

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: P869639

Luminaire Tested: **SMX14RLSFS010-1300LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869639
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFS010-1300LM-4000K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

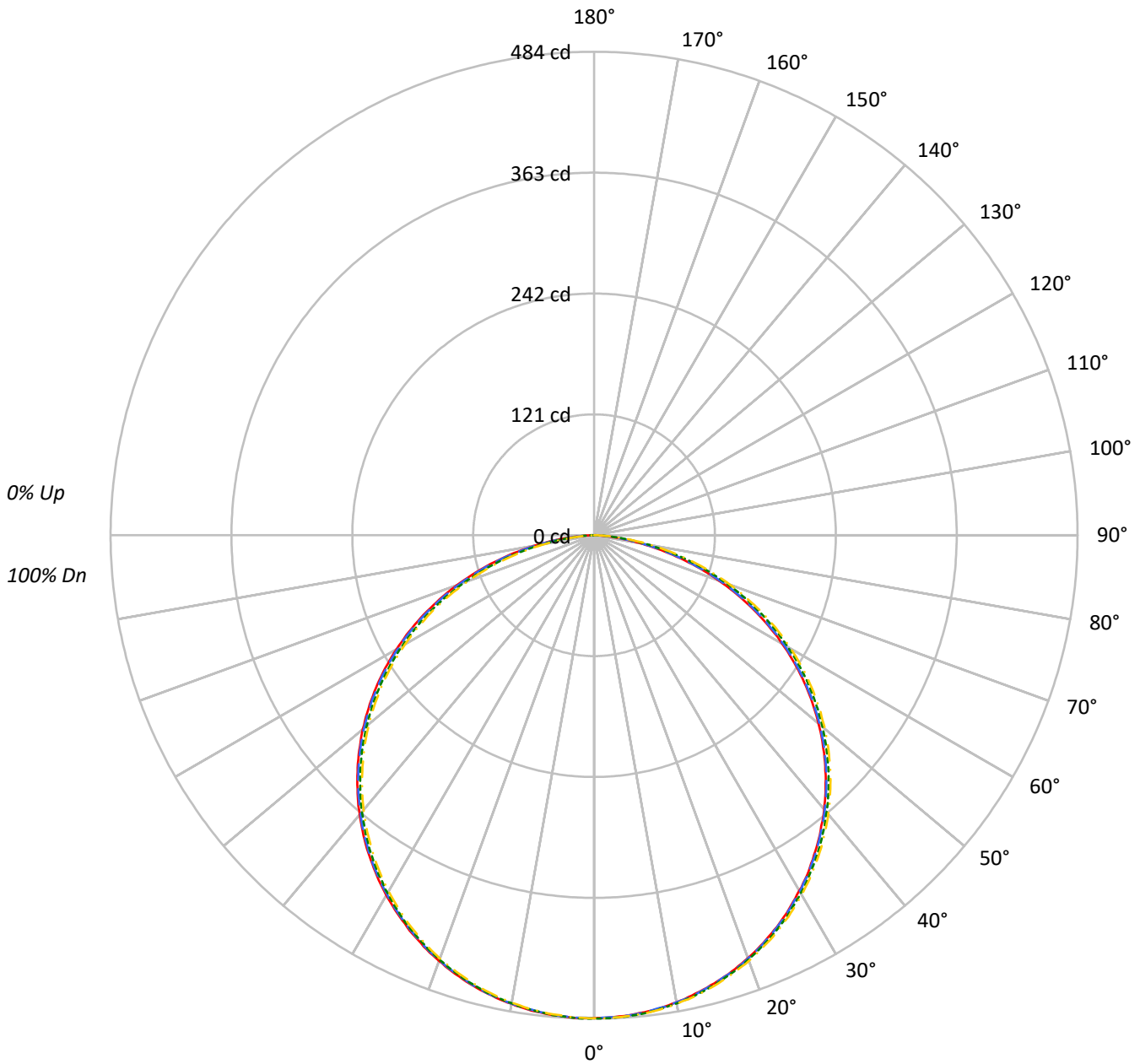
Lumens per Lamp: N/A
 Luminaire Lumens: 1415.8 lumens
 Efficiency: N/A
 Efficacy: 97.6 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 14.5
 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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4866	4866	4866	4866
5°	4859	4871	4870	4870
10°	4851	4864	4867	4861
15°	4840	4855	4865	4855
20°	4824	4839	4858	4844
25°	4806	4828	4850	4828
30°	4774	4808	4834	4806
35°	4744	4787	4816	4780
40°	4707	4758	4795	4750
45°	4655	4723	4768	4706
50°	4592	4672	4733	4650
55°	4507	4611	4677	4579
60°	4380	4512	4595	4466
65°	4198	4374	4479	4308
70°	3922	4157	4296	4060
75°	3495	3822	4001	3674
80°	2811	3257	3518	3042
85°	1709	2332	2725	2032

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	3.2
10°-20°	131.5	9.3
20°-30°	200.3	14.1
30°-40°	243.5	17.2
40°-50°	255.4	18.0
50°-60°	233.7	16.5
60°-70°	180.0	12.7
70°-80°	101.8	7.2
80°-90°	23.8	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
0°-30°	377.6	26.7
0°-40°	621.1	43.9
0°-60°	1110.2	78.4
0°-90°	1415.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	484	484	484	484	484	
5°	481	482	482	482	481	46
15°	465	466	467	466	465	131
25°	433	435	437	435	433	199
35°	386	390	392	389	386	242
45°	327	332	335	331	327	252
55°	257	263	267	261	257	229
65°	176	184	188	181	176	174
75°	90	98	103	94	90	95
85°	15	20	24	18	15	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5
0.5°	483.3	483.2	483.2	483.7	483.8	484.0	483.7	483.5	483.4	483.2	483.4
1°	483.4	482.9	483.1	483.8	483.8	483.8	483.7	483.4	483.6	483.3	483.1
1.5°	483.2	483.1	483.0	483.4	483.7	483.8	483.7	483.5	483.7	483.1	483.2
2°	483.1	482.6	482.8	483.1	483.8	483.7	483.4	483.5	483.6	482.9	483.2
2.5°	482.6	482.6	482.9	483.2	483.4	483.5	483.3	483.3	483.4	482.9	483.0
3°	482.4	482.3	482.6	482.8	483.2	483.3	483.0	483.1	483.2	482.9	482.8
3.5°	482.4	482.1	482.4	482.6	483.2	483.2	482.9	482.9	482.8	482.7	482.6
4°	482.1	481.7	482.1	482.3	482.8	482.8	482.6	482.6	482.4	482.5	482.6
4.5°	481.5	481.2	481.7	481.8	482.4	482.5	482.3	482.4	482.2	482.2	482.0
5°	481.0	480.6	481.2	481.7	482.2	482.0	482.0	482.1	482.1	481.8	481.8
5.5°	480.4	480.2	480.8	480.9	481.6	481.7	481.5	481.5	481.6	481.5	481.4
6°	480.1	479.7	480.3	480.3	481.2	481.1	481.2	481.2	481.2	481.1	480.9
6.5°	479.7	479.3	480.0	480.0	480.6	480.7	480.9	480.8	480.7	480.7	480.4
7°	479.2	478.8	479.0	479.3	480.1	479.9	480.4	480.2	480.4	480.2	479.8
7.5°	478.7	478.2	478.3	478.7	479.4	479.3	479.7	479.6	480.1	479.7	479.1
8°	477.9	477.6	477.6	478.2	478.7	478.7	479.2	479.2	479.4	479.2	478.9
8.5°	477.2	476.9	477.3	477.6	478.2	478.0	478.3	478.3	478.4	478.4	478.1
9°	476.4	476.2	476.5	476.7	477.3	477.7	478.0	477.7	477.8	477.5	477.6
9.5°	475.5	475.4	475.6	476.1	476.7	476.7	477.0	477.0	477.3	477.0	476.7
10°	474.7	474.7	474.7	475.5	476.0	476.0	476.4	476.4	476.3	476.5	476.1
10.5°	473.8	473.9	474.1	474.5	475.2	475.3	475.4	475.6	475.8	475.6	475.3
11°	473.3	472.8	473.3	473.8	474.2	474.4	474.5	474.7	475.0	474.7	474.5
11.5°	472.0	471.9	472.7	472.7	473.4	473.4	474.0	473.9	474.2	473.7	473.5
12°	471.1	471.0	471.5	471.8	472.7	472.5	473.1	473.0	473.3	472.9	472.7
12.5°	469.9	470.2	470.5	470.8	471.4	471.8	471.9	472.3	472.0	472.2	471.8
13°	469.1	469.1	469.4	469.5	470.4	470.9	471.1	471.3	471.4	471.1	471.0
13.5°	467.9	467.9	468.4	468.8	469.4	469.8	470.0	470.2	470.4	469.9	469.9
14°	466.9	466.8	467.2	467.7	468.3	468.6	468.9	468.9	469.3	468.9	468.6
14.5°	465.4	465.5	466.0	466.8	467.1	467.4	468.0	468.2	468.2	468.1	467.6
15°	464.6	464.3	465.0	465.1	466.0	466.3	466.6	467.2	467.0	466.8	466.7
15.5°	463.2	463.0	463.5	464.0	464.7	465.0	465.5	465.8	466.0	465.6	465.2
16°	461.9	462.0	462.1	462.9	463.5	463.8	464.3	464.3	464.8	464.3	463.8
16.5°	460.7	460.8	460.8	461.5	462.0	462.4	463.0	463.0	463.4	463.2	462.6
17°	459.5	459.5	459.8	460.3	460.8	461.0	461.8	461.8	461.9	462.1	461.4
17.5°	458.0	458.1	458.5	459.2	459.3	459.9	460.6	460.6	460.8	460.4	460.3
18°	456.6	456.5	457.0	457.6	458.2	458.6	459.2	459.3	459.5	459.3	458.7
18.5°	455.0	454.9	455.6	455.9	456.6	457.2	457.5	457.8	457.9	457.9	457.5
19°	453.6	453.4	454.2	454.4	455.0	455.7	456.1	456.3	456.7	456.3	455.8
19.5°	451.9	452.0	452.5	453.1	453.6	454.0	454.9	454.9	454.8	455.1	454.4
20°	450.5	450.3	450.9	451.4	451.9	452.8	453.4	453.6	453.6	453.5	453.0
20.5°	448.9	448.6	449.2	450.0	450.4	451.1	451.7	452.1	451.9	452.0	451.5
21°	447.4	447.2	447.5	448.2	448.8	449.3	450.2	450.5	450.5	450.3	449.7
21.5°	445.6	445.4	446.0	446.6	447.3	447.9	448.5	448.9	449.1	448.6	448.2
22°	443.7	443.9	444.4	444.7	445.4	446.2	447.1	447.2	447.3	446.9	446.4

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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°	442.1	441.9	442.6	443.0	443.8	444.4	445.1	445.5	445.7	445.3	444.9
23°	440.2	440.1	440.5	441.5	442.1	442.6	443.5	444.0	443.7	443.7	443.0
23.5°	438.3	438.3	438.6	439.5	440.2	440.7	441.8	441.9	441.9	442.1	441.1
24°	436.5	436.5	437.0	437.6	438.5	439.2	440.1	440.2	440.2	440.3	439.4
24.5°	434.4	434.7	435.0	435.7	436.7	437.1	438.1	438.5	438.5	438.2	437.6
25°	432.8	432.5	433.3	433.7	434.8	435.3	436.3	436.6	436.8	436.6	435.6
25.5°	430.6	430.8	431.1	431.8	432.6	433.5	434.3	434.8	434.7	434.6	433.7
26°	428.6	428.9	429.1	429.9	430.8	431.7	432.3	432.8	432.5	432.8	431.9
26.5°	426.5	426.5	426.9	427.8	428.8	429.5	430.5	430.8	430.6	430.6	429.8
27°	424.7	424.6	425.0	425.5	427.1	427.4	428.5	428.9	428.6	428.7	427.6
27.5°	422.2	422.3	422.9	423.4	424.8	425.3	426.2	426.7	426.6	426.6	425.7
28°	420.0	420.2	420.8	421.4	422.4	423.5	424.3	424.7	424.6	424.5	423.6
28.5°	417.7	417.9	418.4	419.0	420.4	421.2	422.1	422.4	422.4	422.2	421.5
29°	415.6	415.9	416.2	417.0	418.2	419.0	420.1	420.4	420.4	420.1	419.4
29.5°	413.0	413.3	414.0	414.8	416.2	416.7	417.9	418.2	418.4	418.2	417.2
30°	410.8	411.1	411.6	412.6	413.8	414.6	415.7	416.0	416.0	415.9	414.8
30.5°	408.9	408.9	409.6	410.4	411.7	412.3	413.3	413.8	413.7	413.7	412.7
31°	406.4	406.9	406.9	407.8	409.6	409.9	411.0	411.8	411.4	411.5	410.5
31.5°	404.0	404.1	404.7	405.6	407.0	407.8	408.9	409.2	409.2	409.4	408.3
32°	401.8	401.9	402.4	403.3	404.6	405.5	406.8	407.0	407.1	407.1	405.8
32.5°	399.3	399.5	399.6	400.5	402.0	403.0	404.2	404.9	404.4	404.4	403.6
33°	396.6	397.1	397.2	398.2	399.7	400.4	401.8	402.3	401.8	402.1	401.1
33.5°	393.9	394.4	394.8	395.8	397.1	397.9	399.1	400.0	399.5	399.5	398.7
34°	391.5	391.9	392.1	393.3	394.9	395.6	396.7	397.5	397.0	397.1	396.1
34.5°	388.7	389.2	389.8	390.7	392.3	393.1	394.3	395.0	394.5	394.5	393.6
35°	386.2	386.6	387.2	388.0	389.7	390.4	391.8	392.2	392.0	392.0	391.2
35.5°	383.5	383.8	384.5	385.3	387.0	388.0	389.0	389.6	389.6	389.5	388.6
36°	380.9	381.1	381.6	382.6	384.4	385.4	386.7	387.1	387.1	386.8	385.9
36.5°	378.2	378.3	379.1	380.0	382.0	382.5	384.0	384.5	384.5	384.5	383.2
37°	375.5	375.6	376.2	377.3	379.1	380.0	381.3	382.0	381.7	381.7	380.8
37.5°	372.4	372.9	373.4	374.5	376.2	377.3	378.5	379.1	379.0	378.9	378.0
38°	369.5	370.1	370.7	371.7	373.5	374.8	376.0	376.4	376.1	376.0	375.4
38.5°	366.9	367.3	367.8	368.7	370.7	371.8	373.2	373.6	373.6	373.3	372.6
39°	364.1	364.2	365.0	365.9	367.8	368.9	370.4	371.0	370.8	370.6	369.6
39.5°	361.3	361.3	362.1	363.1	364.8	366.2	367.7	368.1	367.9	367.8	366.5
40°	358.3	358.7	359.3	360.3	362.2	363.4	364.5	365.3	365.0	365.0	363.7
40.5°	355.1	355.5	356.4	357.4	359.3	360.5	361.7	362.4	362.2	362.0	360.9
41°	352.2	352.8	353.4	354.6	356.5	357.7	358.8	359.6	359.5	359.1	358.1
41.5°	349.2	349.6	350.3	351.7	353.5	354.8	356.0	356.5	356.5	356.1	355.0
42°	346.1	346.6	347.1	348.5	350.4	351.7	352.9	353.5	353.4	353.1	352.1
42.5°	342.9	343.6	344.0	345.4	347.5	348.5	349.9	350.6	350.4	350.3	349.1
43°	339.7	340.3	340.9	342.3	344.4	345.6	347.0	347.7	347.3	347.1	346.1
43.5°	336.8	337.2	337.9	339.2	341.1	342.5	343.7	344.7	344.4	343.9	343.0
44°	333.8	334.0	334.6	336.0	338.0	339.4	340.8	341.4	341.2	340.9	340.0
44.5°	330.2	330.7	331.6	332.9	335.0	336.3	337.5	338.1	338.0	337.7	336.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	327.1	327.4	328.4	329.8	331.9	333.1	334.4	335.0	335.0	334.7	333.6
45.5°	324.0	324.1	325.1	326.5	328.6	329.8	331.2	331.6	331.9	331.5	330.3
46°	320.6	320.9	321.7	323.3	325.2	326.6	328.1	328.6	328.7	328.4	327.3
46.5°	317.4	317.6	318.3	319.7	321.9	323.4	324.8	325.3	325.3	325.1	323.9
47°	314.0	314.3	315.2	316.6	318.6	320.1	321.6	322.0	322.1	321.7	320.6
47.5°	310.7	310.8	311.9	313.3	315.4	316.8	318.2	318.8	318.8	318.5	317.4
48°	307.3	307.5	308.7	309.9	312.1	313.5	315.0	315.6	315.5	315.1	314.3
48.5°	303.9	304.1	305.1	306.5	308.8	310.1	311.6	312.3	312.3	311.8	310.8
49°	300.5	300.6	301.7	303.1	305.3	306.7	308.4	309.0	308.9	308.5	307.5
49.5°	297.0	297.2	298.2	299.7	301.8	303.3	304.8	305.3	305.6	305.2	304.1
50°	293.3	293.6	294.7	296.1	298.4	300.0	301.6	302.2	302.3	301.8	300.5
50.5°	289.8	290.1	291.2	292.8	294.9	296.6	298.1	298.6	298.6	298.3	297.0
51°	286.3	286.5	287.6	289.1	291.6	293.0	294.4	295.2	295.3	294.6	293.7
51.5°	282.6	283.0	284.0	285.6	287.9	289.6	291.0	291.7	291.8	291.2	290.1
52°	279.0	279.4	280.3	282.0	284.6	286.0	287.7	288.4	288.2	287.6	286.7
52.5°	275.3	275.8	276.9	278.4	280.9	282.4	284.0	284.8	284.5	284.1	282.9
53°	271.7	272.2	273.3	274.8	277.3	278.9	280.4	281.2	281.1	280.6	279.4
53.5°	268.0	268.2	269.6	271.0	273.8	275.3	276.6	277.5	277.3	277.0	275.9
54°	264.3	264.4	265.7	267.2	270.1	271.5	273.1	274.0	273.7	273.5	272.1
54.5°	260.7	261.0	262.1	263.5	266.3	268.0	269.6	270.2	270.1	269.7	268.3
55°	256.9	257.3	258.4	260.1	262.8	264.4	266.0	266.8	266.6	266.1	264.8
55.5°	253.1	253.3	254.7	256.1	259.0	260.7	262.2	263.1	262.9	262.3	261.2
56°	249.3	249.6	250.8	252.4	255.4	256.9	258.7	259.5	259.2	258.6	257.4
56.5°	245.3	245.7	247.1	248.5	251.5	253.1	254.7	255.5	255.5	254.7	253.8
57°	241.4	241.9	243.0	244.5	247.6	249.4	251.1	251.9	251.6	251.0	249.9
57.5°	237.5	237.9	239.1	240.7	243.8	245.4	247.1	247.9	247.9	247.2	246.0
58°	233.8	234.0	235.1	236.9	239.9	241.7	243.4	244.1	243.9	243.3	242.2
58.5°	229.7	229.9	231.3	233.0	236.1	237.8	239.4	240.3	240.3	239.4	238.4
59°	225.7	226.2	227.3	229.1	232.2	233.9	235.6	236.4	236.4	235.4	234.4
59.5°	221.6	222.1	223.3	225.0	228.2	230.0	231.6	232.5	232.3	231.7	230.5
60°	217.6	218.1	219.5	221.2	224.2	226.1	227.7	228.5	228.3	227.7	226.4
60.5°	213.7	214.0	215.1	217.0	220.1	222.2	223.8	224.6	224.4	223.8	222.5
61°	209.8	210.2	211.3	213.3	216.1	218.2	219.9	220.6	220.4	219.6	218.7
61.5°	205.5	206.0	207.2	209.1	212.1	214.2	215.7	216.5	216.6	215.7	214.7
62°	201.3	201.9	203.2	204.9	208.4	210.3	211.9	212.6	212.6	211.9	210.7
62.5°	197.1	197.7	198.8	200.7	204.3	206.3	208.0	208.6	208.6	207.8	206.6
63°	193.0	193.7	194.8	196.7	200.1	202.2	203.8	204.6	204.5	203.8	202.6
63.5°	188.9	189.5	190.8	192.5	196.0	198.1	199.8	200.5	200.5	199.7	198.4
64°	184.6	185.3	186.6	188.4	191.8	194.0	195.6	196.2	196.3	195.5	194.4
64.5°	180.6	181.2	182.4	184.3	187.8	189.7	191.5	192.2	192.2	191.4	190.0
65°	176.3	177.0	178.3	180.2	183.7	185.8	187.5	188.1	188.1	187.4	186.2
65.5°	172.1	172.8	174.0	176.1	179.6	181.6	183.3	184.0	184.1	183.3	181.8
66°	167.8	168.4	169.7	171.7	175.2	177.4	179.0	179.8	179.7	179.1	177.7
66.5°	163.6	164.3	165.4	167.3	171.1	173.1	174.7	175.6	175.4	174.6	173.4
67°	159.5	159.9	161.2	163.2	166.8	168.9	170.5	171.4	171.3	170.6	169.1

TEST NUMBER: P869639
 CATALOG NUMBER: SMX14RLSFS010-1300LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	155.0	155.7	157.1	159.0	162.6	164.5	166.2	167.2	167.2	166.4	164.9
68°	150.7	151.3	152.7	154.7	158.3	160.5	162.3	162.9	163.0	162.1	160.8
68.5°	146.4	147.0	148.4	150.4	154.2	156.3	157.9	158.7	158.7	157.9	156.7
69°	142.0	142.6	144.1	146.1	149.9	152.0	153.7	154.5	154.5	153.6	152.5
69.5°	137.7	138.3	139.8	141.6	145.6	147.8	149.5	150.2	150.3	149.3	147.9
70°	133.3	134.0	135.4	137.3	141.3	143.4	145.1	145.9	146.0	145.1	143.6
70.5°	129.0	129.6	131.1	133.2	137.2	139.1	140.8	141.7	141.7	140.9	139.4
71°	124.7	125.1	126.7	128.6	132.8	135.0	136.8	137.5	137.5	136.6	135.2
71.5°	120.2	120.9	122.3	124.2	128.4	130.7	132.3	133.1	133.2	132.3	130.7
72°	116.0	116.5	118.0	119.9	124.0	126.3	128.1	128.7	128.9	127.9	126.4
72.5°	111.7	112.3	113.8	115.7	119.7	122.0	123.7	124.5	124.6	123.6	122.2
73°	107.3	107.9	109.5	111.2	115.4	117.6	119.4	120.0	120.2	119.2	117.7
73.5°	102.9	103.5	105.0	106.9	111.2	113.4	115.1	115.8	115.9	115.0	113.5
74°	98.5	99.2	100.7	102.6	106.9	109.1	110.9	111.5	111.6	110.7	109.3
74.5°	94.1	94.9	96.4	98.2	102.5	104.8	106.5	107.3	107.3	106.5	104.8
75°	89.9	90.5	92.1	93.9	98.3	100.4	102.1	102.9	102.9	102.0	100.6
75.5°	85.6	86.3	87.8	89.8	93.9	96.1	97.8	98.6	98.6	97.7	96.2
76°	81.3	82.0	83.5	85.4	89.6	91.8	93.4	94.3	94.4	93.4	91.9
76.5°	77.0	77.8	79.2	81.1	85.4	87.6	89.2	89.9	90.0	89.1	87.5
77°	72.7	73.5	75.0	76.9	81.1	83.2	84.9	85.7	85.6	84.9	83.4
77.5°	68.7	69.4	70.9	72.8	76.9	79.0	80.8	81.4	81.5	80.6	79.1
78°	64.5	65.2	66.7	68.5	72.7	74.9	76.6	77.2	77.2	76.3	74.9
78.5°	60.4	61.1	62.6	64.6	68.4	70.5	72.3	73.0	73.0	72.2	70.7
79°	56.4	57.1	58.6	60.4	64.5	66.4	68.0	68.8	68.8	68.0	66.6
79.5°	52.4	53.0	54.5	56.4	60.3	62.4	64.1	64.8	64.8	64.0	62.4
80°	48.5	49.0	50.6	52.4	56.2	58.4	60.0	60.7	60.7	59.9	58.5
80.5°	44.5	45.2	46.6	48.4	52.4	54.4	56.0	56.7	56.7	55.8	54.3
81°	40.8	41.5	42.8	44.6	48.4	50.3	51.9	52.7	52.7	51.9	50.5
81.5°	37.1	37.9	39.1	40.9	44.6	46.5	48.0	48.7	48.6	47.8	46.5
82°	33.4	34.1	35.5	37.0	40.7	42.7	44.1	44.8	44.9	44.0	42.6
82.5°	30.0	30.7	32.0	33.6	37.1	39.0	40.4	41.0	41.0	40.3	38.9
83°	26.6	27.3	28.5	30.0	33.5	35.4	36.8	37.6	37.5	36.7	35.3
83.5°	23.5	24.0	25.2	26.6	30.0	31.7	33.1	33.9	33.8	33.0	31.7
84°	20.3	21.0	22.1	23.5	26.5	28.3	29.6	30.3	30.3	29.4	28.2
84.5°	17.5	18.1	19.1	20.5	23.3	24.9	26.3	26.9	26.8	26.1	24.9
85°	14.8	15.4	16.4	17.5	20.2	21.8	23.0	23.7	23.6	22.9	21.8
85.5°	12.2	12.6	13.7	14.9	17.3	18.7	19.9	20.4	20.4	19.8	18.7
86°	9.9	10.2	11.2	12.3	14.8	15.9	17.0	17.5	17.5	16.8	15.9
86.5°	7.5	7.9	8.8	9.9	12.3	13.5	14.5	15.0	15.0	14.4	13.3
87°	5.4	5.7	6.4	7.5	10.0	11.1	12.1	12.6	12.5	12.0	11.0
87.5°	4.0	4.1	4.7	5.5	7.8	8.9	9.8	10.2	10.1	9.6	8.8
88°	2.4	2.7	3.2	4.0	5.8	6.7	7.5	8.0	7.9	7.4	6.7
88.5°	1.5	1.6	2.0	2.6	4.0	4.9	5.5	5.9	5.8	5.4	4.7
89°	0.9	1.0	1.2	1.5	2.5	3.3	3.8	4.1	4.1	3.7	3.2
89.5°	0.6	0.5	0.7	0.9	1.4	2.0	2.4	2.6	2.6	2.3	1.8

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



TEST NUMBER: P869639
CATALOG NUMBER: SMX14RLSFS010-1300LM-4000K

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: P869639
 CATALOG NUMBER: SMX14RLSFS010-1300LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	483.5	483.5	483.5	483.5	483.5	483.5
0.5°	483.5	484.0	483.8	483.5	483.7	483.3
1°	483.5	484.0	483.7	483.4	483.5	483.4
1.5°	483.6	483.9	483.6	483.1	483.1	483.2
2°	483.4	483.7	483.4	483.2	483.1	483.1
2.5°	483.1	483.4	483.2	482.9	482.8	482.6
3°	482.9	483.0	483.1	482.8	482.8	482.4
3.5°	482.9	482.9	482.8	482.5	482.6	482.4
4°	482.6	482.6	482.3	481.8	481.7	482.1
4.5°	482.1	482.3	482.2	481.5	481.7	481.5
5°	481.7	482.1	481.7	481.2	480.9	481.0
5.5°	481.6	481.4	481.5	480.9	480.9	480.4
6°	481.0	480.9	480.8	480.3	480.4	480.1
6.5°	480.4	480.2	480.3	479.7	479.8	479.7
7°	479.8	479.8	479.7	479.3	479.3	479.2
7.5°	479.3	479.3	479.2	478.7	479.0	478.7
8°	478.6	478.5	478.5	478.1	478.4	477.9
8.5°	478.2	477.9	477.6	477.4	477.5	477.2
9°	477.6	477.4	477.2	476.5	476.7	476.4
9.5°	476.9	476.7	476.4	475.6	475.9	475.5
10°	475.9	475.7	475.5	475.2	475.1	474.7
10.5°	475.2	475.0	474.7	474.1	473.9	473.8
11°	474.4	474.1	473.9	473.4	473.0	473.3
11.5°	473.4	473.2	473.0	472.4	472.2	472.0
12°	472.5	472.3	472.0	471.5	471.4	471.1
12.5°	471.6	471.4	471.1	470.3	470.2	469.9
13°	470.5	470.6	470.0	469.4	469.3	469.1
13.5°	469.4	469.4	468.9	468.3	468.3	467.9
14°	468.5	468.2	468.1	467.1	466.9	466.9
14.5°	467.2	467.1	466.8	466.0	465.9	465.4
15°	466.2	466.0	465.6	464.8	464.6	464.6
15.5°	465.2	464.8	464.3	463.5	463.4	463.2
16°	463.8	463.6	463.0	462.2	462.1	461.9
16.5°	462.6	462.3	461.7	460.8	460.7	460.7
17°	461.3	460.9	460.3	459.6	459.5	459.5
17.5°	460.2	459.5	459.1	458.2	458.2	458.0
18°	458.6	458.2	457.3	456.8	456.5	456.6
18.5°	457.3	456.9	456.2	455.3	455.3	455.0
19°	455.8	455.3	454.7	454.0	453.6	453.6
19.5°	454.2	453.7	453.4	452.6	452.2	451.9
20°	452.8	452.3	451.6	450.9	450.7	450.5
20.5°	451.3	450.5	450.0	449.2	449.1	448.9
21°	449.6	449.0	448.3	447.6	447.1	447.4
21.5°	447.8	447.4	446.6	445.9	445.5	445.6
22°	446.1	445.7	444.9	444.1	443.5	443.7

TEST NUMBER: P869639
 CATALOG NUMBER: SMX14RLSFS010-1300LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	444.3	443.8	443.2	442.2	441.9	442.1
23°	442.7	442.3	441.5	440.4	440.1	440.2
23.5°	440.9	440.4	439.8	438.6	438.4	438.3
24°	439.0	438.6	437.7	436.7	436.4	436.5
24.5°	437.4	436.6	435.9	434.7	434.4	434.4
25°	435.6	434.8	434.0	433.1	432.7	432.8
25.5°	433.6	433.0	431.9	431.0	430.8	430.6
26°	431.5	431.1	430.0	429.2	428.6	428.6
26.5°	429.3	428.8	427.9	426.9	426.6	426.5
27°	427.4	426.7	426.0	424.7	424.4	424.7
27.5°	425.7	424.5	423.7	422.7	422.3	422.2
28°	423.1	422.4	421.7	420.2	419.8	420.0
28.5°	421.1	420.4	419.5	418.2	417.5	417.7
29°	419.1	418.1	417.1	416.0	415.4	415.6
29.5°	416.9	415.9	414.9	413.6	413.2	413.0
30°	414.6	413.6	412.8	411.4	411.1	410.8
30.5°	412.3	411.4	410.5	409.2	408.7	408.9
31°	410.1	409.0	407.8	406.9	406.4	406.4
31.5°	407.9	406.3	405.6	404.6	404.0	404.0
32°	405.4	404.2	403.2	402.1	401.4	401.8
32.5°	403.1	401.8	400.9	399.6	399.0	399.3
33°	400.5	399.3	398.4	397.1	396.6	396.6
33.5°	398.0	396.6	395.7	394.6	394.0	393.9
34°	395.5	394.4	393.0	391.8	391.4	391.5
34.5°	393.2	391.6	390.5	389.3	388.6	388.7
35°	390.4	389.1	387.7	386.7	386.1	386.2
35.5°	388.0	386.6	385.5	384.2	383.5	383.5
36°	385.2	383.9	382.7	381.3	380.8	380.9
36.5°	382.7	381.0	379.8	378.5	378.0	378.2
37°	379.8	378.4	376.9	376.1	375.4	375.5
37.5°	377.5	375.9	374.6	373.4	372.6	372.4
38°	374.4	372.9	371.5	370.3	369.6	369.5
38.5°	371.7	370.0	368.6	367.4	366.9	366.9
39°	368.7	367.2	365.7	364.8	364.2	364.1
39.5°	366.1	364.2	363.0	361.7	361.2	361.3
40°	363.0	361.6	360.2	358.9	358.3	358.3
40.5°	360.3	358.6	357.1	356.0	355.5	355.1
41°	357.2	355.7	354.0	352.9	352.3	352.2
41.5°	354.5	352.6	351.0	349.8	349.1	349.2
42°	351.3	349.5	348.1	346.6	346.2	346.1
42.5°	348.2	346.4	345.0	343.6	343.0	342.9
43°	345.3	343.2	341.9	340.5	339.9	339.7
43.5°	342.2	340.2	339.0	337.4	336.9	336.8
44°	338.9	337.1	335.7	334.1	333.6	333.8
44.5°	336.0	333.9	332.5	331.0	330.3	330.2

TEST NUMBER: P869639
 CATALOG NUMBER: SMX14RLSFS010-1300LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	332.7	330.7	329.2	327.9	327.2	327.1
45.5°	329.5	327.4	326.0	324.4	324.1	324.0
46°	326.2	324.3	322.6	321.4	320.6	320.6
46.5°	323.0	320.8	319.4	318.0	317.1	317.4
47°	319.8	317.7	316.0	314.7	313.8	314.0
47.5°	316.4	314.3	312.6	311.5	310.5	310.7
48°	313.0	310.8	309.3	308.1	307.2	307.3
48.5°	309.9	307.5	305.9	304.6	304.0	303.9
49°	306.5	304.2	302.5	301.1	300.5	300.5
49.5°	302.9	300.7	299.1	297.6	296.8	297.0
50°	299.5	297.0	295.5	294.2	293.4	293.3
50.5°	295.9	293.6	292.1	290.7	289.9	289.8
51°	292.4	290.2	288.5	287.0	286.5	286.3
51.5°	289.2	286.6	285.0	283.5	282.7	282.6
52°	285.5	283.1	281.5	280.0	279.0	279.0
52.5°	281.8	279.3	277.8	276.3	275.5	275.3
53°	278.2	275.7	274.2	272.6	271.7	271.7
53.5°	274.6	272.1	270.3	268.8	268.0	268.0
54°	270.8	268.2	266.7	265.2	264.3	264.3
54.5°	267.3	264.6	263.1	261.5	260.8	260.7
55°	263.6	261.0	259.2	257.8	257.0	256.9
55.5°	260.0	257.1	255.4	254.1	253.2	253.1
56°	256.2	253.3	251.7	250.2	249.3	249.3
56.5°	252.4	249.6	247.7	246.2	245.6	245.3
57°	248.5	245.7	244.0	242.3	241.5	241.4
57.5°	244.7	241.8	239.9	238.4	237.5	237.5
58°	240.8	237.9	236.1	234.5	233.7	233.8
58.5°	237.0	234.0	232.1	230.5	229.7	229.7
59°	233.1	230.0	228.0	226.4	225.7	225.7
59.5°	229.0	226.1	224.3	222.3	221.5	221.6
60°	225.0	221.9	220.1	218.4	217.6	217.6
60.5°	221.1	217.9	216.0	214.2	213.6	213.7
61°	217.0	213.9	212.0	210.5	209.6	209.8
61.5°	213.1	209.8	208.0	206.3	205.5	205.5
62°	209.2	205.8	203.9	202.2	201.4	201.3
62.5°	205.0	201.6	199.8	197.9	197.1	197.1
63°	201.0	197.5	195.6	193.9	193.1	193.0
63.5°	196.8	193.2	191.4	189.8	188.9	188.9
64°	192.7	189.2	187.3	185.7	184.9	184.6
64.5°	188.5	185.1	183.1	181.5	180.6	180.6
65°	184.5	180.9	178.8	177.3	176.3	176.3
65.5°	180.4	176.6	174.7	173.0	172.2	172.1
66°	176.0	172.5	170.4	168.5	167.8	167.8
66.5°	171.7	168.1	166.1	164.4	163.6	163.6
67°	167.5	164.0	161.9	160.2	159.3	159.5

TEST NUMBER: P869639
 CATALOG NUMBER: SMX14RLSFS010-1300LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	163.6	159.6	157.5	156.0	154.9	155.0
68°	159.2	155.4	153.1	151.5	150.7	150.7
68.5°	154.9	151.0	148.9	147.1	146.3	146.4
69°	150.5	146.7	144.5	143.0	141.9	142.0
69.5°	146.3	142.4	140.2	138.5	137.5	137.7
70°	142.0	138.0	136.0	134.1	133.5	133.3
70.5°	137.7	133.7	131.6	129.9	129.1	129.0
71°	133.4	129.2	127.2	125.4	124.5	124.7
71.5°	129.1	124.8	122.8	121.1	120.0	120.2
72°	124.7	120.6	118.5	116.8	116.0	116.0
72.5°	120.4	116.3	114.3	112.5	111.6	111.7
73°	115.9	111.9	109.8	108.0	107.3	107.3
73.5°	111.7	107.5	105.5	103.7	102.8	102.9
74°	107.4	103.3	101.0	99.4	98.4	98.5
74.5°	103.1	98.9	96.8	95.0	94.1	94.1
75°	98.6	94.5	92.4	90.7	90.0	89.9
75.5°	94.4	90.2	88.2	86.3	85.4	85.6
76°	90.0	85.8	83.8	82.1	81.3	81.3
76.5°	85.8	81.5	79.4	77.8	77.0	77.0
77°	81.5	77.4	75.3	73.6	72.7	72.7
77.5°	77.2	73.2	71.1	69.6	68.7	68.7
78°	73.0	68.9	66.9	65.4	64.5	64.5
78.5°	68.8	64.8	62.9	61.2	60.5	60.4
79°	64.7	60.7	58.8	57.2	56.4	56.4
79.5°	60.6	56.6	54.7	53.1	52.4	52.4
80°	56.6	52.5	50.6	49.1	48.3	48.5
80.5°	52.6	48.7	46.8	45.2	44.5	44.5
81°	48.6	44.8	42.9	41.5	40.8	40.8
81.5°	44.7	41.1	39.3	37.8	37.0	37.1
82°	40.9	37.4	35.6	34.1	33.4	33.4
82.5°	37.3	33.9	32.1	30.8	30.0	30.0
83°	33.7	30.2	28.6	27.3	26.7	26.6
83.5°	30.1	26.9	25.3	24.0	23.4	23.5
84°	26.6	23.7	22.1	20.9	20.3	20.3
84.5°	23.5	20.6	19.2	18.1	17.5	17.5
85°	20.3	17.6	16.4	15.4	14.9	14.8
85.5°	17.3	15.1	13.7	12.8	12.3	12.2
86°	14.7	12.5	11.2	10.3	9.9	9.9
86.5°	12.3	10.0	8.8	7.8	7.5	7.5
87°	10.0	7.7	6.5	5.8	5.4	5.4
87.5°	7.7	5.5	4.7	4.1	3.9	4.0
88°	5.8	4.0	3.3	2.7	2.5	2.4
88.5°	4.0	2.6	2.1	1.8	1.5	1.5
89°	2.6	1.6	1.3	1.0	0.9	0.9
89.5°	1.3	1.0	0.7	0.6	0.8	0.6

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869639
CATALOG NUMBER: SMX14RLSFS010-1300LM-4000K

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)