

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: P869668

Luminaire Tested: **SMX14SLSFS010-1300LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869668  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX14SLSFS010-1300LM-3500K  
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

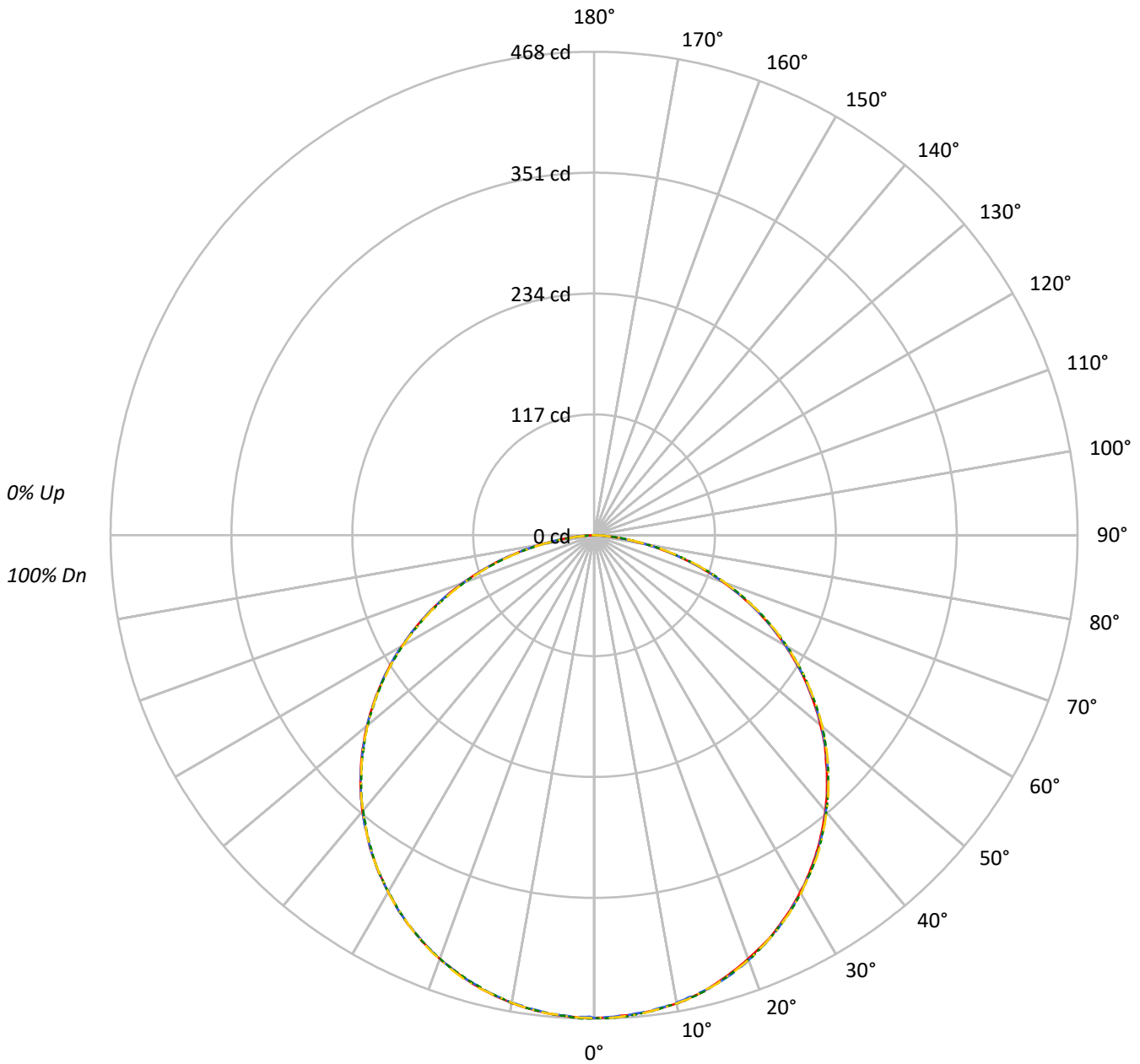
Lumens per Lamp: N/A  
 Luminaire Lumens: 1365.3 lumens  
 Efficiency: N/A  
 Efficacy: 94.8 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
 CIE Type: Direct

Input Watts (W): 14.4  
 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	52	52	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	25	25	25	24

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

	0°	90°	180°	270°
0°	3693	3693	3693	3693
5°	3689	3695	3693	3692
10°	3693	3693	3690	3689
15°	3684	3688	3685	3677
20°	3668	3677	3671	3669
25°	3658	3664	3655	3656
30°	3641	3653	3639	3635
35°	3618	3634	3621	3613
40°	3592	3608	3598	3588
45°	3557	3581	3571	3557
50°	3522	3546	3528	3515
55°	3461	3489	3475	3463
60°	3383	3416	3399	3383
65°	3269	3305	3293	3262
70°	3078	3136	3127	3083
75°	2797	2864	2864	2800
80°	2344	2435	2426	2344
85°	1596	1696	1687	1605

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.2	3.2
10°-20°	127.1	9.3
20°-30°	193.5	14.2
30°-40°	235.0	17.2
40°-50°	246.2	18.0
50°-60°	225.1	16.5
60°-70°	173.4	12.7
70°-80°	98.1	7.2
80°-90°	22.8	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>364.8</b>	<b>26.7</b>
<b>0°-40°</b>	<b>599.8</b>	<b>43.9</b>
<b>0°-60°</b>	<b>1071.1</b>	<b>78.5</b>
<b>0°-90°</b>	<b>1365.3</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>1365.3</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	467	467	467	467	467	
5°	465	466	466	465	465	44
15°	450	451	450	449	450	127
25°	420	420	419	419	420	193
35°	375	377	375	374	375	235
45°	318	320	320	318	318	246
55°	251	253	252	251	251	224
65°	175	177	176	174	175	172
75°	92	94	94	92	92	97
85°	18	19	19	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°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
0.5°	467.1	467.9	466.6	467.2	467.6	467.3	467.4	467.3	467.1	467.6	466.1
1°	467.1	468.0	466.9	466.9	467.6	467.2	467.2	467.1	467.2	467.2	466.2
1.5°	466.8	467.5	466.6	466.7	467.6	467.1	467.5	466.8	467.0	467.3	466.3
2°	466.8	467.4	466.5	466.8	467.4	466.8	467.3	466.6	467.1	467.4	466.2
2.5°	466.6	467.3	466.4	466.4	467.5	467.0	467.1	466.6	466.6	467.3	466.1
3°	465.9	467.2	465.9	466.2	467.0	466.7	466.8	466.5	466.5	466.8	466.0
3.5°	465.7	466.7	466.0	466.0	466.8	466.3	466.5	466.3	466.2	466.8	465.8
4°	465.7	466.3	465.5	465.5	466.8	466.2	466.2	466.2	466.0	466.4	465.7
4.5°	465.4	466.1	465.2	465.3	466.1	465.9	465.9	465.7	465.9	466.6	465.1
5°	465.0	465.8	464.6	465.2	465.7	465.6	465.8	465.3	465.5	465.9	465.0
5.5°	464.8	465.3	464.5	464.7	465.3	465.2	465.6	464.7	465.0	465.4	464.6
6°	464.5	464.8	464.1	464.4	465.0	464.5	465.0	464.4	464.5	464.8	464.2
6.5°	464.1	464.7	463.5	463.9	464.5	463.7	464.5	464.0	463.9	464.3	463.5
7°	463.6	464.1	463.1	463.4	463.9	463.5	463.6	463.3	463.6	463.7	462.9
7.5°	463.1	463.4	462.3	462.7	463.3	462.9	463.1	462.7	463.0	463.3	462.4
8°	462.3	462.8	461.8	462.2	462.6	462.2	462.6	462.2	462.5	462.7	461.7
8.5°	461.8	462.3	461.6	461.4	462.0	461.8	462.0	461.2	461.8	461.8	460.9
9°	461.3	461.8	460.8	460.9	461.3	461.0	461.6	460.6	461.1	461.3	460.3
9.5°	460.7	460.9	460.1	460.2	460.7	460.1	460.7	460.0	460.3	460.9	459.8
10°	460.1	459.8	459.3	459.6	460.1	459.8	460.1	459.4	459.8	460.1	459.4
10.5°	459.5	459.3	458.4	458.8	459.8	459.0	459.3	458.6	458.8	459.2	458.4
11°	458.8	458.3	457.9	458.1	458.9	458.3	458.8	457.6	458.0	458.7	457.4
11.5°	458.0	457.6	456.7	457.1	458.0	457.7	458.2	456.8	457.0	457.4	456.7
12°	457.0	457.0	456.0	456.6	457.1	456.7	456.9	455.8	456.3	456.3	455.9
12.5°	456.0	456.3	455.4	455.5	456.4	456.1	455.9	454.9	455.4	455.4	454.8
13°	455.2	455.4	454.5	454.7	455.2	455.0	455.0	454.1	454.3	454.5	453.7
13.5°	454.1	454.5	453.8	453.3	454.4	453.7	453.5	453.0	453.5	453.8	452.8
14°	452.9	453.4	452.7	452.3	453.2	452.8	452.6	451.7	452.6	452.6	451.5
14.5°	451.5	452.1	451.7	451.2	451.9	451.7	451.8	450.6	451.1	451.7	450.2
15°	450.2	451.2	450.9	450.3	450.7	450.9	450.9	449.1	450.3	450.6	449.4
15.5°	448.8	450.1	449.9	448.8	449.6	449.6	449.6	448.1	448.8	449.5	448.2
16°	447.5	448.4	448.7	447.5	448.1	448.1	448.1	447.3	447.5	448.0	447.2
16.5°	446.1	446.9	447.4	446.5	447.1	446.9	446.7	446.1	446.3	446.7	446.1
17°	444.9	445.6	446.3	445.0	445.7	445.5	445.6	445.0	445.0	445.2	444.9
17.5°	443.5	444.1	445.0	443.4	444.2	444.1	444.4	443.5	443.4	444.0	443.5
18°	442.2	442.5	443.7	442.2	442.9	442.9	443.1	442.1	441.9	442.4	442.0
18.5°	440.7	441.2	442.5	441.0	441.7	441.4	441.6	441.0	440.5	441.2	440.6
19°	439.2	439.6	440.8	439.5	440.0	440.2	440.3	439.7	439.2	439.7	439.3
19.5°	437.8	438.1	439.4	437.7	438.6	438.9	438.8	438.1	438.1	438.3	438.1
20°	436.1	436.7	437.6	436.4	437.2	437.4	437.4	436.7	436.5	436.8	436.5
20.5°	434.8	435.5	436.3	434.7	436.0	436.1	435.9	435.1	435.1	435.1	435.1
21°	433.2	433.6	434.8	433.5	434.4	434.3	434.3	433.8	433.5	433.6	433.3
21.5°	431.5	432.1	433.0	431.6	432.6	432.4	432.3	432.1	431.6	432.0	431.6
22°	430.1	430.4	430.7	430.1	431.0	430.5	430.8	430.8	430.2	430.2	429.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	428.5	429.0	429.6	428.6	429.4	428.8	429.3	428.9	428.4	428.4	428.0
23°	426.9	427.3	427.7	426.7	427.7	427.2	427.6	427.0	426.9	426.6	426.1
23.5°	425.4	425.6	426.1	425.1	425.9	425.6	425.8	425.2	424.7	424.8	424.7
24°	423.7	423.8	424.0	423.4	424.1	424.0	424.2	423.5	423.0	423.4	422.9
24.5°	421.7	422.0	422.4	421.5	422.4	422.3	422.6	421.9	421.2	421.9	421.2
25°	419.5	420.3	420.6	419.5	420.2	420.5	420.6	420.1	419.1	419.7	419.2
25.5°	417.7	418.5	418.6	417.7	418.6	418.5	418.5	417.8	417.7	417.7	417.6
26°	415.5	416.4	416.5	415.5	416.7	416.7	416.8	416.0	415.7	416.2	415.7
26.5°	413.8	414.5	414.8	413.7	415.0	414.6	414.8	413.7	413.5	413.9	413.5
27°	411.9	412.7	412.4	412.0	413.1	412.6	413.1	412.1	411.5	411.8	411.8
27.5°	409.9	410.5	410.5	410.0	410.9	410.5	411.1	410.1	409.8	410.0	409.5
28°	407.7	408.2	408.4	407.9	408.9	408.7	408.8	407.9	407.5	408.1	407.7
28.5°	405.6	406.1	406.1	406.3	406.9	406.5	406.7	406.1	405.1	406.1	405.6
29°	403.3	404.1	404.3	403.9	404.5	404.2	404.5	403.9	402.9	404.0	403.1
29.5°	401.2	401.8	402.0	401.9	402.3	402.1	402.5	401.6	401.0	402.1	400.8
30°	399.0	399.6	399.8	399.7	400.3	400.1	400.4	399.6	398.7	399.4	398.5
30.5°	396.8	397.4	397.8	397.8	397.9	398.0	398.0	397.4	396.5	397.2	396.4
31°	394.8	395.0	395.1	395.7	395.5	395.8	395.5	395.1	394.1	395.0	394.3
31.5°	392.4	392.9	393.0	393.3	393.2	393.4	393.3	392.7	391.8	392.5	392.0
32°	389.8	390.7	390.8	390.8	390.7	391.1	391.1	390.3	389.4	390.2	389.7
32.5°	387.6	388.4	388.6	388.8	388.8	388.8	389.0	388.3	387.5	388.2	387.3
33°	384.8	385.9	385.9	386.3	386.5	386.3	386.5	385.8	385.1	385.9	385.1
33.5°	382.6	383.6	383.8	384.0	384.0	383.7	384.2	383.4	382.7	383.6	382.6
34°	380.2	381.3	381.3	381.6	381.6	381.3	382.0	380.7	380.1	380.7	380.2
34.5°	377.8	378.5	378.8	379.1	379.2	379.0	379.7	378.1	377.8	378.2	378.0
35°	375.0	375.4	376.1	376.4	376.6	376.6	377.3	376.0	375.3	375.6	375.3
35.5°	372.8	373.1	373.5	373.6	374.2	374.3	374.7	373.3	372.9	373.0	372.7
36°	370.1	370.6	370.7	371.2	371.5	371.4	372.1	370.6	370.2	370.4	370.1
36.5°	367.4	368.3	368.2	368.6	369.0	368.6	369.5	368.0	367.5	367.7	367.2
37°	364.4	365.4	365.7	366.0	366.3	366.2	366.9	365.0	364.6	365.2	364.8
37.5°	361.9	363.0	363.3	363.4	363.5	363.5	364.0	362.7	362.0	362.5	362.2
38°	359.2	360.4	360.5	360.5	360.9	360.6	361.1	360.1	359.7	360.0	359.7
38.5°	356.5	357.5	357.6	357.7	358.0	357.7	358.4	357.3	357.0	357.2	357.1
39°	353.7	354.9	354.8	355.0	355.4	355.1	355.7	354.5	354.3	354.4	354.1
39.5°	350.9	351.9	352.0	351.9	352.6	352.8	352.7	351.8	351.7	351.5	351.3
40°	348.1	348.8	349.1	349.1	349.7	350.1	349.9	349.4	348.7	348.8	348.6
40.5°	345.4	346.3	346.4	346.1	346.7	347.3	347.4	346.6	345.9	346.0	345.7
41°	342.4	343.4	343.5	343.4	344.2	344.4	344.4	343.7	342.8	343.2	342.9
41.5°	339.8	340.4	340.7	340.3	341.3	341.8	341.7	340.8	340.3	340.3	340.2
42°	336.7	337.4	337.8	337.4	338.1	338.7	338.6	338.0	337.7	337.2	337.2
42.5°	333.6	334.5	335.0	334.4	335.3	335.7	335.5	335.0	334.6	334.2	334.3
43°	330.6	331.4	332.1	331.4	332.4	332.6	332.5	331.9	331.5	331.1	331.4
43.5°	327.5	328.6	328.9	328.5	329.4	329.4	329.6	329.0	328.6	328.1	328.2
44°	324.4	325.5	325.8	325.5	326.4	326.5	326.6	326.0	325.4	325.1	325.2
44.5°	321.5	322.3	322.7	322.3	323.4	323.6	323.6	323.0	322.5	322.1	322.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	318.2	319.3	319.8	319.3	320.4	320.6	320.3	319.9	319.5	319.2	318.8
45.5°	314.9	316.1	316.8	316.2	317.4	317.5	317.1	316.9	316.3	316.0	315.6
46°	311.9	313.3	313.5	313.3	314.2	314.2	314.1	313.7	313.0	312.7	312.7
46.5°	309.1	310.1	310.2	310.1	311.0	311.0	311.2	310.4	309.9	309.9	309.4
47°	306.0	306.8	307.0	306.9	307.7	307.8	308.0	307.1	306.8	306.6	306.2
47.5°	303.0	303.8	303.6	303.5	304.5	304.8	304.6	303.9	303.6	303.3	302.8
48°	299.6	300.4	300.3	300.4	301.3	301.7	301.4	300.8	300.1	300.2	299.6
48.5°	296.2	297.1	297.1	296.9	298.2	298.2	298.2	297.6	296.8	296.9	296.5
49°	292.9	293.9	293.7	293.7	295.0	294.9	294.8	294.2	293.7	293.7	293.2
49.5°	289.6	290.6	290.5	290.3	291.7	291.4	291.5	291.1	290.3	290.6	289.8
50°	286.4	287.2	287.2	286.9	288.4	288.4	288.2	287.6	286.9	287.1	286.7
50.5°	282.7	283.8	283.8	283.6	285.0	284.9	284.8	284.3	283.6	283.7	283.4
51°	279.4	280.3	280.2	280.1	281.4	281.4	281.6	280.8	280.2	280.3	280.2
51.5°	275.9	276.9	277.0	276.8	278.0	277.9	278.1	277.3	276.7	276.9	276.4
52°	272.5	273.6	273.4	273.4	274.5	274.6	274.7	273.8	273.0	273.4	273.0
52.5°	269.0	269.9	269.9	269.9	271.1	271.3	271.1	270.4	269.7	270.2	269.5
53°	265.5	266.5	266.3	266.2	267.5	267.7	267.5	266.8	266.4	266.7	266.2
53.5°	261.9	262.9	262.8	262.6	263.9	264.0	263.8	263.6	262.9	263.4	262.6
54°	258.3	259.0	259.2	259.0	260.3	260.4	260.3	260.0	259.2	259.6	259.2
54.5°	254.5	255.4	255.7	255.5	256.8	256.8	256.7	256.2	255.6	255.9	255.8
55°	251.2	252.0	251.7	252.1	253.2	253.3	253.3	252.7	252.2	252.4	252.3
55.5°	247.7	248.3	248.3	248.3	249.5	249.8	249.4	248.9	248.6	249.1	248.6
56°	244.0	244.8	244.5	244.8	245.9	246.3	246.2	245.5	245.1	245.3	245.0
56.5°	240.4	241.0	241.0	241.2	242.3	242.6	242.6	241.7	241.3	241.6	241.2
57°	236.5	237.1	237.3	237.5	238.6	239.0	238.8	238.2	237.4	238.0	237.6
57.5°	232.6	233.4	233.5	233.7	234.9	235.0	235.1	234.4	233.9	234.2	234.1
58°	229.1	229.6	229.7	229.8	231.0	231.4	231.0	230.8	230.1	230.3	230.5
58.5°	225.3	226.0	226.1	226.1	227.4	227.8	227.0	227.0	226.4	226.6	226.7
59°	221.4	222.3	221.9	222.1	223.7	223.7	223.5	223.2	222.8	223.0	222.9
59.5°	217.6	218.3	218.1	218.3	220.0	219.8	219.7	219.4	218.7	219.3	219.0
60°	214.0	214.4	214.2	214.4	216.1	216.1	215.9	215.8	215.0	215.4	215.2
60.5°	210.4	210.5	210.5	210.3	212.2	212.2	211.7	211.7	210.9	211.5	211.3
61°	206.2	206.5	206.6	206.4	208.3	208.6	208.0	208.2	207.3	207.6	207.4
61.5°	202.4	202.7	202.9	202.4	204.3	204.7	204.1	204.2	203.5	203.9	203.5
62°	198.5	198.8	199.1	198.8	200.5	200.8	200.6	200.4	199.8	200.0	199.9
62.5°	194.6	194.7	195.1	194.7	196.4	196.7	196.5	196.4	195.7	196.0	195.8
63°	190.5	190.7	191.1	190.9	192.4	193.0	192.6	192.5	191.8	192.1	191.8
63.5°	186.6	186.9	187.1	186.9	188.5	189.0	188.7	188.7	188.0	188.1	188.0
64°	182.5	182.9	183.1	183.0	184.7	185.0	184.7	184.5	184.1	184.2	183.9
64.5°	178.7	179.1	179.3	178.9	180.6	180.8	180.6	180.4	180.1	180.1	180.0
65°	174.8	175.1	175.1	175.0	176.7	177.1	176.8	176.5	176.1	176.3	176.1
65.5°	170.7	170.9	171.0	170.7	173.0	172.7	172.6	172.3	172.0	172.3	172.2
66°	166.6	166.8	166.8	166.6	168.8	168.7	168.2	168.2	167.8	168.3	168.1
66.5°	162.4	162.8	162.5	162.5	164.6	164.5	164.3	164.1	163.9	164.3	163.9
67°	158.1	158.5	158.5	158.5	160.4	160.6	160.3	160.2	159.9	160.1	160.0



TEST NUMBER: P869668  
 CATALOG NUMBER: SMX14SLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	154.2	154.5	154.4	154.4	156.2	156.5	156.1	156.0	155.8	156.1	155.8
68°	150.0	150.4	150.2	150.4	152.2	152.5	152.1	151.9	152.1	152.0	151.7
68.5°	145.9	146.2	146.2	146.1	148.2	148.4	148.0	147.9	148.0	148.0	147.6
69°	141.8	142.1	142.0	141.9	144.2	144.3	143.9	143.7	143.7	143.7	143.2
69.5°	137.4	137.8	137.9	137.7	139.9	140.1	139.8	139.5	139.5	139.5	139.2
70°	133.2	133.7	133.6	133.5	135.7	135.9	135.5	135.2	135.3	135.5	135.0
70.5°	129.1	129.5	129.2	129.4	131.6	131.8	131.4	131.3	131.4	131.2	131.0
71°	125.0	125.2	125.0	125.1	127.4	127.7	127.0	127.2	127.1	127.1	126.8
71.5°	121.0	121.1	120.9	120.8	123.2	123.3	123.0	122.9	123.1	122.8	122.6
72°	116.8	116.9	116.7	116.6	118.9	119.2	118.8	118.8	118.9	118.6	118.5
72.5°	112.4	112.9	112.7	112.3	114.8	115.0	114.8	114.6	114.7	114.5	114.3
73°	108.3	108.6	108.4	108.3	110.6	110.8	110.6	110.5	110.5	110.4	110.1
73.5°	104.2	104.5	104.2	104.2	106.6	106.8	106.7	106.5	106.4	106.3	106.2
74°	99.9	100.2	100.1	100.0	102.4	102.7	102.6	102.2	102.3	102.0	101.9
74.5°	95.8	96.2	95.9	95.9	98.2	98.5	98.1	98.1	98.0	98.0	97.8
75°	91.6	91.9	91.8	91.6	93.8	94.1	94.1	93.9	93.8	93.8	93.8
75.5°	87.5	87.6	87.5	87.4	89.6	90.0	89.7	89.7	89.7	89.7	89.6
76°	83.4	83.5	83.4	83.5	85.5	85.8	85.5	85.5	85.5	85.5	85.4
76.5°	79.2	79.4	79.4	79.2	81.5	81.6	81.4	81.5	81.5	81.4	81.5
77°	75.1	75.2	75.1	75.1	77.3	77.6	77.5	77.3	77.3	77.4	77.4
77.5°	71.0	71.3	71.2	71.2	73.1	73.4	73.3	73.3	73.3	73.4	73.4
78°	67.0	67.3	67.0	67.1	69.2	69.4	69.2	69.1	69.0	69.3	69.2
78.5°	63.1	63.2	63.1	63.2	65.3	65.3	65.3	65.1	64.9	65.2	65.3
79°	59.2	59.3	59.1	59.4	61.5	61.6	61.4	61.3	61.1	61.4	61.3
79.5°	55.3	55.4	55.3	55.4	57.6	57.5	57.4	57.4	57.2	57.5	57.5
80°	51.5	51.5	51.5	51.4	53.5	53.6	53.3	53.3	53.3	53.6	53.5
80.5°	47.6	47.7	47.6	47.5	49.6	49.9	49.7	49.6	49.5	49.7	49.8
81°	44.0	44.0	43.9	43.6	45.8	46.1	45.9	45.8	45.8	46.0	46.1
81.5°	40.3	40.4	40.2	40.1	42.1	42.3	42.1	42.0	42.0	42.3	42.3
82°	36.8	36.8	36.7	36.5	38.5	38.6	38.5	38.3	38.3	38.6	38.7
82.5°	33.3	33.4	33.2	33.0	35.1	35.2	35.1	34.9	34.9	35.1	35.3
83°	29.8	29.9	29.8	29.5	31.6	31.6	31.6	31.4	31.4	31.7	31.9
83.5°	26.5	26.6	26.4	26.3	28.0	28.2	28.1	28.1	28.1	28.2	28.5
84°	23.4	23.5	23.4	23.1	24.8	24.9	24.9	24.8	24.7	24.9	25.2
84.5°	20.5	20.5	20.4	20.2	21.7	22.0	21.7	21.7	21.6	21.8	22.0
85°	17.6	17.6	17.6	17.3	18.7	18.8	18.8	18.6	18.6	18.8	18.9
85.5°	15.0	15.0	15.0	14.8	15.8	15.9	15.8	15.8	15.8	15.9	16.1
86°	12.5	12.5	12.5	12.2	13.5	13.5	13.5	13.5	13.5	13.6	13.7
86.5°	10.1	10.2	10.1	10.0	11.2	11.2	11.3	11.1	11.2	11.4	11.4
87°	7.9	7.9	7.9	7.7	9.0	9.0	9.1	8.9	8.9	9.0	9.1
87.5°	5.8	5.7	5.7	5.5	6.9	6.9	6.9	6.8	6.8	6.9	7.0
88°	4.0	4.1	4.0	3.9	5.0	5.0	5.0	5.0	5.0	5.1	5.2
88.5°	2.7	2.7	2.7	2.6	3.4	3.6	3.4	3.3	3.3	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: P869668  
CATALOG NUMBER: SMX14SLSFS010-1300LM-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: P869668  
 CATALOG NUMBER: SMX14SLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	467.3	467.3	467.3	467.3	467.3	467.3
0.5°	466.9	467.9	467.5	467.3	467.2	467.1
1°	466.8	467.8	467.9	467.1	466.9	467.1
1.5°	466.9	467.9	467.6	467.3	466.6	466.8
2°	466.6	467.5	467.2	467.1	466.7	466.8
2.5°	466.7	467.2	466.9	466.6	466.9	466.6
3°	466.5	466.6	466.5	466.5	466.7	465.9
3.5°	466.0	466.2	466.5	466.1	466.6	465.7
4°	465.9	466.0	466.5	465.6	466.1	465.7
4.5°	465.5	465.6	465.8	465.4	465.8	465.4
5°	464.8	465.4	465.2	465.2	465.2	465.0
5.5°	464.3	464.9	464.9	465.3	464.8	464.8
6°	463.6	464.4	464.1	464.7	464.4	464.5
6.5°	463.4	463.7	463.7	464.3	463.7	464.1
7°	462.9	463.3	463.1	463.5	463.1	463.6
7.5°	462.8	462.9	462.7	462.8	462.9	463.1
8°	461.9	462.5	461.8	462.3	462.1	462.3
8.5°	461.2	461.9	461.5	461.8	461.2	461.8
9°	460.4	461.0	460.9	460.9	460.7	461.3
9.5°	459.5	460.5	460.0	460.2	460.0	460.7
10°	459.1	459.7	459.1	459.4	459.5	460.1
10.5°	458.1	458.8	458.5	458.7	459.0	459.5
11°	457.3	457.6	457.9	457.7	458.0	458.8
11.5°	456.5	456.6	457.3	456.5	457.3	458.0
12°	455.5	455.9	456.4	455.8	456.5	457.0
12.5°	454.7	454.9	455.4	455.3	456.1	456.0
13°	454.0	454.0	454.5	454.2	454.9	455.2
13.5°	452.9	452.8	453.2	453.5	453.8	454.1
14°	451.9	451.5	451.9	452.8	452.8	452.9
14.5°	450.6	450.3	450.5	451.6	451.5	451.5
15°	449.6	449.4	449.2	450.6	450.2	450.2
15.5°	448.3	448.2	448.2	449.7	449.0	448.8
16°	447.2	447.0	446.8	448.7	447.3	447.5
16.5°	445.9	445.7	445.7	447.4	446.2	446.1
17°	444.6	444.5	444.5	445.8	444.9	444.9
17.5°	443.2	443.3	442.9	444.4	443.3	443.5
18°	441.9	442.0	441.8	443.1	442.1	442.2
18.5°	440.6	440.7	440.4	441.4	440.4	440.7
19°	439.3	439.3	439.1	440.0	438.8	439.2
19.5°	437.6	437.8	437.9	438.4	437.4	437.8
20°	436.2	436.2	436.8	436.8	436.1	436.1
20.5°	434.6	434.7	435.3	435.3	434.8	434.8
21°	433.0	433.0	433.7	433.9	433.3	433.2
21.5°	431.4	431.4	432.3	432.2	432.0	431.5
22°	430.0	430.0	430.9	430.5	430.2	430.1

TEST NUMBER: P869668  
 CATALOG NUMBER: SMX14SLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	428.0	428.1	429.1	428.7	428.6	428.5
23°	426.5	426.5	427.1	426.8	426.8	426.9
23.5°	425.0	424.7	425.8	425.1	425.2	425.4
24°	423.1	422.8	424.1	423.0	423.1	423.7
24.5°	421.3	421.0	421.6	421.5	421.3	421.7
25°	419.2	419.2	419.8	419.3	419.2	419.5
25.5°	417.3	417.3	417.8	417.5	417.3	417.7
26°	415.1	415.4	415.6	415.3	415.3	415.5
26.5°	413.2	413.2	413.7	413.2	413.2	413.8
27°	411.3	411.3	411.8	411.3	411.3	411.9
27.5°	409.6	409.2	409.9	409.2	409.2	409.9
28°	407.4	407.0	407.8	407.1	407.0	407.7
28.5°	405.3	404.7	405.8	405.4	405.2	405.6
29°	403.1	402.8	403.8	403.1	402.9	403.3
29.5°	400.8	400.4	401.8	401.0	400.7	401.2
30°	398.6	398.3	399.6	398.7	398.3	399.0
30.5°	396.3	396.4	397.2	396.1	396.0	396.8
31°	393.9	393.9	394.6	394.0	393.8	394.8
31.5°	391.7	391.6	392.0	391.8	391.5	392.4
32°	389.5	389.5	389.5	389.4	389.0	389.8
32.5°	387.3	387.0	387.4	387.4	386.9	387.6
33°	384.9	384.9	384.9	384.9	384.4	384.8
33.5°	382.6	382.4	382.7	382.4	382.1	382.6
34°	379.9	379.9	379.9	380.2	379.5	380.2
34.5°	377.7	377.2	377.5	377.8	377.0	377.8
35°	375.3	374.5	374.8	375.3	374.6	375.0
35.5°	372.8	371.8	372.2	372.7	372.1	372.8
36°	370.0	369.5	369.7	370.0	369.5	370.1
36.5°	367.5	366.8	367.0	367.2	367.1	367.4
37°	364.8	364.3	364.4	364.6	364.4	364.4
37.5°	362.2	361.4	361.6	362.1	361.8	361.9
38°	359.7	358.5	359.0	359.3	359.4	359.2
38.5°	357.1	355.7	356.5	356.3	356.5	356.5
39°	354.4	353.2	353.7	353.7	353.6	353.7
39.5°	351.6	350.5	351.0	350.9	350.9	350.9
40°	348.7	347.8	348.3	348.1	347.9	348.1
40.5°	345.6	345.1	345.3	345.2	345.3	345.4
41°	342.8	342.7	342.6	342.5	342.4	342.4
41.5°	339.9	339.6	339.8	339.8	340.0	339.8
42°	337.0	336.6	336.8	336.9	337.2	336.7
42.5°	334.0	333.5	334.0	333.9	333.8	333.6
43°	331.1	330.5	330.7	330.8	330.6	330.6
43.5°	328.3	327.4	328.0	327.7	327.6	327.5
44°	325.2	324.2	325.1	324.6	324.5	324.4
44.5°	322.3	321.4	321.8	321.5	321.9	321.5

TEST NUMBER: P869668  
 CATALOG NUMBER: SMX14SLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	319.1	318.2	318.7	318.5	318.6	318.2
45.5°	316.2	315.1	315.6	315.3	315.1	314.9
46°	312.9	312.0	312.4	312.3	311.9	311.9
46.5°	309.6	308.7	309.5	309.1	308.7	309.1
47°	306.4	305.3	306.4	306.0	305.7	306.0
47.5°	303.2	302.0	303.2	302.7	302.8	303.0
48°	299.9	298.9	299.8	299.3	299.7	299.6
48.5°	296.9	295.8	296.5	296.1	296.4	296.2
49°	293.3	292.5	293.2	292.7	292.6	292.9
49.5°	290.1	289.3	289.9	289.4	289.2	289.6
50°	286.9	285.9	286.5	286.1	286.2	286.4
50.5°	283.5	282.6	283.0	282.7	282.7	282.7
51°	280.3	279.1	279.7	279.3	279.1	279.4
51.5°	276.7	275.5	276.0	275.9	275.5	275.9
52°	273.4	272.1	272.7	272.4	272.0	272.5
52.5°	269.7	268.5	269.2	269.2	268.6	269.0
53°	266.4	265.2	265.5	265.6	265.2	265.5
53.5°	262.9	261.8	262.1	262.0	261.7	261.9
54°	259.4	258.2	258.2	258.3	258.3	258.3
54.5°	255.8	254.6	254.9	254.4	254.4	254.5
55°	252.2	251.3	251.3	250.8	250.9	251.2
55.5°	248.7	247.7	247.8	247.2	247.4	247.7
56°	245.4	244.0	244.1	243.4	243.8	244.0
56.5°	241.6	240.3	240.4	240.0	240.2	240.4
57°	237.8	236.4	236.7	236.2	236.4	236.5
57.5°	234.1	232.8	233.1	232.6	232.6	232.6
58°	230.5	229.0	229.1	229.3	228.8	229.1
58.5°	226.7	225.3	225.3	225.5	225.4	225.3
59°	223.0	221.5	221.5	221.7	221.6	221.4
59.5°	219.0	217.7	217.6	217.7	217.9	217.6
60°	215.0	214.0	213.8	213.8	213.8	214.0
60.5°	211.4	210.1	210.0	209.9	209.8	210.4
61°	207.7	206.2	206.3	205.9	205.9	206.2
61.5°	203.8	202.2	202.6	201.9	202.3	202.4
62°	199.9	198.5	198.6	198.0	198.1	198.5
62.5°	196.0	194.5	194.7	194.2	194.1	194.6
63°	192.0	190.4	190.6	190.4	190.1	190.5
63.5°	187.9	186.5	186.8	186.2	186.1	186.6
64°	184.3	182.4	182.7	182.3	182.2	182.5
64.5°	180.0	178.5	178.8	178.4	178.3	178.7
65°	176.2	174.4	174.7	174.4	174.2	174.8
65.5°	172.1	170.4	170.5	170.2	170.3	170.7
66°	167.9	166.2	166.3	166.3	166.3	166.6
66.5°	163.8	162.1	162.2	162.2	162.5	162.4
67°	160.0	157.9	158.2	157.9	158.6	158.1

TEST NUMBER: P869668  
 CATALOG NUMBER: SMX14SLSFS010-1300LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	155.8	153.9	154.4	154.0	154.4	154.2
68°	151.7	149.8	150.2	149.8	149.9	150.0
68.5°	147.6	146.0	146.1	145.8	145.8	145.9
69°	143.4	141.9	142.0	141.9	141.9	141.8
69.5°	139.2	137.6	137.9	137.6	137.7	137.4
70°	135.1	133.4	133.6	133.4	133.5	133.2
70.5°	131.3	129.3	129.5	129.4	129.5	129.1
71°	127.2	124.8	125.1	125.1	125.1	125.0
71.5°	122.9	120.8	121.1	120.8	120.8	121.0
72°	118.7	116.7	116.7	116.6	116.5	116.8
72.5°	114.6	112.6	112.6	112.6	112.2	112.4
73°	110.6	108.4	108.7	108.4	108.1	108.3
73.5°	106.5	104.2	104.6	104.2	104.1	104.2
74°	102.4	100.0	100.3	99.9	99.9	99.9
74.5°	98.2	95.9	96.1	95.8	95.6	95.8
75°	94.1	91.7	91.8	91.6	91.4	91.6
75.5°	89.8	87.6	87.7	87.4	87.2	87.5
76°	85.7	83.5	83.5	83.3	83.2	83.4
76.5°	81.7	79.2	79.4	79.3	79.1	79.2
77°	77.6	75.2	75.2	75.0	75.0	75.1
77.5°	73.4	71.4	71.2	71.1	71.2	71.0
78°	69.4	67.3	67.0	67.1	67.1	67.0
78.5°	65.3	63.4	63.1	63.1	63.2	63.1
79°	61.4	59.5	59.2	59.2	59.5	59.2
79.5°	57.5	55.4	55.4	55.3	55.6	55.3
80°	53.6	51.5	51.5	51.4	51.7	51.5
80.5°	49.9	47.8	47.8	47.8	47.7	47.6
81°	46.1	44.0	44.1	44.1	44.0	44.0
81.5°	42.3	40.4	40.5	40.6	40.3	40.3
82°	38.7	36.9	36.9	37.0	36.7	36.8
82.5°	35.3	33.4	33.5	33.4	33.2	33.3
83°	31.9	30.0	30.1	30.0	29.8	29.8
83.5°	28.5	26.8	26.8	26.7	26.4	26.5
84°	25.2	23.6	23.6	23.6	23.4	23.4
84.5°	22.0	20.6	20.6	20.6	20.5	20.5
85°	19.0	17.7	17.8	17.6	17.6	17.6
85.5°	16.1	15.1	15.2	15.1	15.1	15.0
86°	13.9	12.6	12.7	12.7	12.6	12.5
86.5°	11.5	10.2	10.4	10.2	10.2	10.1
87°	9.3	8.0	8.1	8.0	8.0	7.9
87.5°	7.2	5.8	5.9	5.9	5.8	5.8
88°	5.2	4.1	4.2	4.1	4.1	4.0
88.5°	3.6	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: P869668  
CATALOG NUMBER: SMX14SLSFS010-1300LM-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)