

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: P869638

Luminaire Tested: **SMX14RLSFS010-1300LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869638  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX14RLSFS010-1300LM-3500K  
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

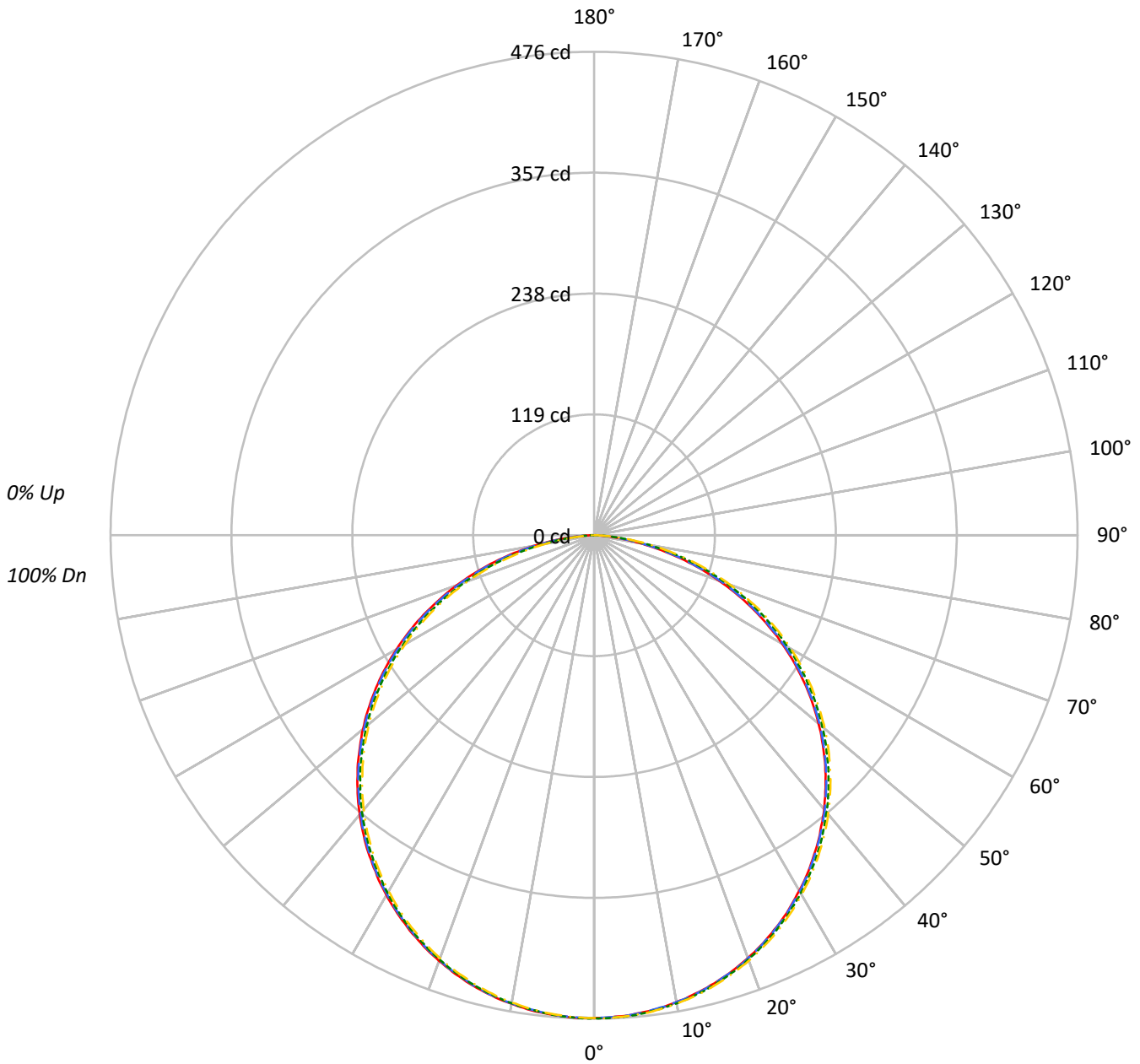
Lumens per Lamp: N/A  
 Luminaire Lumens: 1392.1 lumens  
 Efficiency: N/A  
 Efficacy: 96.0 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Circular (Dia: 1.17' x H: 0')  
 CIE Type: Direct

Input Watts (W): 14.5  
 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	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	79	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	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	42	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°	4784	4784	4784	4784
5°	4777	4789	4788	4788
10°	4770	4782	4785	4779
15°	4759	4774	4784	4774
20°	4743	4758	4776	4762
25°	4725	4747	4769	4747
30°	4693	4728	4753	4726
35°	4665	4706	4735	4700
40°	4628	4678	4715	4670
45°	4578	4644	4688	4627
50°	4515	4593	4653	4573
55°	4432	4534	4598	4504
60°	4305	4436	4518	4392
65°	4129	4300	4405	4236
70°	3857	4087	4225	3993
75°	3437	3756	3935	3612
80°	2764	3205	3460	2996
85°	1686	2286	2679	1998

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 CATALOG NUMBER: SMX14RLSFS010-1300LM-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.0	3.2
10°-20°	129.3	9.3
20°-30°	197.0	14.1
30°-40°	239.4	17.2
40°-50°	251.1	18.0
50°-60°	229.8	16.5
60°-70°	177.0	12.7
70°-80°	100.1	7.2
80°-90°	23.4	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	371.3	26.7
0°-40°	610.7	43.9
0°-60°	1091.6	78.4
0°-90°	1392.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1392.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	475	475	475	475	475	
5°	473	474	474	474	473	45
15°	457	458	459	458	457	129
25°	426	428	430	428	426	196
35°	380	383	385	383	380	238
45°	322	326	329	325	322	248
55°	253	258	262	257	253	225
65°	173	181	185	178	173	171
75°	88	97	101	93	88	93
85°	15	20	23	17	15	19
90°	0	0	0	0	0	

TEST NUMBER: P869638  
 CATALOG NUMBER: SMX14RLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4
0.5°	475.2	475.1	475.1	475.6	475.7	475.9	475.6	475.4	475.3	475.1	475.3
1°	475.3	474.8	475.0	475.7	475.7	475.7	475.6	475.3	475.5	475.2	475.0
1.5°	475.1	475.0	474.9	475.3	475.6	475.7	475.6	475.4	475.6	475.0	475.1
2°	475.0	474.5	474.7	475.0	475.7	475.6	475.3	475.4	475.5	474.8	475.1
2.5°	474.5	474.5	474.8	475.1	475.3	475.4	475.2	475.2	475.3	474.8	474.9
3°	474.4	474.2	474.5	474.7	475.1	475.2	474.9	475.0	475.1	474.8	474.7
3.5°	474.3	474.0	474.4	474.5	475.1	475.1	474.8	474.8	474.7	474.6	474.5
4°	474.0	473.6	474.0	474.2	474.7	474.7	474.5	474.5	474.4	474.4	474.5
4.5°	473.5	473.2	473.6	473.7	474.3	474.4	474.2	474.3	474.1	474.1	473.9
5°	472.9	472.6	473.2	473.6	474.1	473.9	473.9	474.0	474.0	473.7	473.7
5.5°	472.4	472.1	472.7	472.8	473.5	473.6	473.5	473.5	473.5	473.5	473.3
6°	472.0	471.7	472.3	472.3	473.2	473.0	473.1	473.1	473.2	473.0	472.8
6.5°	471.7	471.2	471.9	471.9	472.6	472.6	472.9	472.7	472.7	472.7	472.3
7°	471.1	470.8	470.9	471.3	472.0	471.8	472.3	472.1	472.4	472.1	471.7
7.5°	470.6	470.2	470.3	470.7	471.4	471.3	471.7	471.5	472.0	471.6	471.1
8°	469.9	469.6	469.6	470.2	470.7	470.6	471.1	471.1	471.4	471.1	470.8
8.5°	469.2	468.9	469.3	469.6	470.2	470.0	470.3	470.3	470.4	470.4	470.1
9°	468.4	468.3	468.5	468.7	469.3	469.7	470.0	469.7	469.8	469.5	469.6
9.5°	467.5	467.4	467.7	468.1	468.7	468.7	469.0	469.0	469.3	469.0	468.7
10°	466.8	466.7	466.7	467.5	468.0	468.0	468.4	468.4	468.3	468.5	468.1
10.5°	465.9	466.0	466.2	466.6	467.2	467.3	467.4	467.7	467.8	467.7	467.3
11°	465.4	464.9	465.3	465.9	466.3	466.4	466.6	466.8	467.1	466.7	466.5
11.5°	464.1	464.0	464.7	464.8	465.4	465.4	466.0	466.0	466.2	465.7	465.6
12°	463.2	463.1	463.6	463.9	464.7	464.6	465.1	465.1	465.4	465.0	464.7
12.5°	462.0	462.3	462.6	462.9	463.5	463.9	464.0	464.4	464.1	464.3	463.9
13°	461.3	461.3	461.5	461.6	462.5	463.0	463.2	463.4	463.5	463.2	463.1
13.5°	460.1	460.1	460.5	460.9	461.6	461.9	462.2	462.3	462.5	462.0	462.0
14°	459.1	458.9	459.4	459.8	460.5	460.8	461.1	461.1	461.4	461.0	460.8
14.5°	457.6	457.7	458.2	458.9	459.3	459.6	460.1	460.3	460.4	460.2	459.8
15°	456.8	456.5	457.2	457.3	458.2	458.5	458.8	459.3	459.2	458.9	458.9
15.5°	455.5	455.3	455.7	456.2	456.9	457.2	457.7	458.0	458.2	457.8	457.4
16°	454.1	454.3	454.4	455.1	455.7	456.0	456.5	456.5	457.0	456.5	456.0
16.5°	453.0	453.1	453.1	453.8	454.3	454.6	455.2	455.2	455.6	455.4	454.9
17°	451.8	451.8	452.1	452.5	453.1	453.3	454.0	454.1	454.1	454.3	453.7
17.5°	450.3	450.4	450.8	451.5	451.6	452.2	452.8	452.8	453.1	452.7	452.5
18°	448.9	448.9	449.3	449.9	450.6	450.9	451.5	451.6	451.8	451.6	451.0
18.5°	447.4	447.3	447.9	448.2	448.9	449.5	449.8	450.1	450.2	450.3	449.8
19°	446.0	445.8	446.6	446.7	447.3	448.0	448.5	448.6	449.1	448.6	448.2
19.5°	444.3	444.4	444.9	445.5	446.0	446.4	447.3	447.3	447.2	447.5	446.7
20°	442.9	442.8	443.4	443.9	444.3	445.2	445.8	446.0	446.0	445.9	445.4
20.5°	441.4	441.1	441.7	442.5	442.8	443.6	444.2	444.5	444.3	444.4	443.9
21°	439.9	439.7	440.0	440.6	441.3	441.8	442.6	443.0	443.0	442.8	442.1
21.5°	438.1	437.9	438.5	439.1	439.8	440.4	441.0	441.4	441.5	441.1	440.6
22°	436.2	436.5	437.0	437.3	437.9	438.7	439.6	439.7	439.8	439.4	438.9

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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°	434.7	434.5	435.1	435.6	436.4	437.0	437.6	438.1	438.2	437.8	437.4
23°	432.9	432.7	433.1	434.1	434.7	435.2	436.1	436.6	436.2	436.2	435.6
23.5°	431.0	431.0	431.2	432.1	432.8	433.3	434.4	434.5	434.5	434.7	433.7
24°	429.2	429.2	429.7	430.2	431.1	431.8	432.7	432.9	432.8	432.9	432.0
24.5°	427.1	427.4	427.7	428.4	429.4	429.8	430.8	431.1	431.1	430.8	430.3
25°	425.5	425.3	426.0	426.5	427.5	428.0	429.0	429.3	429.5	429.3	428.3
25.5°	423.4	423.6	423.9	424.6	425.3	426.2	427.1	427.5	427.4	427.3	426.5
26°	421.4	421.7	421.9	422.7	423.6	424.5	425.0	425.5	425.3	425.5	424.7
26.5°	419.4	419.4	419.7	420.7	421.6	422.3	423.3	423.5	423.4	423.4	422.6
27°	417.6	417.4	417.9	418.4	419.9	420.2	421.3	421.7	421.4	421.5	420.4
27.5°	415.2	415.2	415.8	416.3	417.7	418.2	419.1	419.5	419.5	419.5	418.6
28°	413.0	413.1	413.7	414.3	415.3	416.4	417.2	417.6	417.4	417.4	416.5
28.5°	410.7	410.9	411.4	411.9	413.4	414.1	415.0	415.3	415.3	415.1	414.4
29°	408.6	408.9	409.2	410.0	411.2	411.9	413.1	413.4	413.4	413.0	412.4
29.5°	406.1	406.4	407.0	407.8	409.2	409.7	410.9	411.2	411.3	411.2	410.2
30°	403.9	404.2	404.7	405.7	406.9	407.6	408.8	409.1	409.0	408.9	407.9
30.5°	402.0	402.0	402.7	403.5	404.8	405.4	406.4	406.9	406.7	406.8	405.8
31°	399.6	400.0	400.1	401.0	402.7	403.0	404.1	404.9	404.5	404.6	403.6
31.5°	397.2	397.3	397.9	398.8	400.2	401.0	402.0	402.4	402.4	402.5	401.4
32°	395.0	395.1	395.7	396.5	397.8	398.7	400.0	400.2	400.3	400.3	399.0
32.5°	392.6	392.8	392.9	393.8	395.3	396.3	397.5	398.1	397.6	397.6	396.8
33°	389.9	390.5	390.5	391.5	393.0	393.6	395.0	395.6	395.0	395.3	394.4
33.5°	387.2	387.8	388.2	389.2	390.5	391.3	392.4	393.3	392.8	392.8	392.0
34°	384.9	385.3	385.5	386.7	388.3	389.0	390.1	390.8	390.4	390.4	389.5
34.5°	382.2	382.6	383.2	384.1	385.7	386.5	387.7	388.4	387.8	387.9	387.0
35°	379.7	380.1	380.7	381.4	383.1	383.9	385.2	385.6	385.4	385.4	384.6
35.5°	377.1	377.3	378.0	378.8	380.5	381.4	382.5	383.1	383.1	383.0	382.1
36°	374.5	374.7	375.2	376.2	378.0	378.9	380.2	380.6	380.6	380.3	379.5
36.5°	371.9	372.0	372.8	373.6	375.6	376.1	377.6	378.0	378.0	378.1	376.8
37°	369.2	369.3	369.9	370.9	372.8	373.7	374.9	375.6	375.3	375.3	374.4
37.5°	366.2	366.6	367.2	368.2	369.9	370.9	372.2	372.7	372.6	372.5	371.7
38°	363.3	363.9	364.5	365.4	367.3	368.5	369.7	370.1	369.8	369.7	369.1
38.5°	360.8	361.1	361.6	362.5	364.5	365.5	366.9	367.3	367.3	367.0	366.3
39°	357.9	358.1	358.8	359.8	361.6	362.7	364.2	364.8	364.6	364.3	363.4
39.5°	355.2	355.2	356.0	357.1	358.7	360.0	361.5	362.0	361.8	361.6	360.4
40°	352.3	352.7	353.2	354.3	356.1	357.4	358.4	359.2	358.9	358.8	357.6
40.5°	349.2	349.6	350.4	351.4	353.3	354.5	355.7	356.3	356.2	356.0	354.8
41°	346.3	346.9	347.4	348.6	350.5	351.7	352.8	353.5	353.5	353.1	352.1
41.5°	343.3	343.8	344.4	345.8	347.6	348.9	350.0	350.5	350.5	350.1	349.0
42°	340.3	340.8	341.3	342.7	344.6	345.8	346.9	347.5	347.4	347.2	346.2
42.5°	337.1	337.8	338.2	339.7	341.6	342.7	344.0	344.7	344.5	344.4	343.2
43°	334.0	334.6	335.2	336.5	338.6	339.8	341.1	341.9	341.5	341.3	340.3
43.5°	331.1	331.6	332.2	333.6	335.3	336.7	337.9	338.9	338.6	338.2	337.3
44°	328.2	328.4	329.0	330.3	332.4	333.7	335.1	335.6	335.5	335.2	334.3
44.5°	324.7	325.1	326.0	327.3	329.4	330.7	331.8	332.4	332.4	332.1	331.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	321.7	322.0	322.9	324.2	326.3	327.5	328.8	329.4	329.4	329.1	328.0
45.5°	318.6	318.7	319.6	321.0	323.1	324.3	325.7	326.1	326.3	325.9	324.8
46°	315.3	315.6	316.3	317.8	319.7	321.1	322.6	323.1	323.2	322.9	321.8
46.5°	312.1	312.3	313.0	314.4	316.5	318.0	319.4	319.8	319.9	319.6	318.5
47°	308.7	309.0	309.9	311.3	313.2	314.7	316.2	316.6	316.7	316.3	315.2
47.5°	305.5	305.6	306.7	308.0	310.1	311.5	312.9	313.5	313.4	313.2	312.1
48°	302.1	302.3	303.5	304.7	306.9	308.2	309.7	310.3	310.2	309.8	309.0
48.5°	298.8	299.0	300.0	301.3	303.6	304.9	306.4	307.1	307.1	306.6	305.6
49°	295.5	295.6	296.7	298.0	300.2	301.5	303.2	303.8	303.7	303.3	302.3
49.5°	292.0	292.2	293.2	294.7	296.8	298.2	299.7	300.2	300.5	300.1	299.0
50°	288.4	288.7	289.7	291.2	293.4	295.0	296.5	297.1	297.2	296.8	295.4
50.5°	284.9	285.2	286.3	287.9	290.0	291.6	293.1	293.6	293.6	293.3	292.1
51°	281.5	281.7	282.7	284.3	286.7	288.1	289.5	290.3	290.3	289.7	288.8
51.5°	277.9	278.3	279.3	280.8	283.1	284.7	286.1	286.8	286.9	286.3	285.2
52°	274.3	274.7	275.6	277.3	279.8	281.2	282.9	283.6	283.3	282.8	281.9
52.5°	270.7	271.1	272.2	273.7	276.2	277.7	279.3	280.0	279.7	279.3	278.2
53°	267.2	267.6	268.7	270.2	272.6	274.2	275.7	276.5	276.3	275.9	274.7
53.5°	263.5	263.7	265.0	266.5	269.2	270.7	272.0	272.9	272.7	272.3	271.3
54°	259.9	260.0	261.2	262.8	265.6	267.0	268.6	269.4	269.1	268.9	267.6
54.5°	256.3	256.7	257.7	259.1	261.8	263.5	265.0	265.6	265.6	265.2	263.8
55°	252.6	253.0	254.0	255.7	258.4	260.0	261.5	262.3	262.1	261.6	260.3
55.5°	248.9	249.1	250.4	251.8	254.7	256.4	257.8	258.7	258.5	257.9	256.8
56°	245.1	245.4	246.6	248.2	251.1	252.5	254.3	255.1	254.8	254.3	253.1
56.5°	241.2	241.6	242.9	244.3	247.3	248.8	250.5	251.2	251.2	250.4	249.5
57°	237.4	237.8	239.0	240.4	243.5	245.2	246.9	247.7	247.4	246.8	245.7
57.5°	233.5	233.9	235.1	236.6	239.7	241.3	243.0	243.7	243.7	243.1	241.9
58°	229.9	230.1	231.2	232.9	235.9	237.7	239.3	240.0	239.8	239.2	238.1
58.5°	225.9	226.1	227.4	229.0	232.1	233.8	235.4	236.2	236.3	235.4	234.4
59°	221.9	222.4	223.5	225.2	228.3	230.0	231.6	232.4	232.5	231.4	230.4
59.5°	217.9	218.4	219.5	221.2	224.4	226.2	227.7	228.6	228.4	227.8	226.6
60°	213.9	214.4	215.8	217.4	220.4	222.3	223.9	224.7	224.5	223.8	222.6
60.5°	210.2	210.5	211.5	213.4	216.4	218.5	220.0	220.8	220.7	220.0	218.8
61°	206.3	206.6	207.8	209.7	212.5	214.5	216.2	216.9	216.7	216.0	215.1
61.5°	202.1	202.5	203.8	205.6	208.5	210.6	212.1	212.9	213.0	212.1	211.1
62°	198.0	198.6	199.8	201.5	204.9	206.8	208.3	209.1	209.0	208.3	207.2
62.5°	193.8	194.4	195.5	197.4	200.8	202.8	204.5	205.1	205.1	204.3	203.1
63°	189.8	190.4	191.6	193.4	196.8	198.8	200.3	201.2	201.1	200.3	199.2
63.5°	185.7	186.4	187.6	189.3	192.7	194.7	196.5	197.1	197.1	196.3	195.1
64°	181.5	182.2	183.5	185.3	188.6	190.8	192.3	192.9	193.0	192.2	191.1
64.5°	177.6	178.2	179.4	181.2	184.6	186.5	188.3	188.9	188.9	188.2	186.8
65°	173.4	174.0	175.4	177.2	180.6	182.7	184.4	185.0	185.0	184.3	183.1
65.5°	169.2	169.9	171.1	173.1	176.6	178.5	180.2	180.9	181.0	180.3	178.8
66°	165.0	165.6	166.9	168.8	172.3	174.4	176.0	176.8	176.7	176.1	174.7
66.5°	160.8	161.5	162.6	164.5	168.2	170.2	171.8	172.6	172.5	171.7	170.5
67°	156.8	157.2	158.5	160.5	164.0	166.0	167.6	168.5	168.4	167.8	166.3



TEST NUMBER: P869638  
 CATALOG NUMBER: SMX14RLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	152.4	153.1	154.4	156.3	159.9	161.8	163.5	164.4	164.4	163.6	162.1
68°	148.2	148.8	150.2	152.1	155.7	157.8	159.6	160.2	160.2	159.4	158.1
68.5°	143.9	144.6	145.9	147.9	151.6	153.7	155.2	156.0	156.0	155.2	154.1
69°	139.6	140.2	141.6	143.6	147.4	149.4	151.1	151.9	151.9	151.0	149.9
69.5°	135.4	136.0	137.5	139.2	143.2	145.3	147.0	147.7	147.7	146.8	145.5
70°	131.1	131.7	133.1	135.0	138.9	141.0	142.7	143.4	143.6	142.7	141.2
70.5°	126.9	127.5	128.9	130.9	134.9	136.7	138.5	139.3	139.3	138.5	137.0
71°	122.6	123.0	124.6	126.5	130.6	132.7	134.5	135.2	135.2	134.3	132.9
71.5°	118.1	118.9	120.2	122.1	126.3	128.5	130.1	130.9	130.9	130.0	128.5
72°	114.0	114.6	116.0	117.9	121.9	124.2	126.0	126.6	126.7	125.8	124.3
72.5°	109.8	110.4	111.9	113.8	117.7	119.9	121.6	122.4	122.5	121.5	120.1
73°	105.5	106.1	107.6	109.4	113.4	115.6	117.4	118.0	118.1	117.2	115.7
73.5°	101.2	101.8	103.3	105.1	109.4	111.5	113.2	113.9	114.0	113.1	111.6
74°	96.9	97.6	99.0	100.9	105.1	107.3	109.1	109.7	109.8	108.8	107.4
74.5°	92.6	93.3	94.8	96.6	100.8	103.0	104.7	105.5	105.5	104.7	103.1
75°	88.4	89.0	90.5	92.4	96.6	98.7	100.4	101.2	101.2	100.3	98.9
75.5°	84.2	84.8	86.3	88.2	92.3	94.5	96.1	97.0	96.9	96.1	94.6
76°	79.9	80.6	82.1	83.9	88.1	90.2	91.8	92.7	92.8	91.8	90.3
76.5°	75.7	76.5	77.9	79.7	83.9	86.2	87.7	88.4	88.5	87.6	86.0
77°	71.5	72.2	73.8	75.6	79.7	81.8	83.5	84.3	84.2	83.5	82.0
77.5°	67.6	68.3	69.7	71.6	75.6	77.7	79.4	80.1	80.1	79.3	77.8
78°	63.4	64.2	65.6	67.3	71.4	73.6	75.3	75.9	75.9	75.0	73.7
78.5°	59.4	60.1	61.6	63.5	67.3	69.4	71.1	71.7	71.8	71.0	69.5
79°	55.4	56.1	57.6	59.4	63.4	65.3	66.9	67.6	67.6	66.8	65.5
79.5°	51.5	52.1	53.6	55.4	59.3	61.4	63.0	63.7	63.7	62.9	61.3
80°	47.7	48.2	49.7	51.5	55.3	57.4	59.0	59.7	59.7	58.9	57.5
80.5°	43.8	44.5	45.9	47.6	51.5	53.5	55.1	55.7	55.7	54.9	53.4
81°	40.1	40.8	42.1	43.8	47.6	49.5	51.1	51.8	51.8	51.1	49.6
81.5°	36.5	37.2	38.4	40.2	43.8	45.7	47.2	47.9	47.8	47.0	45.7
82°	32.9	33.5	34.9	36.4	40.0	42.0	43.3	44.1	44.1	43.3	41.9
82.5°	29.5	30.2	31.4	33.0	36.5	38.3	39.7	40.4	40.4	39.6	38.3
83°	26.2	26.8	28.0	29.5	32.9	34.8	36.2	36.9	36.8	36.1	34.7
83.5°	23.1	23.6	24.8	26.2	29.5	31.1	32.6	33.3	33.2	32.4	31.2
84°	20.0	20.6	21.8	23.1	26.0	27.9	29.1	29.8	29.8	28.9	27.7
84.5°	17.2	17.8	18.8	20.1	22.9	24.5	25.8	26.4	26.4	25.6	24.5
85°	14.6	15.1	16.1	17.2	19.8	21.4	22.7	23.3	23.2	22.5	21.5
85.5°	12.0	12.4	13.5	14.6	17.0	18.4	19.6	20.1	20.1	19.4	18.4
86°	9.7	10.0	11.0	12.1	14.5	15.7	16.7	17.2	17.2	16.5	15.6
86.5°	7.4	7.8	8.7	9.7	12.1	13.3	14.2	14.7	14.7	14.1	13.1
87°	5.3	5.6	6.3	7.4	9.8	10.9	11.9	12.4	12.3	11.8	10.8
87.5°	3.9	4.0	4.6	5.4	7.7	8.7	9.6	10.0	9.9	9.4	8.6
88°	2.4	2.7	3.1	3.9	5.7	6.6	7.4	7.8	7.8	7.3	6.6
88.5°	1.4	1.6	2.0	2.5	3.9	4.8	5.4	5.8	5.7	5.3	4.7
89°	0.9	1.0	1.2	1.5	2.5	3.2	3.8	4.1	4.0	3.6	3.2
89.5°	0.6	0.5	0.7	0.8	1.4	2.0	2.3	2.6	2.6	2.3	1.8

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



TEST NUMBER: P869638  
CATALOG NUMBER: SMX14RLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P869638  
 CATALOG NUMBER: SMX14RLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	475.4	475.4	475.4	475.4	475.4	475.4
0.5°	475.4	475.9	475.7	475.4	475.6	475.2
1°	475.4	475.9	475.6	475.3	475.4	475.3
1.5°	475.5	475.8	475.5	475.0	475.0	475.1
2°	475.3	475.6	475.3	475.1	475.0	475.0
2.5°	475.0	475.3	475.1	474.8	474.7	474.5
3°	474.8	474.9	475.0	474.7	474.7	474.4
3.5°	474.8	474.8	474.7	474.4	474.5	474.3
4°	474.5	474.5	474.2	473.8	473.6	474.0
4.5°	474.1	474.2	474.1	473.5	473.6	473.5
5°	473.6	474.0	473.6	473.1	472.9	472.9
5.5°	473.5	473.3	473.4	472.8	472.8	472.4
6°	473.0	472.9	472.7	472.3	472.4	472.0
6.5°	472.3	472.1	472.2	471.7	471.8	471.7
7°	471.8	471.7	471.7	471.2	471.3	471.1
7.5°	471.2	471.2	471.1	470.6	470.9	470.6
8°	470.6	470.5	470.5	470.1	470.4	469.9
8.5°	470.2	469.9	469.6	469.4	469.5	469.2
9°	469.6	469.4	469.2	468.5	468.7	468.4
9.5°	468.9	468.7	468.4	467.7	467.9	467.5
10°	468.0	467.7	467.5	467.2	467.1	466.8
10.5°	467.2	467.1	466.8	466.2	465.9	465.9
11°	466.5	466.2	465.9	465.4	465.0	465.4
11.5°	465.5	465.3	465.0	464.4	464.3	464.1
12°	464.6	464.4	464.1	463.6	463.5	463.2
12.5°	463.7	463.5	463.2	462.4	462.3	462.0
13°	462.6	462.7	462.2	461.6	461.4	461.3
13.5°	461.6	461.5	461.1	460.4	460.4	460.1
14°	460.7	460.4	460.2	459.3	459.1	459.1
14.5°	459.3	459.3	459.0	458.2	458.1	457.6
15°	458.3	458.2	457.8	457.0	456.8	456.8
15.5°	457.4	457.0	456.5	455.8	455.6	455.5
16°	456.0	455.8	455.2	454.4	454.4	454.1
16.5°	454.8	454.6	453.9	453.1	453.0	453.0
17°	453.6	453.2	452.5	451.9	451.8	451.8
17.5°	452.5	451.8	451.4	450.6	450.6	450.3
18°	450.9	450.5	449.6	449.1	448.9	448.9
18.5°	449.7	449.2	448.6	447.7	447.7	447.4
19°	448.2	447.7	447.1	446.4	446.0	446.0
19.5°	446.6	446.1	445.8	445.0	444.6	444.3
20°	445.2	444.7	444.0	443.3	443.1	442.9
20.5°	443.7	443.0	442.4	441.7	441.6	441.4
21°	442.0	441.5	440.8	440.1	439.6	439.9
21.5°	440.3	439.9	439.1	438.4	438.1	438.1
22°	438.7	438.2	437.4	436.6	436.0	436.2

TEST NUMBER: P869638  
 CATALOG NUMBER: SMX14RLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	436.9	436.3	435.7	434.8	434.5	434.7
23°	435.3	434.8	434.1	433.0	432.7	432.9
23.5°	433.5	433.0	432.4	431.2	431.0	431.0
24°	431.7	431.2	430.4	429.3	429.0	429.2
24.5°	430.1	429.3	428.6	427.4	427.1	427.1
25°	428.3	427.5	426.8	425.9	425.4	425.5
25.5°	426.3	425.7	424.7	423.8	423.5	423.4
26°	424.3	423.8	422.8	422.0	421.4	421.4
26.5°	422.1	421.6	420.7	419.8	419.5	419.4
27°	420.2	419.6	418.8	417.6	417.3	417.6
27.5°	418.5	417.4	416.6	415.6	415.2	415.2
28°	416.0	415.3	414.6	413.2	412.8	413.0
28.5°	414.0	413.3	412.4	411.2	410.5	410.7
29°	412.1	411.1	410.1	409.0	408.5	408.6
29.5°	409.9	408.9	407.9	406.7	406.3	406.1
30°	407.7	406.7	405.9	404.5	404.2	403.9
30.5°	405.4	404.5	403.6	402.4	401.8	402.0
31°	403.3	402.1	400.9	400.1	399.6	399.6
31.5°	401.1	399.5	398.8	397.8	397.2	397.2
32°	398.6	397.5	396.4	395.4	394.7	395.0
32.5°	396.3	395.0	394.2	392.9	392.3	392.6
33°	393.8	392.6	391.7	390.5	389.9	389.9
33.5°	391.4	390.0	389.0	388.0	387.4	387.2
34°	388.9	387.8	386.4	385.3	384.9	384.9
34.5°	386.6	385.0	384.0	382.8	382.0	382.2
35°	383.8	382.6	381.2	380.3	379.7	379.7
35.5°	381.4	380.1	379.1	377.7	377.0	377.1
36°	378.7	377.5	376.3	374.9	374.5	374.5
36.5°	376.3	374.6	373.4	372.2	371.6	371.9
37°	373.4	372.1	370.6	369.8	369.1	369.2
37.5°	371.2	369.5	368.3	367.2	366.4	366.2
38°	368.1	366.6	365.3	364.1	363.4	363.3
38.5°	365.4	363.8	362.4	361.2	360.8	360.8
39°	362.5	361.0	359.6	358.7	358.1	357.9
39.5°	359.9	358.1	356.9	355.7	355.1	355.2
40°	356.9	355.5	354.2	352.9	352.3	352.3
40.5°	354.3	352.6	351.1	350.0	349.5	349.2
41°	351.2	349.7	348.1	347.0	346.4	346.3
41.5°	348.6	346.6	345.2	344.0	343.2	343.3
42°	345.5	343.6	342.2	340.8	340.4	340.3
42.5°	342.4	340.6	339.2	337.9	337.3	337.1
43°	339.5	337.4	336.2	334.8	334.2	334.0
43.5°	336.4	334.5	333.3	331.7	331.2	331.1
44°	333.3	331.5	330.0	328.5	328.0	328.2
44.5°	330.3	328.3	326.9	325.5	324.8	324.7

TEST NUMBER: P869638  
 CATALOG NUMBER: SMX14RLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	327.2	325.1	323.7	322.4	321.7	321.7
45.5°	324.0	321.9	320.5	319.0	318.7	318.6
46°	320.8	318.9	317.2	316.0	315.3	315.3
46.5°	317.6	315.4	314.0	312.7	311.8	312.1
47°	314.4	312.3	310.7	309.5	308.5	308.7
47.5°	311.1	309.0	307.4	306.2	305.3	305.5
48°	307.8	305.6	304.1	302.9	302.0	302.1
48.5°	304.7	302.3	300.8	299.5	298.9	298.8
49°	301.3	299.1	297.4	296.0	295.5	295.5
49.5°	297.8	295.7	294.1	292.6	291.8	292.0
50°	294.5	292.1	290.5	289.3	288.5	288.4
50.5°	290.9	288.7	287.2	285.8	285.1	284.9
51°	287.5	285.3	283.6	282.2	281.7	281.5
51.5°	284.4	281.8	280.2	278.7	278.0	277.9
52°	280.7	278.3	276.8	275.3	274.4	274.3
52.5°	277.1	274.6	273.1	271.7	270.9	270.7
53°	273.5	271.1	269.6	268.0	267.1	267.2
53.5°	270.0	267.5	265.8	264.3	263.5	263.5
54°	266.3	263.7	262.2	260.7	259.8	259.9
54.5°	262.8	260.2	258.6	257.1	256.4	256.3
55°	259.2	256.7	254.9	253.4	252.7	252.6
55.5°	255.6	252.8	251.1	249.9	249.0	248.9
56°	251.9	249.0	247.5	246.0	245.1	245.1
56.5°	248.1	245.4	243.6	242.1	241.5	241.2
57°	244.4	241.6	239.9	238.3	237.4	237.4
57.5°	240.6	237.7	235.9	234.4	233.5	233.5
58°	236.8	233.9	232.1	230.5	229.8	229.9
58.5°	233.1	230.1	228.2	226.6	225.8	225.9
59°	229.2	226.1	224.2	222.6	221.9	221.9
59.5°	225.2	222.4	220.5	218.6	217.8	217.9
60°	221.3	218.2	216.4	214.7	214.0	213.9
60.5°	217.4	214.3	212.4	210.6	210.0	210.2
61°	213.4	210.3	208.5	207.0	206.1	206.3
61.5°	209.6	206.3	204.5	202.9	202.1	202.1
62°	205.7	202.3	200.5	198.8	198.0	198.0
62.5°	201.6	198.2	196.4	194.5	193.8	193.8
63°	197.6	194.2	192.3	190.6	189.9	189.8
63.5°	193.5	189.9	188.2	186.6	185.8	185.7
64°	189.5	186.0	184.1	182.6	181.8	181.5
64.5°	185.3	182.0	180.0	178.5	177.6	177.6
65°	181.4	177.9	175.8	174.3	173.4	173.4
65.5°	177.3	173.6	171.8	170.1	169.3	169.2
66°	173.0	169.6	167.5	165.7	165.0	165.0
66.5°	168.8	165.3	163.3	161.6	160.8	160.8
67°	164.7	161.2	159.2	157.5	156.6	156.8

TEST NUMBER: P869638  
 CATALOG NUMBER: SMX14RLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	160.8	156.9	154.9	153.4	152.3	152.4
68°	156.5	152.8	150.5	149.0	148.2	148.2
68.5°	152.3	148.5	146.4	144.6	143.8	143.9
69°	148.0	144.2	142.1	140.6	139.5	139.6
69.5°	143.8	140.0	137.9	136.1	135.2	135.4
70°	139.7	135.7	133.7	131.8	131.2	131.1
70.5°	135.4	131.4	129.4	127.8	126.9	126.9
71°	131.1	127.0	125.1	123.3	122.4	122.6
71.5°	126.9	122.7	120.8	119.1	118.0	118.1
72°	122.6	118.6	116.5	114.8	114.0	114.0
72.5°	118.4	114.3	112.3	110.6	109.8	109.8
73°	114.0	110.0	107.9	106.2	105.5	105.5
73.5°	109.8	105.7	103.7	102.0	101.0	101.2
74°	105.6	101.5	99.3	97.7	96.8	96.9
74.5°	101.3	97.2	95.2	93.4	92.5	92.6
75°	97.0	92.9	90.9	89.2	88.5	88.4
75.5°	92.8	88.7	86.7	84.9	83.9	84.2
76°	88.5	84.4	82.4	80.7	79.9	79.9
76.5°	84.4	80.2	78.1	76.5	75.8	75.7
77°	80.1	76.1	74.1	72.4	71.5	71.5
77.5°	75.9	72.0	70.0	68.4	67.6	67.6
78°	71.8	67.7	65.8	64.3	63.4	63.4
78.5°	67.6	63.7	61.9	60.2	59.5	59.4
79°	63.6	59.7	57.8	56.3	55.5	55.4
79.5°	59.5	55.7	53.8	52.2	51.5	51.5
80°	55.7	51.7	49.7	48.2	47.5	47.7
80.5°	51.7	47.9	46.0	44.4	43.7	43.8
81°	47.8	44.0	42.2	40.8	40.1	40.1
81.5°	43.9	40.4	38.6	37.1	36.4	36.5
82°	40.2	36.8	35.0	33.5	32.9	32.9
82.5°	36.7	33.3	31.6	30.3	29.5	29.5
83°	33.1	29.7	28.2	26.8	26.2	26.2
83.5°	29.6	26.4	24.9	23.6	23.0	23.1
84°	26.2	23.3	21.8	20.6	20.0	20.0
84.5°	23.1	20.3	18.9	17.8	17.2	17.2
85°	20.0	17.3	16.1	15.1	14.6	14.6
85.5°	17.0	14.8	13.5	12.6	12.1	12.0
86°	14.5	12.3	11.1	10.1	9.7	9.7
86.5°	12.1	9.9	8.7	7.7	7.4	7.4
87°	9.8	7.5	6.4	5.7	5.3	5.3
87.5°	7.6	5.4	4.7	4.1	3.8	3.9
88°	5.7	3.9	3.2	2.7	2.5	2.4
88.5°	3.9	2.5	2.0	1.7	1.5	1.4
89°	2.5	1.6	1.3	1.0	0.8	0.9
89.5°	1.3	1.0	0.7	0.6	0.8	0.6

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869638  
CATALOG NUMBER: SMX14RLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)