	312.6	313.0	312.8
59.5°	305.3	306.3	306.1	306.3	308.8	308.5	308.3	307.9	307.0	307.7	307.4
60°	300.4	300.9	300.6	300.8	303.3	303.2	303.0	302.9	301.7	302.2	302.0
60.5°	295.3	295.5	295.4	295.1	297.8	297.8	297.2	297.2	295.9	296.8	296.6
61°	289.4	289.8	290.0	289.6	292.3	292.8	291.9	292.2	291.0	291.3	291.0
61.5°	284.0	284.5	284.7	284.1	286.7	287.3	286.4	286.5	285.6	286.1	285.6
62°	278.5	279.0	279.4	279.0	281.4	281.8	281.5	281.2	280.3	280.7	280.6
62.5°	273.1	273.2	273.8	273.2	275.6	276.1	275.8	275.7	274.7	275.1	274.9
63°	267.3	267.6	268.2	267.9	270.0	270.9	270.3	270.2	269.2	269.5	269.1
63.5°	261.9	262.4	262.6	262.4	264.6	265.3	264.8	264.8	263.9	264.0	263.8
64°	256.1	256.7	257.0	256.8	259.2	259.7	259.2	258.9	258.3	258.5	258.1
64.5°	250.8	251.4	251.6	251.1	253.5	253.7	253.4	253.1	252.7	252.7	252.5
65°	245.3	245.8	245.7	245.6	248.0	248.5	248.1	247.6	247.1	247.4	247.1
65.5°	239.5	239.9	240.0	239.5	242.7	242.4	242.2	241.8	241.3	241.8	241.7
66°	233.8	234.2	234.2	233.7	236.9	236.7	236.0	236.0	235.5	236.2	236.0
66.5°	227.9	228.4	228.1	228.1	231.0	230.9	230.6	230.3	230.1	230.6	230.0
67°	221.9	222.4	222.5	222.4	225.1	225.4	225.0	224.8	224.3	224.7	224.6

TEST NUMBER: P869674
 CATALOG NUMBER: SMX14SLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	216.3	216.8	216.7	216.7	219.3	219.6	219.1	219.0	218.7	219.0	218.7
68°	210.5	211.0	210.9	211.0	213.6	214.0	213.5	213.2	213.4	213.3	212.9
68.5°	204.7	205.1	205.1	205.1	208.0	208.3	207.8	207.5	207.8	207.7	207.1
69°	199.0	199.4	199.3	199.1	202.4	202.5	202.0	201.7	201.7	201.6	201.0
69.5°	192.9	193.4	193.5	193.3	196.3	196.6	196.2	195.7	195.8	195.8	195.4
70°	187.0	187.7	187.5	187.3	190.4	190.8	190.1	189.8	189.9	190.1	189.4
70.5°	181.2	181.8	181.3	181.6	184.7	185.0	184.4	184.2	184.4	184.1	183.8
71°	175.4	175.7	175.5	175.6	178.8	179.2	178.3	178.5	178.3	178.3	178.0
71.5°	169.8	170.0	169.7	169.5	172.9	173.0	172.6	172.4	172.7	172.3	172.0
72°	163.9	164.0	163.8	163.6	166.9	167.2	166.7	166.7	166.9	166.5	166.2
72.5°	157.7	158.4	158.1	157.6	161.2	161.3	161.1	160.8	161.0	160.7	160.4
73°	152.0	152.4	152.2	152.0	155.3	155.5	155.2	155.0	155.0	154.9	154.6
73.5°	146.2	146.6	146.2	146.2	149.6	149.9	149.7	149.4	149.3	149.2	149.0
74°	140.2	140.6	140.5	140.4	143.7	144.1	144.0	143.4	143.5	143.2	143.0
74.5°	134.4	135.0	134.5	134.6	137.8	138.2	137.7	137.6	137.6	137.6	137.3
75°	128.6	129.0	128.8	128.6	131.6	132.1	132.0	131.7	131.7	131.7	131.6
75.5°	122.8	122.9	122.8	122.7	125.8	126.3	125.9	125.9	125.9	125.9	125.8
76°	117.0	117.2	117.0	117.1	120.0	120.5	120.0	120.1	120.1	120.0	119.9
76.5°	111.2	111.4	111.5	111.2	114.3	114.5	114.3	114.4	114.3	114.3	114.3
77°	105.4	105.6	105.3	105.4	108.5	108.9	108.7	108.5	108.5	108.6	108.6
77.5°	99.7	100.1	99.9	99.9	102.7	103.1	102.8	102.9	102.8	103.0	103.0
78°	94.1	94.4	94.1	94.2	97.1	97.3	97.2	97.0	96.8	97.3	97.2
78.5°	88.6	88.8	88.5	88.7	91.7	91.7	91.7	91.4	91.1	91.5	91.6
79°	83.0	83.2	83.0	83.4	86.3	86.4	86.1	86.1	85.7	86.1	86.0
79.5°	77.6	77.8	77.6	77.8	80.8	80.7	80.5	80.5	80.3	80.7	80.7
80°	72.2	72.3	72.2	72.2	75.1	75.3	74.9	74.9	74.8	75.2	75.1
80.5°	66.9	66.9	66.9	66.7	69.6	70.0	69.7	69.6	69.5	69.8	69.9
81°	61.7	61.8	61.6	61.2	64.3	64.6	64.5	64.2	64.3	64.6	64.6
81.5°	56.6	56.6	56.5	56.2	59.1	59.3	59.1	59.0	59.0	59.3	59.4
82°	51.7	51.7	51.6	51.2	54.0	54.2	54.0	53.8	53.8	54.1	54.4
82.5°	46.7	46.8	46.6	46.3	49.2	49.4	49.2	49.0	49.0	49.3	49.6
83°	41.8	42.0	41.8	41.4	44.3	44.4	44.4	44.1	44.1	44.5	44.8
83.5°	37.2	37.4	37.1	36.9	39.3	39.6	39.4	39.4	39.4	39.6	40.0
84°	32.9	33.0	32.8	32.4	34.8	34.9	34.9	34.7	34.7	35.0	35.3
84.5°	28.8	28.8	28.7	28.4	30.5	30.8	30.5	30.4	30.3	30.6	30.9
85°	24.8	24.7	24.7	24.3	26.2	26.4	26.3	26.2	26.1	26.3	26.6
85.5°	21.1	21.1	21.1	20.8	22.2	22.3	22.2	22.2	22.1	22.3	22.6
86°	17.6	17.6	17.5	17.2	19.0	19.0	19.0	18.9	18.9	19.1	19.3
86.5°	14.2	14.3	14.2	14.0	15.8	15.8	15.9	15.6	15.7	15.9	16.0
87°	11.0	11.0	11.1	10.8	12.6	12.7	12.7	12.5	12.5	12.7	12.8
87.5°	8.1	8.0	8.0	7.8	9.6	9.6	9.6	9.6	9.5	9.7	9.9
88°	5.6	5.7	5.6	5.5	7.0	7.0	7.0	6.9	6.9	7.1	7.3
88.5°	3.8	3.8	3.8	3.6	4.7	5.0	4.7	4.7	4.6	4.8	4.9
89°	2.3	2.4	2.4	2.3	2.8	2.9	2.8	2.8	2.6	2.9	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: P869674
CATALOG NUMBER: SMX14SLSFS010-1600LM-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: P869674
 CATALOG NUMBER: SMX14SLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	655.8	655.8	655.8	655.8	655.8	655.8
0.5°	655.2	656.7	656.1	655.8	655.6	655.5
1°	655.1	656.5	656.7	655.5	655.2	655.5
1.5°	655.3	656.7	656.2	655.9	654.8	655.1
2°	654.8	656.0	655.7	655.5	655.0	655.1
2.5°	655.0	655.7	655.3	654.9	655.3	654.8
3°	654.7	654.9	654.7	654.7	655.0	653.9
3.5°	654.0	654.3	654.7	654.1	654.8	653.6
4°	653.9	654.0	654.7	653.4	654.1	653.5
4.5°	653.3	653.4	653.8	653.2	653.8	653.1
5°	652.3	653.1	652.9	652.9	652.9	652.6
5.5°	651.6	652.4	652.4	653.0	652.4	652.3
6°	650.6	651.7	651.4	652.1	651.8	651.9
6.5°	650.3	650.8	650.7	651.6	650.7	651.4
7°	649.6	650.2	649.9	650.5	649.9	650.6
7.5°	649.5	649.7	649.3	649.5	649.7	649.9
8°	648.2	649.1	648.1	648.8	648.5	648.8
8.5°	647.2	648.2	647.7	648.0	647.3	648.1
9°	646.2	647.0	646.9	646.8	646.6	647.5
9.5°	644.8	646.3	645.6	645.8	645.6	646.6
10°	644.3	645.1	644.3	644.8	644.8	645.7
10.5°	643.0	643.9	643.5	643.7	644.2	644.9
11°	641.8	642.2	642.6	642.4	642.8	643.9
11.5°	640.6	640.8	641.7	640.7	641.8	642.7
12°	639.3	639.8	640.5	639.7	640.6	641.3
12.5°	638.1	638.5	639.1	639.0	640.1	640.0
13°	637.1	637.2	637.8	637.5	638.5	638.8
13.5°	635.6	635.5	636.0	636.4	636.9	637.3
14°	634.2	633.6	634.2	635.5	635.5	635.6
14.5°	632.3	632.0	632.3	633.7	633.6	633.6
15°	631.0	630.6	630.5	632.4	631.8	631.8
15.5°	629.2	629.0	629.0	631.1	630.1	629.8
16°	627.6	627.4	627.0	629.6	627.8	628.0
16.5°	625.8	625.6	625.6	627.8	626.2	626.1
17°	623.9	623.8	623.8	625.6	624.3	624.4
17.5°	622.0	622.1	621.6	623.7	622.1	622.4
18°	620.2	620.2	620.1	621.9	620.5	620.6
18.5°	618.4	618.4	618.1	619.5	618.1	618.5
19°	616.6	616.6	616.2	617.5	615.8	616.4
19.5°	614.2	614.4	614.6	615.3	613.9	614.4
20°	612.2	612.2	613.0	613.0	612.0	612.1
20.5°	609.9	610.0	610.9	610.9	610.2	610.2
21°	607.7	607.7	608.6	608.9	608.1	608.0
21.5°	605.5	605.4	606.8	606.5	606.3	605.6
22°	603.4	603.4	604.8	604.1	603.8	603.6

TEST NUMBER: P869674
 CATALOG NUMBER: SMX14SLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	600.6	600.8	602.2	601.6	601.4	601.4
23°	598.5	598.5	599.4	598.9	599.0	599.1
23.5°	596.4	596.0	597.5	596.6	596.7	597.0
24°	593.8	593.4	595.2	593.7	593.8	594.7
24.5°	591.2	590.8	591.7	591.6	591.2	591.9
25°	588.3	588.3	589.2	588.5	588.3	588.8
25.5°	585.7	585.7	586.4	585.9	585.7	586.2
26°	582.6	583.0	583.2	582.9	582.8	583.1
26.5°	579.9	580.0	580.5	579.9	579.9	580.8
27°	577.2	577.2	577.9	577.2	577.2	578.1
27.5°	574.8	574.3	575.2	574.3	574.3	575.2
28°	571.7	571.1	572.4	571.4	571.2	572.2
28.5°	568.8	568.0	569.5	568.9	568.7	569.2
29°	565.7	565.2	566.6	565.6	565.4	566.1
29.5°	562.5	561.9	563.9	562.7	562.4	563.1
30°	559.4	558.9	560.7	559.5	558.9	560.0
30.5°	556.2	556.3	557.5	555.9	555.8	556.9
31°	552.8	552.8	553.7	553.0	552.7	554.0
31.5°	549.7	549.6	550.1	549.9	549.5	550.7
32°	546.6	546.7	546.7	546.4	546.0	547.1
32.5°	543.6	543.1	543.7	543.7	542.9	543.9
33°	540.2	540.2	540.1	540.1	539.5	540.1
33.5°	536.9	536.7	537.1	536.6	536.3	537.0
34°	533.2	533.1	533.2	533.5	532.5	533.6
34.5°	530.0	529.4	529.9	530.2	529.1	530.2
35°	526.7	525.6	526.0	526.7	525.8	526.3
35.5°	523.1	521.8	522.4	523.1	522.3	523.1
36°	519.3	518.5	518.8	519.2	518.5	519.5
36.5°	515.7	514.8	515.1	515.4	515.1	515.5
37°	512.0	511.2	511.4	511.6	511.5	511.5
37.5°	508.4	507.1	507.5	508.2	507.8	507.9
38°	504.8	503.1	503.8	504.3	504.4	504.1
38.5°	501.2	499.2	500.3	500.0	500.3	500.3
39°	497.3	495.7	496.4	496.3	496.3	496.4
39.5°	493.4	491.8	492.7	492.4	492.4	492.5
40°	489.3	488.1	488.7	488.5	488.3	488.5
40.5°	485.1	484.3	484.6	484.4	484.6	484.7
41°	481.1	480.9	480.8	480.7	480.6	480.6
41.5°	477.0	476.6	476.9	476.9	477.1	476.9
42°	472.9	472.4	472.6	472.8	473.3	472.6
42.5°	468.8	468.0	468.7	468.6	468.4	468.1
43°	464.6	463.8	464.1	464.3	464.0	464.0
43.5°	460.8	459.5	460.4	459.9	459.8	459.6
44°	456.4	455.0	456.2	455.5	455.4	455.3
44.5°	452.3	451.1	451.6	451.2	451.8	451.1

TEST NUMBER: P869674
 CATALOG NUMBER: SMX14SLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	447.9	446.6	447.3	447.0	447.1	446.6
45.5°	443.7	442.2	442.9	442.6	442.2	441.9
46°	439.1	437.8	438.4	438.3	437.7	437.7
46.5°	434.6	433.2	434.3	433.7	433.2	433.8
47°	430.1	428.4	430.1	429.4	429.1	429.5
47.5°	425.5	423.8	425.5	424.7	425.0	425.2
48°	420.9	419.4	420.7	420.1	420.7	420.4
48.5°	416.7	415.1	416.1	415.5	416.0	415.7
49°	411.6	410.5	411.4	410.8	410.6	411.0
49.5°	407.1	406.0	406.8	406.1	405.9	406.4
50°	402.6	401.3	402.0	401.5	401.7	401.9
50.5°	397.9	396.6	397.2	396.7	396.7	396.7
51°	393.4	391.7	392.5	392.0	391.6	392.1
51.5°	388.4	386.7	387.4	387.2	386.6	387.2
52°	383.6	381.9	382.7	382.3	381.8	382.5
52.5°	378.5	376.8	377.8	377.8	377.0	377.5
53°	373.8	372.2	372.6	372.7	372.2	372.6
53.5°	369.0	367.4	367.9	367.7	367.2	367.5
54°	364.1	362.3	362.4	362.6	362.6	362.5
54.5°	359.0	357.3	357.7	357.1	357.1	357.2
55°	354.0	352.7	352.7	351.9	352.2	352.5
55.5°	349.0	347.6	347.8	346.9	347.2	347.7
56°	344.4	342.4	342.6	341.6	342.1	342.4
56.5°	339.0	337.2	337.4	336.8	337.1	337.4
57°	333.8	331.8	332.2	331.5	331.8	331.9
57.5°	328.6	326.8	327.1	326.4	326.4	326.4
58°	323.5	321.4	321.5	321.8	321.1	321.5
58.5°	318.2	316.2	316.2	316.5	316.3	316.1
59°	312.9	310.8	310.8	311.1	311.1	310.7
59.5°	307.3	305.5	305.3	305.5	305.7	305.3
60°	301.7	300.3	300.1	300.1	300.1	300.4
60.5°	296.7	294.9	294.7	294.6	294.4	295.3
61°	291.5	289.3	289.6	288.9	289.0	289.4
61.5°	286.1	283.8	284.3	283.4	283.8	284.0
62°	280.5	278.6	278.8	277.9	278.0	278.5
62.5°	275.0	273.0	273.2	272.6	272.4	273.1
63°	269.5	267.3	267.5	267.3	266.8	267.3
63.5°	263.7	261.7	262.1	261.4	261.2	261.9
64°	258.6	256.0	256.4	255.8	255.7	256.1
64.5°	252.5	250.5	250.9	250.4	250.3	250.8
65°	247.3	244.7	245.1	244.7	244.5	245.3
65.5°	241.5	239.1	239.3	238.9	239.1	239.5
66°	235.6	233.3	233.3	233.4	233.4	233.8
66.5°	229.9	227.5	227.7	227.6	228.0	227.9
67°	224.6	221.6	222.1	221.7	222.5	221.9

TEST NUMBER: P869674
 CATALOG NUMBER: SMX14SLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	218.6	215.9	216.7	216.1	216.7	216.3
68°	212.9	210.2	210.8	210.2	210.4	210.5
68.5°	207.1	204.9	205.0	204.6	204.7	204.7
69°	201.2	199.1	199.3	199.1	199.1	199.0
69.5°	195.4	193.1	193.5	193.1	193.2	192.9
70°	189.6	187.2	187.5	187.2	187.3	187.0
70.5°	184.2	181.4	181.7	181.6	181.7	181.2
71°	178.5	175.1	175.6	175.6	175.6	175.4
71.5°	172.4	169.6	169.9	169.6	169.6	169.8
72°	166.6	163.8	163.8	163.7	163.5	163.9
72.5°	160.8	158.0	158.1	158.0	157.4	157.7
73°	155.2	152.1	152.6	152.2	151.8	152.0
73.5°	149.4	146.2	146.8	146.3	146.1	146.2
74°	143.8	140.4	140.7	140.2	140.2	140.2
74.5°	137.8	134.6	134.9	134.4	134.2	134.4
75°	132.0	128.7	128.9	128.6	128.2	128.6
75.5°	126.0	123.0	123.1	122.6	122.4	122.8
76°	120.3	117.1	117.2	116.9	116.8	117.0
76.5°	114.7	111.2	111.4	111.2	111.1	111.2
77°	108.9	105.6	105.6	105.3	105.3	105.4
77.5°	103.1	100.2	99.9	99.8	99.9	99.7
78°	97.3	94.5	94.1	94.2	94.2	94.1
78.5°	91.7	89.0	88.6	88.6	88.7	88.6
79°	86.2	83.5	83.0	83.1	83.4	83.0
79.5°	80.7	77.8	77.8	77.6	78.0	77.6
80°	75.3	72.3	72.3	72.2	72.5	72.2
80.5°	70.0	67.1	67.1	67.1	66.9	66.9
81°	64.7	61.8	61.9	61.9	61.7	61.7
81.5°	59.4	56.6	56.9	57.0	56.6	56.6
82°	54.4	51.7	51.8	51.9	51.5	51.7
82.5°	49.6	46.8	47.1	46.8	46.6	46.7
83°	44.8	42.2	42.3	42.2	41.8	41.8
83.5°	40.0	37.6	37.6	37.5	37.1	37.2
84°	35.3	33.2	33.2	33.1	32.9	32.9
84.5°	30.9	28.9	28.9	28.9	28.8	28.8
85°	26.7	24.8	25.0	24.8	24.8	24.8
85.5°	22.6	21.2	21.3	21.2	21.2	21.1
86°	19.5	17.7	17.8	17.8	17.7	17.6
86.5°	16.1	14.3	14.5	14.4	14.3	14.2
87°	13.0	11.2	11.4	11.3	11.2	11.0
87.5°	10.1	8.1	8.3	8.3	8.2	8.1
88°	7.4	5.7	5.9	5.8	5.8	5.6
88.5°	5.0	3.8	3.9	3.9	3.9	3.8
89°	3.1	2.2	2.4	2.4	2.4	2.3
89.5°	1.6	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: P869674
CATALOG NUMBER: SMX14SLSFS010-1600LM-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)