

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: P869654

Luminaire Tested: **SMX14RLSFSD2W-1300LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869654  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX14RLSFSD2W-1300LM-4000K  
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT  
 Ballast/Driver: -

**Summary**

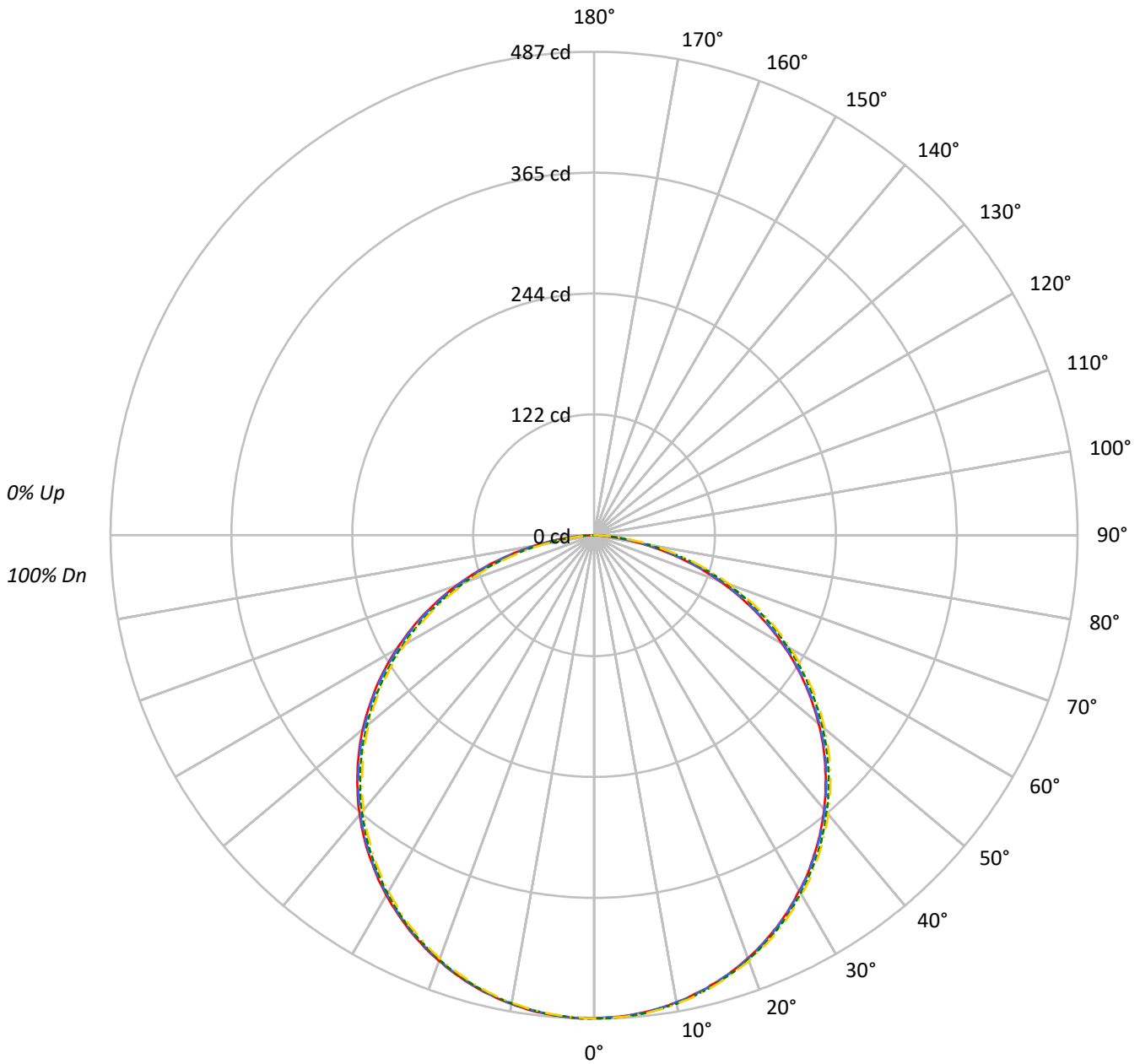
Lumens per Lamp: N/A  
 Luminaire Lumens: 1424.7 lumens  
 Efficiency: N/A  
 Efficacy: 96.9 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Circular (Dia: 1.17' x H: 0')  
 CIE Type: Direct

Input Watts (W): 14.7  
 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	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°	4897	4897	4897	4897
5°	4889	4901	4900	4900
10°	4881	4895	4898	4892
15°	4871	4885	4896	4886
20°	4854	4870	4889	4874
25°	4836	4858	4880	4859
30°	4804	4839	4864	4836
35°	4774	4817	4845	4811
40°	4736	4787	4825	4779
45°	4685	4753	4797	4736
50°	4620	4701	4762	4679
55°	4535	4641	4707	4609
60°	4406	4541	4625	4494
65°	4227	4403	4508	4334
70°	3946	4184	4322	4087
75°	3515	3845	4024	3698
80°	2828	3280	3541	3066
85°	1720	2344	2736	2044

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	3.2
10°-20°	132.3	9.3
20°-30°	201.6	14.1
30°-40°	245.0	17.2
40°-50°	257.0	18.0
50°-60°	235.2	16.5
60°-70°	181.1	12.7
70°-80°	102.5	7.2
80°-90°	23.9	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<b>0°-30°</b>	<b>380.0</b>	<b>26.7</b>
<b>0°-40°</b>	<b>625.0</b>	<b>43.9</b>
<b>0°-60°</b>	<b>1117.2</b>	<b>78.4</b>
<b>0°-90°</b>	<b>1424.7</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>1424.7</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	487	487	487	487	487	
5°	484	485	485	485	484	46
15°	468	469	470	469	468	132
25°	436	438	440	438	436	201
35°	389	392	394	392	389	243
45°	329	334	337	333	329	254
55°	258	264	268	263	258	231
65°	178	185	189	182	178	175
75°	90	99	104	95	90	96
85°	15	20	24	18	15	20
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°	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6
0.5°	486.3	486.2	486.3	486.8	486.9	487.1	486.7	486.5	486.4	486.3	486.4
1°	486.4	486.0	486.2	486.8	486.9	486.9	486.7	486.4	486.6	486.3	486.2
1.5°	486.2	486.1	486.0	486.4	486.8	486.8	486.7	486.6	486.8	486.1	486.2
2°	486.1	485.7	485.8	486.1	486.8	486.7	486.5	486.5	486.6	486.0	486.2
2.5°	485.7	485.6	485.9	486.3	486.5	486.5	486.3	486.3	486.5	486.0	486.0
3°	485.5	485.4	485.6	485.8	486.2	486.3	486.0	486.1	486.2	486.0	485.8
3.5°	485.4	485.1	485.5	485.6	486.2	486.2	486.0	486.0	485.8	485.7	485.6
4°	485.1	484.7	485.1	485.4	485.8	485.8	485.7	485.6	485.5	485.5	485.7
4.5°	484.6	484.3	484.7	484.8	485.4	485.5	485.4	485.4	485.2	485.2	485.0
5°	484.0	483.6	484.3	484.7	485.2	485.1	485.1	485.1	485.1	484.8	484.8
5.5°	483.5	483.2	483.8	483.9	484.6	484.7	484.6	484.6	484.6	484.6	484.4
6°	483.1	482.7	483.3	483.3	484.3	484.1	484.2	484.2	484.3	484.1	483.9
6.5°	482.7	482.3	483.0	483.0	483.6	483.7	484.0	483.8	483.8	483.8	483.4
7°	482.2	481.8	482.0	482.4	483.1	482.9	483.4	483.2	483.5	483.2	482.8
7.5°	481.7	481.2	481.3	481.7	482.4	482.4	482.7	482.6	483.1	482.7	482.1
8°	481.0	480.6	480.6	481.2	481.7	481.7	482.2	482.2	482.4	482.2	481.9
8.5°	480.2	479.9	480.3	480.6	481.2	481.0	481.3	481.3	481.4	481.4	481.1
9°	479.4	479.2	479.5	479.7	480.3	480.7	481.0	480.7	480.8	480.5	480.6
9.5°	478.4	478.4	478.6	479.1	479.7	479.7	480.0	480.0	480.3	480.0	479.7
10°	477.7	477.6	477.6	478.4	479.0	479.0	479.4	479.4	479.3	479.5	479.1
10.5°	476.8	476.9	477.1	477.5	478.1	478.3	478.4	478.6	478.8	478.6	478.3
11°	476.3	475.8	476.2	476.8	477.2	477.3	477.5	477.7	478.0	477.6	477.5
11.5°	475.0	474.8	475.6	475.7	476.4	476.4	477.0	476.9	477.2	476.7	476.5
12°	474.0	474.0	474.5	474.8	475.6	475.5	476.1	476.0	476.3	475.9	475.6
12.5°	472.8	473.1	473.4	473.8	474.4	474.8	474.8	475.3	475.0	475.2	474.8
13°	472.1	472.1	472.3	472.4	473.4	473.9	474.0	474.2	474.3	474.1	473.9
13.5°	470.9	470.9	471.3	471.7	472.4	472.8	473.0	473.2	473.4	472.8	472.9
14°	469.9	469.7	470.2	470.6	471.3	471.6	471.9	471.9	472.3	471.8	471.6
14.5°	468.3	468.5	468.9	469.7	470.1	470.4	470.9	471.1	471.2	471.0	470.6
15°	467.5	467.2	467.9	468.0	468.9	469.2	469.6	470.1	469.9	469.7	469.6
15.5°	466.1	466.0	466.4	466.9	467.6	467.9	468.4	468.8	468.9	468.5	468.2
16°	464.8	464.9	465.0	465.8	466.4	466.7	467.2	467.2	467.7	467.2	466.7
16.5°	463.6	463.7	463.7	464.4	464.9	465.3	465.9	465.9	466.3	466.1	465.5
17°	462.4	462.4	462.7	463.1	463.7	463.9	464.7	464.7	464.8	465.0	464.3
17.5°	460.9	460.9	461.4	462.0	462.2	462.8	463.5	463.5	463.7	463.3	463.1
18°	459.5	459.4	459.8	460.5	461.1	461.5	462.0	462.2	462.4	462.2	461.6
18.5°	457.9	457.8	458.4	458.7	459.5	460.0	460.4	460.7	460.8	460.8	460.3
19°	456.4	456.3	457.0	457.2	457.8	458.6	459.0	459.2	459.6	459.2	458.7
19.5°	454.8	454.8	455.4	456.0	456.5	456.8	457.8	457.8	457.7	457.9	457.2
20°	453.3	453.2	453.8	454.3	454.8	455.6	456.2	456.5	456.5	456.4	455.8
20.5°	451.7	451.5	452.1	452.9	453.2	454.0	454.6	454.9	454.8	454.8	454.3
21°	450.2	450.0	450.4	451.0	451.6	452.1	453.0	453.4	453.4	453.2	452.5
21.5°	448.4	448.2	448.8	449.4	450.1	450.7	451.3	451.8	451.9	451.5	451.0
22°	446.4	446.7	447.2	447.5	448.2	449.0	449.9	450.1	450.1	449.7	449.2

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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°	444.9	444.7	445.3	445.8	446.6	447.2	447.9	448.3	448.5	448.1	447.7
23°	443.0	442.9	443.3	444.2	444.9	445.4	446.3	446.8	446.4	446.4	445.8
23.5°	441.1	441.1	441.4	442.2	443.0	443.5	444.6	444.7	444.7	444.9	443.9
24°	439.2	439.2	439.8	440.3	441.2	442.0	442.9	443.0	443.0	443.1	442.2
24.5°	437.1	437.4	437.8	438.5	439.5	439.9	440.9	441.2	441.2	440.9	440.4
25°	435.5	435.2	436.0	436.5	437.5	438.1	439.0	439.3	439.5	439.3	438.4
25.5°	433.3	433.5	433.8	434.5	435.3	436.2	437.1	437.6	437.4	437.3	436.5
26°	431.3	431.6	431.8	432.6	433.5	434.4	435.0	435.5	435.2	435.5	434.6
26.5°	429.2	429.2	429.6	430.5	431.5	432.2	433.2	433.5	433.3	433.3	432.5
27°	427.4	427.2	427.7	428.2	429.7	430.0	431.1	431.6	431.3	431.4	430.3
27.5°	424.9	425.0	425.6	426.1	427.5	428.0	428.9	429.4	429.3	429.3	428.4
28°	422.6	422.8	423.4	424.0	425.1	426.1	427.0	427.4	427.2	427.2	426.2
28.5°	420.4	420.6	421.0	421.6	423.1	423.8	424.8	425.1	425.1	424.8	424.1
29°	418.2	418.5	418.8	419.6	420.8	421.6	422.8	423.1	423.1	422.7	422.0
29.5°	415.6	415.9	416.6	417.4	418.8	419.3	420.6	420.9	421.0	420.8	419.8
30°	413.4	413.6	414.2	415.2	416.4	417.2	418.4	418.7	418.6	418.5	417.4
30.5°	411.4	411.4	412.2	413.0	414.3	414.9	415.9	416.4	416.3	416.3	415.3
31°	409.0	409.4	409.5	410.4	412.2	412.5	413.6	414.4	414.0	414.1	413.1
31.5°	406.5	406.7	407.3	408.2	409.5	410.4	411.4	411.8	411.8	411.9	410.8
32°	404.3	404.4	405.0	405.8	407.2	408.0	409.4	409.6	409.7	409.7	408.4
32.5°	401.8	402.0	402.1	403.1	404.5	405.6	406.8	407.5	407.0	407.0	406.1
33°	399.1	399.6	399.7	400.7	402.3	402.9	404.3	404.8	404.3	404.6	403.7
33.5°	396.3	396.9	397.3	398.3	399.6	400.4	401.7	402.5	402.0	402.0	401.2
34°	393.9	394.4	394.6	395.8	397.4	398.1	399.2	400.0	399.5	399.6	398.6
34.5°	391.1	391.6	392.2	393.1	394.7	395.6	396.8	397.5	396.9	397.0	396.1
35°	388.6	389.0	389.6	390.4	392.1	392.9	394.2	394.7	394.4	394.4	393.6
35.5°	385.9	386.2	386.9	387.7	389.5	390.4	391.4	392.0	392.0	392.0	391.1
36°	383.3	383.5	384.0	385.0	386.8	387.8	389.1	389.5	389.5	389.2	388.4
36.5°	380.6	380.7	381.5	382.4	384.4	384.9	386.4	386.9	386.9	387.0	385.6
37°	377.8	378.0	378.6	379.6	381.5	382.4	383.7	384.4	384.2	384.2	383.2
37.5°	374.8	375.2	375.8	376.9	378.6	379.6	380.9	381.5	381.3	381.3	380.4
38°	371.9	372.5	373.1	374.0	375.9	377.1	378.4	378.8	378.5	378.3	377.7
38.5°	369.2	369.6	370.1	371.0	373.1	374.1	375.5	376.0	376.0	375.6	374.9
39°	366.3	366.5	367.3	368.2	370.1	371.2	372.7	373.3	373.1	372.9	371.9
39.5°	363.5	363.5	364.4	365.4	367.1	368.5	370.0	370.4	370.3	370.1	368.9
40°	360.5	361.0	361.5	362.6	364.4	365.7	366.8	367.6	367.3	367.3	366.0
40.5°	357.3	357.8	358.6	359.7	361.6	362.8	364.0	364.7	364.5	364.3	363.2
41°	354.4	355.0	355.6	356.8	358.7	360.0	361.1	361.8	361.8	361.4	360.3
41.5°	351.4	351.8	352.5	353.9	355.8	357.0	358.2	358.7	358.8	358.3	357.2
42°	348.3	348.8	349.3	350.7	352.6	353.9	355.1	355.7	355.6	355.3	354.4
42.5°	345.1	345.7	346.2	347.6	349.6	350.7	352.1	352.8	352.6	352.5	351.3
43°	341.9	342.5	343.0	344.4	346.5	347.8	349.2	349.9	349.5	349.3	348.3
43.5°	338.9	339.4	340.0	341.4	343.2	344.6	345.8	346.8	346.5	346.1	345.2
44°	335.9	336.1	336.7	338.1	340.2	341.6	342.9	343.5	343.3	343.0	342.1
44.5°	332.3	332.8	333.7	335.0	337.1	338.4	339.6	340.2	340.2	339.8	338.9

TEST NUMBER: P869654  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	329.2	329.5	330.4	331.8	334.0	335.2	336.5	337.2	337.1	336.9	335.7
45.5°	326.1	326.1	327.1	328.5	330.7	331.9	333.3	333.7	334.0	333.5	332.4
46°	322.7	323.0	323.7	325.3	327.2	328.7	330.1	330.7	330.8	330.5	329.3
46.5°	319.4	319.6	320.3	321.7	323.9	325.4	326.9	327.3	327.4	327.1	326.0
47°	316.0	316.3	317.1	318.6	320.6	322.1	323.6	324.1	324.1	323.7	322.6
47.5°	312.7	312.8	313.9	315.3	317.4	318.8	320.2	320.8	320.8	320.5	319.4
48°	309.2	309.4	310.6	311.8	314.1	315.4	317.0	317.6	317.5	317.1	316.2
48.5°	305.8	306.0	307.1	308.4	310.7	312.1	313.5	314.3	314.3	313.8	312.8
49°	302.4	302.5	303.6	305.0	307.2	308.6	310.3	310.9	310.8	310.4	309.4
49.5°	298.9	299.1	300.1	301.6	303.7	305.2	306.7	307.2	307.5	307.1	306.0
50°	295.1	295.5	296.5	298.0	300.3	301.9	303.5	304.1	304.2	303.7	302.3
50.5°	291.6	291.9	293.0	294.6	296.8	298.4	300.0	300.5	300.5	300.1	298.9
51°	288.1	288.3	289.4	291.0	293.4	294.9	296.3	297.1	297.1	296.5	295.5
51.5°	284.4	284.8	285.8	287.4	289.7	291.4	292.9	293.5	293.6	293.0	291.9
52°	280.7	281.1	282.1	283.8	286.4	287.8	289.5	290.2	290.0	289.4	288.5
52.5°	277.0	277.5	278.6	280.1	282.7	284.2	285.8	286.6	286.3	285.9	284.7
53°	273.5	273.9	275.0	276.5	279.0	280.6	282.2	283.0	282.8	282.4	281.2
53.5°	269.7	269.9	271.3	272.7	275.5	277.1	278.4	279.3	279.1	278.7	277.6
54°	266.0	266.1	267.3	268.9	271.8	273.2	274.9	275.7	275.4	275.2	273.8
54.5°	262.3	262.7	263.7	265.2	268.0	269.7	271.3	271.9	271.8	271.4	270.0
55°	258.5	258.9	260.0	261.7	264.5	266.1	267.6	268.5	268.3	267.8	266.4
55.5°	254.7	254.9	256.3	257.7	260.7	262.4	263.9	264.8	264.6	264.0	262.9
56°	250.9	251.1	252.3	254.0	257.0	258.5	260.3	261.1	260.8	260.2	259.0
56.5°	246.8	247.3	248.6	250.0	253.1	254.7	256.3	257.1	257.1	256.3	255.3
57°	242.9	243.4	244.6	246.0	249.2	251.0	252.7	253.5	253.2	252.6	251.5
57.5°	239.0	239.4	240.6	242.2	245.3	247.0	248.7	249.4	249.4	248.8	247.6
58°	235.3	235.5	236.6	238.4	241.5	243.2	244.9	245.6	245.4	244.8	243.7
58.5°	231.2	231.4	232.8	234.4	237.5	239.3	240.9	241.8	241.8	240.9	239.9
59°	227.1	227.6	228.7	230.5	233.7	235.4	237.1	237.8	237.9	236.9	235.8
59.5°	223.0	223.5	224.7	226.4	229.6	231.5	233.1	233.9	233.7	233.1	231.9
60°	218.9	219.4	220.8	222.5	225.6	227.5	229.2	230.0	229.8	229.1	227.9
60.5°	215.1	215.4	216.5	218.4	221.4	223.6	225.2	226.0	225.9	225.2	223.9
61°	211.1	211.5	212.6	214.6	217.5	219.5	221.3	222.0	221.8	221.0	220.1
61.5°	206.8	207.3	208.5	210.4	213.4	215.5	217.0	217.9	218.0	217.1	216.0
62°	202.6	203.2	204.5	206.2	209.7	211.7	213.2	214.0	213.9	213.2	212.0
62.5°	198.3	199.0	200.1	202.0	205.5	207.6	209.3	209.9	209.9	209.1	207.9
63°	194.2	194.9	196.1	197.9	201.4	203.5	205.0	205.9	205.8	205.0	203.8
63.5°	190.1	190.7	192.0	193.7	197.2	199.3	201.1	201.7	201.7	200.9	199.7
64°	185.7	186.4	187.8	189.6	193.0	195.3	196.8	197.5	197.5	196.7	195.6
64.5°	181.7	182.3	183.6	185.5	189.0	190.9	192.7	193.4	193.4	192.6	191.2
65°	177.5	178.1	179.5	181.4	184.9	186.9	188.7	189.3	189.3	188.6	187.4
65.5°	173.2	173.9	175.1	177.2	180.8	182.7	184.4	185.2	185.2	184.5	183.0
66°	168.8	169.5	170.8	172.7	176.3	178.5	180.1	180.9	180.8	180.2	178.8
66.5°	164.6	165.3	166.4	168.4	172.1	174.1	175.8	176.7	176.5	175.7	174.5
67°	160.5	160.9	162.2	164.2	167.8	169.9	171.6	172.4	172.4	171.7	170.2



TEST NUMBER: P869654  
 CATALOG NUMBER: SMX14RLSFS2W-1300LM-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	156.0	156.7	158.1	160.0	163.6	165.6	167.3	168.2	168.3	167.4	165.9
68°	151.7	152.2	153.7	155.7	159.3	161.5	163.3	163.9	164.0	163.1	161.8
68.5°	147.3	148.0	149.3	151.3	155.2	157.3	158.8	159.7	159.7	158.8	157.7
69°	142.9	143.5	145.0	147.0	150.8	152.9	154.7	155.4	155.4	154.6	153.5
69.5°	138.5	139.1	140.7	142.5	146.6	148.8	150.4	151.1	151.2	150.3	148.9
70°	134.1	134.8	136.3	138.2	142.2	144.3	146.1	146.8	146.9	146.0	144.5
70.5°	129.8	130.5	131.9	134.0	138.0	139.9	141.7	142.6	142.6	141.8	140.2
71°	125.4	125.9	127.5	129.4	133.6	135.8	137.6	138.4	138.4	137.4	136.0
71.5°	120.9	121.6	123.1	125.0	129.2	131.5	133.1	133.9	134.0	133.1	131.6
72°	116.7	117.2	118.7	120.7	124.8	127.1	128.9	129.5	129.7	128.7	127.2
72.5°	112.4	113.0	114.5	116.4	120.5	122.7	124.5	125.3	125.4	124.4	122.9
73°	107.9	108.6	110.1	111.9	116.1	118.3	120.1	120.8	120.9	120.0	118.4
73.5°	103.5	104.1	105.7	107.6	111.9	114.1	115.8	116.6	116.6	115.7	114.2
74°	99.1	99.9	101.3	103.2	107.6	109.8	111.6	112.2	112.3	111.4	110.0
74.5°	94.7	95.5	97.0	98.8	103.2	105.4	107.2	107.9	108.0	107.1	105.5
75°	90.4	91.1	92.6	94.5	98.9	101.0	102.7	103.5	103.5	102.7	101.2
75.5°	86.2	86.8	88.4	90.3	94.5	96.7	98.4	99.3	99.2	98.3	96.8
76°	81.8	82.5	84.0	85.9	90.1	92.3	94.0	94.8	95.0	94.0	92.5
76.5°	77.5	78.3	79.7	81.6	85.9	88.2	89.8	90.5	90.6	89.7	88.1
77°	73.2	73.9	75.5	77.4	81.6	83.8	85.5	86.3	86.2	85.4	84.0
77.5°	69.1	69.9	71.3	73.2	77.3	79.5	81.3	81.9	82.0	81.1	79.6
78°	64.9	65.7	67.1	68.9	73.1	75.3	77.0	77.7	77.7	76.8	75.4
78.5°	60.8	61.5	63.0	65.0	68.8	71.0	72.8	73.4	73.5	72.6	71.1
79°	56.7	57.5	59.0	60.8	64.9	66.8	68.5	69.2	69.2	68.4	67.0
79.5°	52.7	53.4	54.9	56.7	60.7	62.8	64.5	65.2	65.2	64.4	62.8
80°	48.8	49.3	50.9	52.7	56.6	58.7	60.3	61.1	61.1	60.3	58.9
80.5°	44.8	45.5	46.9	48.7	52.7	54.8	56.4	57.0	57.0	56.2	54.6
81°	41.1	41.7	43.1	44.9	48.7	50.7	52.3	53.1	53.1	52.3	50.8
81.5°	37.3	38.1	39.3	41.1	44.9	46.7	48.3	49.0	49.0	48.1	46.7
82°	33.7	34.3	35.7	37.3	40.9	43.0	44.4	45.1	45.2	44.3	42.9
82.5°	30.2	30.9	32.2	33.8	37.3	39.2	40.6	41.3	41.3	40.5	39.2
83°	26.8	27.5	28.7	30.2	33.7	35.6	37.0	37.8	37.7	37.0	35.6
83.5°	23.6	24.2	25.4	26.8	30.2	31.9	33.3	34.1	34.0	33.2	31.9
84°	20.4	21.1	22.3	23.6	26.6	28.5	29.8	30.5	30.5	29.6	28.4
84.5°	17.6	18.2	19.2	20.6	23.4	25.0	26.4	27.0	27.0	26.3	25.1
85°	14.9	15.5	16.5	17.6	20.3	21.9	23.2	23.8	23.7	23.0	22.0
85.5°	12.3	12.7	13.8	15.0	17.4	18.8	20.0	20.6	20.6	19.9	18.8
86°	10.0	10.3	11.3	12.4	14.9	16.0	17.1	17.6	17.6	16.9	16.0
86.5°	7.5	8.0	8.9	10.0	12.4	13.6	14.6	15.1	15.1	14.4	13.4
87°	5.4	5.8	6.5	7.6	10.0	11.2	12.2	12.7	12.6	12.1	11.1
87.5°	4.0	4.1	4.7	5.5	7.8	8.9	9.9	10.2	10.2	9.7	8.8
88°	2.4	2.8	3.2	4.0	5.8	6.7	7.6	8.0	8.0	7.5	6.7
88.5°	1.5	1.7	2.0	2.6	4.0	4.9	5.6	5.9	5.9	5.4	4.8
89°	0.9	1.0	1.2	1.5	2.5	3.3	3.9	4.2	4.1	3.7	3.2
89.5°	0.6	0.6	0.7	0.9	1.4	2.0	2.4	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: P869654  
CATALOG NUMBER: SMX14RLSFSD2W-1300LM-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: P869654  
 CATALOG NUMBER: SMX14RLSFS2W-1300LM-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	486.6	486.6	486.6	486.6	486.6	486.6
0.5°	486.6	487.0	486.8	486.6	486.7	486.3
1°	486.6	487.0	486.7	486.5	486.6	486.4
1.5°	486.6	487.0	486.6	486.2	486.1	486.2
2°	486.4	486.7	486.4	486.2	486.1	486.1
2.5°	486.2	486.5	486.3	486.0	485.8	485.7
3°	486.0	486.0	486.2	485.8	485.8	485.5
3.5°	485.9	485.9	485.8	485.5	485.7	485.4
4°	485.7	485.6	485.4	484.9	484.7	485.1
4.5°	485.2	485.3	485.2	484.6	484.7	484.6
5°	484.7	485.1	484.7	484.2	484.0	484.0
5.5°	484.6	484.4	484.5	483.9	483.9	483.5
6°	484.1	484.0	483.8	483.3	483.5	483.1
6.5°	483.4	483.2	483.3	482.7	482.9	482.7
7°	482.9	482.8	482.7	482.3	482.4	482.2
7.5°	482.3	482.3	482.2	481.7	482.0	481.7
8°	481.6	481.5	481.5	481.1	481.4	481.0
8.5°	481.2	480.9	480.6	480.4	480.5	480.2
9°	480.6	480.4	480.2	479.5	479.7	479.4
9.5°	479.9	479.7	479.4	478.6	478.9	478.4
10°	478.9	478.7	478.5	478.1	478.1	477.7
10.5°	478.2	478.0	477.7	477.1	476.9	476.8
11°	477.4	477.1	476.9	476.4	475.9	476.3
11.5°	476.4	476.2	475.9	475.3	475.2	475.0
12°	475.5	475.3	475.0	474.5	474.4	474.0
12.5°	474.6	474.4	474.1	473.2	473.2	472.8
13°	473.4	473.5	473.0	472.4	472.3	472.1
13.5°	472.4	472.3	471.9	471.2	471.2	470.9
14°	471.5	471.2	471.0	470.1	469.8	469.9
14.5°	470.1	470.1	469.8	469.0	468.8	468.3
15°	469.1	469.0	468.5	467.7	467.5	467.5
15.5°	468.1	467.7	467.2	466.5	466.3	466.1
16°	466.7	466.5	465.9	465.1	465.0	464.8
16.5°	465.5	465.2	464.6	463.7	463.6	463.6
17°	464.2	463.8	463.1	462.5	462.4	462.4
17.5°	463.1	462.4	462.0	461.1	461.1	460.9
18°	461.5	461.1	460.1	459.7	459.4	459.5
18.5°	460.2	459.8	459.1	458.2	458.2	457.9
19°	458.7	458.2	457.6	456.8	456.5	456.4
19.5°	457.1	456.6	456.2	455.4	455.0	454.8
20°	455.7	455.1	454.5	453.7	453.5	453.3
20.5°	454.2	453.4	452.8	452.0	451.9	451.7
21°	452.4	451.8	451.2	450.4	449.9	450.2
21.5°	450.6	450.2	449.4	448.7	448.3	448.4
22°	449.0	448.5	447.7	446.9	446.3	446.4

TEST NUMBER: P869654  
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	447.1	446.6	446.0	445.0	444.7	444.9
23°	445.5	445.0	444.2	443.1	442.8	443.0
23.5°	443.6	443.2	442.6	441.4	441.1	441.1
24°	441.8	441.4	440.4	439.4	439.1	439.2
24.5°	440.1	439.3	438.7	437.4	437.1	437.1
25°	438.4	437.6	436.8	435.9	435.4	435.5
25.5°	436.3	435.7	434.6	433.7	433.5	433.3
26°	434.2	433.8	432.7	431.9	431.3	431.3
26.5°	432.0	431.5	430.6	429.6	429.3	429.2
27°	430.1	429.4	428.6	427.4	427.1	427.4
27.5°	428.3	427.2	426.4	425.4	425.0	424.9
28°	425.8	425.1	424.4	422.9	422.5	422.6
28.5°	423.7	423.0	422.1	420.8	420.1	420.4
29°	421.7	420.7	419.7	418.6	418.1	418.2
29.5°	419.5	418.5	417.5	416.2	415.8	415.6
30°	417.3	416.2	415.4	414.0	413.6	413.4
30.5°	414.9	414.0	413.1	411.8	411.3	411.4
31°	412.7	411.6	410.3	409.5	408.9	409.0
31.5°	410.5	408.9	408.1	407.2	406.5	406.5
32°	408.0	406.8	405.7	404.6	403.9	404.3
32.5°	405.6	404.3	403.4	402.1	401.5	401.8
33°	403.1	401.8	400.9	399.6	399.1	399.1
33.5°	400.5	399.1	398.2	397.1	396.5	396.3
34°	398.0	396.9	395.5	394.3	393.9	393.9
34.5°	395.7	394.1	393.0	391.7	391.0	391.1
35°	392.8	391.6	390.1	389.2	388.6	388.6
35.5°	390.4	389.0	387.9	386.6	385.9	385.9
36°	387.6	386.4	385.1	383.7	383.2	383.3
36.5°	385.1	383.4	382.2	380.9	380.4	380.6
37°	382.2	380.8	379.3	378.5	377.8	377.8
37.5°	379.9	378.2	376.9	375.8	375.0	374.8
38°	376.7	375.2	373.9	372.6	371.9	371.9
38.5°	374.0	372.3	370.9	369.7	369.2	369.2
39°	371.0	369.5	368.0	367.1	366.5	366.3
39.5°	368.4	366.5	365.3	364.0	363.5	363.5
40°	365.2	363.8	362.5	361.1	360.6	360.5
40.5°	362.6	360.9	359.4	358.2	357.7	357.3
41°	359.4	357.9	356.2	355.1	354.5	354.4
41.5°	356.7	354.8	353.2	352.0	351.3	351.4
42°	353.6	351.7	350.3	348.8	348.4	348.3
42.5°	350.4	348.6	347.2	345.8	345.2	345.1
43°	347.4	345.4	344.1	342.7	342.1	341.9
43.5°	344.3	342.3	341.1	339.5	339.0	338.9
44°	341.1	339.2	337.8	336.2	335.7	335.9
44.5°	338.1	336.0	334.6	333.1	332.4	332.3

TEST NUMBER: P869654  
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	334.8	332.8	331.3	329.9	329.3	329.2
45.5°	331.6	329.4	328.0	326.4	326.1	326.1
46°	328.3	326.4	324.7	323.4	322.7	322.7
46.5°	325.0	322.8	321.4	320.0	319.1	319.4
47°	321.8	319.7	317.9	316.7	315.7	316.0
47.5°	318.4	316.2	314.6	313.4	312.4	312.7
48°	315.0	312.8	311.3	310.0	309.1	309.2
48.5°	311.8	309.4	307.8	306.5	306.0	305.8
49°	308.4	306.1	304.4	303.0	302.4	302.4
49.5°	304.8	302.6	301.0	299.5	298.7	298.9
50°	301.4	298.9	297.3	296.0	295.2	295.1
50.5°	297.8	295.4	293.9	292.5	291.8	291.6
51°	294.3	292.0	290.3	288.8	288.3	288.1
51.5°	291.0	288.4	286.8	285.3	284.5	284.4
52°	287.3	284.8	283.2	281.8	280.8	280.7
52.5°	283.6	281.0	279.5	278.0	277.3	277.0
53°	279.9	277.4	275.9	274.3	273.4	273.5
53.5°	276.3	273.8	272.0	270.5	269.7	269.7
54°	272.5	269.9	268.4	266.8	265.9	266.0
54.5°	269.0	266.3	264.7	263.2	262.4	262.3
55°	265.3	262.7	260.9	259.4	258.7	258.5
55.5°	261.6	258.7	257.0	255.7	254.8	254.7
56°	257.8	254.9	253.3	251.7	250.8	250.9
56.5°	253.9	251.1	249.3	247.8	247.1	246.8
57°	250.1	247.3	245.5	243.8	243.0	242.9
57.5°	246.2	243.3	241.5	239.9	239.0	239.0
58°	242.3	239.4	237.5	235.9	235.2	235.3
58.5°	238.5	235.5	233.6	231.9	231.1	231.2
59°	234.6	231.4	229.5	227.9	227.1	227.1
59.5°	230.4	227.6	225.7	223.7	222.9	223.0
60°	226.5	223.3	221.4	219.7	219.0	218.9
60.5°	222.5	219.3	217.4	215.6	215.0	215.1
61°	218.4	215.3	213.4	211.8	210.9	211.1
61.5°	214.5	211.2	209.3	207.6	206.8	206.8
62°	210.5	207.1	205.2	203.5	202.7	202.6
62.5°	206.3	202.8	201.0	199.1	198.3	198.3
63°	202.2	198.7	196.8	195.1	194.3	194.2
63.5°	198.1	194.4	192.6	191.0	190.1	190.1
64°	193.9	190.4	188.5	186.9	186.0	185.7
64.5°	189.7	186.3	184.2	182.7	181.7	181.7
65°	185.7	182.0	180.0	178.4	177.5	177.5
65.5°	181.5	177.7	175.8	174.1	173.3	173.2
66°	177.1	173.5	171.5	169.6	168.8	168.8
66.5°	172.7	169.1	167.1	165.4	164.6	164.6
67°	168.6	165.0	162.9	161.2	160.3	160.5

TEST NUMBER: P869654  
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	164.6	160.6	158.5	157.0	155.9	156.0
68°	160.2	156.3	154.1	152.5	151.7	151.7
68.5°	155.9	152.0	149.8	148.0	147.2	147.3
69°	151.4	147.6	145.4	143.9	142.8	142.9
69.5°	147.2	143.2	141.1	139.3	138.4	138.5
70°	142.9	138.9	136.8	134.9	134.3	134.1
70.5°	138.5	134.5	132.4	130.8	129.9	129.8
71°	134.2	130.0	128.0	126.2	125.3	125.4
71.5°	129.9	125.6	123.6	121.9	120.8	120.9
72°	125.5	121.3	119.3	117.5	116.7	116.7
72.5°	121.2	117.0	115.0	113.2	112.3	112.4
73°	116.6	112.6	110.4	108.7	108.0	107.9
73.5°	112.4	108.2	106.2	104.4	103.4	103.5
74°	108.1	103.9	101.6	100.0	99.1	99.1
74.5°	103.7	99.5	97.4	95.6	94.7	94.7
75°	99.3	95.1	93.0	91.3	90.6	90.4
75.5°	95.0	90.7	88.7	86.9	85.9	86.2
76°	90.6	86.3	84.3	82.6	81.8	81.8
76.5°	86.3	82.1	79.9	78.3	77.5	77.5
77°	82.0	77.9	75.8	74.1	73.2	73.2
77.5°	77.7	73.7	71.6	70.0	69.1	69.1
78°	73.5	69.3	67.3	65.8	64.9	64.9
78.5°	69.2	65.2	63.3	61.6	60.9	60.8
79°	65.1	61.1	59.2	57.6	56.8	56.7
79.5°	60.9	57.0	55.1	53.4	52.7	52.7
80°	57.0	52.9	50.9	49.4	48.6	48.8
80.5°	52.9	49.0	47.1	45.5	44.7	44.8
81°	49.0	45.0	43.1	41.7	41.1	41.1
81.5°	45.0	41.4	39.5	38.0	37.3	37.3
82°	41.2	37.6	35.8	34.3	33.7	33.7
82.5°	37.6	34.1	32.3	31.0	30.2	30.2
83°	33.9	30.4	28.8	27.5	26.9	26.8
83.5°	30.3	27.0	25.5	24.2	23.6	23.6
84°	26.8	23.9	22.3	21.0	20.4	20.4
84.5°	23.6	20.7	19.3	18.2	17.6	17.6
85°	20.4	17.7	16.5	15.5	15.0	14.9
85.5°	17.4	15.2	13.8	12.8	12.4	12.3
86°	14.8	12.5	11.3	10.3	9.9	10.0
86.5°	12.4	10.1	8.9	7.9	7.5	7.5
87°	10.0	7.7	6.5	5.8	5.4	5.4
87.5°	7.8	5.6	4.8	4.2	3.9	4.0
88°	5.8	4.0	3.3	2.8	2.5	2.4
88.5°	4.0	2.6	2.1	1.8	1.5	1.5
89°	2.6	1.7	1.3	1.0	0.9	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: P869654  
CATALOG NUMBER: SMX14RLSFSD2W-1300LM-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)