

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: P869686

Luminaire Tested: **SMX14SLSFSD2W-1600LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869686
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14SLSFSD2W-1600LM-2700K
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

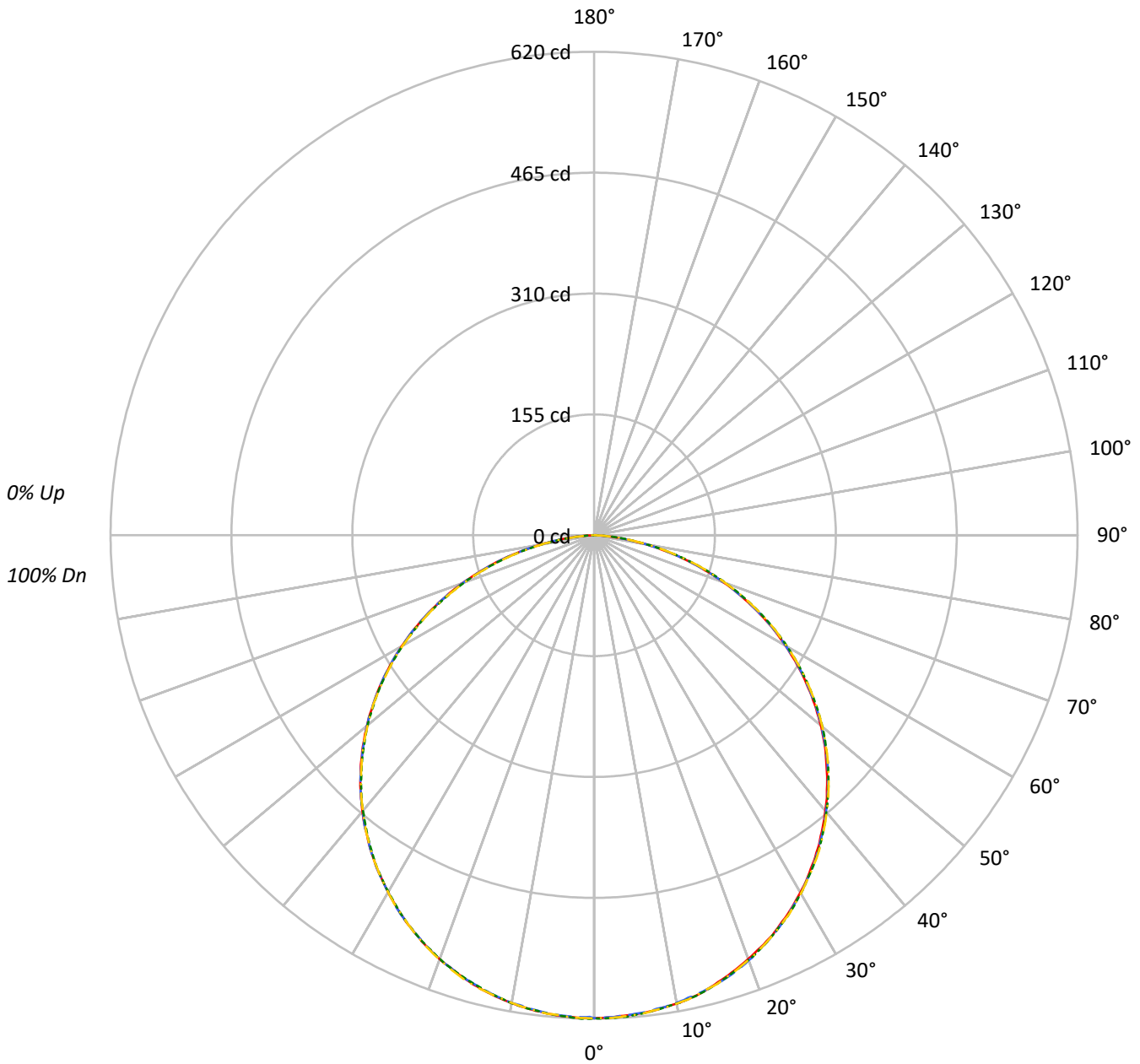
Lumens per Lamp: N/A
 Luminaire Lumens: 1809.7 lumens
 Efficiency: N/A
 Efficacy: 87.4 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
 CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4896	4896	4896	4896
5°	4890	4898	4895	4894
10°	4895	4894	4891	4890
15°	4882	4888	4883	4873
20°	4862	4874	4866	4863
25°	4850	4857	4844	4845
30°	4827	4842	4823	4818
35°	4796	4816	4800	4790
40°	4760	4781	4769	4756
45°	4715	4747	4734	4715
50°	4668	4700	4675	4660
55°	4587	4623	4605	4590
60°	4485	4527	4505	4483
65°	4331	4382	4365	4322
70°	4081	4157	4146	4086
75°	3707	3796	3799	3713
80°	3104	3227	3213	3109
85°	2122	2249	2231	2131

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	3.2
10°-20°	168.4	9.3
20°-30°	256.5	14.2
30°-40°	311.4	17.2
40°-50°	326.4	18.0
50°-60°	298.4	16.5
60°-70°	229.8	12.7
70°-80°	130.0	7.2
80°-90°	30.2	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°	483.5	26.7
0°-40°	794.9	43.9
0°-60°	1419.7	78.5
0°-90°	1809.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1809.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	619	619	619	619	619	
5°	616	617	617	617	616	59
15°	597	597	597	596	597	168
25°	556	557	556	556	556	256
35°	497	499	498	496	497	311
45°	422	425	424	422	422	326
55°	333	336	334	333	333	297
65°	232	234	233	231	232	229
75°	121	124	124	122	121	128
85°	23	25	25	24	23	29
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°	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4
0.5°	619.1	620.1	618.5	619.2	619.8	619.4	619.5	619.4	619.1	619.8	617.8
1°	619.1	620.3	618.8	618.9	619.8	619.3	619.2	619.1	619.3	619.3	618.0
1.5°	618.7	619.7	618.5	618.6	619.7	619.1	619.6	618.7	619.0	619.4	618.1
2°	618.7	619.5	618.3	618.7	619.5	618.7	619.4	618.5	619.1	619.5	618.0
2.5°	618.4	619.4	618.2	618.1	619.6	619.0	619.1	618.4	618.5	619.4	617.8
3°	617.6	619.2	617.6	617.9	619.0	618.6	618.7	618.4	618.3	618.7	617.7
3.5°	617.3	618.6	617.7	617.7	618.7	618.1	618.3	618.1	618.0	618.7	617.4
4°	617.2	618.1	617.0	617.0	618.7	618.0	618.0	618.0	617.7	618.1	617.3
4.5°	616.8	617.8	616.6	616.7	617.8	617.5	617.6	617.3	617.6	618.4	616.4
5°	616.4	617.4	615.8	616.6	617.3	617.1	617.4	616.7	617.0	617.6	616.3
5.5°	616.0	616.7	615.7	616.0	616.7	616.7	617.1	615.9	616.4	616.9	615.8
6°	615.7	616.1	615.1	615.5	616.3	615.7	616.3	615.5	615.7	616.0	615.3
6.5°	615.2	616.0	614.3	614.8	615.7	614.7	615.7	615.0	614.8	615.4	614.3
7°	614.5	615.2	613.8	614.3	614.8	614.3	614.4	614.1	614.5	614.6	613.6
7.5°	613.8	614.3	612.7	613.3	614.0	613.5	613.8	613.3	613.7	614.1	612.9
8°	612.7	613.4	612.1	612.6	613.2	612.6	613.2	612.6	613.0	613.3	612.0
8.5°	612.1	612.7	611.9	611.6	612.3	612.1	612.4	611.3	612.1	612.1	610.9
9°	611.5	612.0	610.8	610.9	611.5	611.0	611.9	610.5	611.2	611.5	610.1
9.5°	610.6	610.9	609.8	610.0	610.6	609.9	610.6	609.7	610.1	610.9	609.4
10°	609.9	609.5	608.8	609.2	609.8	609.5	609.9	608.9	609.4	609.8	608.9
10.5°	609.1	608.8	607.6	608.1	609.5	608.3	608.7	607.8	608.1	608.6	607.6
11°	608.1	607.4	606.9	607.2	608.2	607.4	608.1	606.6	607.1	607.9	606.3
11.5°	607.0	606.6	605.4	605.9	607.1	606.6	607.3	605.5	605.8	606.3	605.3
12°	605.7	605.8	604.4	605.2	605.9	605.3	605.5	604.1	604.9	604.9	604.2
12.5°	604.5	604.8	603.6	603.8	604.9	604.5	604.3	603.0	603.6	603.6	602.8
13°	603.3	603.6	602.4	602.6	603.4	603.1	603.1	601.9	602.2	602.5	601.4
13.5°	601.9	602.5	601.5	600.8	602.2	601.3	601.1	600.4	601.1	601.5	600.1
14°	600.3	600.9	600.0	599.5	600.7	600.1	599.8	598.7	599.9	599.9	598.4
14.5°	598.4	599.3	598.7	598.0	598.9	598.7	598.8	597.3	597.9	598.7	596.7
15°	596.7	598.1	597.6	596.9	597.4	597.6	597.7	595.3	596.8	597.3	595.7
15.5°	594.8	596.5	596.4	594.8	595.9	595.9	596.0	593.9	594.9	595.7	594.0
16°	593.1	594.4	594.7	593.2	594.0	594.0	593.9	592.9	593.1	593.8	592.7
16.5°	591.3	592.3	593.0	591.8	592.7	592.3	592.1	591.3	591.5	592.0	591.3
17°	589.7	590.6	591.5	589.8	590.7	590.5	590.6	589.8	589.8	590.0	589.6
17.5°	587.8	588.6	589.8	587.6	588.8	588.6	589.0	587.9	587.6	588.5	587.9
18°	586.1	586.5	588.1	586.2	587.0	587.0	587.3	585.9	585.7	586.3	585.9
18.5°	584.2	584.8	586.5	584.5	585.5	585.0	585.3	584.6	583.9	584.8	583.9
19°	582.2	582.6	584.3	582.5	583.2	583.5	583.5	582.8	582.2	582.9	582.3
19.5°	580.2	580.6	582.4	580.2	581.3	581.7	581.5	580.6	580.7	581.0	580.7
20°	578.1	578.8	580.1	578.4	579.5	579.8	579.7	578.8	578.5	579.0	578.5
20.5°	576.3	577.2	578.3	576.2	577.8	578.1	577.8	576.7	576.7	576.8	576.8
21°	574.2	574.7	576.3	574.5	575.8	575.6	575.6	575.0	574.5	574.7	574.4
21.5°	572.0	572.7	574.0	572.0	573.4	573.1	573.1	572.7	572.1	572.6	572.0
22°	570.0	570.5	570.8	570.1	571.3	570.7	571.0	571.0	570.2	570.2	569.8

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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°	568.0	568.6	569.3	568.0	569.1	568.3	569.0	568.5	567.8	567.8	567.3
23°	565.8	566.3	567.0	565.6	567.0	566.2	566.7	565.9	565.8	565.4	564.7
23.5°	563.8	564.2	564.7	563.4	564.6	564.1	564.4	563.6	562.9	563.0	562.9
24°	561.6	561.8	562.0	561.2	562.2	562.0	562.2	561.3	560.7	561.2	560.5
24.5°	559.0	559.3	559.9	558.7	559.9	559.8	560.2	559.2	558.2	559.2	558.3
25°	556.1	557.1	557.5	556.1	557.0	557.3	557.5	556.8	555.5	556.2	555.7
25.5°	553.7	554.8	554.8	553.6	554.8	554.8	554.8	553.8	553.6	553.6	553.5
26°	550.7	551.9	552.1	550.7	552.4	552.3	552.4	551.4	551.0	551.6	551.1
26.5°	548.5	549.4	549.7	548.3	550.0	549.5	549.8	548.3	548.0	548.6	548.0
27°	546.0	547.0	546.7	546.1	547.6	546.9	547.6	546.2	545.4	545.9	545.8
27.5°	543.3	544.1	544.1	543.4	544.6	544.1	545.0	543.6	543.1	543.4	542.8
28°	540.4	541.1	541.2	540.6	542.0	541.7	541.8	540.7	540.1	540.9	540.4
28.5°	537.5	538.3	538.3	538.5	539.3	538.8	539.0	538.3	537.0	538.3	537.5
29°	534.6	535.6	535.8	535.4	536.1	535.8	536.1	535.4	534.0	535.5	534.2
29.5°	531.8	532.6	532.8	532.8	533.2	533.0	533.5	532.3	531.4	532.9	531.2
30°	528.9	529.6	529.9	529.7	530.5	530.4	530.7	529.6	528.5	529.4	528.2
30.5°	526.0	526.7	527.2	527.2	527.4	527.5	527.5	526.7	525.5	526.4	525.4
31°	523.3	523.6	523.7	524.4	524.3	524.6	524.2	523.7	522.4	523.6	522.6
31.5°	520.1	520.8	520.9	521.3	521.1	521.4	521.3	520.5	519.2	520.3	519.6
32°	516.7	517.9	517.9	518.0	517.9	518.4	518.3	517.3	516.2	517.2	516.5
32.5°	513.7	514.8	515.1	515.3	515.3	515.4	515.6	514.6	513.6	514.5	513.3
33°	510.1	511.5	511.5	512.1	512.2	512.1	512.3	511.4	510.5	511.5	510.5
33.5°	507.1	508.4	508.8	508.9	509.0	508.5	509.3	508.1	507.2	508.4	507.1
34°	504.0	505.4	505.4	505.7	505.7	505.4	506.3	504.6	503.8	504.7	503.9
34.5°	500.7	501.7	502.0	502.4	502.6	502.3	503.3	501.1	500.7	501.3	501.0
35°	497.1	497.6	498.5	498.9	499.1	499.2	500.1	498.3	497.5	497.9	497.4
35.5°	494.1	494.5	495.1	495.2	496.0	496.1	496.6	494.8	494.3	494.4	494.0
36°	490.6	491.2	491.4	492.0	492.5	492.2	493.2	491.2	490.7	491.0	490.6
36.5°	486.9	488.2	488.0	488.6	489.1	488.5	489.8	487.8	487.1	487.4	486.7
37°	483.0	484.4	484.7	485.1	485.5	485.4	486.3	483.8	483.3	484.1	483.5
37.5°	479.7	481.1	481.5	481.7	481.7	481.7	482.4	480.7	479.8	480.5	480.1
38°	476.1	477.7	477.8	477.9	478.3	478.0	478.6	477.3	476.7	477.2	476.7
38.5°	472.5	473.8	474.0	474.1	474.6	474.2	475.1	473.6	473.2	473.4	473.3
39°	468.8	470.4	470.2	470.5	471.0	470.6	471.5	469.8	469.6	469.7	469.3
39.5°	465.1	466.5	466.5	466.4	467.3	467.6	467.5	466.3	466.1	465.9	465.6
40°	461.4	462.4	462.7	462.7	463.4	464.1	463.8	463.1	462.2	462.4	462.1
40.5°	457.8	459.0	459.1	458.7	459.6	460.3	460.4	459.4	458.4	458.7	458.2
41°	453.9	455.2	455.3	455.1	456.2	456.5	456.4	455.5	454.3	454.9	454.5
41.5°	450.4	451.2	451.6	451.0	452.3	453.0	452.9	451.7	451.0	451.1	450.9
42°	446.3	447.2	447.7	447.2	448.1	448.9	448.8	448.0	447.5	447.0	447.0
42.5°	442.1	443.3	444.0	443.2	444.4	445.0	444.7	444.1	443.5	442.9	443.1
43°	438.2	439.3	440.1	439.3	440.6	440.9	440.7	440.0	439.4	438.9	439.2
43.5°	434.1	435.5	435.9	435.3	436.7	436.7	436.9	436.0	435.5	434.9	435.0
44°	430.0	431.4	431.9	431.5	432.6	432.7	432.9	432.1	431.3	430.9	431.1
44.5°	426.1	427.2	427.8	427.2	428.6	428.9	428.9	428.1	427.4	426.9	427.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	421.8	423.2	423.8	423.2	424.7	424.9	424.5	424.0	423.5	423.1	422.6
45.5°	417.4	419.0	419.9	419.1	420.8	420.8	420.3	420.1	419.3	418.9	418.4
46°	413.4	415.3	415.5	415.2	416.4	416.4	416.4	415.7	414.9	414.5	414.4
46.5°	409.7	411.0	411.2	411.0	412.2	412.3	412.4	411.4	410.7	410.8	410.1
47°	405.6	406.6	406.9	406.8	407.9	408.0	408.2	407.0	406.6	406.3	405.9
47.5°	401.6	402.7	402.5	402.3	403.6	404.0	403.7	402.8	402.4	402.0	401.4
48°	397.1	398.2	398.0	398.1	399.4	399.8	399.5	398.7	397.8	397.9	397.1
48.5°	392.6	393.8	393.8	393.6	395.2	395.2	395.2	394.4	393.4	393.5	393.0
49°	388.2	389.5	389.3	389.3	391.0	390.9	390.7	390.0	389.3	389.3	388.6
49.5°	383.9	385.2	385.0	384.8	386.6	386.3	386.4	385.9	384.8	385.2	384.2
50°	379.6	380.6	380.6	380.3	382.2	382.2	382.0	381.2	380.2	380.5	380.0
50.5°	374.7	376.2	376.1	375.9	377.7	377.6	377.5	376.8	375.8	376.0	375.6
51°	370.3	371.5	371.4	371.3	373.0	373.0	373.2	372.1	371.4	371.6	371.4
51.5°	365.7	367.0	367.1	366.9	368.5	368.3	368.7	367.6	366.7	367.0	366.3
52°	361.2	362.6	362.4	362.3	363.8	364.0	364.1	362.9	361.8	362.4	361.8
52.5°	356.5	357.8	357.8	357.8	359.4	359.6	359.4	358.4	357.5	358.2	357.2
53°	351.9	353.2	353.0	352.8	354.5	354.8	354.5	353.7	353.1	353.4	352.8
53.5°	347.1	348.4	348.3	348.0	349.7	349.9	349.7	349.4	348.4	349.1	348.0
54°	342.3	343.3	343.5	343.3	345.0	345.2	345.0	344.6	343.6	344.1	343.6
54.5°	337.3	338.5	338.9	338.7	340.4	340.4	340.2	339.6	338.8	339.2	339.0
55°	332.9	334.0	333.6	334.2	335.5	335.7	335.7	335.0	334.2	334.5	334.4
55.5°	328.4	329.1	329.1	329.1	330.7	331.1	330.5	329.9	329.4	330.1	329.5
56°	323.4	324.4	324.1	324.5	325.9	326.4	326.4	325.4	324.8	325.2	324.7
56.5°	318.6	319.5	319.4	319.6	321.1	321.6	321.5	320.4	319.8	320.3	319.7
57°	313.5	314.3	314.5	314.9	316.2	316.8	316.5	315.7	314.7	315.4	314.9
57.5°	308.3	309.3	309.5	309.8	311.4	311.5	311.6	310.7	310.0	310.5	310.2
58°	303.7	304.4	304.5	304.6	306.2	306.7	306.2	306.0	305.0	305.3	305.5
58.5°	298.6	299.6	299.6	299.6	301.3	302.0	300.9	300.9	300.1	300.3	300.5
59°	293.4	294.7	294.2	294.3	296.6	296.6	296.2	295.9	295.2	295.6	295.4
59.5°	288.4	289.3	289.1	289.3	291.6	291.4	291.2	290.8	289.9	290.6	290.3
60°	283.7	284.2	283.9	284.1	286.4	286.4	286.1	286.1	285.0	285.4	285.2
60.5°	278.9	279.0	279.0	278.7	281.3	281.3	280.7	280.7	279.5	280.3	280.1
61°	273.3	273.7	273.9	273.6	276.0	276.5	275.6	276.0	274.8	275.1	274.9
61.5°	268.2	268.7	268.9	268.3	270.8	271.3	270.5	270.6	269.8	270.2	269.7
62°	263.1	263.5	263.8	263.5	265.8	266.1	265.8	265.6	264.8	265.1	265.0
62.5°	257.9	258.0	258.6	258.0	260.3	260.7	260.4	260.4	259.4	259.8	259.6
63°	252.5	252.7	253.3	253.0	255.0	255.8	255.3	255.2	254.3	254.6	254.2
63.5°	247.3	247.8	248.0	247.8	249.9	250.6	250.1	250.1	249.2	249.3	249.2
64°	241.9	242.5	242.7	242.5	244.8	245.2	244.8	244.5	244.0	244.1	243.8
64.5°	236.9	237.4	237.6	237.1	239.4	239.6	239.4	239.1	238.7	238.7	238.5
65°	231.6	232.1	232.0	232.0	234.3	234.7	234.3	233.9	233.4	233.7	233.4
65.5°	226.2	226.5	226.6	226.2	229.3	228.9	228.7	228.4	227.9	228.4	228.2
66°	220.8	221.1	221.1	220.8	223.7	223.5	222.9	222.9	222.5	223.1	222.8
66.5°	215.2	215.7	215.4	215.4	218.1	218.1	217.8	217.5	217.3	217.7	217.2
67°	209.6	210.0	210.1	210.0	212.6	212.9	212.5	212.3	211.9	212.2	212.1

TEST NUMBER: P869686
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	204.3	204.8	204.7	204.6	207.1	207.4	206.9	206.8	206.6	206.9	206.6
68°	198.8	199.3	199.1	199.3	201.8	202.2	201.6	201.4	201.5	201.5	201.1
68.5°	193.4	193.7	193.7	193.7	196.4	196.8	196.2	196.0	196.2	196.1	195.6
69°	188.0	188.3	188.3	188.0	191.1	191.3	190.7	190.5	190.5	190.4	189.8
69.5°	182.2	182.6	182.8	182.6	185.4	185.7	185.3	184.9	184.9	184.9	184.6
70°	176.6	177.2	177.1	176.9	179.9	180.2	179.5	179.2	179.4	179.5	178.9
70.5°	171.1	171.7	171.2	171.5	174.4	174.8	174.1	174.0	174.1	173.9	173.6
71°	165.6	166.0	165.7	165.8	168.9	169.2	168.3	168.6	168.4	168.4	168.1
71.5°	160.3	160.6	160.2	160.1	163.3	163.4	163.0	162.9	163.1	162.7	162.5
72°	154.8	154.9	154.7	154.5	157.6	157.9	157.5	157.5	157.6	157.2	157.0
72.5°	149.0	149.6	149.4	148.8	152.2	152.4	152.1	151.8	152.1	151.8	151.4
73°	143.6	144.0	143.7	143.6	146.7	146.9	146.6	146.4	146.4	146.3	146.0
73.5°	138.1	138.5	138.1	138.1	141.3	141.6	141.4	141.1	141.0	140.9	140.7
74°	132.5	132.8	132.7	132.6	135.7	136.1	136.0	135.5	135.5	135.2	135.1
74.5°	127.0	127.5	127.1	127.1	130.1	130.5	130.1	130.0	129.9	129.9	129.7
75°	121.4	121.8	121.6	121.4	124.3	124.7	124.7	124.4	124.4	124.4	124.3
75.5°	116.0	116.1	116.0	115.9	118.8	119.3	118.9	118.9	118.9	118.9	118.8
76°	110.5	110.7	110.5	110.6	113.3	113.8	113.3	113.4	113.4	113.3	113.2
76.5°	105.0	105.2	105.3	105.0	108.0	108.1	107.9	108.1	108.0	107.9	108.0
77°	99.6	99.7	99.5	99.6	102.4	102.9	102.7	102.5	102.4	102.6	102.6
77.5°	94.2	94.6	94.3	94.3	96.9	97.3	97.1	97.2	97.1	97.3	97.3
78°	88.8	89.2	88.8	89.0	91.7	91.9	91.8	91.6	91.4	91.9	91.8
78.5°	83.7	83.8	83.6	83.7	86.6	86.6	86.6	86.3	86.1	86.5	86.5
79°	78.4	78.6	78.3	78.7	81.5	81.6	81.4	81.3	81.0	81.4	81.2
79.5°	73.3	73.5	73.3	73.5	76.3	76.3	76.0	76.0	75.8	76.2	76.2
80°	68.2	68.3	68.2	68.2	70.9	71.1	70.7	70.7	70.6	71.0	70.9
80.5°	63.1	63.2	63.1	63.0	65.8	66.2	65.8	65.8	65.6	65.9	66.0
81°	58.3	58.4	58.2	57.8	60.7	61.1	60.9	60.7	60.7	61.0	61.1
81.5°	53.4	53.5	53.3	53.1	55.8	56.0	55.8	55.7	55.7	56.0	56.1
82°	48.8	48.8	48.7	48.3	51.0	51.2	51.0	50.8	50.8	51.1	51.3
82.5°	44.2	44.2	44.0	43.8	46.5	46.6	46.5	46.3	46.2	46.5	46.9
83°	39.5	39.7	39.4	39.1	41.8	41.9	41.9	41.7	41.7	42.0	42.3
83.5°	35.1	35.3	35.0	34.9	37.1	37.4	37.2	37.2	37.2	37.4	37.7
84°	31.0	31.2	31.0	30.6	32.9	33.0	33.0	32.8	32.7	33.0	33.3
84.5°	27.2	27.2	27.1	26.8	28.8	29.1	28.8	28.7	28.6	28.9	29.2
85°	23.4	23.3	23.3	22.9	24.8	24.9	24.9	24.7	24.6	24.9	25.1
85.5°	19.9	19.9	19.9	19.6	21.0	21.1	21.0	21.0	20.9	21.1	21.4
86°	16.6	16.6	16.5	16.2	17.9	17.9	17.9	17.8	17.8	18.1	18.2
86.5°	13.4	13.5	13.4	13.2	14.9	14.9	15.0	14.7	14.8	15.1	15.1
87°	10.4	10.4	10.5	10.2	11.9	12.0	12.0	11.8	11.8	12.0	12.1
87.5°	7.6	7.6	7.6	7.3	9.1	9.1	9.1	9.0	9.0	9.2	9.3
88°	5.3	5.4	5.3	5.2	6.6	6.6	6.6	6.6	6.6	6.7	6.9
88.5°	3.6	3.6	3.6	3.4	4.5	4.7	4.5	4.4	4.3	4.6	4.6
89°	2.2	2.2	2.2	2.2	2.6	2.8	2.6	2.6	2.5	2.7	2.8
89.5°	1.2	1.2	1.2	1.2	1.3	1.4	1.3	1.2	1.1	1.2	1.3

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



TEST NUMBER: P869686
CATALOG NUMBER: SMX14SLSFSD2W-1600LM-2700K

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: P869686
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	619.4	619.4	619.4	619.4	619.4	619.4
0.5°	618.8	620.2	619.7	619.4	619.2	619.1
1°	618.7	620.0	620.2	619.1	618.8	619.1
1.5°	618.9	620.2	619.7	619.4	618.4	618.7
2°	618.4	619.6	619.3	619.1	618.6	618.7
2.5°	618.6	619.3	618.9	618.5	618.9	618.4
3°	618.3	618.5	618.4	618.4	618.6	617.6
3.5°	617.7	618.0	618.4	617.7	618.4	617.3
4°	617.6	617.7	618.3	617.1	617.7	617.2
4.5°	617.0	617.1	617.4	616.9	617.4	616.8
5°	616.0	616.8	616.6	616.7	616.6	616.4
5.5°	615.4	616.2	616.2	616.7	616.1	616.0
6°	614.5	615.5	615.2	615.9	615.6	615.7
6.5°	614.2	614.7	614.6	615.4	614.6	615.2
7°	613.5	614.0	613.8	614.3	613.8	614.5
7.5°	613.4	613.6	613.3	613.4	613.6	613.8
8°	612.2	613.0	612.1	612.7	612.5	612.7
8.5°	611.3	612.2	611.7	612.0	611.3	612.1
9°	610.3	611.0	611.0	610.9	610.6	611.5
9.5°	609.0	610.4	609.7	609.9	609.7	610.6
10°	608.5	609.3	608.5	608.9	609.0	609.9
10.5°	607.2	608.1	607.7	607.9	608.4	609.1
11°	606.2	606.6	606.9	606.7	607.1	608.1
11.5°	605.0	605.2	606.1	605.1	606.2	607.0
12°	603.8	604.2	604.9	604.2	605.0	605.7
12.5°	602.7	603.0	603.6	603.5	604.5	604.5
13°	601.7	601.8	602.4	602.1	603.0	603.3
13.5°	600.3	600.2	600.7	601.1	601.5	601.9
14°	599.0	598.4	599.0	600.2	600.2	600.3
14.5°	597.2	596.9	597.1	598.5	598.4	598.4
15°	595.9	595.6	595.4	597.3	596.7	596.7
15.5°	594.2	594.0	594.0	596.1	595.1	594.8
16°	592.7	592.5	592.2	594.7	592.9	593.1
16.5°	591.0	590.8	590.8	593.0	591.4	591.3
17°	589.3	589.1	589.1	590.9	589.6	589.7
17.5°	587.5	587.6	587.1	589.0	587.6	587.8
18°	585.7	585.8	585.6	587.3	586.0	586.1
18.5°	584.0	584.1	583.8	585.1	583.8	584.2
19°	582.3	582.3	582.0	583.2	581.6	582.2
19.5°	580.1	580.3	580.5	581.1	579.8	580.2
20°	578.2	578.2	578.9	578.9	578.0	578.1
20.5°	576.0	576.1	577.0	577.0	576.3	576.3
21°	574.0	573.9	574.8	575.1	574.3	574.2
21.5°	571.8	571.7	573.1	572.8	572.6	572.0
22°	569.9	569.9	571.2	570.6	570.3	570.0

TEST NUMBER: P869686
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	567.3	567.4	568.7	568.2	568.0	568.0
23°	565.3	565.3	566.1	565.6	565.7	565.8
23.5°	563.2	562.9	564.3	563.5	563.6	563.8
24°	560.9	560.4	562.1	560.7	560.8	561.6
24.5°	558.4	558.0	558.8	558.7	558.4	559.0
25°	555.6	555.6	556.5	555.8	555.6	556.1
25.5°	553.1	553.1	553.8	553.4	553.1	553.7
26°	550.2	550.6	550.8	550.5	550.4	550.7
26.5°	547.7	547.7	548.3	547.7	547.7	548.5
27°	545.1	545.1	545.8	545.1	545.1	546.0
27.5°	542.9	542.4	543.3	542.4	542.4	543.3
28°	539.9	539.4	540.6	539.6	539.5	540.4
28.5°	537.2	536.5	537.9	537.3	537.1	537.5
29°	534.3	533.8	535.2	534.2	534.0	534.6
29.5°	531.3	530.7	532.5	531.4	531.1	531.8
30°	528.4	527.9	529.6	528.4	527.9	528.9
30.5°	525.3	525.3	526.5	525.0	524.9	526.0
31°	522.1	522.1	523.0	522.3	522.0	523.3
31.5°	519.2	519.1	519.6	519.3	518.9	520.1
32°	516.2	516.3	516.3	516.1	515.6	516.7
32.5°	513.4	512.9	513.5	513.5	512.8	513.7
33°	510.2	510.2	510.1	510.1	509.5	510.1
33.5°	507.1	506.9	507.3	506.8	506.5	507.1
34°	503.6	503.5	503.6	503.9	503.0	504.0
34.5°	500.6	500.0	500.4	500.7	499.7	500.7
35°	497.5	496.4	496.8	497.4	496.6	497.1
35.5°	494.1	492.9	493.4	494.0	493.2	494.1
36°	490.5	489.7	490.0	490.4	489.7	490.6
36.5°	487.1	486.2	486.4	486.8	486.5	486.9
37°	483.5	482.8	483.0	483.2	483.0	483.0
37.5°	480.1	479.0	479.3	480.0	479.6	479.7
38°	476.7	475.2	475.8	476.3	476.3	476.1
38.5°	473.3	471.5	472.5	472.2	472.5	472.5
39°	469.7	468.2	468.8	468.8	468.7	468.8
39.5°	466.0	464.5	465.3	465.1	465.1	465.1
40°	462.1	461.0	461.6	461.4	461.1	461.4
40.5°	458.1	457.4	457.7	457.5	457.7	457.8
41°	454.4	454.2	454.1	454.0	453.9	453.9
41.5°	450.5	450.1	450.4	450.4	450.6	450.4
42°	446.6	446.2	446.4	446.5	447.0	446.3
42.5°	442.8	442.0	442.7	442.5	442.4	442.1
43°	438.8	438.0	438.4	438.5	438.2	438.2
43.5°	435.2	434.0	434.8	434.3	434.3	434.1
44°	431.0	429.7	430.9	430.2	430.1	430.0
44.5°	427.2	426.0	426.5	426.2	426.7	426.1

TEST NUMBER: P869686
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	423.0	421.8	422.5	422.1	422.3	421.8
45.5°	419.1	417.6	418.3	418.0	417.7	417.4
46°	414.7	413.5	414.0	414.0	413.4	413.4
46.5°	410.4	409.1	410.2	409.6	409.2	409.7
47°	406.2	404.6	406.2	405.6	405.2	405.6
47.5°	401.8	400.3	401.8	401.2	401.4	401.6
48°	397.5	396.1	397.4	396.8	397.3	397.1
48.5°	393.5	392.0	393.0	392.4	392.9	392.6
49°	388.7	387.7	388.6	388.0	387.8	388.2
49.5°	384.5	383.4	384.2	383.6	383.3	383.9
50°	380.2	379.0	379.7	379.2	379.4	379.6
50.5°	375.8	374.5	375.1	374.7	374.7	374.7
51°	371.5	370.0	370.7	370.2	369.9	370.3
51.5°	366.8	365.2	365.9	365.6	365.1	365.7
52°	362.3	360.7	361.5	361.1	360.5	361.2
52.5°	357.5	355.8	356.8	356.8	356.1	356.5
53°	353.1	351.5	351.9	352.0	351.5	351.9
53.5°	348.5	347.0	347.4	347.3	346.8	347.1
54°	343.9	342.2	342.3	342.4	342.4	342.3
54.5°	339.1	337.5	337.9	337.2	337.2	337.3
55°	334.3	333.1	333.1	332.4	332.6	332.9
55.5°	329.6	328.3	328.4	327.6	327.9	328.4
56°	325.3	323.3	323.6	322.6	323.1	323.4
56.5°	320.2	318.5	318.6	318.1	318.4	318.6
57°	315.2	313.4	313.8	313.1	313.4	313.5
57.5°	310.3	308.6	308.9	308.3	308.3	308.3
58°	305.5	303.6	303.7	303.9	303.3	303.7
58.5°	300.5	298.6	298.6	298.9	298.7	298.6
59°	295.6	293.5	293.5	293.9	293.8	293.4
59.5°	290.2	288.5	288.4	288.5	288.8	288.4
60°	285.0	283.6	283.4	283.4	283.4	283.7
60.5°	280.2	278.5	278.3	278.2	278.0	278.9
61°	275.3	273.2	273.5	272.9	272.9	273.3
61.5°	270.2	268.0	268.5	267.6	268.1	268.2
62°	264.9	263.1	263.3	262.4	262.6	263.1
62.5°	259.7	257.8	258.0	257.4	257.3	257.9
63°	254.5	252.4	252.6	252.4	252.0	252.5
63.5°	249.1	247.2	247.5	246.9	246.7	247.3
64°	244.2	241.8	242.1	241.6	241.5	241.9
64.5°	238.5	236.6	237.0	236.5	236.4	236.9
65°	233.6	231.1	231.5	231.1	230.9	231.6
65.5°	228.1	225.9	226.0	225.6	225.8	226.2
66°	222.5	220.3	220.4	220.5	220.5	220.8
66.5°	217.1	214.9	215.0	215.0	215.4	215.2
67°	212.1	209.3	209.7	209.3	210.2	209.6

TEST NUMBER: P869686
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	206.5	203.9	204.7	204.1	204.7	204.3
68°	201.1	198.5	199.1	198.5	198.7	198.8
68.5°	195.6	193.5	193.6	193.2	193.3	193.4
69°	190.0	188.0	188.3	188.0	188.0	188.0
69.5°	184.6	182.4	182.8	182.4	182.5	182.2
70°	179.1	176.8	177.1	176.8	176.9	176.6
70.5°	174.0	171.4	171.6	171.5	171.6	171.1
71°	168.6	165.4	165.8	165.9	165.9	165.6
71.5°	162.9	160.2	160.5	160.2	160.2	160.3
72°	157.3	154.7	154.7	154.6	154.5	154.8
72.5°	151.8	149.2	149.3	149.2	148.7	149.0
73°	146.6	143.6	144.1	143.7	143.3	143.6
73.5°	141.1	138.1	138.6	138.2	138.0	138.1
74°	135.8	132.6	132.9	132.4	132.5	132.5
74.5°	130.1	127.1	127.4	127.0	126.7	127.0
75°	124.7	121.6	121.7	121.4	121.1	121.4
75.5°	119.0	116.2	116.2	115.8	115.6	116.0
76°	113.6	110.6	110.7	110.4	110.3	110.5
76.5°	108.3	105.0	105.2	105.1	104.9	105.0
77°	102.8	99.7	99.7	99.4	99.4	99.6
77.5°	97.3	94.6	94.3	94.2	94.3	94.2
78°	91.9	89.2	88.8	88.9	88.9	88.8
78.5°	86.6	84.1	83.7	83.7	83.7	83.7
79°	81.4	78.9	78.4	78.5	78.8	78.4
79.5°	76.3	73.5	73.5	73.3	73.6	73.3
80°	71.1	68.3	68.3	68.2	68.5	68.2
80.5°	66.2	63.4	63.4	63.4	63.2	63.1
81°	61.1	58.4	58.4	58.4	58.3	58.3
81.5°	56.1	53.5	53.7	53.8	53.4	53.4
82°	51.3	48.9	48.9	49.0	48.6	48.8
82.5°	46.9	44.2	44.5	44.2	44.0	44.2
83°	42.3	39.8	39.9	39.8	39.4	39.5
83.5°	37.7	35.5	35.5	35.4	35.0	35.1
84°	33.3	31.3	31.3	31.3	31.0	31.0
84.5°	29.2	27.2	27.3	27.2	27.2	27.2
85°	25.2	23.5	23.6	23.4	23.4	23.4
85.5°	21.4	20.1	20.1	20.1	20.1	19.9
86°	18.4	16.7	16.8	16.8	16.7	16.6
86.5°	15.2	13.5	13.7	13.6	13.5	13.4
87°	12.3	10.6	10.7	10.7	10.6	10.4
87.5°	9.5	7.6	7.8	7.8	7.7	7.6
88°	6.9	5.4	5.6	5.5	5.5	5.3
88.5°	4.7	3.6	3.7	3.7	3.7	3.6
89°	2.9	2.1	2.2	2.2	2.2	2.2
89.5°	1.5	1.2	1.2	1.2	1.2	1.2

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869686
CATALOG NUMBER: SMX14SLSFSD2W-1600LM-2700K

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)