

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: P869653

Luminaire Tested: **SMX14RLSFSD2W-1300LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869653  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX14RLSFSD2W-1300LM-3500K  
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

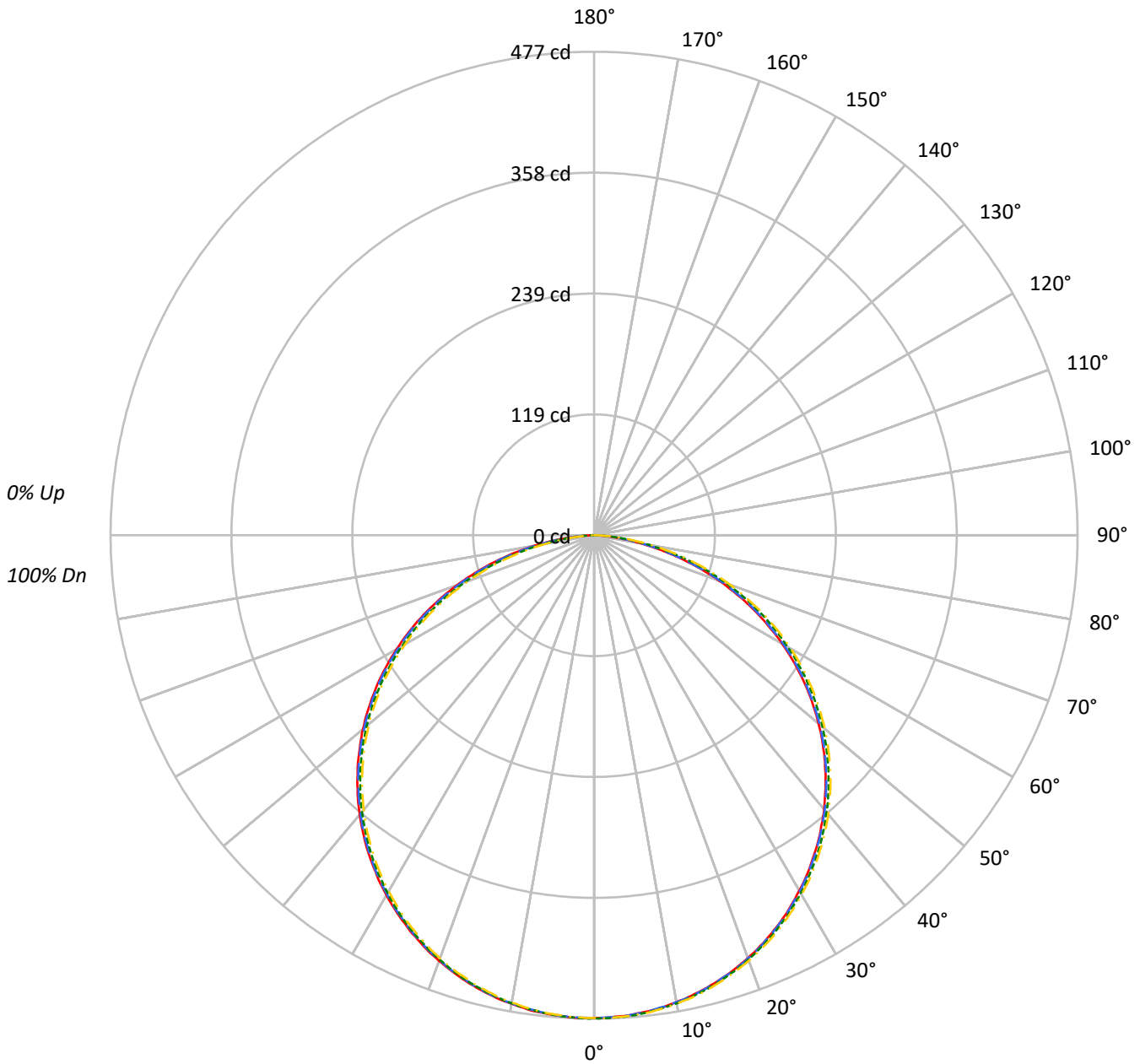
Lumens per Lamp: N/A  
 Luminaire Lumens: 1395.0 lumens  
 Efficiency: N/A  
 Efficacy: 94.9 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Circular (Dia: 1.17' x H: 0')  
 CIE Type: Direct

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	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°	4794	4794	4794	4794
5°	4787	4799	4798	4798
10°	4780	4792	4796	4789
15°	4769	4783	4793	4784
20°	4754	4769	4787	4772
25°	4735	4757	4779	4758
30°	4704	4737	4763	4735
35°	4674	4716	4744	4710
40°	4637	4688	4725	4681
45°	4587	4654	4698	4637
50°	4524	4604	4662	4582
55°	4441	4544	4609	4513
60°	4315	4446	4528	4402
65°	4138	4310	4415	4243
70°	3863	4096	4234	4002
75°	3445	3764	3943	3620
80°	2770	3211	3471	3002
85°	1686	2298	2679	2009

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.1	3.2
10°-20°	129.6	9.3
20°-30°	197.4	14.1
30°-40°	239.9	17.2
40°-50°	251.6	18.0
50°-60°	230.3	16.5
60°-70°	177.4	12.7
70°-80°	100.3	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
<b>0°-30°</b>	<b>372.0</b>	<b>26.7</b>
<b>0°-40°</b>	<b>612.0</b>	<b>43.9</b>
<b>0°-60°</b>	<b>1093.9</b>	<b>78.4</b>
<b>0°-90°</b>	<b>1395.0</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>1395.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	476	476	476	476	476	
5°	474	475	475	475	474	45
15°	458	459	460	459	458	129
25°	426	428	430	428	426	196
35°	380	384	386	383	380	238
45°	322	327	330	326	322	249
55°	253	259	263	257	253	226
65°	174	181	185	178	174	172
75°	89	97	101	93	89	94
85°	15	20	23	17	15	19
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°	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4	476.4
0.5°	476.2	476.1	476.1	476.6	476.7	476.9	476.6	476.4	476.3	476.1	476.3
1°	476.3	475.8	476.0	476.7	476.7	476.7	476.6	476.3	476.5	476.2	476.0
1.5°	476.1	476.0	475.9	476.3	476.6	476.7	476.6	476.4	476.6	476.0	476.1
2°	476.0	475.5	475.7	476.0	476.7	476.6	476.3	476.4	476.5	475.8	476.1
2.5°	475.5	475.5	475.8	476.1	476.3	476.4	476.2	476.2	476.3	475.8	475.9
3°	475.4	475.2	475.5	475.7	476.1	476.2	475.9	476.0	476.1	475.8	475.7
3.5°	475.3	475.0	475.4	475.5	476.1	476.1	475.8	475.8	475.7	475.6	475.5
4°	475.0	474.6	475.0	475.2	475.7	475.7	475.5	475.5	475.4	475.4	475.5
4.5°	474.5	474.2	474.6	474.7	475.3	475.4	475.2	475.3	475.1	475.1	474.9
5°	473.9	473.6	474.2	474.6	475.1	474.9	474.9	475.0	475.0	474.7	474.7
5.5°	473.4	473.2	473.7	473.8	474.5	474.6	474.5	474.5	474.5	474.5	474.3
6°	473.0	472.7	473.3	473.3	474.2	474.0	474.1	474.1	474.2	474.0	473.8
6.5°	472.7	472.3	472.9	472.9	473.6	473.6	473.9	473.7	473.7	473.7	473.3
7°	472.1	471.8	472.0	472.3	473.0	472.9	473.3	473.2	473.4	473.2	472.7
7.5°	471.7	471.2	471.3	471.7	472.4	472.3	472.7	472.6	473.0	472.6	472.1
8°	470.9	470.6	470.6	471.2	471.7	471.7	472.1	472.1	472.4	472.1	471.8
8.5°	470.2	469.9	470.3	470.6	471.2	471.0	471.3	471.3	471.4	471.4	471.1
9°	469.4	469.3	469.5	469.7	470.3	470.7	471.0	470.7	470.8	470.5	470.6
9.5°	468.5	468.4	468.7	469.1	469.7	469.7	470.0	470.0	470.3	470.0	469.7
10°	467.8	467.7	467.7	468.5	469.0	469.0	469.4	469.4	469.3	469.5	469.1
10.5°	466.9	467.0	467.2	467.6	468.2	468.3	468.4	468.7	468.8	468.7	468.3
11°	466.4	465.9	466.3	466.9	467.3	467.4	467.6	467.8	468.1	467.7	467.5
11.5°	465.1	464.9	465.7	465.8	466.4	466.4	467.0	467.0	467.2	466.7	466.6
12°	464.2	464.1	464.6	464.9	465.7	465.6	466.1	466.1	466.4	466.0	465.7
12.5°	463.0	463.3	463.6	463.9	464.5	464.9	464.9	465.4	465.1	465.3	464.9
13°	462.2	462.2	462.5	462.6	463.5	464.0	464.2	464.3	464.5	464.2	464.0
13.5°	461.0	461.0	461.5	461.9	462.5	462.9	463.1	463.3	463.5	463.0	463.0
14°	460.1	459.9	460.4	460.8	461.5	461.8	462.1	462.1	462.4	462.0	461.8
14.5°	458.6	458.7	459.1	459.9	460.3	460.6	461.1	461.3	461.3	461.2	460.7
15°	457.8	457.5	458.2	458.2	459.1	459.4	459.8	460.3	460.1	459.9	459.8
15.5°	456.4	456.3	456.7	457.2	457.9	458.2	458.7	459.0	459.1	458.8	458.4
16°	455.1	455.2	455.4	456.1	456.7	457.0	457.5	457.5	457.9	457.5	457.0
16.5°	453.9	454.0	454.0	454.8	455.2	455.6	456.2	456.2	456.6	456.4	455.8
17°	452.7	452.8	453.1	453.5	454.0	454.2	455.0	455.1	455.1	455.3	454.6
17.5°	451.3	451.3	451.8	452.4	452.6	453.2	453.8	453.8	454.0	453.7	453.5
18°	449.9	449.8	450.3	450.9	451.5	451.9	452.4	452.6	452.7	452.5	452.0
18.5°	448.3	448.2	448.9	449.2	449.9	450.4	450.8	451.1	451.2	451.2	450.7
19°	446.9	446.8	447.5	447.7	448.3	449.0	449.4	449.6	450.0	449.6	449.1
19.5°	445.3	445.3	445.9	446.5	447.0	447.3	448.2	448.2	448.2	448.4	447.7
20°	443.9	443.7	444.3	444.8	445.3	446.1	446.7	447.0	447.0	446.8	446.3
20.5°	442.3	442.1	442.7	443.4	443.8	444.5	445.1	445.5	445.3	445.3	444.9
21°	440.8	440.6	441.0	441.6	442.2	442.7	443.6	443.9	443.9	443.7	443.1
21.5°	439.1	438.8	439.5	440.1	440.7	441.3	441.9	442.4	442.5	442.1	441.6
22°	437.1	437.4	437.9	438.2	438.8	439.7	440.5	440.7	440.7	440.3	439.8

TEST NUMBER: P869653  
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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°	435.6	435.4	436.1	436.5	437.3	437.9	438.6	439.0	439.1	438.8	438.3
23°	433.8	433.7	434.0	435.0	435.6	436.1	437.0	437.5	437.1	437.1	436.5
23.5°	431.9	431.9	432.2	433.0	433.7	434.3	435.3	435.5	435.4	435.6	434.6
24°	430.1	430.1	430.6	431.1	432.0	432.8	433.7	433.8	433.7	433.8	432.9
24.5°	428.0	428.3	428.6	429.4	430.3	430.7	431.7	432.0	432.0	431.7	431.2
25°	426.4	426.2	426.9	427.4	428.4	428.9	429.9	430.2	430.4	430.2	429.2
25.5°	424.3	424.5	424.8	425.5	426.2	427.1	428.0	428.5	428.3	428.2	427.4
26°	422.3	422.6	422.8	423.6	424.5	425.4	425.9	426.4	426.2	426.4	425.6
26.5°	420.2	420.2	420.6	421.6	422.5	423.2	424.2	424.4	424.3	424.3	423.5
27°	418.4	418.3	418.8	419.3	420.8	421.1	422.2	422.6	422.3	422.4	421.3
27.5°	416.1	416.1	416.7	417.2	418.6	419.1	419.9	420.4	420.4	420.4	419.5
28°	413.8	414.0	414.6	415.2	416.2	417.2	418.1	418.4	418.3	418.3	417.4
28.5°	411.6	411.8	412.3	412.8	414.3	415.0	415.9	416.2	416.2	416.0	415.3
29°	409.5	409.8	410.1	410.8	412.0	412.8	414.0	414.3	414.3	413.9	413.2
29.5°	406.9	407.2	407.9	408.7	410.1	410.6	411.8	412.1	412.2	412.0	411.1
30°	404.8	405.0	405.6	406.5	407.7	408.5	409.6	409.9	409.9	409.8	408.7
30.5°	402.9	402.9	403.6	404.4	405.6	406.2	407.2	407.7	407.6	407.7	406.6
31°	400.5	400.9	401.0	401.9	403.6	403.9	405.0	405.8	405.3	405.4	404.5
31.5°	398.1	398.2	398.8	399.7	401.0	401.9	402.9	403.2	403.2	403.3	402.3
32°	395.9	396.0	396.5	397.4	398.7	399.5	400.8	401.1	401.1	401.1	399.9
32.5°	393.4	393.6	393.8	394.7	396.1	397.1	398.3	399.0	398.5	398.5	397.7
33°	390.8	391.3	391.4	392.3	393.9	394.5	395.9	396.4	395.9	396.2	395.3
33.5°	388.1	388.6	389.0	390.0	391.3	392.1	393.3	394.1	393.6	393.6	392.8
34°	385.7	386.2	386.3	387.5	389.1	389.8	390.9	391.7	391.2	391.2	390.3
34.5°	383.0	383.5	384.1	385.0	386.5	387.4	388.5	389.2	388.7	388.7	387.8
35°	380.5	380.9	381.5	382.3	383.9	384.7	386.0	386.5	386.2	386.2	385.4
35.5°	377.9	378.1	378.8	379.6	381.4	382.3	383.3	383.9	383.9	383.8	382.9
36°	375.3	375.5	376.0	377.0	378.8	379.7	381.0	381.4	381.4	381.1	380.3
36.5°	372.7	372.8	373.6	374.4	376.4	376.9	378.4	378.8	378.8	378.9	377.6
37°	370.0	370.1	370.7	371.7	373.6	374.5	375.7	376.4	376.1	376.1	375.2
37.5°	367.0	367.4	367.9	369.0	370.7	371.7	373.0	373.5	373.4	373.3	372.5
38°	364.1	364.7	365.3	366.2	368.1	369.3	370.5	370.9	370.6	370.5	369.9
38.5°	361.5	361.9	362.4	363.3	365.3	366.3	367.7	368.1	368.1	367.8	367.1
39°	358.7	358.8	359.6	360.6	362.4	363.4	364.9	365.5	365.4	365.1	364.2
39.5°	356.0	356.0	356.8	357.8	359.5	360.8	362.3	362.7	362.5	362.4	361.2
40°	353.0	353.4	354.0	355.1	356.9	358.1	359.2	360.0	359.7	359.6	358.4
40.5°	349.9	350.3	351.2	352.2	354.0	355.2	356.4	357.1	356.9	356.7	355.6
41°	347.0	347.6	348.2	349.4	351.2	352.5	353.6	354.3	354.2	353.9	352.8
41.5°	344.0	344.5	345.2	346.5	348.3	349.6	350.7	351.2	351.3	350.9	349.8
42°	341.0	341.5	342.0	343.4	345.3	346.5	347.7	348.3	348.2	347.9	347.0
42.5°	337.9	338.5	338.9	340.4	342.4	343.4	344.8	345.4	345.2	345.2	344.0
43°	334.7	335.3	335.9	337.3	339.3	340.6	341.9	342.6	342.2	342.0	341.0
43.5°	331.8	332.3	332.9	334.3	336.1	337.4	338.6	339.6	339.3	338.9	338.0
44°	328.9	329.1	329.7	331.0	333.1	334.4	335.8	336.4	336.2	335.9	335.0
44.5°	325.4	325.8	326.7	328.0	330.1	331.4	332.5	333.1	333.1	332.8	331.8

TEST NUMBER: P869653  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	322.3	322.6	323.5	324.9	327.0	328.2	329.5	330.1	330.1	329.8	328.7
45.5°	319.3	319.3	320.3	321.7	323.8	325.0	326.4	326.8	327.0	326.6	325.5
46°	315.9	316.2	317.0	318.5	320.4	321.8	323.2	323.8	323.9	323.6	322.5
46.5°	312.8	312.9	313.7	315.0	317.2	318.6	320.1	320.5	320.5	320.3	319.2
47°	309.4	309.7	310.5	312.0	313.9	315.4	316.8	317.3	317.4	317.0	315.9
47.5°	306.2	306.3	307.4	308.7	310.8	312.2	313.5	314.1	314.1	313.8	312.8
48°	302.8	303.0	304.1	305.3	307.5	308.9	310.4	311.0	310.9	310.5	309.6
48.5°	299.4	299.6	300.7	302.0	304.2	305.6	307.0	307.7	307.7	307.2	306.3
49°	296.1	296.2	297.3	298.6	300.8	302.2	303.8	304.4	304.4	303.9	303.0
49.5°	292.6	292.9	293.8	295.3	297.4	298.9	300.4	300.8	301.1	300.7	299.6
50°	289.0	289.3	290.3	291.8	294.1	295.6	297.2	297.7	297.8	297.4	296.0
50.5°	285.6	285.8	286.9	288.5	290.6	292.2	293.7	294.2	294.2	293.9	292.7
51°	282.1	282.3	283.3	284.9	287.3	288.7	290.1	290.9	290.9	290.3	289.4
51.5°	278.5	278.8	279.9	281.4	283.7	285.3	286.8	287.4	287.5	286.9	285.8
52°	274.9	275.3	276.2	277.9	280.4	281.8	283.5	284.2	283.9	283.4	282.5
52.5°	271.2	271.7	272.8	274.3	276.8	278.2	279.9	280.6	280.3	279.9	278.8
53°	267.8	268.2	269.3	270.8	273.2	274.8	276.3	277.1	276.9	276.5	275.3
53.5°	264.1	264.3	265.6	267.0	269.7	271.3	272.6	273.5	273.3	272.9	271.8
54°	260.5	260.5	261.8	263.3	266.1	267.5	269.1	270.0	269.7	269.5	268.1
54.5°	256.9	257.2	258.2	259.7	262.4	264.0	265.6	266.2	266.1	265.8	264.4
55°	253.1	253.5	254.6	256.3	259.0	260.5	262.1	262.9	262.7	262.2	260.9
55.5°	249.4	249.6	250.9	252.4	255.2	256.9	258.4	259.3	259.1	258.5	257.4
56°	245.7	245.9	247.1	248.7	251.6	253.1	254.9	255.7	255.4	254.8	253.6
56.5°	241.7	242.1	243.4	244.8	247.8	249.4	251.0	251.7	251.8	250.9	250.0
57°	237.9	238.3	239.5	240.9	244.0	245.8	247.4	248.2	247.9	247.3	246.3
57.5°	234.0	234.4	235.6	237.1	240.2	241.8	243.5	244.2	244.2	243.6	242.4
58°	230.4	230.6	231.7	233.4	236.4	238.2	239.8	240.5	240.3	239.7	238.6
58.5°	226.4	226.5	227.9	229.5	232.6	234.3	235.9	236.7	236.8	235.9	234.9
59°	222.4	222.9	224.0	225.7	228.8	230.5	232.1	232.9	233.0	231.9	230.9
59.5°	218.3	218.9	220.0	221.7	224.9	226.7	228.2	229.1	228.9	228.3	227.1
60°	214.4	214.9	216.2	217.9	220.9	222.8	224.4	225.2	225.0	224.3	223.1
60.5°	210.6	210.9	212.0	213.8	216.8	218.9	220.5	221.3	221.1	220.5	219.2
61°	206.7	207.1	208.2	210.1	212.9	215.0	216.7	217.4	217.2	216.4	215.5
61.5°	202.5	202.9	204.2	206.0	209.0	211.0	212.5	213.4	213.4	212.6	211.5
62°	198.4	199.0	200.2	201.9	205.3	207.2	208.7	209.5	209.5	208.7	207.6
62.5°	194.2	194.8	195.9	197.8	201.3	203.2	204.9	205.6	205.5	204.7	203.5
63°	190.2	190.8	192.0	193.8	197.2	199.2	200.8	201.6	201.5	200.8	199.6
63.5°	186.1	186.8	188.0	189.7	193.1	195.1	196.9	197.5	197.5	196.8	195.5
64°	181.8	182.6	183.9	185.7	189.0	191.2	192.7	193.3	193.4	192.6	191.5
64.5°	177.9	178.5	179.7	181.6	185.0	186.9	188.7	189.3	189.3	188.6	187.2
65°	173.8	174.4	175.7	177.6	181.0	183.0	184.8	185.4	185.4	184.7	183.5
65.5°	169.6	170.3	171.5	173.5	177.0	178.9	180.6	181.3	181.4	180.6	179.1
66°	165.3	166.0	167.2	169.1	172.7	174.8	176.4	177.2	177.0	176.5	175.1
66.5°	161.2	161.9	163.0	164.9	168.5	170.5	172.1	173.0	172.9	172.1	170.9
67°	157.2	157.6	158.8	160.8	164.3	166.4	168.0	168.8	168.8	168.1	166.6



TEST NUMBER: P869653  
 CATALOG NUMBER: SMX14RLSFS2W-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	152.7	153.4	154.8	156.6	160.2	162.1	163.8	164.7	164.8	163.9	162.5
68°	148.5	149.1	150.5	152.4	156.0	158.1	159.9	160.5	160.6	159.7	158.5
68.5°	144.2	144.9	146.2	148.2	151.9	154.0	155.5	156.4	156.4	155.5	154.4
69°	139.9	140.5	141.9	143.9	147.7	149.7	151.5	152.2	152.2	151.3	150.3
69.5°	135.6	136.2	137.7	139.5	143.5	145.7	147.3	148.0	148.1	147.2	145.8
70°	131.3	132.0	133.4	135.3	139.2	141.3	143.0	143.7	143.9	143.0	141.5
70.5°	127.1	127.7	129.2	131.2	135.2	137.0	138.8	139.6	139.6	138.8	137.3
71°	122.8	123.3	124.9	126.7	130.9	133.0	134.7	135.5	135.5	134.6	133.2
71.5°	118.4	119.1	120.5	122.4	126.5	128.8	130.4	131.2	131.2	130.3	128.8
72°	114.3	114.8	116.2	118.2	122.2	124.4	126.2	126.8	127.0	126.1	124.6
72.5°	110.1	110.7	112.1	114.0	118.0	120.2	121.9	122.7	122.8	121.8	120.4
73°	105.7	106.3	107.8	109.6	113.7	115.9	117.6	118.3	118.4	117.5	115.9
73.5°	101.4	102.0	103.5	105.3	109.6	111.7	113.4	114.1	114.2	113.3	111.9
74°	97.1	97.8	99.2	101.1	105.3	107.5	109.3	109.9	110.0	109.0	107.7
74.5°	92.7	93.5	95.0	96.8	101.0	103.2	105.0	105.7	105.8	104.9	103.3
75°	88.6	89.2	90.7	92.6	96.8	98.9	100.6	101.4	101.4	100.5	99.1
75.5°	84.4	85.0	86.5	88.4	92.5	94.7	96.3	97.2	97.1	96.3	94.8
76°	80.1	80.8	82.3	84.1	88.3	90.4	92.0	92.9	93.0	92.0	90.5
76.5°	75.9	76.6	78.1	79.9	84.1	86.3	87.9	88.6	88.7	87.8	86.2
77°	71.7	72.4	73.9	75.8	79.9	82.0	83.7	84.5	84.4	83.6	82.2
77.5°	67.7	68.4	69.9	71.7	75.7	77.9	79.6	80.2	80.3	79.4	77.9
78°	63.6	64.3	65.7	67.5	71.6	73.8	75.4	76.0	76.1	75.2	73.8
78.5°	59.5	60.2	61.7	63.6	67.4	69.5	71.2	71.9	72.0	71.1	69.6
79°	55.5	56.3	57.8	59.6	63.5	65.4	67.0	67.8	67.8	67.0	65.6
79.5°	51.6	52.2	53.7	55.5	59.4	61.5	63.2	63.8	63.8	63.0	61.5
80°	47.8	48.3	49.8	51.6	55.4	57.5	59.1	59.8	59.9	59.0	57.6
80.5°	43.9	44.6	46.0	47.7	51.6	53.6	55.2	55.8	55.8	55.0	53.5
81°	40.2	40.9	42.2	43.9	47.7	49.6	51.2	51.9	51.9	51.2	49.7
81.5°	36.5	37.3	38.5	40.3	43.9	45.8	47.3	48.0	47.9	47.1	45.8
82°	33.0	33.6	34.9	36.5	40.1	42.1	43.4	44.2	44.2	43.4	42.0
82.5°	29.6	30.3	31.5	33.1	36.5	38.4	39.8	40.4	40.4	39.7	38.3
83°	26.2	26.9	28.1	29.5	33.0	34.9	36.2	37.0	36.9	36.2	34.8
83.5°	23.1	23.7	24.9	26.2	29.5	31.2	32.7	33.4	33.3	32.5	31.3
84°	20.0	20.7	21.8	23.1	26.1	27.9	29.2	29.8	29.8	29.0	27.8
84.5°	17.2	17.8	18.8	20.2	22.9	24.5	25.9	26.5	26.4	25.7	24.6
85°	14.6	15.2	16.2	17.3	19.9	21.4	22.7	23.3	23.2	22.5	21.5
85.5°	12.0	12.5	13.5	14.7	17.0	18.5	19.6	20.1	20.1	19.5	18.4
86°	9.8	10.1	11.0	12.1	14.6	15.7	16.7	17.3	17.2	16.5	15.6
86.5°	7.4	7.8	8.7	9.8	12.2	13.3	14.3	14.7	14.7	14.1	13.1
87°	5.3	5.6	6.4	7.4	9.8	11.0	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	9.5	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	4.0	4.8	5.5	5.8	5.8	5.3	4.7
89°	0.9	1.0	1.2	1.5	2.5	3.2	3.8	4.1	4.0	3.7	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: P869653  
CATALOG NUMBER: SMX14RLSFSD2W-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: P869653  
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	476.4	476.4	476.4	476.4	476.4	476.4
0.5°	476.4	476.9	476.7	476.4	476.6	476.2
1°	476.4	476.9	476.6	476.3	476.4	476.3
1.5°	476.5	476.8	476.5	476.0	476.0	476.1
2°	476.3	476.6	476.3	476.1	476.0	476.0
2.5°	476.0	476.3	476.1	475.8	475.7	475.5
3°	475.8	475.9	476.0	475.7	475.7	475.4
3.5°	475.8	475.8	475.7	475.4	475.5	475.3
4°	475.5	475.5	475.2	474.8	474.6	475.0
4.5°	475.1	475.2	475.1	474.5	474.6	474.5
5°	474.6	475.0	474.6	474.1	473.9	473.9
5.5°	474.5	474.3	474.4	473.8	473.8	473.4
6°	474.0	473.9	473.7	473.3	473.4	473.0
6.5°	473.3	473.2	473.2	472.7	472.8	472.7
7°	472.8	472.7	472.7	472.3	472.3	472.1
7.5°	472.3	472.3	472.1	471.7	472.0	471.7
8°	471.6	471.5	471.5	471.1	471.4	470.9
8.5°	471.2	470.9	470.6	470.4	470.5	470.2
9°	470.6	470.4	470.2	469.5	469.7	469.4
9.5°	469.9	469.7	469.4	468.7	468.9	468.5
10°	469.0	468.7	468.5	468.2	468.1	467.8
10.5°	468.2	468.1	467.8	467.2	466.9	466.9
11°	467.5	467.2	466.9	466.4	466.0	466.4
11.5°	466.5	466.3	466.0	465.4	465.3	465.1
12°	465.6	465.4	465.1	464.6	464.5	464.2
12.5°	464.7	464.5	464.2	463.4	463.3	463.0
13°	463.6	463.7	463.1	462.5	462.4	462.2
13.5°	462.5	462.5	462.1	461.4	461.4	461.0
14°	461.6	461.3	461.2	460.3	460.0	460.1
14.5°	460.3	460.3	460.0	459.2	459.1	458.6
15°	459.3	459.2	458.8	458.0	457.8	457.8
15.5°	458.4	458.0	457.5	456.7	456.6	456.4
16°	457.0	456.8	456.2	455.4	455.4	455.1
16.5°	455.8	455.5	454.9	454.0	453.9	453.9
17°	454.6	454.2	453.5	452.9	452.7	452.7
17.5°	453.4	452.7	452.4	451.5	451.5	451.3
18°	451.9	451.5	450.6	450.1	449.8	449.9
18.5°	450.6	450.2	449.5	448.6	448.6	448.3
19°	449.1	448.6	448.0	447.3	447.0	446.9
19.5°	447.6	447.1	446.7	445.9	445.5	445.3
20°	446.2	445.6	445.0	444.3	444.1	443.9
20.5°	444.7	443.9	443.4	442.6	442.5	442.3
21°	443.0	442.4	441.8	441.0	440.6	440.8
21.5°	441.2	440.8	440.1	439.4	439.0	439.1
22°	439.6	439.1	438.3	437.6	437.0	437.1

TEST NUMBER: P869653  
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	437.8	437.3	436.7	435.7	435.5	435.6
23°	436.2	435.8	435.0	433.9	433.6	433.8
23.5°	434.4	434.0	433.4	432.2	431.9	431.9
24°	432.6	432.2	431.3	430.3	430.0	430.1
24.5°	431.0	430.2	429.5	428.3	428.0	428.0
25°	429.2	428.5	427.7	426.8	426.4	426.4
25.5°	427.3	426.7	425.6	424.7	424.4	424.3
26°	425.2	424.7	423.7	422.9	422.3	422.3
26.5°	423.0	422.5	421.6	420.7	420.4	420.2
27°	421.1	420.5	419.7	418.5	418.2	418.4
27.5°	419.4	418.3	417.5	416.5	416.1	416.1
28°	416.9	416.2	415.5	414.1	413.7	413.8
28.5°	414.9	414.2	413.3	412.0	411.4	411.6
29°	412.9	412.0	411.0	409.9	409.3	409.5
29.5°	410.8	409.8	408.8	407.5	407.1	406.9
30°	408.6	407.5	406.8	405.3	405.0	404.8
30.5°	406.2	405.4	404.5	403.2	402.7	402.9
31°	404.1	403.0	401.8	401.0	400.4	400.5
31.5°	401.9	400.4	399.6	398.7	398.1	398.1
32°	399.5	398.3	397.2	396.2	395.5	395.9
32.5°	397.2	395.9	395.0	393.7	393.2	393.4
33°	394.7	393.4	392.5	391.3	390.8	390.8
33.5°	392.2	390.8	389.9	388.8	388.2	388.1
34°	389.7	388.6	387.2	386.1	385.7	385.7
34.5°	387.4	385.9	384.8	383.6	382.9	383.0
35°	384.7	383.4	382.0	381.1	380.5	380.5
35.5°	382.3	380.9	379.9	378.5	377.8	377.9
36°	379.5	378.3	377.1	375.7	375.2	375.3
36.5°	377.1	375.4	374.2	373.0	372.4	372.7
37°	374.2	372.9	371.4	370.6	369.9	370.0
37.5°	372.0	370.3	369.1	367.9	367.2	367.0
38°	368.9	367.4	366.1	364.9	364.2	364.1
38.5°	366.2	364.6	363.2	362.0	361.5	361.5
39°	363.3	361.8	360.3	359.4	358.8	358.7
39.5°	360.7	358.8	357.7	356.4	355.9	356.0
40°	357.6	356.3	354.9	353.6	353.1	353.0
40.5°	355.1	353.4	351.9	350.7	350.3	349.9
41°	351.9	350.4	348.8	347.7	347.1	347.0
41.5°	349.3	347.4	345.9	344.7	344.0	344.0
42°	346.2	344.3	343.0	341.5	341.1	341.0
42.5°	343.1	341.3	340.0	338.6	338.0	337.9
43°	340.2	338.2	336.9	335.5	334.9	334.7
43.5°	337.1	335.2	334.0	332.4	331.9	331.8
44°	334.0	332.2	330.7	329.2	328.7	328.9
44.5°	331.0	329.0	327.6	326.2	325.5	325.4

TEST NUMBER: P869653  
 CATALOG NUMBER: SMX14RLSFS2W-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	327.9	325.8	324.4	323.1	322.4	322.3
45.5°	324.7	322.6	321.2	319.6	319.3	319.3
46°	321.4	319.6	317.9	316.7	315.9	315.9
46.5°	318.3	316.1	314.7	313.4	312.5	312.8
47°	315.1	313.0	311.3	310.1	309.2	309.4
47.5°	311.7	309.6	308.0	306.9	305.9	306.2
48°	308.4	306.3	304.8	303.5	302.7	302.8
48.5°	305.3	303.0	301.4	300.1	299.6	299.4
49°	302.0	299.8	298.1	296.6	296.1	296.1
49.5°	298.4	296.3	294.7	293.2	292.4	292.6
50°	295.1	292.7	291.1	289.9	289.1	289.0
50.5°	291.5	289.3	287.8	286.4	285.7	285.6
51°	288.1	285.9	284.2	282.8	282.3	282.1
51.5°	285.0	282.4	280.8	279.3	278.5	278.5
52°	281.3	278.9	277.3	275.9	275.0	274.9
52.5°	277.7	275.2	273.7	272.3	271.5	271.2
53°	274.1	271.7	270.2	268.6	267.7	267.8
53.5°	270.6	268.1	266.3	264.8	264.0	264.1
54°	266.9	264.3	262.8	261.3	260.4	260.5
54.5°	263.4	260.8	259.2	257.7	257.0	256.9
55°	259.7	257.2	255.4	254.0	253.3	253.1
55.5°	256.1	253.3	251.6	250.4	249.5	249.4
56°	252.4	249.5	248.0	246.5	245.6	245.7
56.5°	248.6	245.9	244.1	242.6	242.0	241.7
57°	244.9	242.1	240.4	238.8	237.9	237.9
57.5°	241.1	238.2	236.4	234.9	234.0	234.0
58°	237.3	234.4	232.6	231.0	230.3	230.4
58.5°	233.5	230.6	228.7	227.1	226.3	226.4
59°	229.7	226.6	224.7	223.1	222.4	222.4
59.5°	225.6	222.8	221.0	219.1	218.3	218.3
60°	221.7	218.7	216.8	215.2	214.4	214.4
60.5°	217.9	214.7	212.9	211.1	210.5	210.6
61°	213.8	210.8	208.9	207.4	206.5	206.7
61.5°	210.0	206.8	205.0	203.3	202.5	202.5
62°	206.1	202.8	201.0	199.2	198.4	198.4
62.5°	202.0	198.6	196.8	195.0	194.2	194.2
63°	198.0	194.6	192.7	191.0	190.3	190.2
63.5°	193.9	190.4	188.6	187.0	186.2	186.1
64°	189.9	186.4	184.5	183.0	182.1	181.8
64.5°	185.7	182.4	180.4	178.8	177.9	177.9
65°	181.8	178.2	176.2	174.7	173.8	173.8
65.5°	177.7	174.0	172.1	170.5	169.7	169.6
66°	173.4	169.9	167.9	166.0	165.3	165.3
66.5°	169.1	165.6	163.6	162.0	161.2	161.2
67°	165.1	161.6	159.5	157.9	156.9	157.2

TEST NUMBER: P869653  
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	161.2	157.3	155.2	153.7	152.6	152.7
68°	156.9	153.1	150.9	149.3	148.5	148.5
68.5°	152.6	148.8	146.7	144.9	144.2	144.2
69°	148.3	144.5	142.4	140.9	139.8	139.9
69.5°	144.2	140.3	138.2	136.4	135.5	135.6
70°	140.0	136.0	134.0	132.1	131.5	131.3
70.5°	135.6	131.7	129.7	128.0	127.2	127.1
71°	131.4	127.3	125.3	123.6	122.7	122.8
71.5°	127.2	123.0	121.0	119.4	118.3	118.4
72°	122.9	118.8	116.8	115.0	114.3	114.3
72.5°	118.6	114.6	112.6	110.8	110.0	110.1
73°	114.2	110.2	108.1	106.4	105.8	105.7
73.5°	110.1	105.9	104.0	102.2	101.3	101.4
74°	105.9	101.7	99.5	97.9	97.0	97.1
74.5°	101.6	97.4	95.4	93.6	92.7	92.7
75°	97.2	93.1	91.1	89.4	88.7	88.6
75.5°	93.0	88.9	86.9	85.1	84.1	84.4
76°	88.7	84.5	82.6	80.9	80.1	80.1
76.5°	84.5	80.3	78.2	76.7	75.9	75.9
77°	80.3	76.3	74.2	72.6	71.7	71.7
77.5°	76.1	72.1	70.1	68.5	67.7	67.7
78°	72.0	67.9	65.9	64.4	63.6	63.6
78.5°	67.8	63.9	62.0	60.3	59.6	59.5
79°	63.7	59.9	57.9	56.4	55.6	55.5
79.5°	59.7	55.8	53.9	52.3	51.6	51.6
80°	55.8	51.8	49.8	48.4	47.6	47.8
80.5°	51.8	48.0	46.1	44.5	43.8	43.9
81°	47.9	44.1	42.2	40.9	40.2	40.2
81.5°	44.0	40.5	38.7	37.2	36.5	36.5
82°	40.3	36.8	35.1	33.6	33.0	33.0
82.5°	36.8	33.4	31.6	30.3	29.6	29.6
83°	33.2	29.8	28.2	26.9	26.3	26.2
83.5°	29.7	26.5	24.9	23.7	23.1	23.1
84°	26.2	23.4	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	17.4	16.2	15.2	14.7	14.6
85.5°	17.1	14.9	13.5	12.6	12.1	12.0
86°	14.5	12.3	11.1	10.1	9.7	9.8
86.5°	12.2	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	5.5	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



TEST NUMBER: P869653  
CATALOG NUMBER: SMX14RLSFSD2W-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)