

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: P869652

Luminaire Tested: **SMX14RLSFSD2W-1300LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869652
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFS2W-1300LM-3000K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

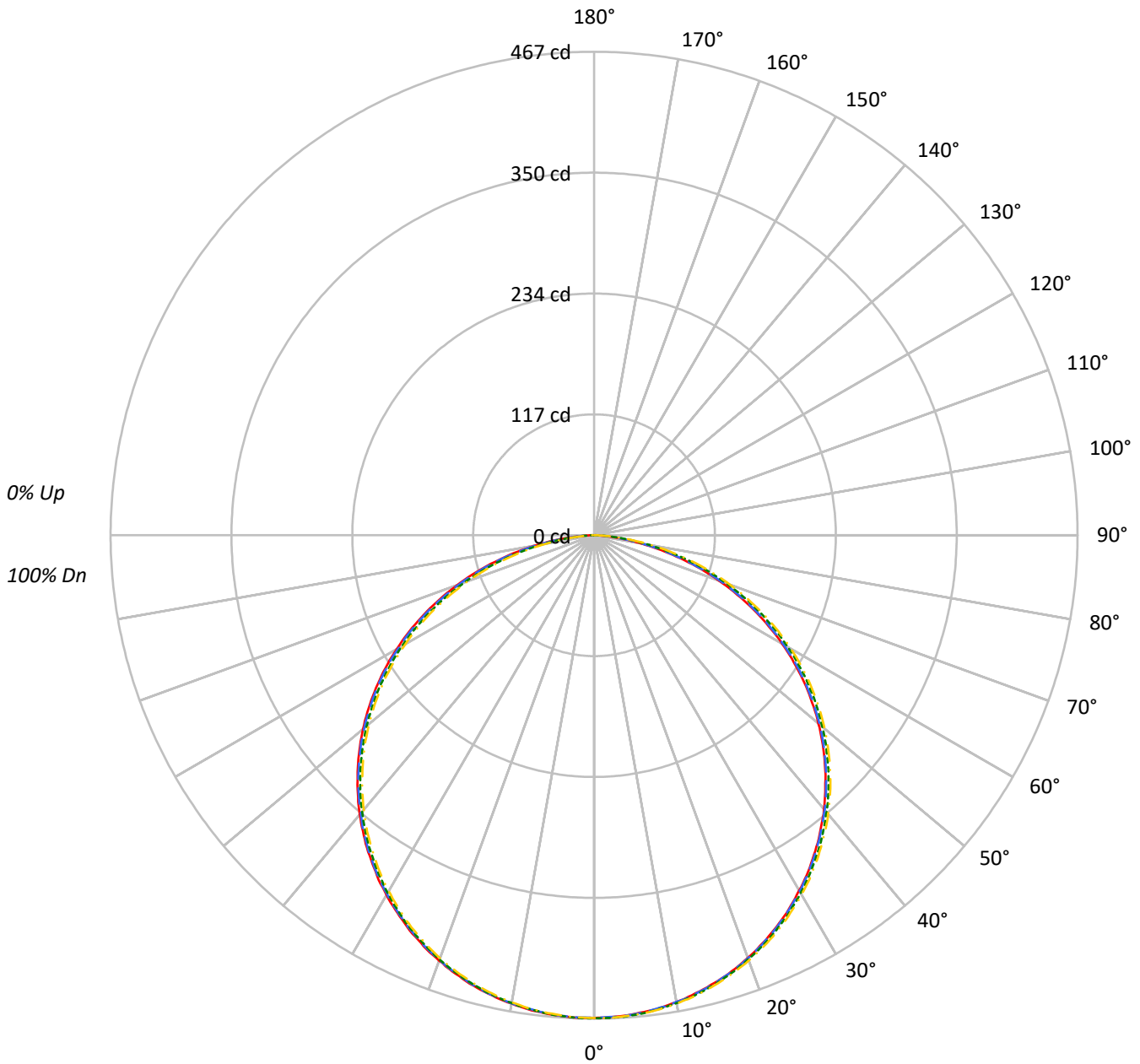
Lumens per Lamp: N/A
 Luminaire Lumens: 1365.4 lumens
 Efficiency: N/A
 Efficacy: 92.9 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

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					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	50	30	10	0	
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	100	100	96	96	96	96	96	96	96	96
	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	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	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	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	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	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	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	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	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	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	24	24	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4692	4692	4692	4692
5°	4685	4697	4696	4696
10°	4678	4690	4693	4687
15°	4667	4682	4692	4682
20°	4652	4667	4685	4671
25°	4634	4656	4677	4656
30°	4604	4636	4662	4635
35°	4575	4617	4644	4609
40°	4539	4589	4624	4581
45°	4490	4556	4598	4538
50°	4427	4506	4564	4485
55°	4348	4446	4511	4416
60°	4223	4351	4432	4307
65°	4050	4219	4319	4155
70°	3781	4010	4143	3916
75°	3371	3686	3857	3542
80°	2706	3141	3396	2938
85°	1651	2252	2633	1963

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	3.2
10°-20°	126.8	9.3
20°-30°	193.2	14.1
30°-40°	234.8	17.2
40°-50°	246.3	18.0
50°-60°	225.4	16.5
60°-70°	173.6	12.7
70°-80°	98.2	7.2
80°-90°	22.9	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	364.1	26.7
0°-40°	599.0	43.9
0°-60°	1070.6	78.4
0°-90°	1365.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1365.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	466	466	466	466	466	
5°	464	465	465	465	464	44
15°	448	449	450	449	448	126
25°	417	419	421	419	417	192
35°	372	376	378	375	372	233
45°	316	320	323	319	316	243
55°	248	253	257	252	248	221
65°	170	177	181	174	170	168
75°	87	95	99	91	87	92
85°	14	20	23	17	14	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°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
0.5°	466.1	466.0	466.0	466.5	466.6	466.8	466.4	466.3	466.1	466.0	466.1
1°	466.1	465.7	465.9	466.5	466.6	466.6	466.4	466.1	466.4	466.1	465.9
1.5°	466.0	465.8	465.8	466.1	466.5	466.5	466.4	466.3	466.5	465.8	466.0
2°	465.8	465.4	465.6	465.8	466.5	466.4	466.2	466.3	466.4	465.7	466.0
2.5°	465.4	465.4	465.7	466.0	466.2	466.3	466.1	466.1	466.2	465.7	465.8
3°	465.3	465.1	465.4	465.6	466.0	466.1	465.8	465.8	466.0	465.7	465.6
3.5°	465.2	464.9	465.3	465.4	466.0	466.0	465.7	465.7	465.6	465.5	465.4
4°	464.9	464.5	464.9	465.1	465.6	465.6	465.4	465.4	465.3	465.3	465.4
4.5°	464.4	464.1	464.5	464.6	465.2	465.3	465.1	465.2	465.0	465.0	464.8
5°	463.8	463.5	464.1	464.5	465.0	464.8	464.8	464.9	464.9	464.6	464.6
5.5°	463.3	463.1	463.7	463.7	464.4	464.5	464.4	464.4	464.4	464.4	464.3
6°	463.0	462.6	463.2	463.2	464.1	464.0	464.0	464.0	464.1	464.0	463.7
6.5°	462.6	462.2	462.8	462.8	463.5	463.6	463.8	463.7	463.6	463.6	463.3
7°	462.1	461.7	461.9	462.3	463.0	462.8	463.3	463.1	463.3	463.1	462.7
7.5°	461.6	461.1	461.3	461.7	462.3	462.3	462.6	462.5	463.0	462.6	462.0
8°	460.9	460.6	460.6	461.1	461.7	461.6	462.1	462.1	462.3	462.1	461.8
8.5°	460.2	459.9	460.3	460.6	461.1	461.0	461.3	461.3	461.4	461.4	461.0
9°	459.4	459.3	459.5	459.7	460.3	460.7	461.0	460.7	460.7	460.5	460.6
9.5°	458.5	458.5	458.7	459.2	459.7	459.7	460.0	460.0	460.3	460.0	459.7
10°	457.8	457.7	457.7	458.5	459.0	459.0	459.4	459.4	459.3	459.5	459.2
10.5°	456.9	457.0	457.2	457.6	458.2	458.3	458.5	458.7	458.8	458.7	458.3
11°	456.5	456.0	456.4	456.9	457.3	457.5	457.6	457.8	458.1	457.7	457.6
11.5°	455.2	455.0	455.8	455.9	456.5	456.5	457.1	457.0	457.3	456.8	456.6
12°	454.3	454.2	454.7	455.0	455.8	455.7	456.2	456.2	456.5	456.0	455.8
12.5°	453.1	453.4	453.7	454.1	454.6	455.0	455.0	455.5	455.2	455.4	455.0
13°	452.4	452.4	452.6	452.8	453.6	454.1	454.3	454.5	454.6	454.3	454.2
13.5°	451.2	451.2	451.7	452.1	452.7	453.1	453.3	453.5	453.6	453.1	453.2
14°	450.3	450.1	450.6	451.0	451.6	451.9	452.2	452.2	452.6	452.2	451.9
14.5°	448.8	449.0	449.4	450.1	450.5	450.8	451.3	451.5	451.5	451.4	450.9
15°	448.0	447.7	448.4	448.5	449.4	449.7	450.0	450.5	450.4	450.1	450.1
15.5°	446.7	446.5	447.0	447.4	448.1	448.4	448.9	449.2	449.4	449.0	448.7
16°	445.4	445.6	445.7	446.4	447.0	447.3	447.7	447.7	448.2	447.7	447.3
16.5°	444.3	444.4	444.4	445.1	445.6	445.9	446.5	446.5	446.9	446.7	446.1
17°	443.1	443.1	443.4	443.8	444.4	444.6	445.3	445.4	445.4	445.6	445.0
17.5°	441.7	441.7	442.1	442.8	443.0	443.6	444.1	444.1	444.4	444.0	443.8
18°	440.3	440.3	440.7	441.3	441.9	442.3	442.8	443.0	443.1	442.9	442.4
18.5°	438.8	438.7	439.3	439.6	440.3	440.9	441.2	441.5	441.6	441.6	441.2
19°	437.4	437.3	438.0	438.2	438.7	439.5	439.9	440.0	440.4	440.0	439.6
19.5°	435.8	435.9	436.4	437.0	437.5	437.8	438.7	438.7	438.6	438.9	438.2
20°	434.4	434.3	434.9	435.3	435.8	436.6	437.2	437.5	437.5	437.3	436.8
20.5°	432.9	432.6	433.2	434.0	434.3	435.1	435.6	436.0	435.8	435.9	435.4
21°	431.4	431.2	431.6	432.2	432.8	433.3	434.1	434.5	434.5	434.3	433.6
21.5°	429.7	429.5	430.1	430.7	431.4	431.9	432.5	432.9	433.1	432.6	432.2
22°	427.8	428.1	428.6	428.9	429.5	430.3	431.1	431.3	431.4	430.9	430.5

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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°	426.3	426.1	426.8	427.2	428.0	428.6	429.2	429.7	429.8	429.4	429.0
23°	424.6	424.4	424.8	425.7	426.3	426.8	427.7	428.2	427.8	427.8	427.2
23.5°	422.7	422.7	423.0	423.8	424.5	425.0	426.1	426.2	426.1	426.3	425.4
24°	420.9	420.9	421.4	422.0	422.9	423.6	424.4	424.6	424.5	424.6	423.7
24.5°	418.9	419.2	419.5	420.2	421.2	421.6	422.5	422.9	422.9	422.6	422.0
25°	417.3	417.1	417.8	418.3	419.3	419.8	420.7	421.0	421.2	421.0	420.1
25.5°	415.2	415.5	415.8	416.4	417.2	418.0	418.9	419.3	419.2	419.1	418.3
26°	413.3	413.6	413.8	414.6	415.5	416.3	416.9	417.3	417.1	417.3	416.5
26.5°	411.3	411.3	411.7	412.6	413.5	414.2	415.2	415.4	415.2	415.2	414.5
27°	409.5	409.4	409.9	410.4	411.8	412.1	413.2	413.6	413.3	413.4	412.4
27.5°	407.2	407.3	407.8	408.3	409.7	410.2	411.0	411.5	411.4	411.4	410.5
28°	405.0	405.2	405.8	406.4	407.4	408.4	409.2	409.5	409.4	409.4	408.5
28.5°	402.9	403.0	403.5	404.0	405.4	406.1	407.1	407.4	407.4	407.1	406.4
29°	400.7	401.1	401.4	402.1	403.3	404.0	405.1	405.4	405.4	405.1	404.4
29.5°	398.3	398.6	399.2	400.0	401.3	401.9	403.0	403.3	403.4	403.3	402.3
30°	396.2	396.4	396.9	397.9	399.0	399.8	400.9	401.2	401.2	401.1	400.0
30.5°	394.3	394.3	395.0	395.8	397.0	397.6	398.6	399.0	398.9	399.0	398.0
31°	392.0	392.4	392.4	393.3	395.0	395.3	396.4	397.2	396.7	396.8	395.9
31.5°	389.6	389.7	390.3	391.2	392.5	393.3	394.3	394.7	394.7	394.8	393.7
32°	387.4	387.6	388.1	388.9	390.2	391.0	392.3	392.5	392.6	392.6	391.4
32.5°	385.0	385.3	385.4	386.3	387.7	388.7	389.8	390.5	390.0	390.0	389.2
33°	382.5	383.0	383.0	384.0	385.5	386.1	387.4	388.0	387.4	387.7	386.9
33.5°	379.8	380.3	380.8	381.7	383.0	383.7	384.9	385.7	385.3	385.3	384.4
34°	377.5	377.9	378.1	379.3	380.8	381.5	382.6	383.3	382.9	382.9	382.0
34.5°	374.8	375.3	375.9	376.8	378.3	379.1	380.2	380.9	380.4	380.5	379.6
35°	372.4	372.8	373.4	374.1	375.8	376.5	377.8	378.2	378.0	378.0	377.2
35.5°	369.8	370.1	370.8	371.5	373.2	374.1	375.1	375.7	375.7	375.7	374.8
36°	367.3	367.5	368.0	369.0	370.7	371.7	372.9	373.3	373.3	373.0	372.2
36.5°	364.7	364.9	365.6	366.4	368.4	368.9	370.3	370.8	370.8	370.8	369.6
37°	362.1	362.2	362.8	363.8	365.6	366.5	367.7	368.4	368.1	368.1	367.2
37.5°	359.2	359.6	360.1	361.2	362.8	363.8	365.0	365.6	365.4	365.4	364.6
38°	356.4	356.9	357.5	358.4	360.2	361.4	362.6	363.0	362.7	362.6	362.0
38.5°	353.8	354.2	354.7	355.5	357.5	358.5	359.9	360.3	360.3	360.0	359.3
39°	351.1	351.2	352.0	352.9	354.7	355.7	357.2	357.8	357.6	357.4	356.4
39.5°	348.4	348.4	349.2	350.2	351.8	353.1	354.6	355.0	354.8	354.7	353.5
40°	345.5	345.9	346.4	347.5	349.3	350.5	351.5	352.3	352.0	352.0	350.7
40.5°	342.5	342.9	343.7	344.7	346.5	347.7	348.9	349.5	349.3	349.1	348.0
41°	339.6	340.2	340.8	341.9	343.8	345.0	346.0	346.7	346.7	346.3	345.3
41.5°	336.7	337.2	337.8	339.1	340.9	342.2	343.3	343.8	343.8	343.4	342.3
42°	333.8	334.3	334.7	336.1	337.9	339.2	340.3	340.9	340.8	340.5	339.6
42.5°	330.7	331.3	331.7	333.1	335.1	336.1	337.4	338.1	337.9	337.8	336.7
43°	327.6	328.2	328.7	330.1	332.1	333.3	334.6	335.3	335.0	334.7	333.8
43.5°	324.8	325.2	325.9	327.2	328.9	330.3	331.4	332.4	332.1	331.7	330.8
44°	321.9	322.1	322.7	324.0	326.0	327.3	328.6	329.2	329.0	328.7	327.9
44.5°	318.5	318.9	319.8	321.0	323.1	324.3	325.5	326.0	326.0	325.7	324.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	315.5	315.8	316.7	318.0	320.1	321.2	322.5	323.1	323.1	322.8	321.7
45.5°	312.5	312.6	313.5	314.8	316.9	318.1	319.4	319.8	320.1	319.6	318.5
46°	309.2	309.5	310.2	311.7	313.6	315.0	316.4	316.9	317.0	316.7	315.6
46.5°	306.1	306.3	307.0	308.3	310.4	311.8	313.3	313.7	313.7	313.5	312.4
47°	302.8	303.1	303.9	305.3	307.2	308.7	310.1	310.6	310.6	310.2	309.2
47.5°	299.7	299.8	300.8	302.1	304.2	305.5	306.9	307.5	307.4	307.2	306.1
48°	296.3	296.5	297.7	298.8	301.0	302.3	303.8	304.3	304.3	303.9	303.1
48.5°	293.0	293.3	294.3	295.5	297.8	299.1	300.5	301.2	301.2	300.7	299.8
49°	289.8	289.9	291.0	292.3	294.4	295.7	297.4	298.0	297.9	297.5	296.5
49.5°	286.4	286.6	287.6	289.0	291.1	292.5	294.0	294.4	294.7	294.3	293.3
50°	282.8	283.2	284.2	285.6	287.8	289.3	290.9	291.4	291.5	291.1	289.7
50.5°	279.5	279.7	280.8	282.4	284.4	286.0	287.5	288.0	288.0	287.6	286.5
51°	276.1	276.3	277.3	278.8	281.2	282.6	283.9	284.7	284.8	284.1	283.2
51.5°	272.6	272.9	273.9	275.4	277.7	279.2	280.7	281.3	281.4	280.8	279.7
52°	269.0	269.4	270.3	272.0	274.4	275.8	277.4	278.1	277.9	277.4	276.5
52.5°	265.5	265.9	267.0	268.5	270.9	272.3	273.9	274.6	274.4	274.0	272.9
53°	262.1	262.5	263.6	265.0	267.4	268.9	270.4	271.2	271.0	270.6	269.5
53.5°	258.5	258.7	260.0	261.4	264.0	265.5	266.8	267.6	267.5	267.1	266.1
54°	254.9	255.0	256.2	257.7	260.5	261.8	263.4	264.2	263.9	263.8	262.4
54.5°	251.4	251.7	252.7	254.1	256.8	258.4	260.0	260.5	260.5	260.1	258.8
55°	247.8	248.1	249.2	250.8	253.4	255.0	256.5	257.3	257.1	256.6	255.3
55.5°	244.1	244.3	245.6	247.0	249.8	251.5	252.9	253.7	253.6	253.0	251.9
56°	240.4	240.7	241.8	243.4	246.3	247.7	249.5	250.2	249.9	249.4	248.2
56.5°	236.6	237.0	238.3	239.6	242.5	244.1	245.6	246.3	246.4	245.6	244.7
57°	232.8	233.3	234.4	235.8	238.8	240.5	242.1	242.9	242.7	242.1	241.0
57.5°	229.0	229.4	230.6	232.1	235.1	236.7	238.3	239.0	239.0	238.4	237.3
58°	225.5	225.7	226.8	228.5	231.4	233.1	234.7	235.4	235.2	234.6	233.6
58.5°	221.5	221.7	223.1	224.7	227.6	229.3	230.9	231.7	231.7	230.9	229.9
59°	217.7	218.1	219.2	220.9	223.9	225.6	227.2	227.9	228.0	227.0	226.0
59.5°	213.7	214.2	215.3	217.0	220.1	221.8	223.4	224.2	224.0	223.4	222.2
60°	209.8	210.3	211.6	213.3	216.2	218.0	219.6	220.4	220.2	219.5	218.4
60.5°	206.1	206.4	207.5	209.3	212.2	214.3	215.8	216.6	216.4	215.8	214.6
61°	202.3	202.7	203.8	205.7	208.4	210.4	212.0	212.7	212.6	211.8	210.9
61.5°	198.2	198.6	199.8	201.7	204.5	206.5	208.0	208.8	208.9	208.1	207.0
62°	194.2	194.7	196.0	197.6	201.0	202.8	204.3	205.1	205.0	204.3	203.2
62.5°	190.1	190.7	191.8	193.6	197.0	198.9	200.6	201.2	201.1	200.4	199.2
63°	186.1	186.8	187.9	189.7	193.0	195.0	196.5	197.3	197.2	196.5	195.3
63.5°	182.1	182.8	184.0	185.7	189.0	191.0	192.7	193.3	193.3	192.6	191.3
64°	178.0	178.7	180.0	181.7	185.0	187.1	188.6	189.2	189.3	188.5	187.5
64.5°	174.2	174.7	175.9	177.7	181.1	183.0	184.7	185.3	185.3	184.6	183.3
65°	170.1	170.6	172.0	173.8	177.2	179.1	180.8	181.4	181.4	180.7	179.6
65.5°	166.0	166.7	167.8	169.8	173.2	175.1	176.7	177.4	177.5	176.8	175.3
66°	161.8	162.4	163.7	165.5	169.0	171.1	172.6	173.4	173.3	172.7	171.3
66.5°	157.7	158.4	159.5	161.4	165.0	166.9	168.5	169.3	169.2	168.4	167.2
67°	153.8	154.2	155.5	157.4	160.9	162.8	164.4	165.2	165.2	164.5	163.1

TEST NUMBER: P869652
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	149.5	150.2	151.5	153.3	156.8	158.7	160.3	161.2	161.3	160.4	159.0
68°	145.4	145.9	147.3	149.2	152.7	154.8	156.5	157.1	157.2	156.3	155.1
68.5°	141.1	141.8	143.1	145.0	148.7	150.7	152.2	153.1	153.1	152.2	151.1
69°	136.9	137.5	138.9	140.9	144.5	146.5	148.2	148.9	148.9	148.1	147.1
69.5°	132.8	133.3	134.8	136.5	140.4	142.6	144.1	144.8	144.9	144.0	142.7
70°	128.5	129.2	130.6	132.4	136.3	138.3	140.0	140.7	140.8	139.9	138.5
70.5°	124.4	125.0	126.4	128.4	132.3	134.1	135.8	136.6	136.6	135.9	134.4
71°	120.2	120.7	122.2	124.0	128.1	130.2	131.9	132.6	132.6	131.7	130.4
71.5°	115.9	116.6	117.9	119.8	123.8	126.0	127.6	128.4	128.4	127.5	126.1
72°	111.8	112.4	113.8	115.6	119.6	121.8	123.6	124.1	124.3	123.4	121.9
72.5°	107.7	108.3	109.7	111.6	115.5	117.6	119.3	120.1	120.2	119.2	117.8
73°	103.4	104.1	105.6	107.3	111.2	113.4	115.1	115.8	115.9	115.0	113.5
73.5°	99.2	99.8	101.3	103.1	107.3	109.4	111.0	111.7	111.8	110.9	109.5
74°	95.0	95.7	97.1	98.9	103.1	105.2	107.0	107.5	107.7	106.7	105.4
74.5°	90.8	91.5	92.9	94.7	98.9	101.0	102.7	103.4	103.5	102.7	101.1
75°	86.7	87.3	88.8	90.6	94.8	96.8	98.5	99.2	99.2	98.4	97.0
75.5°	82.6	83.2	84.7	86.6	90.5	92.7	94.3	95.1	95.1	94.2	92.8
76°	78.4	79.0	80.5	82.3	86.4	88.5	90.1	90.9	91.0	90.1	88.6
76.5°	74.2	75.0	76.4	78.2	82.3	84.5	86.0	86.7	86.8	86.0	84.4
77°	70.1	70.8	72.4	74.2	78.2	80.3	81.9	82.7	82.6	81.9	80.5
77.5°	66.3	67.0	68.4	70.2	74.1	76.2	77.9	78.5	78.6	77.8	76.3
78°	62.2	62.9	64.3	66.0	70.1	72.2	73.8	74.4	74.5	73.6	72.2
78.5°	58.2	58.9	60.4	62.3	66.0	68.0	69.7	70.4	70.4	69.6	68.1
79°	54.4	55.1	56.5	58.3	62.2	64.0	65.6	66.3	66.3	65.6	64.2
79.5°	50.5	51.1	52.6	54.4	58.2	60.2	61.8	62.5	62.5	61.7	60.2
80°	46.7	47.3	48.8	50.5	54.2	56.3	57.8	58.5	58.6	57.8	56.4
80.5°	42.9	43.6	45.0	46.7	50.5	52.5	54.0	54.7	54.7	53.8	52.4
81°	39.3	40.0	41.3	43.0	46.7	48.6	50.1	50.8	50.8	50.1	48.7
81.5°	35.8	36.5	37.7	39.4	43.0	44.8	46.3	47.0	46.9	46.1	44.8
82°	32.3	32.9	34.2	35.7	39.2	41.2	42.5	43.2	43.3	42.5	41.1
82.5°	29.0	29.6	30.8	32.4	35.8	37.6	38.9	39.6	39.6	38.8	37.5
83°	25.7	26.3	27.5	28.9	32.3	34.1	35.5	36.2	36.1	35.4	34.1
83.5°	22.6	23.2	24.3	25.7	28.9	30.6	32.0	32.7	32.6	31.8	30.6
84°	19.6	20.2	21.3	22.6	25.5	27.3	28.6	29.2	29.2	28.4	27.2
84.5°	16.8	17.4	18.4	19.8	22.5	24.0	25.3	25.9	25.9	25.2	24.0
85°	14.3	14.8	15.8	16.9	19.5	21.0	22.2	22.8	22.8	22.0	21.1
85.5°	11.8	12.2	13.2	14.4	16.7	18.1	19.2	19.7	19.7	19.1	18.0
86°	9.6	9.9	10.8	11.8	14.2	15.4	16.4	16.9	16.8	16.2	15.3
86.5°	7.2	7.6	8.5	9.6	11.9	13.0	14.0	14.4	14.4	13.8	12.8
87°	5.2	5.5	6.2	7.3	9.6	10.7	11.7	12.1	12.1	11.6	10.6
87.5°	3.8	3.9	4.5	5.3	7.5	8.6	9.4	9.8	9.7	9.3	8.4
88°	2.3	2.6	3.0	3.8	5.6	6.5	7.3	7.7	7.6	7.2	6.5
88.5°	1.4	1.6	1.9	2.5	3.9	4.7	5.3	5.7	5.6	5.2	4.6
89°	0.9	0.9	1.2	1.5	2.4	3.2	3.7	4.0	3.9	3.6	3.1
89.5°	0.6	0.5	0.6	0.8	1.3	1.9	2.3	2.5	2.5	2.2	1.8

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



TEST NUMBER: P869652
CATALOG NUMBER: SMX14RLSFSD2W-1300LM-3000K

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: P869652
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	466.3	466.3	466.3	466.3	466.3	466.3
0.5°	466.3	466.7	466.5	466.3	466.4	466.1
1°	466.3	466.7	466.4	466.2	466.3	466.1
1.5°	466.4	466.7	466.4	465.9	465.8	466.0
2°	466.1	466.4	466.1	466.0	465.8	465.8
2.5°	465.9	466.2	466.0	465.7	465.5	465.4
3°	465.7	465.8	465.9	465.5	465.6	465.3
3.5°	465.7	465.7	465.5	465.3	465.4	465.2
4°	465.4	465.4	465.1	464.7	464.5	464.9
4.5°	465.0	465.1	465.0	464.4	464.5	464.4
5°	464.5	464.9	464.5	464.0	463.8	463.8
5.5°	464.4	464.2	464.3	463.7	463.7	463.3
6°	463.9	463.8	463.7	463.2	463.3	463.0
6.5°	463.3	463.1	463.1	462.6	462.7	462.6
7°	462.7	462.7	462.6	462.2	462.3	462.1
7.5°	462.2	462.2	462.1	461.6	461.9	461.6
8°	461.6	461.4	461.4	461.0	461.4	460.9
8.5°	461.1	460.9	460.6	460.4	460.5	460.2
9°	460.6	460.4	460.2	459.5	459.7	459.4
9.5°	459.9	459.7	459.4	458.7	458.9	458.5
10°	459.0	458.7	458.6	458.2	458.2	457.8
10.5°	458.3	458.1	457.8	457.2	457.0	456.9
11°	457.5	457.2	457.0	456.5	456.1	456.5
11.5°	456.6	456.3	456.1	455.5	455.4	455.2
12°	455.7	455.5	455.2	454.7	454.6	454.3
12.5°	454.8	454.6	454.3	453.5	453.5	453.1
13°	453.7	453.8	453.3	452.7	452.6	452.4
13.5°	452.7	452.6	452.2	451.6	451.6	451.2
14°	451.8	451.5	451.4	450.5	450.2	450.3
14.5°	450.5	450.5	450.2	449.4	449.3	448.8
15°	449.5	449.4	449.0	448.2	448.0	448.0
15.5°	448.6	448.2	447.8	447.0	446.9	446.7
16°	447.3	447.1	446.5	445.7	445.7	445.4
16.5°	446.1	445.8	445.2	444.4	444.3	444.3
17°	444.9	444.5	443.8	443.3	443.1	443.1
17.5°	443.8	443.1	442.7	441.9	441.9	441.7
18°	442.3	441.9	441.0	440.5	440.3	440.3
18.5°	441.0	440.6	440.0	439.1	439.1	438.8
19°	439.6	439.1	438.5	437.8	437.5	437.4
19.5°	438.0	437.6	437.2	436.5	436.1	435.8
20°	436.7	436.2	435.5	434.8	434.6	434.4
20.5°	435.2	434.5	433.9	433.2	433.1	432.9
21°	433.5	433.0	432.4	431.7	431.2	431.4
21.5°	431.8	431.4	430.7	430.0	429.7	429.7
22°	430.2	429.8	429.0	428.3	427.7	427.8

TEST NUMBER: P869652
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	428.5	428.0	427.4	426.4	426.2	426.3
23°	426.9	426.5	425.7	424.7	424.4	424.6
23.5°	425.1	424.7	424.1	423.0	422.7	422.7
24°	423.4	423.0	422.1	421.1	420.8	420.9
24.5°	421.8	421.0	420.4	419.2	418.9	418.9
25°	420.1	419.3	418.6	417.7	417.3	417.3
25.5°	418.2	417.6	416.5	415.6	415.4	415.2
26°	416.1	415.7	414.6	413.9	413.4	413.3
26.5°	414.0	413.5	412.7	411.7	411.4	411.3
27°	412.2	411.5	410.8	409.6	409.3	409.5
27.5°	410.5	409.4	408.6	407.7	407.3	407.2
28°	408.0	407.4	406.7	405.3	404.9	405.0
28.5°	406.1	405.4	404.5	403.3	402.6	402.9
29°	404.1	403.2	402.2	401.2	400.6	400.7
29.5°	402.0	401.0	400.1	398.9	398.5	398.3
30°	399.9	398.9	398.1	396.7	396.4	396.2
30.5°	397.6	396.8	395.9	394.7	394.1	394.3
31°	395.5	394.4	393.2	392.4	391.9	392.0
31.5°	393.4	391.8	391.1	390.2	389.6	389.6
32°	391.0	389.8	388.8	387.8	387.1	387.4
32.5°	388.7	387.4	386.6	385.3	384.8	385.0
33°	386.3	385.0	384.2	383.0	382.5	382.5
33.5°	383.9	382.5	381.6	380.5	379.9	379.8
34°	381.4	380.3	379.0	377.9	377.5	377.5
34.5°	379.2	377.6	376.6	375.4	374.7	374.8
35°	376.5	375.2	373.9	373.0	372.4	372.4
35.5°	374.1	372.8	371.8	370.5	369.8	369.8
36°	371.4	370.3	369.1	367.7	367.3	367.3
36.5°	369.1	367.4	366.3	365.0	364.5	364.7
37°	366.3	364.9	363.5	362.7	362.0	362.1
37.5°	364.0	362.5	361.2	360.1	359.3	359.2
38°	361.0	359.6	358.3	357.1	356.4	356.4
38.5°	358.4	356.8	355.5	354.3	353.8	353.8
39°	355.5	354.1	352.7	351.8	351.2	351.1
39.5°	353.0	351.2	350.1	348.9	348.3	348.4
40°	350.0	348.7	347.4	346.1	345.6	345.5
40.5°	347.5	345.9	344.4	343.3	342.8	342.5
41°	344.5	343.0	341.4	340.3	339.8	339.6
41.5°	341.9	340.0	338.5	337.4	336.7	336.7
42°	338.8	337.0	335.7	334.3	333.8	333.8
42.5°	335.8	334.1	332.7	331.4	330.8	330.7
43°	333.0	331.0	329.7	328.4	327.8	327.6
43.5°	330.0	328.0	326.9	325.3	324.9	324.8
44°	326.9	325.1	323.7	322.2	321.7	321.9
44.5°	324.0	322.0	320.6	319.2	318.5	318.5

TEST NUMBER: P869652
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	320.9	318.9	317.5	316.2	315.5	315.5
45.5°	317.8	315.7	314.4	312.8	312.6	312.5
46°	314.6	312.8	311.1	309.9	309.2	309.2
46.5°	311.5	309.3	308.0	306.7	305.8	306.1
47°	308.4	306.3	304.7	303.5	302.6	302.8
47.5°	305.1	303.1	301.5	300.4	299.4	299.7
48°	301.9	299.8	298.3	297.1	296.3	296.3
48.5°	298.8	296.5	295.0	293.7	293.2	293.0
49°	295.5	293.4	291.7	290.3	289.8	289.8
49.5°	292.1	290.0	288.5	287.0	286.2	286.4
50°	288.8	286.5	284.9	283.7	282.9	282.8
50.5°	285.3	283.1	281.6	280.3	279.6	279.5
51°	282.0	279.8	278.2	276.8	276.3	276.1
51.5°	278.9	276.4	274.8	273.4	272.6	272.6
52°	275.3	273.0	271.4	270.0	269.1	269.0
52.5°	271.8	269.3	267.9	266.5	265.7	265.5
53°	268.3	265.9	264.4	262.9	262.0	262.1
53.5°	264.8	262.4	260.7	259.2	258.4	258.5
54°	261.2	258.7	257.2	255.7	254.9	254.9
54.5°	257.8	255.2	253.7	252.2	251.5	251.4
55°	254.2	251.7	250.0	248.6	247.9	247.8
55.5°	250.7	247.9	246.3	245.1	244.2	244.1
56°	247.1	244.2	242.8	241.2	240.4	240.4
56.5°	243.4	240.7	238.9	237.4	236.8	236.6
57°	239.7	237.0	235.3	233.7	232.9	232.8
57.5°	236.0	233.2	231.4	229.9	229.0	229.0
58°	232.2	229.4	227.6	226.1	225.4	225.5
58.5°	228.6	225.6	223.8	222.2	221.5	221.5
59°	224.8	221.8	219.9	218.4	217.7	217.7
59.5°	220.8	218.1	216.3	214.4	213.6	213.7
60°	217.0	214.0	212.2	210.6	209.9	209.8
60.5°	213.2	210.2	208.3	206.6	206.0	206.1
61°	209.3	206.3	204.5	203.0	202.1	202.3
61.5°	205.5	202.4	200.6	199.0	198.2	198.2
62°	201.7	198.4	196.7	195.0	194.2	194.2
62.5°	197.7	194.4	192.6	190.8	190.1	190.1
63°	193.8	190.5	188.6	186.9	186.2	186.1
63.5°	189.8	186.3	184.6	183.0	182.2	182.1
64°	185.8	182.4	180.6	179.1	178.3	178.0
64.5°	181.8	178.5	176.6	175.0	174.2	174.2
65°	177.9	174.5	172.5	170.9	170.1	170.1
65.5°	173.9	170.3	168.5	166.8	166.1	166.0
66°	169.7	166.3	164.3	162.5	161.8	161.8
66.5°	165.5	162.1	160.1	158.5	157.7	157.7
67°	161.6	158.2	156.1	154.5	153.6	153.8

TEST NUMBER: P869652
 CATALOG NUMBER: SMX14RLSFSD2W-1300LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	157.7	153.9	151.9	150.5	149.4	149.5
68°	153.5	149.8	147.7	146.1	145.4	145.4
68.5°	149.4	145.7	143.6	141.9	141.1	141.1
69°	145.1	141.4	139.3	137.9	136.8	136.9
69.5°	141.1	137.3	135.2	133.5	132.6	132.8
70°	137.0	133.1	131.1	129.3	128.7	128.5
70.5°	132.8	128.9	126.9	125.3	124.5	124.4
71°	128.6	124.6	122.7	121.0	120.1	120.2
71.5°	124.5	120.4	118.5	116.8	115.8	115.9
72°	120.3	116.3	114.3	112.6	111.8	111.8
72.5°	116.1	112.1	110.2	108.5	107.7	107.7
73°	111.8	107.9	105.8	104.1	103.5	103.4
73.5°	107.7	103.7	101.7	100.0	99.1	99.2
74°	103.6	99.6	97.4	95.8	94.9	95.0
74.5°	99.4	95.3	93.4	91.6	90.7	90.8
75°	95.1	91.1	89.1	87.5	86.8	86.7
75.5°	91.0	87.0	85.0	83.3	82.3	82.6
76°	86.8	82.7	80.8	79.2	78.4	78.4
76.5°	82.7	78.6	76.6	75.1	74.3	74.2
77°	78.6	74.6	72.7	71.0	70.1	70.1
77.5°	74.5	70.6	68.6	67.1	66.3	66.3
78°	70.4	66.4	64.5	63.0	62.2	62.2
78.5°	66.3	62.5	60.7	59.1	58.3	58.2
79°	62.4	58.6	56.7	55.2	54.4	54.4
79.5°	58.4	54.6	52.8	51.2	50.5	50.5
80°	54.6	50.7	48.8	47.3	46.6	46.7
80.5°	50.7	47.0	45.2	43.6	42.9	42.9
81°	46.9	43.2	41.3	40.0	39.3	39.3
81.5°	43.1	39.6	37.9	36.4	35.7	35.8
82°	39.5	36.1	34.3	32.9	32.3	32.3
82.5°	36.0	32.7	31.0	29.7	29.0	29.0
83°	32.5	29.1	27.6	26.3	25.7	25.7
83.5°	29.0	25.9	24.4	23.2	22.6	22.6
84°	25.7	22.9	21.3	20.2	19.6	19.6
84.5°	22.6	19.9	18.5	17.4	16.8	16.8
85°	19.6	17.0	15.8	14.8	14.4	14.3
85.5°	16.7	14.5	13.3	12.3	11.8	11.8
86°	14.2	12.0	10.8	9.9	9.5	9.6
86.5°	11.9	9.7	8.5	7.6	7.2	7.2
87°	9.6	7.4	6.3	5.6	5.2	5.2
87.5°	7.4	5.3	4.6	4.0	3.8	3.8
88°	5.6	3.8	3.2	2.6	2.4	2.3
88.5°	3.8	2.5	2.0	1.7	1.5	1.4
89°	2.5	1.6	1.2	0.9	0.8	0.9
89.5°	1.3	0.9	0.7	0.6	0.8	0.6

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869652
CATALOG NUMBER: SMX14RLSFSD2W-1300LM-3000K

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)