

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: P869651

Luminaire Tested: **SMX14RLSFSD2W-1300LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869651  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX14RLSFSD2W-1300LM-2700K  
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT  
 Ballast/Driver: -

**Summary**

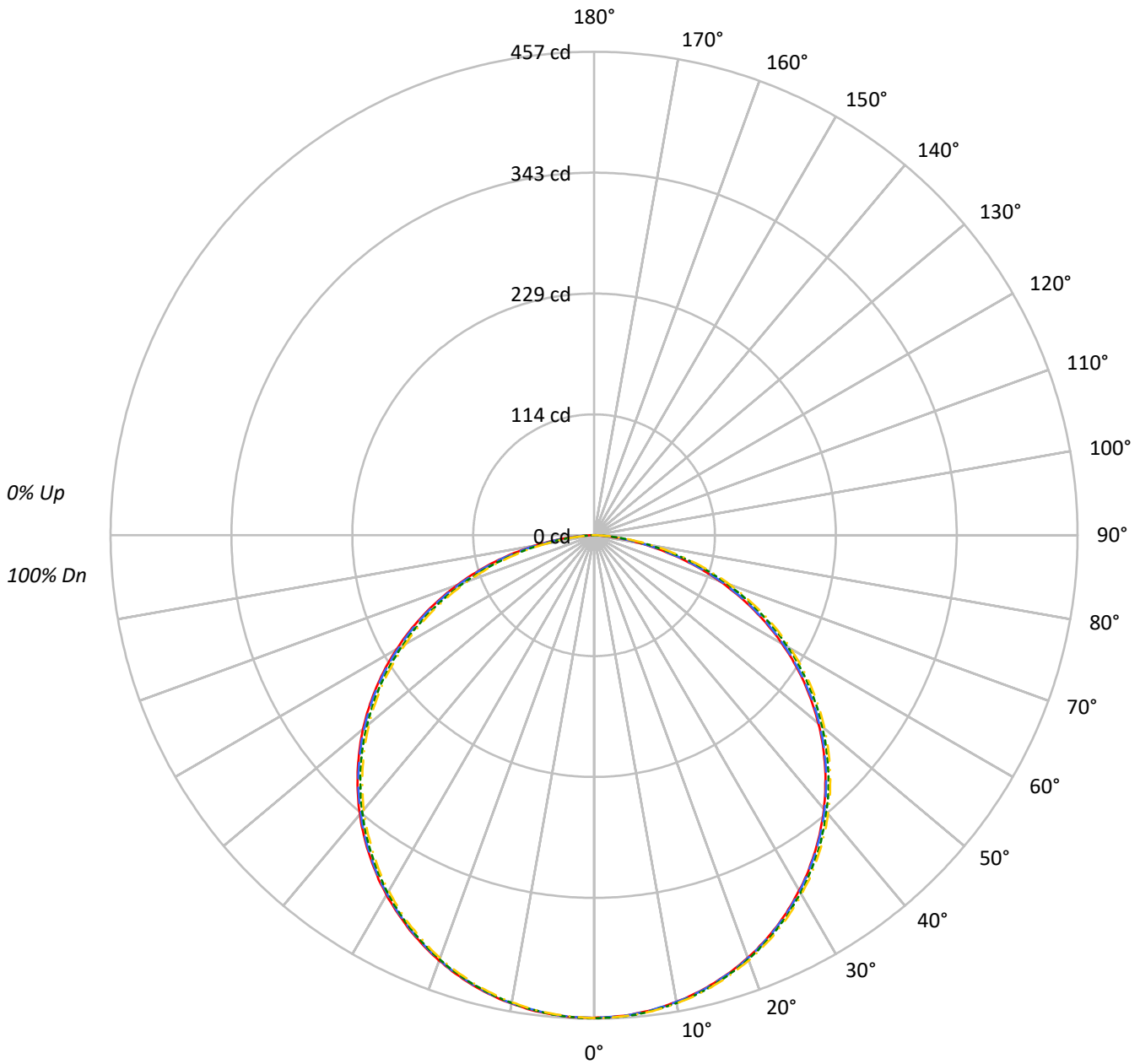
Lumens per Lamp: N/A  
 Luminaire Lumens: 1335.7 lumens  
 Efficiency: N/A  
 Efficacy: 90.9 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Circular (Dia: 1.17' x H: 0')  
 CIE Type: Direct

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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	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	84	84	84		
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69	69	69	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	58	58	58		
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49	49	49	49	49	49	49		
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43	43	43	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	37	37	37		
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33	33	33	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	29	29	29		
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26	26	26	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	24	24	24		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4591	4591	4591	4591
5°	4584	4595	4594	4594
10°	4577	4589	4591	4586
15°	4566	4580	4590	4581
20°	4551	4565	4582	4570
25°	4534	4555	4576	4555
30°	4504	4536	4560	4534
35°	4475	4516	4543	4510
40°	4440	4489	4524	4481
45°	4392	4456	4497	4440
50°	4332	4409	4465	4387
55°	4253	4349	4413	4321
60°	4132	4257	4335	4214
65°	3962	4127	4227	4065
70°	3698	3922	4052	3831
75°	3297	3604	3775	3464
80°	2648	3077	3321	2874
85°	1616	2194	2575	1917

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.2	3.2
10°-20°	124.0	9.3
20°-30°	189.0	14.1
30°-40°	229.7	17.2
40°-50°	240.9	18.0
50°-60°	220.5	16.5
60°-70°	169.8	12.7
70°-80°	96.1	7.2
80°-90°	22.4	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°	356.2	26.7
0°-40°	585.9	43.9
0°-60°	1047.3	78.4
0°-90°	1335.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1335.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	456	456	456	456	456	
5°	454	455	455	455	454	43
15°	438	440	441	440	438	124
25°	408	410	412	410	408	188
35°	364	368	370	367	364	228
45°	309	313	316	312	309	238
55°	242	248	252	246	242	216
65°	166	173	178	171	166	164
75°	85	93	97	89	85	90
85°	14	19	22	17	14	18
90°	0	0	0	0	0	

TEST NUMBER: P869651  
 CATALOG NUMBER: SMX14RLSFS2W-1300LM-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	456.2	456.2	456.2	456.2	456.2	456.2	456.2	456.2	456.2	456.2	456.2
0.5°	455.9	455.8	455.9	456.3	456.5	456.6	456.3	456.1	456.0	455.9	456.0
1°	456.0	455.6	455.8	456.4	456.5	456.5	456.3	456.0	456.2	455.9	455.8
1.5°	455.8	455.7	455.7	456.0	456.3	456.4	456.3	456.2	456.3	455.7	455.8
2°	455.7	455.3	455.5	455.7	456.4	456.3	456.1	456.1	456.2	455.6	455.8
2.5°	455.3	455.3	455.5	455.9	456.1	456.1	455.9	455.9	456.1	455.6	455.7
3°	455.1	455.0	455.3	455.5	455.8	455.9	455.7	455.7	455.8	455.6	455.5
3.5°	455.1	454.8	455.1	455.3	455.8	455.8	455.6	455.6	455.5	455.4	455.3
4°	454.8	454.5	454.8	455.0	455.5	455.5	455.3	455.3	455.1	455.2	455.3
4.5°	454.3	454.0	454.4	454.5	455.1	455.2	455.0	455.1	454.9	454.9	454.7
5°	453.8	453.4	454.0	454.5	454.9	454.7	454.7	454.8	454.8	454.5	454.5
5.5°	453.2	453.0	453.6	453.6	454.3	454.4	454.3	454.3	454.3	454.3	454.2
6°	452.9	452.6	453.1	453.1	454.0	453.9	453.9	453.9	454.0	453.9	453.6
6.5°	452.6	452.2	452.8	452.8	453.4	453.5	453.7	453.6	453.5	453.5	453.2
7°	452.0	451.7	451.9	452.2	452.9	452.7	453.2	453.0	453.2	453.0	452.6
7.5°	451.6	451.1	451.2	451.6	452.3	452.2	452.6	452.4	452.9	452.5	452.0
8°	450.9	450.6	450.5	451.1	451.6	451.6	452.0	452.0	452.3	452.0	451.8
8.5°	450.1	449.9	450.3	450.5	451.1	451.0	451.2	451.2	451.4	451.4	451.0
9°	449.4	449.3	449.5	449.7	450.3	450.7	451.0	450.7	450.7	450.5	450.5
9.5°	448.5	448.5	448.7	449.2	449.7	449.7	450.0	450.0	450.3	450.0	449.7
10°	447.9	447.8	447.8	448.5	449.1	449.1	449.4	449.4	449.3	449.5	449.2
10.5°	447.0	447.1	447.3	447.7	448.3	448.4	448.5	448.7	448.8	448.7	448.4
11°	446.5	446.1	446.5	447.0	447.4	447.5	447.7	447.9	448.1	447.8	447.6
11.5°	445.3	445.2	445.9	446.0	446.6	446.6	447.2	447.1	447.3	446.9	446.7
12°	444.4	444.4	444.8	445.1	445.9	445.8	446.3	446.2	446.5	446.1	445.9
12.5°	443.3	443.6	443.8	444.2	444.8	445.1	445.2	445.6	445.3	445.5	445.1
13°	442.6	442.6	442.8	442.9	443.8	444.2	444.4	444.6	444.7	444.5	444.3
13.5°	441.4	441.4	441.9	442.2	442.9	443.2	443.4	443.6	443.8	443.3	443.3
14°	440.5	440.3	440.8	441.2	441.8	442.1	442.4	442.4	442.7	442.3	442.1
14.5°	439.1	439.2	439.6	440.3	440.7	441.0	441.5	441.7	441.7	441.6	441.1
15°	438.3	438.0	438.7	438.7	439.6	439.9	440.2	440.7	440.6	440.3	440.3
15.5°	437.0	436.8	437.2	437.7	438.4	438.7	439.1	439.5	439.6	439.2	438.9
16°	435.7	435.9	436.0	436.7	437.2	437.5	438.0	438.0	438.4	438.0	437.5
16.5°	434.6	434.7	434.7	435.4	435.9	436.2	436.8	436.8	437.2	437.0	436.4
17°	433.5	433.5	433.8	434.2	434.7	434.9	435.6	435.7	435.7	435.9	435.3
17.5°	432.1	432.1	432.5	433.2	433.3	433.9	434.5	434.5	434.7	434.4	434.2
18°	430.8	430.7	431.1	431.7	432.3	432.7	433.2	433.3	433.5	433.3	432.8
18.5°	429.3	429.2	429.8	430.1	430.8	431.3	431.6	431.9	432.0	432.0	431.6
19°	427.9	427.8	428.5	428.6	429.2	429.9	430.3	430.5	430.9	430.5	430.0
19.5°	426.3	426.4	426.9	427.5	427.9	428.3	429.2	429.2	429.1	429.3	428.6
20°	425.0	424.8	425.4	425.9	426.3	427.1	427.7	427.9	427.9	427.8	427.3
20.5°	423.5	423.2	423.8	424.6	424.9	425.6	426.2	426.5	426.3	426.4	425.9
21°	422.0	421.9	422.2	422.8	423.4	423.9	424.7	425.0	425.0	424.8	424.2
21.5°	420.4	420.1	420.8	421.4	422.0	422.6	423.1	423.5	423.6	423.2	422.8
22°	418.5	418.8	419.3	419.6	420.1	420.9	421.8	421.9	422.0	421.6	421.1

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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°	417.0	416.9	417.5	417.9	418.7	419.3	419.9	420.3	420.4	420.1	419.7
23°	415.3	415.2	415.6	416.5	417.0	417.6	418.4	418.9	418.5	418.5	417.9
23.5°	413.5	413.5	413.8	414.6	415.3	415.8	416.8	416.9	416.9	417.0	416.1
24°	411.8	411.8	412.3	412.8	413.7	414.4	415.2	415.3	415.3	415.4	414.5
24.5°	409.8	410.0	410.4	411.1	412.0	412.4	413.3	413.7	413.7	413.4	412.9
25°	408.3	408.0	408.7	409.2	410.2	410.7	411.6	411.9	412.1	411.9	411.0
25.5°	406.2	406.4	406.7	407.4	408.1	409.0	409.8	410.2	410.0	410.0	409.2
26°	404.3	404.6	404.8	405.6	406.4	407.3	407.8	408.3	408.0	408.3	407.5
26.5°	402.4	402.4	402.7	403.6	404.5	405.2	406.1	406.4	406.2	406.2	405.5
27°	400.6	400.5	401.0	401.4	402.9	403.2	404.2	404.7	404.3	404.4	403.4
27.5°	398.3	398.4	399.0	399.4	400.8	401.3	402.1	402.5	402.5	402.5	401.6
28°	396.2	396.4	397.0	397.5	398.5	399.5	400.3	400.6	400.5	400.5	399.6
28.5°	394.1	394.3	394.7	395.2	396.6	397.3	398.2	398.5	398.5	398.3	397.6
29°	392.0	392.4	392.7	393.4	394.5	395.2	396.3	396.6	396.6	396.3	395.7
29.5°	389.6	389.9	390.5	391.3	392.6	393.1	394.3	394.6	394.7	394.5	393.6
30°	387.6	387.8	388.3	389.2	390.4	391.1	392.2	392.5	392.4	392.4	391.3
30.5°	385.7	385.7	386.4	387.2	388.4	388.9	389.9	390.4	390.3	390.3	389.3
31°	383.4	383.8	383.9	384.8	386.4	386.7	387.7	388.5	388.1	388.2	387.3
31.5°	381.1	381.3	381.8	382.7	383.9	384.8	385.7	386.1	386.1	386.2	385.2
32°	379.0	379.1	379.6	380.4	381.7	382.5	383.8	384.0	384.1	384.1	382.9
32.5°	376.7	376.9	377.0	377.9	379.2	380.2	381.4	382.0	381.5	381.5	380.7
33°	374.1	374.7	374.7	375.6	377.1	377.7	379.0	379.5	379.0	379.3	378.4
33.5°	371.6	372.1	372.5	373.4	374.7	375.4	376.5	377.4	376.9	376.9	376.1
34°	369.3	369.7	369.9	371.0	372.5	373.2	374.3	375.0	374.5	374.6	373.7
34.5°	366.7	367.1	367.7	368.6	370.1	370.9	372.0	372.6	372.1	372.2	371.3
35°	364.3	364.7	365.2	366.0	367.6	368.3	369.6	370.0	369.8	369.8	369.0
35.5°	361.8	362.0	362.7	363.5	365.1	366.0	367.0	367.5	367.5	367.5	366.6
36°	359.3	359.5	360.0	360.9	362.7	363.6	364.8	365.2	365.2	364.9	364.1
36.5°	356.8	356.9	357.7	358.5	360.4	360.9	362.3	362.7	362.7	362.8	361.5
37°	354.2	354.3	354.9	355.9	357.7	358.5	359.7	360.4	360.1	360.1	359.2
37.5°	351.4	351.8	352.3	353.3	354.9	355.9	357.1	357.6	357.5	357.4	356.6
38°	348.6	349.2	349.8	350.6	352.4	353.5	354.7	355.1	354.8	354.7	354.1
38.5°	346.1	346.5	346.9	347.8	349.8	350.7	352.1	352.5	352.5	352.2	351.5
39°	343.4	343.6	344.3	345.2	346.9	348.0	349.4	350.0	349.8	349.6	348.7
39.5°	340.8	340.8	341.6	342.6	344.2	345.5	346.9	347.3	347.1	346.9	345.8
40°	338.0	338.4	338.9	339.9	341.7	342.9	343.9	344.7	344.4	344.3	343.1
40.5°	335.0	335.4	336.2	337.2	339.0	340.1	341.3	341.9	341.7	341.6	340.5
41°	332.3	332.8	333.4	334.5	336.3	337.5	338.5	339.2	339.1	338.8	337.8
41.5°	329.4	329.9	330.5	331.7	333.5	334.7	335.8	336.3	336.3	335.9	334.9
42°	326.5	327.0	327.4	328.8	330.6	331.8	332.9	333.5	333.4	333.1	332.2
42.5°	323.5	324.1	324.5	325.9	327.8	328.8	330.1	330.7	330.5	330.5	329.3
43°	320.5	321.1	321.6	322.9	324.9	326.1	327.3	328.0	327.7	327.4	326.5
43.5°	317.7	318.1	318.8	320.0	321.8	323.1	324.2	325.1	324.9	324.5	323.6
44°	314.9	315.1	315.7	316.9	318.9	320.2	321.5	322.1	321.9	321.6	320.7
44.5°	311.6	312.0	312.8	314.0	316.0	317.3	318.4	319.0	318.9	318.6	317.7

TEST NUMBER: P869651  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	308.6	308.9	309.8	311.1	313.1	314.2	315.5	316.1	316.0	315.8	314.7
45.5°	305.7	305.8	306.7	308.0	310.0	311.2	312.5	312.9	313.1	312.7	311.6
46°	302.5	302.8	303.5	305.0	306.8	308.1	309.5	310.0	310.1	309.8	308.7
46.5°	299.4	299.6	300.3	301.6	303.7	305.1	306.4	306.8	306.9	306.7	305.6
47°	296.2	296.5	297.3	298.7	300.5	302.0	303.3	303.8	303.9	303.5	302.4
47.5°	293.1	293.3	294.3	295.5	297.6	298.9	300.2	300.8	300.7	300.5	299.4
48°	289.9	290.1	291.2	292.3	294.5	295.7	297.2	297.7	297.7	297.3	296.5
48.5°	286.7	286.9	287.9	289.1	291.3	292.6	293.9	294.6	294.6	294.2	293.3
49°	283.5	283.6	284.6	285.9	288.0	289.3	290.9	291.5	291.4	291.0	290.1
49.5°	280.2	280.4	281.3	282.8	284.8	286.1	287.6	288.0	288.3	287.9	286.9
50°	276.7	277.0	278.0	279.4	281.6	283.0	284.5	285.0	285.2	284.8	283.4
50.5°	273.4	273.6	274.7	276.2	278.2	279.8	281.2	281.7	281.7	281.4	280.2
51°	270.1	270.3	271.3	272.8	275.1	276.4	277.8	278.5	278.6	277.9	277.1
51.5°	266.6	267.0	268.0	269.4	271.6	273.2	274.6	275.2	275.2	274.7	273.6
52°	263.2	263.5	264.5	266.1	268.5	269.8	271.4	272.1	271.9	271.3	270.5
52.5°	259.7	260.2	261.2	262.6	265.0	266.4	268.0	268.6	268.4	268.0	266.9
53°	256.4	256.8	257.9	259.2	261.6	263.1	264.6	265.3	265.1	264.7	263.6
53.5°	252.9	253.0	254.3	255.7	258.3	259.8	261.0	261.8	261.6	261.3	260.3
54°	249.4	249.4	250.6	252.1	254.8	256.1	257.7	258.5	258.2	258.0	256.7
54.5°	245.9	246.3	247.2	248.6	251.2	252.8	254.3	254.9	254.8	254.5	253.2
55°	242.4	242.7	243.7	245.4	247.9	249.4	250.9	251.7	251.5	251.0	249.8
55.5°	238.8	239.0	240.2	241.6	244.4	246.0	247.4	248.2	248.0	247.5	246.4
56°	235.2	235.4	236.6	238.1	240.9	242.3	244.0	244.8	244.5	244.0	242.8
56.5°	231.4	231.8	233.1	234.4	237.3	238.8	240.3	241.0	241.1	240.2	239.4
57°	227.7	228.2	229.3	230.7	233.6	235.3	236.9	237.7	237.4	236.8	235.8
57.5°	224.1	224.4	225.6	227.1	230.0	231.5	233.1	233.8	233.8	233.2	232.1
58°	220.6	220.8	221.8	223.5	226.4	228.0	229.6	230.3	230.1	229.5	228.5
58.5°	216.7	216.9	218.2	219.8	222.7	224.4	225.8	226.7	226.7	225.8	224.9
59°	212.9	213.4	214.4	216.1	219.1	220.7	222.2	223.0	223.0	222.1	221.1
59.5°	209.0	209.6	210.6	212.3	215.3	217.0	218.5	219.3	219.1	218.6	217.4
60°	205.3	205.7	207.0	208.6	211.5	213.3	214.8	215.6	215.4	214.8	213.6
60.5°	201.6	201.9	203.0	204.7	207.6	209.6	211.1	211.9	211.7	211.1	209.9
61°	197.9	198.3	199.3	201.2	203.9	205.8	207.4	208.1	208.0	207.2	206.3
61.5°	193.9	194.3	195.5	197.3	200.1	202.0	203.5	204.3	204.3	203.5	202.5
62°	189.9	190.5	191.7	193.3	196.6	198.4	199.9	200.6	200.6	199.9	198.8
62.5°	185.9	186.6	187.6	189.4	192.7	194.6	196.2	196.8	196.8	196.0	194.9
63°	182.1	182.7	183.8	185.6	188.8	190.7	192.2	193.0	192.9	192.2	191.1
63.5°	178.2	178.8	180.0	181.6	184.9	186.8	188.5	189.1	189.1	188.4	187.2
64°	174.1	174.8	176.1	177.8	180.9	183.1	184.5	185.1	185.2	184.4	183.4
64.5°	170.4	170.9	172.1	173.9	177.1	179.0	180.6	181.3	181.3	180.6	179.3
65°	166.4	166.9	168.3	170.0	173.3	175.3	176.9	177.5	177.5	176.8	175.7
65.5°	162.3	163.0	164.2	166.1	169.5	171.3	172.9	173.6	173.6	173.0	171.5
66°	158.3	158.9	160.1	161.9	165.3	167.3	168.9	169.6	169.5	168.9	167.6
66.5°	154.3	155.0	156.0	157.9	161.4	163.3	164.8	165.6	165.5	164.8	163.6
67°	150.5	150.9	152.1	154.0	157.4	159.3	160.9	161.7	161.6	161.0	159.5



TEST NUMBER: P869651  
 CATALOG NUMBER: SMX14RLSFS2W-1300LM-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	146.2	146.9	148.2	150.0	153.4	155.2	156.8	157.7	157.8	157.0	155.6
68°	142.2	142.7	144.1	145.9	149.4	151.4	153.1	153.7	153.7	152.9	151.7
68.5°	138.1	138.7	140.0	141.9	145.5	147.4	148.9	149.7	149.7	148.9	147.8
69°	133.9	134.5	135.9	137.8	141.4	143.4	145.0	145.7	145.7	144.9	143.9
69.5°	129.9	130.4	131.9	133.5	137.4	139.5	141.0	141.7	141.8	140.9	139.6
70°	125.7	126.4	127.8	129.5	133.3	135.3	136.9	137.6	137.7	136.9	135.5
70.5°	121.7	122.3	123.7	125.6	129.4	131.2	132.9	133.7	133.7	132.9	131.5
71°	117.6	118.1	119.5	121.3	125.3	127.4	129.0	129.7	129.7	128.8	127.5
71.5°	113.4	114.0	115.4	117.2	121.2	123.3	124.8	125.6	125.6	124.8	123.3
72°	109.4	109.9	111.3	113.1	117.0	119.1	120.9	121.4	121.6	120.7	119.3
72.5°	105.4	106.0	107.3	109.2	113.0	115.1	116.7	117.5	117.5	116.6	115.2
73°	101.2	101.8	103.3	104.9	108.8	110.9	112.6	113.2	113.4	112.5	111.0
73.5°	97.1	97.6	99.1	100.8	104.9	107.0	108.6	109.3	109.3	108.5	107.1
74°	92.9	93.6	95.0	96.8	100.8	102.9	104.6	105.2	105.3	104.4	103.1
74.5°	88.8	89.5	90.9	92.6	96.7	98.8	100.5	101.2	101.3	100.4	98.9
75°	84.8	85.4	86.9	88.6	92.7	94.7	96.3	97.1	97.1	96.3	94.9
75.5°	80.8	81.4	82.8	84.7	88.6	90.6	92.2	93.0	93.0	92.2	90.8
76°	76.7	77.3	78.8	80.5	84.5	86.6	88.1	88.9	89.0	88.1	86.7
76.5°	72.6	73.4	74.7	76.5	80.5	82.7	84.2	84.8	84.9	84.1	82.5
77°	68.6	69.3	70.8	72.6	76.5	78.5	80.1	80.9	80.8	80.1	78.7
77.5°	64.8	65.5	66.9	68.7	72.5	74.6	76.2	76.8	76.9	76.1	74.6
78°	60.9	61.6	62.9	64.6	68.6	70.6	72.2	72.8	72.9	72.0	70.7
78.5°	57.0	57.7	59.1	60.9	64.5	66.5	68.2	68.8	68.9	68.1	66.7
79°	53.2	53.9	55.3	57.0	60.8	62.6	64.2	64.9	64.9	64.1	62.8
79.5°	49.4	50.0	51.5	53.2	56.9	58.9	60.5	61.1	61.1	60.3	58.9
80°	45.7	46.2	47.7	49.4	53.1	55.1	56.6	57.3	57.3	56.5	55.2
80.5°	42.0	42.7	44.0	45.7	49.4	51.3	52.8	53.5	53.5	52.7	51.2
81°	38.5	39.1	40.4	42.0	45.7	47.5	49.0	49.7	49.7	49.0	47.6
81.5°	35.0	35.7	36.9	38.5	42.0	43.8	45.3	45.9	45.9	45.1	43.8
82°	31.6	32.2	33.4	34.9	38.4	40.3	41.6	42.3	42.3	41.5	40.2
82.5°	28.3	29.0	30.2	31.7	35.0	36.8	38.1	38.7	38.7	38.0	36.7
83°	25.1	25.8	26.9	28.3	31.6	33.4	34.7	35.5	35.3	34.6	33.3
83.5°	22.1	22.7	23.8	25.1	28.3	29.9	31.3	32.0	31.9	31.1	29.9
84°	19.2	19.8	20.9	22.1	25.0	26.7	27.9	28.6	28.6	27.8	26.6
84.5°	16.5	17.0	18.0	19.3	22.0	23.5	24.8	25.4	25.3	24.6	23.5
85°	14.0	14.5	15.5	16.5	19.0	20.5	21.7	22.3	22.3	21.6	20.6
85.5°	11.5	11.9	12.9	14.1	16.3	17.7	18.8	19.3	19.3	18.6	17.6
86°	9.4	9.6	10.6	11.6	13.9	15.0	16.0	16.5	16.5	15.8	15.0
86.5°	7.1	7.5	8.3	9.4	11.6	12.7	13.7	14.1	14.1	13.5	12.6
87°	5.1	5.4	6.1	7.1	9.4	10.5	11.4	11.9	11.8	11.3	10.4
87.5°	3.7	3.8	4.4	5.2	7.3	8.4	9.2	9.6	9.5	9.1	8.3
88°	2.3	2.6	3.0	3.7	5.4	6.3	7.1	7.5	7.5	7.0	6.3
88.5°	1.4	1.5	1.9	2.4	3.8	4.6	5.2	5.6	5.5	5.1	4.5
89°	0.9	0.9	1.1	1.4	2.4	3.1	3.6	3.9	3.8	3.5	3.0
89.5°	0.6	0.5	0.6	0.8	1.3	1.9	2.2	2.5	2.5	2.2	1.7

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869651  
CATALOG NUMBER: SMX14RLSFSD2W-1300LM-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: P869651  
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	456.2	456.2	456.2	456.2	456.2	456.2
0.5°	456.2	456.6	456.4	456.2	456.3	455.9
1°	456.2	456.6	456.3	456.1	456.2	456.0
1.5°	456.2	456.5	456.2	455.8	455.7	455.8
2°	456.0	456.3	456.0	455.8	455.7	455.7
2.5°	455.8	456.1	455.9	455.6	455.4	455.3
3°	455.6	455.7	455.8	455.4	455.5	455.1
3.5°	455.5	455.5	455.4	455.2	455.3	455.1
4°	455.3	455.3	455.0	454.6	454.5	454.8
4.5°	454.9	455.0	454.9	454.3	454.4	454.3
5°	454.5	454.8	454.4	453.9	453.7	453.8
5.5°	454.3	454.1	454.2	453.6	453.6	453.2
6°	453.8	453.7	453.6	453.1	453.2	452.9
6.5°	453.2	453.0	453.1	452.6	452.7	452.6
7°	452.7	452.6	452.6	452.2	452.2	452.0
7.5°	452.2	452.2	452.0	451.6	451.9	451.6
8°	451.5	451.4	451.4	451.0	451.4	450.9
8.5°	451.1	450.8	450.6	450.4	450.5	450.1
9°	450.6	450.4	450.2	449.5	449.7	449.4
9.5°	449.9	449.7	449.5	448.7	448.9	448.5
10°	449.0	448.8	448.6	448.3	448.2	447.9
10.5°	448.3	448.1	447.9	447.3	447.1	447.0
11°	447.6	447.3	447.1	446.6	446.2	446.5
11.5°	446.6	446.4	446.2	445.6	445.5	445.3
12°	445.8	445.6	445.3	444.8	444.8	444.4
12.5°	444.9	444.8	444.5	443.7	443.6	443.3
13°	443.8	444.0	443.4	442.9	442.7	442.6
13.5°	442.9	442.8	442.4	441.8	441.8	441.4
14°	442.0	441.7	441.6	440.7	440.5	440.5
14.5°	440.7	440.7	440.4	439.7	439.5	439.1
15°	439.8	439.7	439.2	438.5	438.3	438.3
15.5°	438.8	438.5	438.0	437.3	437.2	437.0
16°	437.5	437.4	436.8	436.0	436.0	435.7
16.5°	436.4	436.2	435.5	434.7	434.6	434.6
17°	435.2	434.8	434.2	433.6	433.5	433.5
17.5°	434.1	433.5	433.1	432.3	432.3	432.1
18°	432.7	432.3	431.4	430.9	430.7	430.8
18.5°	431.4	431.0	430.4	429.6	429.6	429.3
19°	430.0	429.6	429.0	428.3	427.9	427.9
19.5°	428.5	428.1	427.7	427.0	426.6	426.3
20°	427.2	426.7	426.1	425.4	425.2	425.0
20.5°	425.8	425.0	424.5	423.8	423.7	423.5
21°	424.1	423.6	423.0	422.3	421.8	422.0
21.5°	422.4	422.0	421.4	420.7	420.3	420.4
22°	420.9	420.4	419.7	418.9	418.4	418.5

TEST NUMBER: P869651  
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	419.2	418.7	418.1	417.2	416.9	417.0
23°	417.6	417.2	416.5	415.4	415.2	415.3
23.5°	415.9	415.5	414.9	413.8	413.5	413.5
24°	414.2	413.8	412.9	411.9	411.7	411.8
24.5°	412.6	411.9	411.3	410.0	409.8	409.8
25°	411.0	410.2	409.5	408.6	408.2	408.3
25.5°	409.1	408.5	407.5	406.6	406.4	406.2
26°	407.1	406.7	405.6	404.9	404.4	404.3
26.5°	405.0	404.5	403.7	402.8	402.5	402.4
27°	403.2	402.6	401.8	400.7	400.4	400.6
27.5°	401.6	400.5	399.7	398.8	398.4	398.3
28°	399.2	398.5	397.8	396.5	396.1	396.2
28.5°	397.3	396.6	395.7	394.5	393.9	394.1
29°	395.4	394.4	393.5	392.4	391.9	392.0
29.5°	393.3	392.3	391.4	390.2	389.8	389.6
30°	391.2	390.2	389.5	388.1	387.8	387.6
30.5°	388.9	388.1	387.3	386.1	385.6	385.7
31°	386.9	385.8	384.7	383.9	383.4	383.4
31.5°	384.8	383.3	382.6	381.7	381.1	381.1
32°	382.5	381.4	380.3	379.4	378.7	379.0
32.5°	380.3	379.0	378.2	376.9	376.4	376.7
33°	377.9	376.7	375.8	374.7	374.1	374.1
33.5°	375.5	374.2	373.3	372.2	371.7	371.6
34°	373.1	372.1	370.8	369.7	369.3	369.3
34.5°	370.9	369.4	368.4	367.3	366.6	366.7
35°	368.3	367.1	365.8	364.8	364.3	364.3
35.5°	366.0	364.7	363.7	362.4	361.7	361.8
36°	363.4	362.2	361.1	359.7	359.3	359.3
36.5°	361.1	359.5	358.3	357.1	356.6	356.8
37°	358.3	357.0	355.6	354.8	354.2	354.2
37.5°	356.1	354.6	353.4	352.3	351.5	351.4
38°	353.2	351.8	350.5	349.4	348.7	348.6
38.5°	350.6	349.1	347.8	346.6	346.1	346.1
39°	347.8	346.4	345.0	344.1	343.6	343.4
39.5°	345.3	343.6	342.5	341.3	340.8	340.8
40°	342.4	341.1	339.8	338.6	338.1	338.0
40.5°	339.9	338.3	336.9	335.8	335.4	335.0
41°	337.0	335.5	334.0	333.0	332.4	332.3
41.5°	334.4	332.6	331.2	330.0	329.3	329.4
42°	331.5	329.7	328.4	327.0	326.6	326.5
42.5°	328.5	326.8	325.5	324.2	323.6	323.5
43°	325.7	323.8	322.6	321.2	320.7	320.5
43.5°	322.8	320.9	319.8	318.3	317.8	317.7
44°	319.8	318.0	316.7	315.2	314.7	314.9
44.5°	316.9	315.0	313.7	312.3	311.6	311.6

TEST NUMBER: P869651  
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	313.9	312.0	310.6	309.3	308.7	308.6
45.5°	310.9	308.9	307.5	306.0	305.8	305.7
46°	307.8	306.0	304.4	303.2	302.5	302.5
46.5°	304.7	302.6	301.3	300.0	299.2	299.4
47°	301.7	299.7	298.1	296.9	296.0	296.2
47.5°	298.5	296.5	294.9	293.8	292.9	293.1
48°	295.3	293.3	291.8	290.6	289.8	289.9
48.5°	292.3	290.1	288.6	287.3	286.8	286.7
49°	289.1	287.0	285.4	284.0	283.5	283.5
49.5°	285.7	283.7	282.2	280.7	280.0	280.2
50°	282.5	280.2	278.7	277.5	276.8	276.7
50.5°	279.1	277.0	275.5	274.2	273.5	273.4
51°	275.9	273.7	272.1	270.8	270.2	270.1
51.5°	272.8	270.4	268.9	267.4	266.7	266.6
52°	269.3	267.0	265.5	264.2	263.3	263.2
52.5°	265.9	263.5	262.0	260.7	259.9	259.7
53°	262.4	260.1	258.7	257.2	256.3	256.4
53.5°	259.1	256.7	255.0	253.6	252.8	252.9
54°	255.5	253.0	251.6	250.2	249.3	249.4
54.5°	252.2	249.7	248.2	246.7	246.0	245.9
55°	248.7	246.3	244.5	243.2	242.5	242.4
55.5°	245.2	242.5	240.9	239.7	238.9	238.8
56°	241.7	238.9	237.5	236.0	235.1	235.2
56.5°	238.1	235.4	233.7	232.3	231.7	231.4
57°	234.5	231.8	230.2	228.6	227.8	227.7
57.5°	230.8	228.1	226.4	224.9	224.1	224.1
58°	227.2	224.4	222.7	221.2	220.5	220.6
58.5°	223.6	220.7	219.0	217.4	216.7	216.7
59°	219.9	217.0	215.1	213.6	212.9	212.9
59.5°	216.0	213.3	211.6	209.7	209.0	209.0
60°	212.3	209.4	207.6	206.0	205.3	205.3
60.5°	208.6	205.6	203.8	202.1	201.5	201.6
61°	204.7	201.8	200.0	198.6	197.7	197.9
61.5°	201.1	198.0	196.2	194.6	193.9	193.9
62°	197.3	194.1	192.4	190.7	190.0	189.9
62.5°	193.4	190.2	188.4	186.7	185.9	185.9
63°	189.6	186.3	184.5	182.9	182.2	182.1
63.5°	185.7	182.3	180.6	179.0	178.2	178.2
64°	181.8	178.5	176.7	175.2	174.4	174.1
64.5°	177.8	174.6	172.7	171.2	170.4	170.4
65°	174.0	170.7	168.7	167.2	166.4	166.4
65.5°	170.1	166.6	164.8	163.2	162.5	162.3
66°	166.0	162.7	160.7	159.0	158.3	158.3
66.5°	161.9	158.6	156.7	155.1	154.3	154.3
67°	158.0	154.7	152.7	151.2	150.2	150.5

TEST NUMBER: P869651  
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	154.3	150.6	148.6	147.2	146.1	146.2
68°	150.2	146.6	144.4	143.0	142.2	142.2
68.5°	146.1	142.5	140.4	138.8	138.0	138.1
69°	142.0	138.4	136.3	134.9	133.8	133.9
69.5°	138.0	134.3	132.3	130.6	129.8	129.9
70°	134.0	130.2	128.3	126.5	125.9	125.7
70.5°	129.9	126.1	124.1	122.6	121.8	121.7
71°	125.8	121.8	120.0	118.3	117.5	117.6
71.5°	121.8	117.8	115.9	114.3	113.2	113.4
72°	117.7	113.8	111.8	110.1	109.4	109.4
72.5°	113.6	109.7	107.8	106.1	105.3	105.4
73°	109.3	105.6	103.5	101.9	101.3	101.2
73.5°	105.4	101.4	99.5	97.9	96.9	97.1
74°	101.4	97.4	95.3	93.7	92.9	92.9
74.5°	97.2	93.3	91.3	89.6	88.7	88.8
75°	93.0	89.1	87.2	85.6	84.9	84.8
75.5°	89.0	85.1	83.2	81.5	80.5	80.8
76°	84.9	80.9	79.0	77.4	76.7	76.7
76.5°	80.9	76.9	74.9	73.4	72.7	72.6
77°	76.9	73.0	71.1	69.5	68.6	68.6
77.5°	72.9	69.1	67.1	65.6	64.8	64.8
78°	68.9	65.0	63.1	61.7	60.9	60.9
78.5°	64.9	61.2	59.4	57.8	57.1	57.0
79°	61.0	57.3	55.5	54.0	53.2	53.2
79.5°	57.1	53.4	51.6	50.1	49.4	49.4
80°	53.4	49.6	47.7	46.3	45.6	45.7
80.5°	49.6	45.9	44.2	42.6	41.9	42.0
81°	45.9	42.2	40.4	39.1	38.5	38.5
81.5°	42.2	38.8	37.1	35.6	34.9	35.0
82°	38.6	35.3	33.6	32.2	31.6	31.6
82.5°	35.2	32.0	30.3	29.0	28.3	28.3
83°	31.8	28.5	27.0	25.8	25.2	25.1
83.5°	28.4	25.4	23.9	22.7	22.1	22.1
84°	25.1	22.4	20.9	19.7	19.2	19.2
84.5°	22.1	19.4	18.1	17.0	16.5	16.5
85°	19.2	16.6	15.5	14.5	14.1	14.0
85.5°	16.3	14.2	13.0	12.0	11.6	11.5
86°	13.9	11.8	10.6	9.7	9.3	9.4
86.5°	11.6	9.5	8.3	7.4	7.1	7.1
87°	9.4	7.2	6.1	5.4	5.0	5.1
87.5°	7.3	5.2	4.5	3.9	3.7	3.7
88°	5.4	3.7	3.1	2.6	2.4	2.3
88.5°	3.7	2.4	2.0	1.7	1.4	1.4
89°	2.4	1.5	1.2	0.9	0.8	0.9
89.5°	1.3	0.9	0.7	0.6	0.7	0.6

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



TEST NUMBER: P869651  
CATALOG NUMBER: SMX14RLSFSD2W-1300LM-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)