

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: P869690

Luminaire Tested: **SMX14SLSFSD2W-1600LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869690
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14SLSFSD2W-1600LM-5000K
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

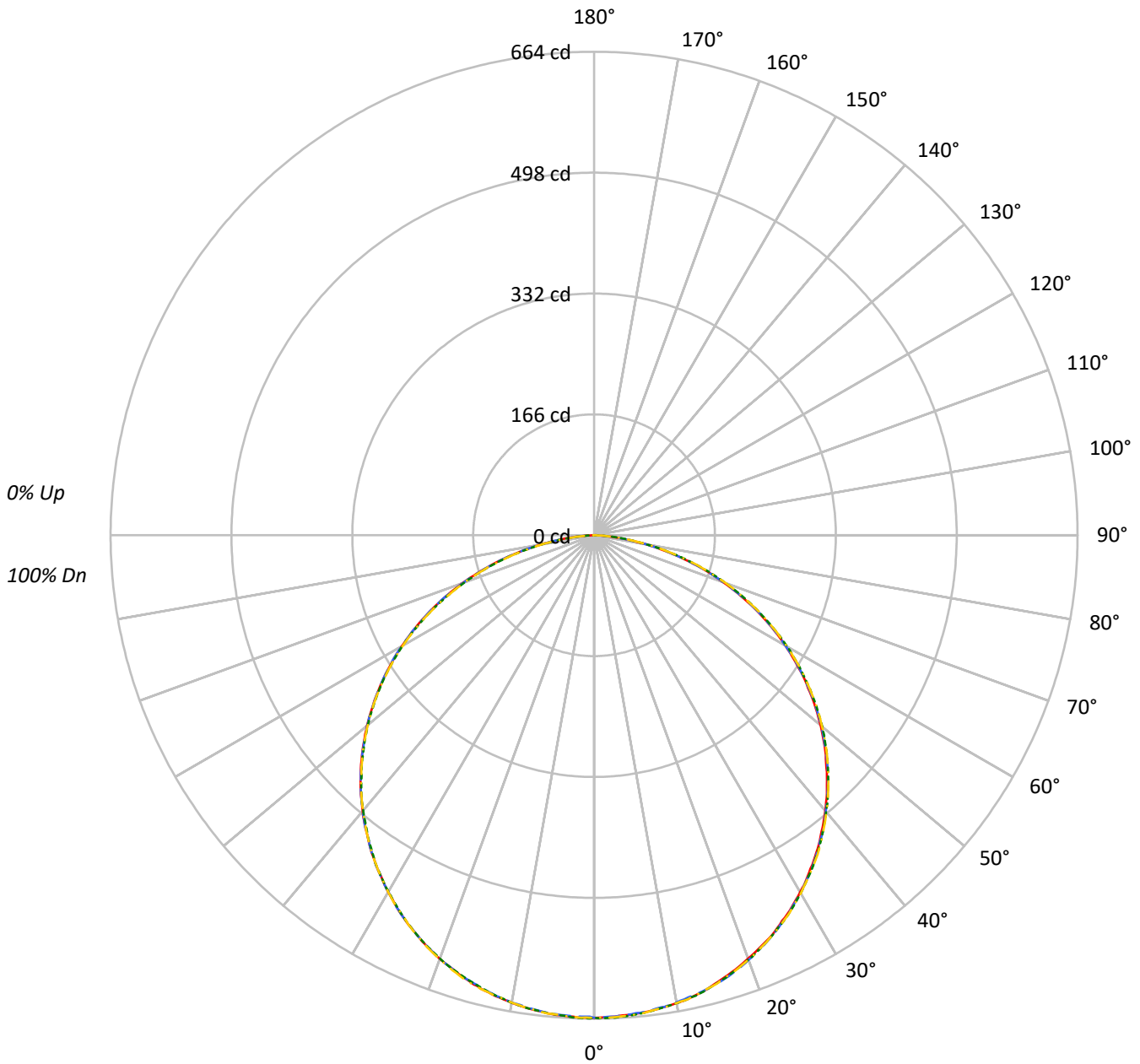
Lumens per Lamp: N/A
 Luminaire Lumens: 1936.6 lumens
 Efficiency: N/A
 Efficacy: 93.6 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 20.7
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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

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Luminous Intensity Polar Plot



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

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5239	5239	5239	5239
5°	5233	5241	5238	5237
10°	5238	5238	5233	5233
15°	5225	5231	5226	5216
20°	5203	5216	5207	5205
25°	5190	5198	5184	5185
30°	5166	5181	5162	5155
35°	5133	5153	5137	5125
40°	5094	5116	5103	5090
45°	5044	5080	5066	5044
50°	4995	5029	5003	4987
55°	4910	4948	4929	4911
60°	4799	4845	4821	4798
65°	4636	4689	4672	4625
70°	4368	4448	4437	4372
75°	3967	4061	4065	3973
80°	3323	3455	3441	3327
85°	2267	2403	2394	2276

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 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.2
10°-20°	180.2	9.3
20°-30°	274.4	14.2
30°-40°	333.3	17.2
40°-50°	349.2	18.0
50°-60°	319.3	16.5
60°-70°	245.9	12.7
70°-80°	139.1	7.2
80°-90°	32.3	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°	517.4	26.7
0°-40°	850.7	43.9
0°-60°	1519.3	78.5
0°-90°	1936.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1936.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	663	663	663	663	663	
5°	660	661	660	660	660	63
15°	638	639	639	637	638	180
25°	595	596	594	595	595	274
35°	532	534	532	531	532	333
45°	451	454	453	451	451	348
55°	356	359	358	356	356	318
65°	248	251	250	247	248	245
75°	130	133	133	130	130	137
85°	25	26	26	25	25	31
90°	0	0	0	0	0	

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 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8
0.5°	662.5	663.6	661.9	662.6	663.3	662.9	663.0	662.9	662.6	663.3	661.2
1°	662.5	663.8	662.2	662.3	663.3	662.7	662.6	662.5	662.7	662.7	661.3
1.5°	662.1	663.1	661.9	662.0	663.2	662.5	663.1	662.1	662.4	662.8	661.4
2°	662.1	663.0	661.6	662.1	663.0	662.1	662.8	661.9	662.6	663.0	661.3
2.5°	661.8	662.9	661.6	661.5	663.1	662.4	662.5	661.8	661.9	662.8	661.2
3°	660.9	662.6	660.9	661.2	662.4	662.0	662.1	661.7	661.6	662.1	661.0
3.5°	660.6	662.0	661.0	661.0	662.1	661.4	661.6	661.4	661.3	662.1	660.7
4°	660.5	661.4	660.2	660.2	662.1	661.3	661.3	661.3	661.0	661.5	660.6
4.5°	660.1	661.2	659.8	660.0	661.2	660.8	660.9	660.6	660.9	661.8	659.7
5°	659.6	660.7	659.0	659.8	660.6	660.4	660.7	660.0	660.2	660.9	659.5
5.5°	659.3	660.0	658.8	659.2	660.0	659.9	660.4	659.1	659.6	660.2	659.0
6°	658.8	659.3	658.3	658.7	659.5	658.8	659.5	658.7	658.8	659.3	658.4
6.5°	658.3	659.2	657.4	657.9	658.8	657.8	658.8	658.2	657.9	658.6	657.4
7°	657.6	658.3	656.9	657.4	657.9	657.4	657.5	657.2	657.6	657.7	656.6
7.5°	656.9	657.4	655.7	656.3	657.1	656.5	656.9	656.4	656.7	657.2	655.9
8°	655.7	656.4	655.0	655.5	656.2	655.6	656.2	655.6	655.9	656.4	654.9
8.5°	655.0	655.7	654.8	654.5	655.3	655.0	655.4	654.2	655.0	655.0	653.7
9°	654.4	655.0	653.6	653.7	654.4	653.9	654.8	653.3	654.0	654.4	652.9
9.5°	653.5	653.7	652.6	652.8	653.5	652.6	653.5	652.5	652.9	653.7	652.1
10°	652.6	652.2	651.5	651.9	652.6	652.2	652.6	651.6	652.1	652.6	651.6
10.5°	651.8	651.5	650.2	650.7	652.2	651.0	651.4	650.4	650.7	651.3	650.2
11°	650.7	650.0	649.4	649.8	650.9	650.0	650.7	649.1	649.7	650.6	648.8
11.5°	649.6	649.1	647.9	648.3	649.7	649.2	649.9	647.9	648.3	648.8	647.8
12°	648.2	648.3	646.8	647.6	648.3	647.8	648.0	646.4	647.3	647.3	646.6
12.5°	646.9	647.2	646.0	646.1	647.4	646.9	646.7	645.3	646.0	646.0	645.0
13°	645.6	646.0	644.6	644.9	645.7	645.4	645.4	644.1	644.4	644.7	643.6
13.5°	644.1	644.7	643.6	643.0	644.5	643.5	643.2	642.5	643.3	643.6	642.2
14°	642.4	643.1	642.1	641.6	642.8	642.2	641.9	640.7	642.0	642.0	640.4
14.5°	640.4	641.3	640.7	639.9	640.9	640.7	640.8	639.2	639.8	640.7	638.5
15°	638.5	640.0	639.5	638.8	639.3	639.5	639.6	637.0	638.7	639.2	637.4
15.5°	636.5	638.4	638.2	636.5	637.7	637.7	637.8	635.5	636.6	637.5	635.7
16°	634.7	636.0	636.4	634.8	635.6	635.6	635.5	634.5	634.7	635.5	634.3
16.5°	632.8	633.9	634.6	633.3	634.2	633.9	633.6	632.8	633.0	633.6	632.7
17°	631.1	632.0	633.0	631.2	632.2	631.9	632.0	631.2	631.2	631.4	631.0
17.5°	629.0	629.9	631.2	628.9	630.1	629.9	630.3	629.1	628.9	629.8	629.1
18°	627.2	627.6	629.3	627.3	628.2	628.2	628.4	627.0	626.8	627.4	627.0
18.5°	625.1	625.8	627.6	625.5	626.5	626.0	626.4	625.5	624.8	625.8	624.9
19°	623.0	623.5	625.3	623.3	624.1	624.4	624.5	623.6	623.0	623.7	623.2
19.5°	620.9	621.3	623.2	620.8	622.1	622.5	622.3	621.3	621.4	621.7	621.4
20°	618.6	619.4	620.8	618.9	620.1	620.4	620.3	619.4	619.1	619.6	619.1
20.5°	616.7	617.7	618.9	616.6	618.4	618.6	618.3	617.1	617.1	617.2	617.2
21°	614.5	615.0	616.7	614.8	616.1	616.0	616.0	615.3	614.8	615.1	614.6
21.5°	612.1	612.8	614.2	612.2	613.7	613.3	613.2	612.9	612.3	612.7	612.2
22°	610.0	610.5	610.8	610.1	611.3	610.7	611.1	611.1	610.2	610.2	609.8

TEST NUMBER: P869690
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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°	607.8	608.5	609.3	607.9	609.0	608.2	608.9	608.4	607.6	607.6	607.1
23°	605.5	606.1	606.7	605.2	606.7	605.9	606.5	605.6	605.5	605.1	604.3
23.5°	603.3	603.7	604.3	602.9	604.2	603.7	604.0	603.1	602.4	602.5	602.4
24°	601.0	601.2	601.4	600.5	601.6	601.4	601.7	600.7	600.0	600.5	599.8
24.5°	598.2	598.5	599.1	597.9	599.1	599.0	599.4	598.4	597.4	598.4	597.5
25°	595.1	596.2	596.6	595.1	596.1	596.4	596.6	595.8	594.5	595.2	594.7
25.5°	592.5	593.7	593.7	592.4	593.7	593.7	593.7	592.7	592.4	592.4	592.3
26°	589.3	590.6	590.8	589.3	591.1	591.0	591.2	590.0	589.6	590.3	589.7
26.5°	587.0	587.9	588.3	586.7	588.6	588.0	588.4	586.8	586.5	587.1	586.5
27°	584.2	585.3	585.0	584.4	586.0	585.2	586.0	584.5	583.7	584.2	584.1
27.5°	581.4	582.3	582.3	581.5	582.8	582.3	583.2	581.7	581.2	581.5	580.9
28°	578.3	579.0	579.2	578.5	580.0	579.7	579.8	578.6	578.0	578.9	578.3
28.5°	575.2	576.1	576.1	576.2	577.1	576.6	576.8	576.1	574.7	576.1	575.2
29°	572.1	573.2	573.4	572.9	573.7	573.3	573.7	572.9	571.4	573.0	571.7
29.5°	569.1	570.0	570.2	570.1	570.6	570.4	570.9	569.6	568.7	570.3	568.5
30°	566.0	566.7	567.1	566.9	567.7	567.6	567.9	566.7	565.6	566.6	565.2
30.5°	562.9	563.7	564.2	564.2	564.4	564.5	564.5	563.7	562.4	563.3	562.3
31°	560.0	560.3	560.5	561.2	561.0	561.4	561.0	560.5	559.1	560.3	559.3
31.5°	556.6	557.3	557.5	557.9	557.7	558.0	557.9	557.0	555.7	556.7	556.0
32°	552.9	554.2	554.3	554.3	554.2	554.8	554.7	553.6	552.4	553.4	552.8
32.5°	549.7	551.0	551.2	551.5	551.5	551.5	551.8	550.7	549.6	550.6	549.3
33°	545.8	547.4	547.4	548.0	548.2	548.0	548.2	547.2	546.3	547.3	546.3
33.5°	542.7	544.1	544.4	544.6	544.7	544.2	545.0	543.8	542.8	544.1	542.7
34°	539.3	540.9	540.8	541.2	541.2	540.9	541.8	540.0	539.1	540.1	539.2
34.5°	535.8	536.8	537.2	537.7	537.8	537.6	538.6	536.3	535.8	536.5	536.1
35°	532.0	532.5	533.4	533.9	534.1	534.2	535.2	533.3	532.4	532.8	532.3
35.5°	528.7	529.2	529.8	530.0	530.8	530.9	531.5	529.5	529.0	529.1	528.7
36°	525.0	525.6	525.8	526.5	527.0	526.8	527.8	525.7	525.1	525.4	525.0
36.5°	521.1	522.5	522.2	522.9	523.4	522.8	524.1	522.0	521.2	521.6	520.8
37°	516.9	518.3	518.7	519.2	519.6	519.5	520.4	517.8	517.2	518.0	517.4
37.5°	513.3	514.9	515.3	515.4	515.5	515.5	516.3	514.4	513.5	514.2	513.8
38°	509.5	511.2	511.3	511.4	511.9	511.5	512.1	510.7	510.2	510.6	510.2
38.5°	505.6	507.0	507.3	507.3	507.8	507.4	508.4	506.8	506.4	506.6	506.5
39°	501.7	503.4	503.2	503.5	504.0	503.6	504.5	502.8	502.6	502.6	502.2
39.5°	497.8	499.2	499.3	499.1	500.1	500.4	500.2	499.0	498.8	498.6	498.3
40°	493.7	494.8	495.2	495.2	495.9	496.6	496.4	495.5	494.6	494.8	494.5
40.5°	489.9	491.2	491.3	490.9	491.8	492.6	492.7	491.6	490.6	490.8	490.3
41°	485.7	487.1	487.3	487.0	488.2	488.5	488.4	487.4	486.2	486.8	486.4
41.5°	482.0	482.9	483.3	482.6	484.1	484.8	484.7	483.4	482.6	482.7	482.6
42°	477.6	478.6	479.1	478.6	479.5	480.4	480.3	479.4	478.9	478.4	478.4
42.5°	473.1	474.4	475.1	474.3	475.5	476.2	475.9	475.2	474.6	474.0	474.1
43°	468.9	470.1	471.0	470.1	471.5	471.8	471.7	470.8	470.2	469.7	470.0
43.5°	464.6	466.0	466.5	465.9	467.3	467.3	467.5	466.6	466.0	465.4	465.5
44°	460.2	461.7	462.2	461.7	462.9	463.1	463.2	462.4	461.6	461.1	461.3
44.5°	456.0	457.1	457.8	457.1	458.7	458.9	458.9	458.1	457.4	456.9	457.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	451.3	452.9	453.6	452.9	454.5	454.7	454.3	453.7	453.2	452.7	452.2
45.5°	446.6	448.4	449.4	448.5	450.3	450.3	449.8	449.5	448.7	448.3	447.7
46°	442.4	444.4	444.6	444.3	445.6	445.6	445.6	444.9	444.0	443.6	443.5
46.5°	438.5	439.8	440.0	439.9	441.1	441.2	441.3	440.3	439.5	439.6	438.9
47°	434.1	435.2	435.4	435.3	436.5	436.6	436.8	435.6	435.2	434.8	434.3
47.5°	429.8	430.9	430.7	430.5	431.9	432.3	432.0	431.0	430.6	430.2	429.5
48°	424.9	426.1	425.9	426.1	427.4	427.9	427.6	426.6	425.7	425.8	424.9
48.5°	420.1	421.4	421.4	421.2	422.9	422.9	422.9	422.1	420.9	421.1	420.5
49°	415.4	416.8	416.6	416.6	418.5	418.3	418.1	417.3	416.6	416.6	415.9
49.5°	410.8	412.2	412.0	411.8	413.8	413.3	413.5	412.9	411.8	412.2	411.1
50°	406.2	407.3	407.3	407.0	409.0	409.0	408.8	407.9	406.9	407.2	406.7
50.5°	401.0	402.6	402.5	402.3	404.2	404.1	404.0	403.3	402.2	402.4	401.9
51°	396.2	397.6	397.5	397.3	399.1	399.1	399.4	398.2	397.4	397.6	397.4
51.5°	391.4	392.8	392.9	392.6	394.3	394.2	394.5	393.4	392.4	392.8	392.0
52°	386.6	388.1	387.8	387.7	389.3	389.6	389.6	388.4	387.2	387.8	387.2
52.5°	381.5	382.9	382.9	382.9	384.6	384.8	384.6	383.5	382.5	383.3	382.3
53°	376.6	378.0	377.7	377.6	379.4	379.7	379.4	378.5	377.9	378.2	377.6
53.5°	371.5	372.9	372.7	372.5	374.3	374.4	374.2	373.9	372.9	373.6	372.5
54°	366.3	367.4	367.6	367.3	369.2	369.4	369.2	368.8	367.7	368.2	367.7
54.5°	361.0	362.2	362.6	362.5	364.3	364.3	364.1	363.5	362.5	363.0	362.8
55°	356.3	357.4	357.0	357.6	359.1	359.2	359.2	358.5	357.7	358.0	357.8
55.5°	351.4	352.2	352.1	352.2	353.9	354.4	353.7	353.0	352.5	353.3	352.6
56°	346.1	347.2	346.8	347.3	348.7	349.3	349.2	348.3	347.6	348.0	347.5
56.5°	341.0	341.9	341.8	342.1	343.6	344.1	344.0	342.9	342.2	342.7	342.1
57°	335.4	336.4	336.5	336.9	338.4	339.0	338.7	337.8	336.8	337.5	337.0
57.5°	329.9	331.0	331.2	331.5	333.2	333.4	333.5	332.5	331.7	332.2	332.0
58°	325.0	325.7	325.9	325.9	327.7	328.3	327.7	327.4	326.4	326.7	326.9
58.5°	319.5	320.6	320.7	320.7	322.5	323.1	322.0	322.0	321.2	321.4	321.6
59°	314.0	315.4	314.8	315.0	317.4	317.4	316.9	316.6	316.0	316.4	316.1
59.5°	308.6	309.6	309.3	309.6	312.1	311.8	311.6	311.2	310.3	311.0	310.7
60°	303.6	304.1	303.8	304.1	306.5	306.5	306.2	306.1	305.0	305.5	305.2
60.5°	298.4	298.6	298.5	298.3	301.0	301.0	300.3	300.3	299.1	299.9	299.8
61°	292.5	292.9	293.1	292.7	295.4	295.9	295.0	295.3	294.1	294.4	294.1
61.5°	287.0	287.5	287.8	287.1	289.8	290.3	289.4	289.6	288.7	289.2	288.6
62°	281.5	282.0	282.3	282.0	284.4	284.8	284.5	284.2	283.3	283.7	283.6
62.5°	276.0	276.1	276.7	276.1	278.5	279.0	278.7	278.6	277.6	278.0	277.8
63°	270.2	270.4	271.1	270.8	272.9	273.7	273.2	273.1	272.1	272.4	272.0
63.5°	264.7	265.2	265.4	265.2	267.4	268.1	267.6	267.6	266.7	266.8	266.6
64°	258.9	259.5	259.7	259.5	261.9	262.4	262.0	261.7	261.1	261.3	260.9
64.5°	253.5	254.1	254.3	253.8	256.2	256.4	256.2	255.8	255.4	255.4	255.2
65°	247.9	248.4	248.3	248.2	250.7	251.2	250.8	250.3	249.8	250.0	249.8
65.5°	242.1	242.4	242.5	242.1	245.3	245.0	244.8	244.4	243.9	244.4	244.3
66°	236.3	236.7	236.7	236.2	239.4	239.2	238.6	238.6	238.1	238.7	238.5
66.5°	230.3	230.9	230.5	230.5	233.4	233.4	233.1	232.8	232.5	233.0	232.4
67°	224.3	224.8	224.8	224.8	227.5	227.8	227.4	227.2	226.7	227.1	227.0

TEST NUMBER: P869690
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	218.6	219.1	219.1	219.0	221.6	222.0	221.5	221.3	221.0	221.4	221.0
68°	212.7	213.3	213.1	213.3	215.9	216.3	215.8	215.5	215.7	215.6	215.2
68.5°	206.9	207.3	207.3	207.2	210.2	210.6	210.0	209.7	210.0	209.9	209.3
69°	201.1	201.6	201.5	201.2	204.5	204.7	204.1	203.9	203.9	203.8	203.1
69.5°	194.9	195.4	195.6	195.4	198.4	198.7	198.2	197.8	197.9	197.9	197.5
70°	189.0	189.7	189.5	189.3	192.5	192.8	192.1	191.8	192.0	192.1	191.5
70.5°	183.1	183.7	183.2	183.5	186.7	187.0	186.4	186.2	186.4	186.1	185.8
71°	177.3	177.6	177.3	177.4	180.7	181.1	180.2	180.4	180.2	180.2	179.9
71.5°	171.6	171.8	171.5	171.3	174.7	174.9	174.5	174.3	174.5	174.1	173.9
72°	165.6	165.8	165.5	165.4	168.7	169.0	168.5	168.5	168.7	168.3	168.0
72.5°	159.4	160.1	159.8	159.3	162.9	163.1	162.8	162.5	162.7	162.4	162.1
73°	153.6	154.1	153.8	153.6	156.9	157.2	156.9	156.7	156.7	156.5	156.2
73.5°	147.8	148.2	147.8	147.8	151.2	151.5	151.3	151.0	150.9	150.7	150.6
74°	141.7	142.1	142.0	141.9	145.2	145.6	145.5	145.0	145.1	144.7	144.6
74.5°	135.9	136.5	136.0	136.0	139.3	139.7	139.2	139.1	139.0	139.0	138.8
75°	129.9	130.3	130.2	129.9	133.0	133.5	133.4	133.2	133.1	133.1	133.0
75.5°	124.2	124.2	124.2	124.0	127.1	127.6	127.3	127.3	127.2	127.2	127.1
76°	118.3	118.5	118.3	118.4	121.3	121.8	121.3	121.3	121.3	121.3	121.2
76.5°	112.3	112.6	112.7	112.3	115.6	115.7	115.5	115.6	115.6	115.5	115.6
77°	106.6	106.7	106.5	106.6	109.6	110.1	109.9	109.7	109.6	109.8	109.8
77.5°	100.8	101.2	100.9	100.9	103.7	104.2	103.9	104.0	103.9	104.1	104.1
78°	95.1	95.4	95.1	95.2	98.1	98.4	98.2	98.0	97.8	98.3	98.2
78.5°	89.5	89.7	89.5	89.6	92.7	92.7	92.7	92.3	92.1	92.5	92.6
79°	83.9	84.1	83.8	84.3	87.2	87.3	87.1	87.0	86.7	87.1	86.9
79.5°	78.4	78.6	78.5	78.6	81.7	81.6	81.4	81.4	81.1	81.5	81.5
80°	73.0	73.1	73.0	72.9	75.9	76.1	75.7	75.7	75.6	76.0	75.9
80.5°	67.6	67.7	67.6	67.4	70.4	70.8	70.5	70.4	70.2	70.5	70.6
81°	62.4	62.4	62.3	61.9	65.0	65.3	65.2	64.9	65.0	65.3	65.3
81.5°	57.2	57.2	57.1	56.8	59.7	60.0	59.7	59.6	59.6	60.0	60.1
82°	52.2	52.2	52.1	51.7	54.6	54.8	54.6	54.4	54.4	54.7	54.9
82.5°	47.2	47.3	47.1	46.8	49.7	49.9	49.7	49.6	49.5	49.8	50.1
83°	42.3	42.5	42.2	41.8	44.8	44.9	44.9	44.6	44.6	44.9	45.3
83.5°	37.6	37.7	37.5	37.3	39.7	40.1	39.8	39.8	39.8	40.1	40.4
84°	33.2	33.4	33.1	32.7	35.2	35.3	35.3	35.1	35.0	35.4	35.7
84.5°	29.1	29.1	29.0	28.7	30.8	31.1	30.8	30.7	30.6	30.9	31.2
85°	25.0	24.9	24.9	24.5	26.5	26.7	26.6	26.4	26.4	26.6	26.8
85.5°	21.3	21.3	21.3	21.0	22.5	22.6	22.5	22.5	22.4	22.6	22.9
86°	17.8	17.8	17.7	17.3	19.2	19.2	19.2	19.1	19.1	19.3	19.5
86.5°	14.4	14.5	14.4	14.1	15.9	15.9	16.0	15.8	15.9	16.1	16.2
87°	11.2	11.2	11.2	10.9	12.7	12.8	12.9	12.6	12.6	12.8	13.0
87.5°	8.2	8.1	8.1	7.8	9.7	9.7	9.7	9.7	9.6	9.8	10.0
88°	5.7	5.8	5.7	5.5	7.1	7.1	7.1	7.0	7.0	7.2	7.4
88.5°	3.8	3.9	3.8	3.6	4.8	5.0	4.8	4.7	4.6	4.9	5.0
89°	2.3	2.4	2.4	2.3	2.8	3.0	2.8	2.8	2.6	2.9	3.0
89.5°	1.3	1.3	1.3	1.2	1.4	1.5	1.4	1.2	1.2	1.3	1.4

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



TEST NUMBER: P869690
CATALOG NUMBER: SMX14SLSFSD2W-1600LM-5000K

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: P869690
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	662.8	662.8	662.8	662.8	662.8	662.8
0.5°	662.2	663.7	663.1	662.8	662.6	662.5
1°	662.1	663.5	663.7	662.5	662.2	662.5
1.5°	662.3	663.7	663.2	662.9	661.8	662.1
2°	661.8	663.1	662.7	662.5	662.0	662.1
2.5°	662.0	662.7	662.3	661.9	662.3	661.8
3°	661.6	661.9	661.7	661.7	662.0	660.9
3.5°	661.0	661.3	661.7	661.1	661.8	660.6
4°	660.9	661.0	661.6	660.4	661.1	660.5
4.5°	660.3	660.4	660.7	660.2	660.7	660.1
5°	659.3	660.1	659.8	659.9	659.8	659.6
5.5°	658.6	659.4	659.4	660.0	659.3	659.3
6°	657.6	658.7	658.3	659.1	658.8	658.8
6.5°	657.3	657.8	657.7	658.6	657.7	658.3
7°	656.5	657.1	656.9	657.4	656.9	657.6
7.5°	656.4	656.6	656.3	656.4	656.6	656.9
8°	655.1	656.0	655.0	655.7	655.5	655.7
8.5°	654.1	655.1	654.6	655.0	654.2	655.0
9°	653.1	653.9	653.8	653.7	653.5	654.4
9.5°	651.7	653.2	652.5	652.7	652.5	653.5
10°	651.2	652.0	651.2	651.7	651.7	652.6
10.5°	649.8	650.7	650.3	650.6	651.1	651.8
11°	648.7	649.1	649.5	649.3	649.7	650.7
11.5°	647.4	647.7	648.6	647.5	648.7	649.6
12°	646.1	646.6	647.4	646.5	647.4	648.2
12.5°	645.0	645.3	646.0	645.9	646.9	646.9
13°	643.9	644.0	644.6	644.3	645.3	645.6
13.5°	642.4	642.3	642.8	643.2	643.7	644.1
14°	641.0	640.4	641.0	642.3	642.3	642.4
14.5°	639.1	638.8	639.0	640.5	640.4	640.4
15°	637.7	637.4	637.2	639.2	638.5	638.5
15.5°	635.9	635.7	635.7	637.9	636.9	636.5
16°	634.3	634.1	633.7	636.4	634.5	634.7
16.5°	632.5	632.2	632.2	634.6	632.9	632.8
17°	630.6	630.4	630.4	632.3	631.0	631.1
17.5°	628.7	628.8	628.3	630.3	628.8	629.0
18°	626.8	626.9	626.7	628.5	627.1	627.2
18.5°	625.0	625.1	624.7	626.1	624.7	625.1
19°	623.2	623.2	622.8	624.1	622.4	623.0
19.5°	620.8	621.0	621.2	621.8	620.4	620.9
20°	618.8	618.8	619.5	619.5	618.5	618.6
20.5°	616.4	616.5	617.5	617.5	616.7	616.7
21°	614.2	614.2	615.1	615.4	614.6	614.5
21.5°	611.9	611.8	613.2	613.0	612.7	612.1
22°	609.9	609.9	611.3	610.6	610.3	610.0

TEST NUMBER: P869690
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	607.0	607.2	608.6	608.0	607.9	607.8
23°	604.9	604.9	605.8	605.3	605.4	605.5
23.5°	602.8	602.3	603.9	603.0	603.1	603.3
24°	600.2	599.7	601.5	600.0	600.1	601.0
24.5°	597.5	597.1	598.0	597.9	597.5	598.2
25°	594.6	594.6	595.5	594.7	594.6	595.1
25.5°	591.9	591.9	592.7	592.2	591.9	592.5
26°	588.8	589.2	589.5	589.1	589.0	589.3
26.5°	586.1	586.1	586.7	586.1	586.1	587.0
27°	583.3	583.3	584.1	583.3	583.3	584.2
27.5°	580.9	580.4	581.4	580.4	580.4	581.4
28°	577.8	577.2	578.5	577.5	577.3	578.3
28.5°	574.9	574.1	575.6	575.0	574.7	575.2
29°	571.8	571.3	572.7	571.7	571.4	572.1
29.5°	568.6	567.9	569.9	568.7	568.4	569.1
30°	565.4	564.9	566.7	565.5	564.9	566.0
30.5°	562.1	562.2	563.4	561.9	561.7	562.9
31°	558.7	558.7	559.6	558.9	558.6	560.0
31.5°	555.6	555.5	556.0	555.8	555.3	556.6
32°	552.4	552.5	552.5	552.3	551.8	552.9
32.5°	549.4	548.9	549.5	549.5	548.7	549.7
33°	546.0	546.0	545.9	545.9	545.3	545.8
33.5°	542.6	542.5	542.9	542.4	542.0	542.7
34°	538.9	538.8	538.9	539.2	538.2	539.3
34.5°	535.7	535.0	535.5	535.8	534.8	535.8
35°	532.4	531.2	531.6	532.3	531.4	532.0
35.5°	528.7	527.4	528.0	528.7	527.8	528.7
36°	524.9	524.0	524.4	524.8	524.0	525.0
36.5°	521.2	520.3	520.6	520.9	520.6	521.1
37°	517.4	516.7	516.8	517.1	516.9	516.9
37.5°	513.8	512.5	513.0	513.6	513.2	513.3
38°	510.2	508.5	509.2	509.7	509.7	509.5
38.5°	506.5	504.5	505.6	505.4	505.6	505.6
39°	502.6	501.0	501.7	501.6	501.6	501.7
39.5°	498.7	497.1	497.9	497.7	497.7	497.8
40°	494.5	493.3	494.0	493.7	493.5	493.7
40.5°	490.2	489.5	489.8	489.6	489.8	489.9
41°	486.3	486.0	486.0	485.9	485.7	485.7
41.5°	482.1	481.7	482.0	482.0	482.2	482.0
42°	477.9	477.4	477.7	477.9	478.4	477.6
42.5°	473.8	473.0	473.7	473.6	473.4	473.1
43°	469.6	468.8	469.1	469.3	468.9	468.9
43.5°	465.7	464.4	465.3	464.8	464.7	464.6
44°	461.3	459.8	461.1	460.3	460.3	460.2
44.5°	457.1	455.9	456.5	456.0	456.6	456.0

TEST NUMBER: P869690
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	452.7	451.3	452.1	451.8	451.9	451.3
45.5°	448.4	446.9	447.6	447.3	447.0	446.6
46°	443.8	442.5	443.1	443.0	442.4	442.4
46.5°	439.2	437.8	439.0	438.4	437.9	438.5
47°	434.7	433.0	434.7	434.0	433.7	434.1
47.5°	430.0	428.4	430.0	429.3	429.5	429.8
48°	425.4	423.9	425.2	424.6	425.2	424.9
48.5°	421.1	419.5	420.5	420.0	420.4	420.1
49°	416.0	414.9	415.8	415.2	415.0	415.4
49.5°	411.4	410.3	411.2	410.5	410.2	410.8
50°	406.9	405.6	406.3	405.7	406.0	406.2
50.5°	402.1	400.8	401.4	401.0	401.0	401.0
51°	397.6	395.9	396.7	396.2	395.8	396.2
51.5°	392.5	390.8	391.5	391.3	390.7	391.4
52°	387.7	386.0	386.8	386.4	385.8	386.6
52.5°	382.5	380.8	381.9	381.8	381.0	381.5
53°	377.8	376.2	376.6	376.7	376.2	376.6
53.5°	373.0	371.3	371.8	371.6	371.1	371.5
54°	368.0	366.2	366.3	366.4	366.4	366.3
54.5°	362.9	361.1	361.6	360.9	360.9	361.0
55°	357.8	356.4	356.4	355.7	355.9	356.3
55.5°	352.7	351.3	351.5	350.6	350.9	351.4
56°	348.1	346.0	346.3	345.3	345.8	346.1
56.5°	342.6	340.8	341.0	340.4	340.7	341.0
57°	337.3	335.4	335.8	335.0	335.4	335.4
57.5°	332.1	330.2	330.6	329.9	329.9	329.9
58°	326.9	324.9	325.0	325.2	324.5	325.0
58.5°	321.6	319.6	319.6	319.8	319.7	319.5
59°	316.3	314.1	314.1	314.5	314.4	314.0
59.5°	310.6	308.8	308.6	308.8	309.0	308.6
60°	305.0	303.5	303.3	303.3	303.3	303.6
60.5°	299.8	298.0	297.9	297.7	297.5	298.4
61°	294.6	292.4	292.7	292.0	292.1	292.5
61.5°	289.1	286.8	287.4	286.4	286.9	287.0
62°	283.5	281.6	281.8	280.8	281.0	281.5
62.5°	278.0	275.9	276.1	275.5	275.3	276.0
63°	272.3	270.1	270.4	270.1	269.7	270.2
63.5°	266.6	264.5	264.9	264.2	264.0	264.7
64°	261.4	258.7	259.1	258.5	258.5	258.9
64.5°	255.2	253.2	253.6	253.1	252.9	253.5
65°	250.0	247.3	247.7	247.3	247.1	247.9
65.5°	244.1	241.7	241.9	241.4	241.6	242.1
66°	238.1	235.7	235.8	235.9	235.9	236.3
66.5°	232.4	230.0	230.1	230.0	230.5	230.3
67°	227.0	223.9	224.4	224.0	224.9	224.3

TEST NUMBER: P869690
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	221.0	218.2	219.1	218.4	219.1	218.6
68°	215.2	212.5	213.0	212.5	212.6	212.7
68.5°	209.3	207.1	207.2	206.8	206.8	206.9
69°	203.4	201.2	201.5	201.2	201.2	201.1
69.5°	197.5	195.2	195.6	195.2	195.3	194.9
70°	191.6	189.2	189.5	189.2	189.3	189.0
70.5°	186.2	183.4	183.6	183.5	183.6	183.1
71°	180.4	177.0	177.4	177.5	177.5	177.3
71.5°	174.3	171.4	171.7	171.4	171.4	171.6
72°	168.3	165.5	165.5	165.5	165.3	165.6
72.5°	162.5	159.7	159.8	159.7	159.1	159.4
73°	156.9	153.7	154.2	153.8	153.4	153.6
73.5°	151.0	147.8	148.4	147.9	147.7	147.8
74°	145.3	141.9	142.2	141.7	141.7	141.7
74.5°	139.3	136.0	136.3	135.9	135.6	135.9
75°	133.4	130.1	130.3	129.9	129.6	129.9
75.5°	127.4	124.3	124.4	123.9	123.7	124.2
76°	121.6	118.4	118.5	118.1	118.0	118.3
76.5°	115.9	112.3	112.6	112.4	112.3	112.3
77°	110.0	106.7	106.7	106.4	106.4	106.6
77.5°	104.2	101.3	100.9	100.9	100.9	100.8
78°	98.4	95.5	95.1	95.2	95.2	95.1
78.5°	92.7	90.0	89.5	89.5	89.6	89.5
79°	87.1	84.4	83.9	84.0	84.3	83.9
79.5°	81.6	78.6	78.6	78.5	78.8	78.4
80°	76.1	73.1	73.1	72.9	73.3	73.0
80.5°	70.8	67.8	67.8	67.8	67.7	67.6
81°	65.4	62.4	62.5	62.5	62.4	62.4
81.5°	60.1	57.2	57.5	57.6	57.2	57.2
82°	54.9	52.3	52.4	52.5	52.0	52.2
82.5°	50.1	47.3	47.6	47.3	47.1	47.2
83°	45.3	42.6	42.7	42.6	42.2	42.3
83.5°	40.4	38.0	38.0	37.9	37.5	37.6
84°	35.7	33.5	33.5	33.5	33.2	33.2
84.5°	31.2	29.2	29.2	29.2	29.1	29.1
85°	27.0	25.1	25.3	25.0	25.0	25.0
85.5°	22.9	21.5	21.6	21.5	21.5	21.3
86°	19.7	17.8	18.0	18.0	17.8	17.8
86.5°	16.3	14.5	14.7	14.5	14.5	14.4
87°	13.1	11.3	11.5	11.4	11.3	11.2
87.5°	10.2	8.2	8.3	8.3	8.3	8.2
88°	7.4	5.8	5.9	5.9	5.9	5.7
88.5°	5.0	3.8	4.0	4.0	4.0	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: P869690
CATALOG NUMBER: SMX14SLSFSD2W-1600LM-5000K

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)