

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: P869683

Luminaire Tested: **SMX14SLSFSD2W-1300LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869683  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX14SLSFSD2W-1300LM-3500K  
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

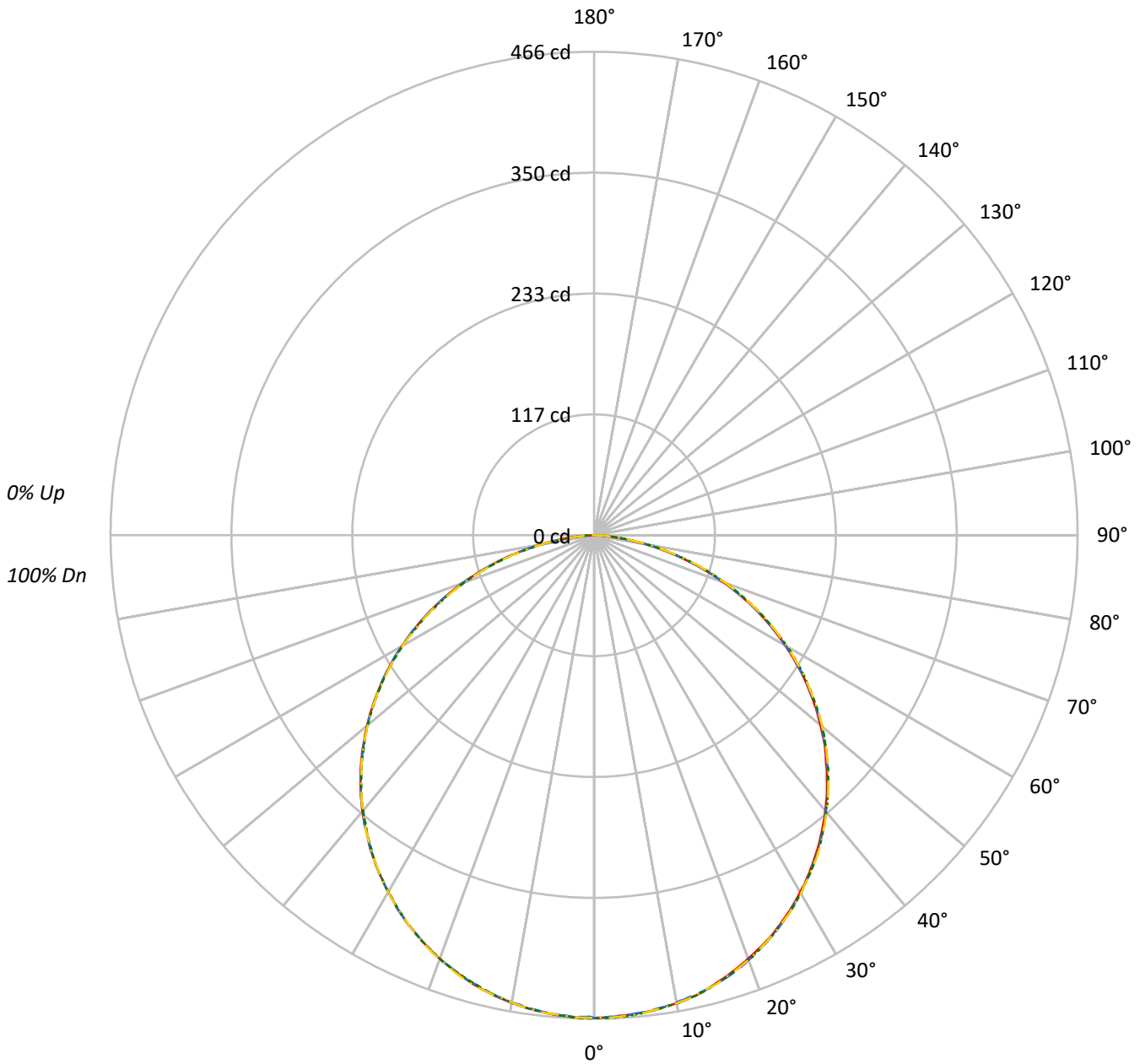
Lumens per Lamp: N/A  
 Luminaire Lumens: 1359.4 lumens  
 Efficiency: N/A  
 Efficacy: 93.1 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
 CIE Type: Direct

Input Watts (W): 14.6  
 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	80	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	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	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°	3678	3678	3678	3678
5°	3673	3679	3677	3676
10°	3677	3677	3674	3673
15°	3667	3671	3668	3661
20°	3652	3661	3655	3654
25°	3643	3649	3639	3640
30°	3626	3637	3623	3619
35°	3603	3617	3606	3598
40°	3576	3592	3582	3573
45°	3541	3566	3557	3541
50°	3507	3530	3512	3501
55°	3446	3474	3460	3448
60°	3369	3402	3384	3367
65°	3254	3291	3278	3247
70°	3067	3122	3115	3069
75°	2785	2852	2852	2788
80°	2335	2426	2417	2335
85°	1596	1687	1678	1596

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.0	3.2
10°-20°	126.5	9.3
20°-30°	192.6	14.2
30°-40°	233.9	17.2
40°-50°	245.1	18.0
50°-60°	224.2	16.5
60°-70°	172.6	12.7
70°-80°	97.6	7.2
80°-90°	22.7	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°	363.2	26.7
0°-40°	597.1	43.9
0°-60°	1066.5	78.5
0°-90°	1359.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	465	465	465	465	465	
5°	463	464	464	463	463	44
15°	448	449	448	447	448	127
25°	418	418	417	417	418	193
35°	373	375	374	373	373	234
45°	317	319	318	317	317	245
55°	250	252	251	250	250	223
65°	174	176	175	174	174	172
75°	91	93	93	91	91	96
85°	18	19	18	18	18	22
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°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
0.5°	465.0	465.8	464.6	465.1	465.6	465.3	465.4	465.3	465.1	465.6	464.1
1°	465.0	466.0	464.9	464.9	465.6	465.2	465.1	465.0	465.2	465.2	464.2
1.5°	464.8	465.5	464.6	464.7	465.5	465.0	465.4	464.7	465.0	465.3	464.3
2°	464.7	465.4	464.4	464.7	465.4	464.8	465.3	464.6	465.1	465.4	464.2
2.5°	464.6	465.3	464.4	464.3	465.4	465.0	465.0	464.6	464.6	465.3	464.1
3°	463.9	465.1	463.9	464.2	465.0	464.7	464.8	464.5	464.4	464.8	464.0
3.5°	463.7	464.7	464.0	464.0	464.8	464.3	464.4	464.3	464.2	464.7	463.8
4°	463.6	464.3	463.5	463.5	464.7	464.2	464.2	464.2	464.0	464.3	463.7
4.5°	463.3	464.1	463.2	463.3	464.1	463.9	463.9	463.7	463.9	464.6	463.1
5°	463.0	463.8	462.6	463.2	463.7	463.6	463.8	463.3	463.5	463.9	462.9
5.5°	462.8	463.3	462.5	462.7	463.3	463.2	463.6	462.6	463.0	463.4	462.6
6°	462.5	462.8	462.1	462.4	462.9	462.5	462.9	462.4	462.5	462.8	462.2
6.5°	462.1	462.7	461.5	461.8	462.5	461.7	462.5	462.0	461.8	462.3	461.5
7°	461.6	462.1	461.1	461.4	461.8	461.5	461.5	461.3	461.6	461.7	460.9
7.5°	461.1	461.4	460.3	460.7	461.3	460.8	461.1	460.7	461.0	461.3	460.4
8°	460.3	460.8	459.8	460.2	460.6	460.2	460.6	460.2	460.4	460.7	459.7
8.5°	459.8	460.3	459.6	459.4	460.0	459.8	460.0	459.2	459.8	459.8	458.9
9°	459.3	459.7	458.8	458.9	459.3	459.0	459.6	458.6	459.1	459.3	458.3
9.5°	458.7	458.9	458.1	458.2	458.7	458.1	458.7	458.0	458.3	458.9	457.8
10°	458.1	457.8	457.3	457.6	458.1	457.8	458.1	457.4	457.8	458.1	457.4
10.5°	457.5	457.3	456.4	456.8	457.8	457.0	457.3	456.6	456.8	457.2	456.4
11°	456.8	456.3	455.9	456.2	456.9	456.3	456.8	455.6	456.0	456.7	455.5
11.5°	456.0	455.6	454.8	455.1	456.0	455.7	456.2	454.8	455.1	455.5	454.7
12°	455.0	455.1	454.0	454.6	455.1	454.7	454.9	453.8	454.4	454.4	453.9
12.5°	454.1	454.3	453.4	453.5	454.4	454.1	453.9	453.0	453.4	453.4	452.8
13°	453.2	453.4	452.5	452.7	453.3	453.0	453.0	452.2	452.3	452.6	451.7
13.5°	452.2	452.6	451.8	451.3	452.4	451.7	451.5	451.0	451.6	451.8	450.8
14°	450.9	451.4	450.7	450.4	451.2	450.8	450.6	449.7	450.6	450.6	449.5
14.5°	449.5	450.2	449.7	449.2	449.9	449.7	449.8	448.7	449.1	449.7	448.2
15°	448.2	449.3	448.9	448.4	448.7	448.9	449.0	447.2	448.3	448.7	447.5
15.5°	446.8	448.1	448.0	446.8	447.6	447.6	447.7	446.1	446.9	447.5	446.2
16°	445.5	446.5	446.7	445.6	446.2	446.2	446.1	445.4	445.5	446.1	445.3
16.5°	444.2	445.0	445.4	444.6	445.2	445.0	444.8	444.2	444.3	444.7	444.2
17°	443.0	443.6	444.3	443.0	443.7	443.6	443.6	443.0	443.0	443.2	442.9
17.5°	441.5	442.2	443.0	441.4	442.3	442.2	442.5	441.6	441.4	442.1	441.6
18°	440.3	440.6	441.8	440.3	441.0	441.0	441.1	440.1	440.0	440.4	440.1
18.5°	438.8	439.3	440.6	439.0	439.8	439.5	439.7	439.1	438.6	439.3	438.6
19°	437.3	437.7	438.9	437.5	438.1	438.3	438.4	437.8	437.3	437.8	437.4
19.5°	435.9	436.1	437.5	435.8	436.7	437.0	436.8	436.1	436.2	436.4	436.2
20°	434.2	434.8	435.7	434.5	435.3	435.5	435.5	434.8	434.6	434.9	434.6
20.5°	432.9	433.6	434.4	432.8	434.1	434.2	434.0	433.2	433.2	433.2	433.2
21°	431.3	431.7	432.9	431.6	432.5	432.4	432.4	431.9	431.6	431.7	431.5
21.5°	429.7	430.2	431.2	429.7	430.8	430.5	430.5	430.2	429.8	430.1	429.7
22°	428.2	428.6	428.8	428.3	429.1	428.7	429.0	429.0	428.3	428.3	428.0

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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°	426.6	427.1	427.7	426.7	427.5	426.9	427.4	427.0	426.5	426.5	426.2
23°	425.0	425.4	425.9	424.8	425.9	425.3	425.7	425.1	425.0	424.7	424.2
23.5°	423.5	423.8	424.2	423.2	424.1	423.7	424.0	423.3	422.9	422.9	422.9
24°	421.9	422.0	422.2	421.5	422.3	422.2	422.3	421.7	421.2	421.5	421.0
24.5°	419.9	420.1	420.6	419.7	420.6	420.5	420.8	420.0	419.3	420.0	419.4
25°	417.7	418.5	418.8	417.7	418.4	418.6	418.8	418.2	417.3	417.8	417.4
25.5°	415.9	416.7	416.8	415.9	416.8	416.7	416.7	416.0	415.9	415.9	415.8
26°	413.7	414.6	414.7	413.7	414.9	414.9	415.0	414.2	413.9	414.3	413.9
26.5°	412.0	412.7	413.0	411.9	413.2	412.8	413.0	411.9	411.7	412.1	411.7
27°	410.1	410.9	410.6	410.2	411.3	410.8	411.3	410.3	409.7	410.1	410.0
27.5°	408.1	408.7	408.7	408.2	409.1	408.7	409.4	408.3	408.0	408.2	407.7
28°	405.9	406.5	406.6	406.1	407.2	406.9	407.0	406.2	405.7	406.3	405.9
28.5°	403.8	404.4	404.4	404.5	405.1	404.7	404.9	404.4	403.4	404.4	403.8
29°	401.6	402.3	402.5	402.2	402.7	402.5	402.7	402.2	401.1	402.2	401.3
29.5°	399.5	400.1	400.3	400.2	400.5	400.4	400.8	399.9	399.2	400.3	399.0
30°	397.3	397.8	398.1	397.9	398.5	398.4	398.6	397.8	397.0	397.7	396.8
30.5°	395.1	395.7	396.0	396.0	396.2	396.3	396.3	395.7	394.7	395.4	394.7
31°	393.1	393.3	393.4	393.9	393.8	394.1	393.8	393.4	392.4	393.3	392.6
31.5°	390.7	391.2	391.3	391.6	391.4	391.7	391.6	391.0	390.1	390.8	390.3
32°	388.1	389.0	389.1	389.1	389.0	389.4	389.4	388.6	387.7	388.5	388.0
32.5°	385.9	386.7	386.9	387.1	387.1	387.2	387.3	386.6	385.8	386.5	385.6
33°	383.2	384.3	384.3	384.7	384.8	384.7	384.8	384.1	383.4	384.2	383.4
33.5°	380.9	381.9	382.2	382.3	382.3	382.0	382.6	381.7	381.0	381.9	380.9
34°	378.6	379.7	379.6	379.9	379.9	379.7	380.3	379.0	378.5	379.1	378.5
34.5°	376.1	376.8	377.1	377.4	377.5	377.4	378.0	376.4	376.1	376.6	376.3
35°	373.4	373.8	374.5	374.8	374.9	375.0	375.7	374.3	373.7	374.0	373.6
35.5°	371.1	371.4	371.9	372.0	372.6	372.7	373.1	371.7	371.3	371.4	371.1
36°	368.5	368.9	369.1	369.6	369.9	369.8	370.5	369.0	368.6	368.8	368.5
36.5°	365.8	366.7	366.6	367.0	367.4	367.0	367.9	366.4	365.9	366.1	365.6
37°	362.9	363.8	364.1	364.4	364.7	364.7	365.3	363.4	363.0	363.6	363.2
37.5°	360.3	361.4	361.7	361.8	361.9	361.9	362.4	361.1	360.4	360.9	360.7
38°	357.6	358.9	358.9	359.0	359.3	359.0	359.5	358.5	358.1	358.5	358.1
38.5°	354.9	355.9	356.1	356.1	356.5	356.2	356.9	355.8	355.4	355.6	355.6
39°	352.2	353.3	353.2	353.4	353.8	353.5	354.2	352.9	352.8	352.8	352.5
39.5°	349.4	350.4	350.4	350.3	351.0	351.3	351.1	350.3	350.2	350.0	349.8
40°	346.6	347.3	347.6	347.6	348.1	348.6	348.4	347.8	347.2	347.3	347.1
40.5°	343.9	344.8	344.9	344.6	345.2	345.8	345.9	345.1	344.4	344.5	344.2
41°	340.9	341.9	342.0	341.9	342.7	342.9	342.9	342.2	341.3	341.7	341.4
41.5°	338.3	339.0	339.3	338.8	339.8	340.3	340.2	339.3	338.8	338.9	338.7
42°	335.3	336.0	336.3	336.0	336.6	337.2	337.1	336.5	336.2	335.8	335.8
42.5°	332.1	333.0	333.5	332.9	333.8	334.3	334.0	333.6	333.1	332.7	332.8
43°	329.2	330.0	330.6	330.0	331.0	331.2	331.1	330.5	330.0	329.7	329.9
43.5°	326.1	327.1	327.4	327.0	328.0	328.0	328.2	327.5	327.1	326.7	326.8
44°	323.0	324.1	324.4	324.1	324.9	325.1	325.2	324.6	324.0	323.7	323.8
44.5°	320.1	320.9	321.3	320.9	322.0	322.2	322.2	321.6	321.1	320.7	320.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	316.8	317.9	318.4	317.9	319.0	319.2	318.9	318.5	318.2	317.8	317.5
45.5°	313.5	314.7	315.4	314.8	316.1	316.1	315.7	315.5	315.0	314.7	314.3
46°	310.6	311.9	312.1	311.9	312.8	312.8	312.8	312.3	311.7	311.4	311.3
46.5°	307.8	308.7	308.9	308.8	309.6	309.7	309.8	309.0	308.5	308.6	308.1
47°	304.7	305.5	305.6	305.6	306.4	306.5	306.6	305.7	305.5	305.2	304.9
47.5°	301.7	302.5	302.3	302.2	303.2	303.5	303.3	302.6	302.3	302.0	301.5
48°	298.3	299.1	299.0	299.1	300.0	300.4	300.1	299.5	298.8	298.9	298.3
48.5°	294.9	295.8	295.8	295.7	296.9	296.9	296.9	296.3	295.5	295.6	295.2
49°	291.6	292.6	292.5	292.5	293.7	293.6	293.5	292.9	292.5	292.4	291.9
49.5°	288.3	289.3	289.2	289.0	290.4	290.1	290.3	289.9	289.0	289.3	288.6
50°	285.2	285.9	285.9	285.7	287.1	287.1	287.0	286.3	285.6	285.9	285.5
50.5°	281.4	282.6	282.6	282.4	283.7	283.7	283.6	283.1	282.3	282.4	282.1
51°	278.1	279.1	279.0	278.9	280.2	280.2	280.3	279.5	279.0	279.1	279.0
51.5°	274.7	275.7	275.8	275.6	276.8	276.7	276.9	276.1	275.5	275.7	275.2
52°	271.4	272.4	272.2	272.2	273.3	273.4	273.5	272.6	271.8	272.2	271.8
52.5°	267.8	268.8	268.8	268.8	270.0	270.1	270.0	269.2	268.5	269.0	268.3
53°	264.3	265.3	265.2	265.0	266.3	266.5	266.3	265.7	265.3	265.5	265.0
53.5°	260.8	261.7	261.6	261.4	262.7	262.8	262.7	262.4	261.7	262.3	261.4
54°	257.2	257.9	258.0	257.9	259.2	259.3	259.2	258.9	258.1	258.5	258.1
54.5°	253.4	254.3	254.5	254.4	255.7	255.7	255.6	255.1	254.5	254.8	254.7
55°	250.1	250.9	250.6	251.0	252.1	252.2	252.2	251.6	251.1	251.3	251.2
55.5°	246.7	247.2	247.2	247.2	248.4	248.7	248.3	247.8	247.5	248.0	247.5
56°	242.9	243.7	243.5	243.8	244.8	245.2	245.2	244.5	244.0	244.3	243.9
56.5°	239.4	240.0	239.9	240.1	241.2	241.6	241.5	240.7	240.2	240.6	240.2
57°	235.5	236.1	236.2	236.5	237.6	238.0	237.7	237.2	236.4	236.9	236.6
57.5°	231.6	232.3	232.5	232.7	233.9	234.0	234.1	233.4	232.9	233.2	233.0
58°	228.1	228.6	228.7	228.8	230.0	230.4	230.0	229.8	229.1	229.3	229.5
58.5°	224.3	225.0	225.1	225.1	226.4	226.8	226.0	226.0	225.4	225.6	225.7
59°	220.4	221.4	221.0	221.1	222.8	222.8	222.5	222.2	221.8	222.1	221.9
59.5°	216.6	217.3	217.1	217.3	219.1	218.9	218.7	218.4	217.8	218.3	218.1
60°	213.1	213.5	213.3	213.4	215.2	215.1	214.9	214.9	214.1	214.4	214.2
60.5°	209.5	209.6	209.6	209.4	211.3	211.3	210.8	210.8	210.0	210.5	210.4
61°	205.3	205.6	205.7	205.5	207.3	207.7	207.1	207.3	206.4	206.7	206.5
61.5°	201.5	201.8	202.0	201.5	203.4	203.8	203.2	203.3	202.7	203.0	202.6
62°	197.6	198.0	198.2	198.0	199.6	199.9	199.7	199.5	198.9	199.1	199.1
62.5°	193.7	193.8	194.2	193.8	195.5	195.9	195.6	195.6	194.9	195.2	195.0
63°	189.7	189.8	190.3	190.1	191.6	192.2	191.8	191.7	191.0	191.2	190.9
63.5°	185.8	186.1	186.3	186.1	187.7	188.2	187.9	187.9	187.2	187.3	187.2
64°	181.7	182.1	182.3	182.2	183.9	184.2	183.9	183.7	183.3	183.4	183.1
64.5°	178.0	178.4	178.5	178.1	179.9	180.0	179.8	179.6	179.3	179.3	179.2
65°	174.0	174.4	174.3	174.2	176.0	176.3	176.0	175.7	175.3	175.5	175.3
65.5°	169.9	170.2	170.2	169.9	172.2	172.0	171.8	171.6	171.2	171.6	171.5
66°	165.9	166.1	166.1	165.8	168.0	167.9	167.5	167.5	167.1	167.6	167.4
66.5°	161.7	162.1	161.8	161.8	163.9	163.8	163.6	163.4	163.2	163.6	163.2
67°	157.4	157.8	157.8	157.8	159.7	159.9	159.6	159.5	159.2	159.4	159.3



TEST NUMBER: P869683  
 CATALOG NUMBER: SMX14SLSFSD2W-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	153.5	153.8	153.8	153.7	155.6	155.8	155.5	155.3	155.2	155.4	155.2
68°	149.3	149.7	149.6	149.7	151.6	151.9	151.5	151.3	151.4	151.3	151.0
68.5°	145.2	145.5	145.5	145.5	147.6	147.8	147.4	147.2	147.4	147.3	146.9
69°	141.2	141.5	141.4	141.2	143.6	143.7	143.3	143.1	143.1	143.0	142.6
69.5°	136.8	137.2	137.3	137.1	139.3	139.5	139.2	138.9	138.9	138.9	138.6
70°	132.7	133.1	133.0	132.9	135.1	135.3	134.9	134.6	134.8	134.9	134.4
70.5°	128.5	129.0	128.6	128.8	131.0	131.3	130.8	130.7	130.8	130.6	130.4
71°	124.4	124.7	124.5	124.5	126.9	127.1	126.5	126.6	126.5	126.5	126.3
71.5°	120.4	120.6	120.4	120.3	122.6	122.8	122.5	122.3	122.5	122.2	122.1
72°	116.3	116.4	116.2	116.1	118.4	118.6	118.3	118.3	118.4	118.1	117.9
72.5°	111.9	112.4	112.2	111.8	114.3	114.5	114.3	114.1	114.2	114.0	113.8
73°	107.8	108.1	108.0	107.8	110.2	110.3	110.1	110.0	110.0	109.9	109.6
73.5°	103.7	104.0	103.7	103.7	106.1	106.3	106.2	106.0	105.9	105.8	105.7
74°	99.5	99.7	99.7	99.6	101.9	102.2	102.2	101.8	101.8	101.6	101.5
74.5°	95.4	95.8	95.4	95.5	97.8	98.0	97.7	97.6	97.6	97.6	97.4
75°	91.2	91.5	91.4	91.2	93.4	93.7	93.6	93.5	93.4	93.4	93.4
75.5°	87.1	87.2	87.1	87.0	89.2	89.6	89.4	89.4	89.3	89.3	89.2
76°	83.0	83.1	83.0	83.1	85.1	85.5	85.1	85.2	85.2	85.1	85.1
76.5°	78.9	79.0	79.1	78.9	81.1	81.2	81.1	81.2	81.1	81.1	81.1
77°	74.8	74.9	74.7	74.8	76.9	77.3	77.1	77.0	76.9	77.1	77.1
77.5°	70.7	71.0	70.9	70.9	72.8	73.1	72.9	73.0	72.9	73.1	73.1
78°	66.7	67.0	66.7	66.9	68.9	69.1	68.9	68.8	68.7	69.0	68.9
78.5°	62.9	63.0	62.8	62.9	65.1	65.1	65.1	64.8	64.7	64.9	65.0
79°	58.9	59.0	58.9	59.1	61.2	61.3	61.1	61.1	60.8	61.1	61.0
79.5°	55.0	55.2	55.1	55.2	57.3	57.3	57.1	57.1	56.9	57.2	57.2
80°	51.3	51.3	51.3	51.2	53.3	53.4	53.1	53.1	53.1	53.3	53.3
80.5°	47.4	47.5	47.4	47.3	49.4	49.7	49.5	49.4	49.3	49.5	49.6
81°	43.8	43.8	43.7	43.4	45.6	45.9	45.7	45.6	45.6	45.8	45.9
81.5°	40.1	40.2	40.1	39.9	41.9	42.1	41.9	41.9	41.9	42.1	42.2
82°	36.6	36.6	36.6	36.3	38.3	38.4	38.3	38.2	38.2	38.4	38.6
82.5°	33.2	33.2	33.1	32.9	34.9	35.0	34.9	34.8	34.7	35.0	35.2
83°	29.7	29.8	29.6	29.3	31.4	31.5	31.5	31.3	31.3	31.5	31.8
83.5°	26.4	26.5	26.3	26.2	27.9	28.1	27.9	27.9	27.9	28.1	28.4
84°	23.3	23.4	23.3	23.0	24.7	24.8	24.8	24.6	24.6	24.8	25.0
84.5°	20.4	20.4	20.4	20.1	21.6	21.9	21.6	21.6	21.5	21.7	21.9
85°	17.6	17.5	17.5	17.2	18.6	18.7	18.7	18.6	18.5	18.7	18.8
85.5°	15.0	15.0	15.0	14.7	15.8	15.8	15.8	15.8	15.7	15.8	16.1
86°	12.5	12.5	12.4	12.2	13.5	13.5	13.5	13.4	13.4	13.6	13.7
86.5°	10.1	10.1	10.1	9.9	11.2	11.2	11.2	11.1	11.1	11.3	11.4
87°	7.8	7.8	7.9	7.7	8.9	9.0	9.0	8.9	8.9	9.0	9.1
87.5°	5.7	5.7	5.7	5.5	6.8	6.8	6.8	6.8	6.7	6.9	7.0
88°	4.0	4.1	4.0	3.9	5.0	5.0	5.0	4.9	4.9	5.0	5.2
88.5°	2.7	2.7	2.7	2.6	3.4	3.5	3.4	3.3	3.2	3.4	3.5
89°	1.6	1.7	1.7	1.6	2.0	2.1	2.0	2.0	1.9	2.0	2.1
89.5°	0.9	0.9	0.9	0.9	1.0	1.0	1.0	0.9	0.8	0.9	1.0

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



TEST NUMBER: P869683  
CATALOG NUMBER: SMX14SLSFSD2W-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: P869683  
 CATALOG NUMBER: SMX14SLSFSD2W-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	465.3	465.3	465.3	465.3	465.3	465.3
0.5°	464.9	465.9	465.5	465.3	465.1	465.0
1°	464.7	465.7	465.9	465.0	464.9	465.0
1.5°	464.9	465.9	465.5	465.3	464.6	464.8
2°	464.6	465.4	465.2	465.0	464.7	464.7
2.5°	464.7	465.2	464.9	464.6	464.9	464.6
3°	464.4	464.6	464.5	464.5	464.7	463.9
3.5°	464.0	464.2	464.5	464.0	464.6	463.7
4°	463.9	464.0	464.4	463.6	464.0	463.6
4.5°	463.5	463.6	463.8	463.4	463.8	463.3
5°	462.8	463.3	463.2	463.2	463.2	463.0
5.5°	462.3	462.9	462.9	463.3	462.8	462.8
6°	461.6	462.4	462.1	462.6	462.4	462.5
6.5°	461.4	461.7	461.7	462.3	461.7	462.1
7°	460.8	461.3	461.1	461.5	461.1	461.6
7.5°	460.8	460.9	460.7	460.8	460.9	461.1
8°	459.9	460.5	459.8	460.3	460.1	460.3
8.5°	459.2	459.9	459.5	459.7	459.2	459.8
9°	458.4	459.0	458.9	458.9	458.7	459.3
9.5°	457.5	458.5	458.0	458.2	458.0	458.7
10°	457.1	457.7	457.1	457.4	457.5	458.1
10.5°	456.2	456.8	456.5	456.7	457.0	457.5
11°	455.3	455.6	455.9	455.7	456.0	456.8
11.5°	454.5	454.6	455.3	454.5	455.3	456.0
12°	453.5	453.9	454.4	453.8	454.5	455.0
12.5°	452.7	453.0	453.4	453.4	454.1	454.1
13°	452.0	452.0	452.5	452.3	453.0	453.2
13.5°	450.9	450.9	451.2	451.5	451.9	452.2
14°	449.9	449.5	449.9	450.9	450.9	450.9
14.5°	448.6	448.4	448.6	449.6	449.5	449.5
15°	447.6	447.4	447.3	448.7	448.2	448.2
15.5°	446.4	446.2	446.2	447.7	447.0	446.8
16°	445.3	445.1	444.8	446.7	445.4	445.5
16.5°	444.0	443.8	443.8	445.4	444.3	444.2
17°	442.6	442.5	442.5	443.9	442.9	443.0
17.5°	441.3	441.4	441.0	442.5	441.4	441.5
18°	440.0	440.0	439.9	441.2	440.2	440.3
18.5°	438.7	438.8	438.5	439.5	438.5	438.8
19°	437.4	437.4	437.2	438.1	436.9	437.3
19.5°	435.7	435.9	436.0	436.5	435.5	435.9
20°	434.4	434.4	434.9	434.9	434.2	434.2
20.5°	432.7	432.8	433.4	433.4	432.9	432.9
21°	431.2	431.1	431.8	432.0	431.4	431.3
21.5°	429.5	429.5	430.5	430.3	430.1	429.7
22°	428.1	428.1	429.1	428.6	428.4	428.2

TEST NUMBER: P869683  
 CATALOG NUMBER: SMX14SLSFSD2W-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	426.1	426.2	427.2	426.8	426.7	426.6
23°	424.6	424.6	425.2	424.9	425.0	425.0
23.5°	423.1	422.8	423.9	423.3	423.3	423.5
24°	421.3	421.0	422.2	421.2	421.2	421.9
24.5°	419.4	419.2	419.8	419.7	419.4	419.9
25°	417.4	417.4	418.0	417.5	417.4	417.7
25.5°	415.5	415.5	416.0	415.7	415.5	415.9
26°	413.3	413.6	413.8	413.5	413.5	413.7
26.5°	411.4	411.4	411.9	411.4	411.4	412.0
27°	409.5	409.5	410.0	409.5	409.5	410.1
27.5°	407.8	407.4	408.1	407.4	407.4	408.1
28°	405.6	405.2	406.1	405.4	405.2	405.9
28.5°	403.6	403.0	404.0	403.6	403.4	403.8
29°	401.4	401.0	402.0	401.3	401.1	401.6
29.5°	399.1	398.6	400.0	399.2	399.0	399.5
30°	396.9	396.5	397.8	397.0	396.5	397.3
30.5°	394.6	394.6	395.5	394.4	394.3	395.1
31°	392.2	392.2	392.8	392.3	392.1	393.1
31.5°	390.0	389.9	390.3	390.1	389.8	390.7
32°	387.8	387.8	387.8	387.7	387.3	388.1
32.5°	385.6	385.3	385.7	385.7	385.2	385.9
33°	383.3	383.3	383.2	383.2	382.7	383.2
33.5°	380.9	380.8	381.1	380.7	380.5	380.9
34°	378.3	378.2	378.3	378.5	377.8	378.6
34.5°	376.0	375.6	375.9	376.1	375.4	376.1
35°	373.7	372.9	373.2	373.6	373.0	373.4
35.5°	371.1	370.2	370.6	371.1	370.5	371.1
36°	368.4	367.8	368.1	368.4	367.8	368.5
36.5°	365.9	365.2	365.4	365.6	365.5	365.8
37°	363.2	362.7	362.8	363.0	362.9	362.9
37.5°	360.7	359.8	360.1	360.5	360.2	360.3
38°	358.1	356.9	357.4	357.8	357.8	357.6
38.5°	355.6	354.2	354.9	354.7	354.9	354.9
39°	352.8	351.7	352.2	352.1	352.1	352.2
39.5°	350.0	348.9	349.5	349.3	349.3	349.4
40°	347.1	346.3	346.7	346.6	346.4	346.6
40.5°	344.1	343.6	343.8	343.7	343.8	343.9
41°	341.3	341.2	341.1	341.1	340.9	340.9
41.5°	338.4	338.1	338.3	338.3	338.5	338.3
42°	335.5	335.1	335.3	335.4	335.8	335.3
42.5°	332.6	332.0	332.5	332.4	332.3	332.1
43°	329.6	329.1	329.3	329.4	329.2	329.2
43.5°	326.9	326.0	326.6	326.3	326.2	326.1
44°	323.8	322.8	323.7	323.1	323.1	323.0
44.5°	320.9	320.0	320.4	320.1	320.5	320.1

TEST NUMBER: P869683  
 CATALOG NUMBER: SMX14SLSFSD2W-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	317.7	316.8	317.3	317.1	317.2	316.8
45.5°	314.8	313.7	314.2	314.0	313.7	313.5
46°	311.5	310.6	311.0	311.0	310.6	310.6
46.5°	308.3	307.3	308.1	307.7	307.4	307.8
47°	305.1	303.9	305.1	304.6	304.4	304.7
47.5°	301.9	300.7	301.9	301.3	301.5	301.7
48°	298.6	297.6	298.5	298.0	298.4	298.3
48.5°	295.6	294.5	295.2	294.8	295.1	294.9
49°	292.0	291.2	291.9	291.4	291.3	291.6
49.5°	288.8	288.0	288.6	288.1	287.9	288.3
50°	285.6	284.7	285.2	284.8	285.0	285.2
50.5°	282.3	281.3	281.8	281.4	281.4	281.4
51°	279.1	277.9	278.4	278.1	277.9	278.1
51.5°	275.5	274.3	274.8	274.7	274.3	274.7
52°	272.2	271.0	271.5	271.2	270.8	271.4
52.5°	268.5	267.3	268.1	268.0	267.5	267.8
53°	265.2	264.1	264.3	264.4	264.1	264.3
53.5°	261.8	260.6	261.0	260.9	260.5	260.8
54°	258.3	257.0	257.1	257.2	257.2	257.2
54.5°	254.7	253.5	253.8	253.3	253.3	253.4
55°	251.1	250.2	250.2	249.7	249.8	250.1
55.5°	247.6	246.6	246.7	246.1	246.3	246.7
56°	244.3	242.9	243.1	242.4	242.7	242.9
56.5°	240.5	239.2	239.4	238.9	239.2	239.4
57°	236.8	235.4	235.7	235.2	235.4	235.5
57.5°	233.1	231.8	232.0	231.6	231.6	231.6
58°	229.5	228.0	228.1	228.3	227.8	228.1
58.5°	225.7	224.3	224.3	224.5	224.4	224.3
59°	222.0	220.5	220.5	220.7	220.7	220.4
59.5°	218.0	216.7	216.6	216.7	216.9	216.6
60°	214.1	213.0	212.9	212.9	212.9	213.1
60.5°	210.5	209.2	209.1	209.0	208.9	209.5
61°	206.8	205.3	205.4	205.0	205.0	205.3
61.5°	202.9	201.3	201.7	201.0	201.4	201.5
62°	199.0	197.7	197.8	197.1	197.3	197.6
62.5°	195.1	193.7	193.8	193.4	193.3	193.7
63°	191.2	189.6	189.8	189.6	189.3	189.7
63.5°	187.1	185.7	186.0	185.4	185.3	185.8
64°	183.5	181.6	181.9	181.5	181.4	181.7
64.5°	179.2	177.7	178.0	177.7	177.5	178.0
65°	175.5	173.6	173.9	173.6	173.5	174.0
65.5°	171.3	169.7	169.8	169.5	169.6	169.9
66°	167.2	165.5	165.5	165.6	165.6	165.9
66.5°	163.1	161.4	161.5	161.5	161.8	161.7
67°	159.3	157.2	157.5	157.3	157.9	157.4

TEST NUMBER: P869683  
 CATALOG NUMBER: SMX14SLSFSD2W-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	155.1	153.2	153.8	153.3	153.8	153.5
68°	151.0	149.1	149.5	149.1	149.2	149.3
68.5°	146.9	145.4	145.4	145.1	145.2	145.2
69°	142.8	141.2	141.4	141.2	141.2	141.2
69.5°	138.6	137.0	137.3	137.0	137.1	136.8
70°	134.5	132.8	133.0	132.8	132.9	132.7
70.5°	130.7	128.7	128.9	128.8	128.9	128.5
71°	126.6	124.3	124.5	124.6	124.6	124.4
71.5°	122.3	120.3	120.5	120.3	120.3	120.4
72°	118.2	116.2	116.2	116.1	116.0	116.3
72.5°	114.1	112.1	112.1	112.1	111.7	111.9
73°	110.1	107.9	108.3	108.0	107.7	107.8
73.5°	106.0	103.7	104.1	103.8	103.7	103.7
74°	102.0	99.6	99.8	99.4	99.5	99.5
74.5°	97.8	95.5	95.7	95.4	95.2	95.4
75°	93.6	91.3	91.4	91.2	91.0	91.2
75.5°	89.4	87.3	87.3	87.0	86.9	87.1
76°	85.4	83.1	83.1	82.9	82.9	83.0
76.5°	81.4	78.9	79.0	78.9	78.8	78.9
77°	77.2	74.9	74.9	74.7	74.7	74.8
77.5°	73.1	71.1	70.9	70.8	70.9	70.7
78°	69.1	67.0	66.7	66.8	66.8	66.7
78.5°	65.1	63.1	62.9	62.9	62.9	62.9
79°	61.2	59.3	58.9	59.0	59.2	58.9
79.5°	57.3	55.2	55.2	55.1	55.3	55.0
80°	53.4	51.3	51.3	51.2	51.4	51.3
80.5°	49.7	47.6	47.6	47.6	47.5	47.4
81°	45.9	43.8	43.9	43.9	43.8	43.8
81.5°	42.2	40.2	40.4	40.4	40.1	40.1
82°	38.6	36.7	36.8	36.8	36.5	36.6
82.5°	35.2	33.2	33.4	33.2	33.1	33.2
83°	31.8	29.9	30.0	29.9	29.6	29.7
83.5°	28.4	26.7	26.7	26.6	26.3	26.4
84°	25.0	23.5	23.5	23.5	23.3	23.3
84.5°	21.9	20.5	20.5	20.5	20.4	20.4
85°	19.0	17.6	17.7	17.6	17.6	17.6
85.5°	16.1	15.1	15.1	15.1	15.1	15.0
86°	13.8	12.5	12.6	12.6	12.5	12.5
86.5°	11.4	10.1	10.3	10.2	10.1	10.1
87°	9.2	7.9	8.1	8.0	7.9	7.8
87.5°	7.1	5.7	5.9	5.9	5.8	5.7
88°	5.2	4.1	4.2	4.1	4.1	4.0
88.5°	3.5	2.7	2.8	2.8	2.8	2.7
89°	2.2	1.6	1.7	1.7	1.7	1.6
89.5°	1.1	0.9	0.9	0.9	0.9	0.9

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869683  
CATALOG NUMBER: SMX14SLSFSD2W-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)