

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: P869640

Luminaire Tested: **SMX14RLSFS010-1300LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869640
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFS010-1300LM-5000K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

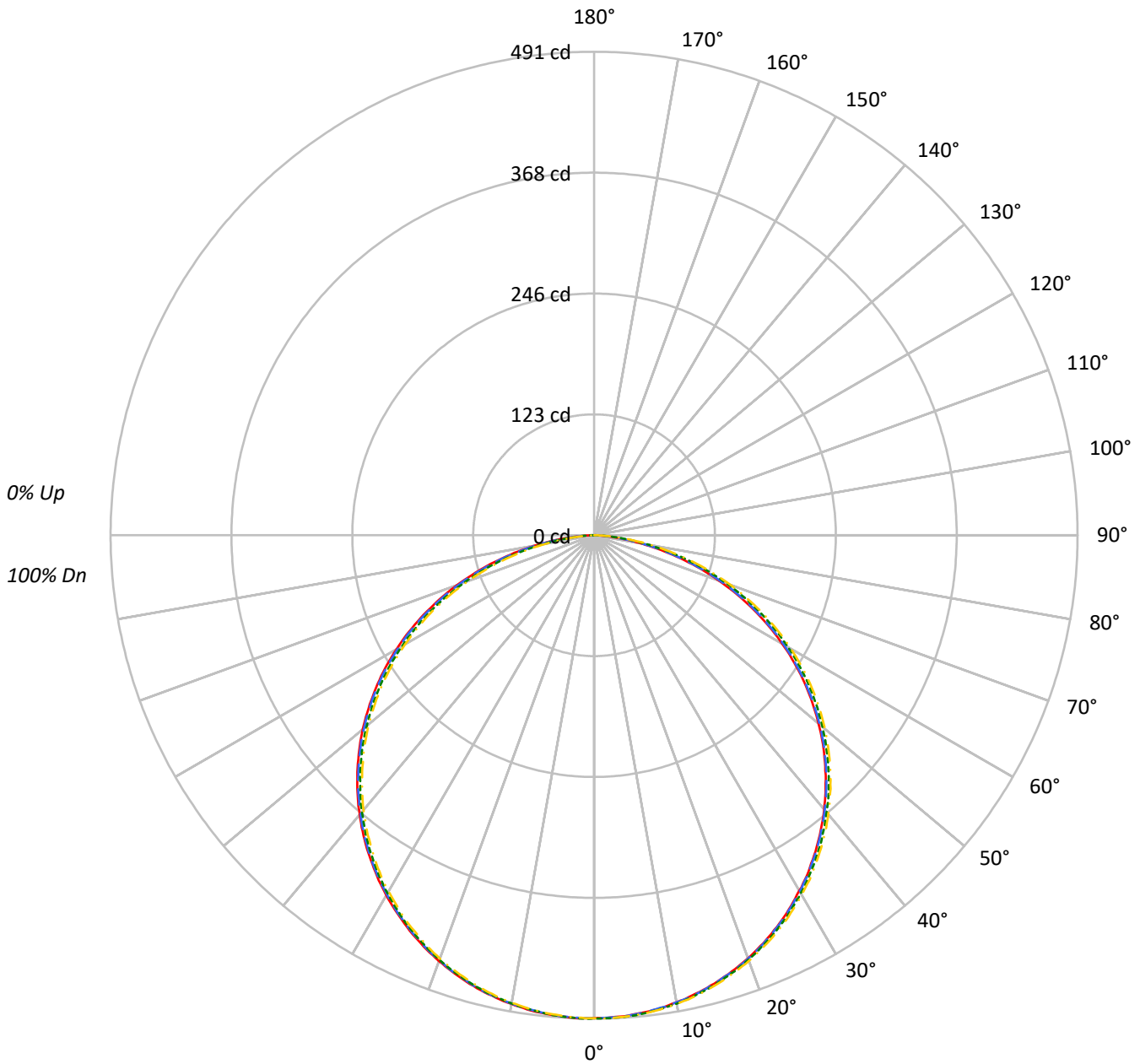
Lumens per Lamp: N/A
 Luminaire Lumens: 1436.6 lumens
 Efficiency: N/A
 Efficacy: 99.1 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

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													
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	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	100	100	100	100	100	100	100				
	1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	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	72	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	60	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	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	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	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	35	33	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	31	29	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	28	26	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	25	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4937	4937	4937	4937
5°	4930	4943	4942	4942
10°	4922	4936	4939	4932
15°	4911	4926	4937	4927
20°	4895	4911	4929	4914
25°	4876	4899	4921	4899
30°	4843	4879	4905	4877
35°	4814	4857	4886	4850
40°	4775	4828	4866	4820
45°	4723	4793	4837	4775
50°	4659	4741	4802	4719
55°	4574	4679	4746	4648
60°	4444	4579	4663	4532
65°	4260	4439	4546	4372
70°	3978	4219	4358	4122
75°	3546	3876	4059	3729
80°	2851	3309	3570	3089
85°	1743	2367	2760	2067

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	3.2
10°-20°	133.4	9.3
20°-30°	203.3	14.1
30°-40°	247.1	17.2
40°-50°	259.1	18.0
50°-60°	237.2	16.5
60°-70°	182.7	12.7
70°-80°	103.3	7.2
80°-90°	24.1	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°	383.1	26.7
0°-40°	630.2	43.9
0°-60°	1126.5	78.4
0°-90°	1436.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	491	491	491	491	491	
5°	488	489	489	489	488	46
15°	471	473	474	473	471	133
25°	439	441	443	441	439	202
35°	392	395	398	395	392	245
45°	332	337	340	336	332	256
55°	261	267	270	265	261	233
65°	179	186	191	184	179	177
75°	91	100	104	96	91	96
85°	15	20	24	18	15	20
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°	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6
0.5°	490.4	490.3	490.3	490.8	490.9	491.1	490.8	490.6	490.5	490.3	490.5
1°	490.5	490.0	490.2	490.9	490.9	490.9	490.8	490.5	490.7	490.4	490.2
1.5°	490.3	490.1	490.1	490.5	490.8	490.9	490.8	490.6	490.8	490.1	490.3
2°	490.1	489.7	489.9	490.1	490.9	490.8	490.5	490.6	490.7	490.0	490.3
2.5°	489.7	489.7	490.0	490.3	490.5	490.6	490.4	490.4	490.5	490.0	490.1
3°	489.5	489.4	489.7	489.9	490.3	490.4	490.1	490.1	490.3	490.0	489.9
3.5°	489.5	489.2	489.5	489.7	490.3	490.3	490.0	490.0	489.9	489.8	489.7
4°	489.2	488.8	489.2	489.4	489.9	489.9	489.7	489.7	489.5	489.6	489.7
4.5°	488.6	488.3	488.7	488.8	489.5	489.6	489.4	489.5	489.3	489.3	489.0
5°	488.0	487.7	488.3	488.8	489.3	489.1	489.1	489.2	489.2	488.8	488.8
5.5°	487.5	487.2	487.9	487.9	488.7	488.7	488.6	488.6	488.7	488.6	488.5
6°	487.1	486.8	487.4	487.4	488.3	488.2	488.2	488.2	488.3	488.2	487.9
6.5°	486.8	486.3	487.0	487.0	487.7	487.7	488.0	487.9	487.8	487.8	487.4
7°	486.2	485.8	486.0	486.4	487.1	486.9	487.4	487.2	487.5	487.2	486.8
7.5°	485.7	485.2	485.3	485.8	486.4	486.4	486.8	486.6	487.1	486.7	486.1
8°	485.0	484.7	484.6	485.2	485.8	485.7	486.2	486.2	486.4	486.2	485.9
8.5°	484.2	483.9	484.3	484.6	485.2	485.0	485.3	485.3	485.5	485.5	485.1
9°	483.4	483.2	483.5	483.7	484.3	484.7	485.0	484.7	484.8	484.5	484.6
9.5°	482.4	482.4	482.6	483.1	483.7	483.7	484.0	484.0	484.3	484.0	483.7
10°	481.7	481.6	481.6	482.4	483.0	483.0	483.4	483.4	483.3	483.5	483.1
10.5°	480.8	480.9	481.1	481.5	482.1	482.2	482.4	482.6	482.7	482.6	482.2
11°	480.3	479.8	480.2	480.8	481.2	481.3	481.5	481.7	482.0	481.6	481.4
11.5°	479.0	478.8	479.6	479.7	480.3	480.3	481.0	480.9	481.1	480.6	480.5
12°	478.0	477.9	478.4	478.7	479.6	479.5	480.0	480.0	480.3	479.8	479.6
12.5°	476.8	477.1	477.4	477.7	478.4	478.7	478.8	479.2	478.9	479.2	478.7
13°	476.0	476.0	476.3	476.4	477.3	477.8	478.0	478.2	478.3	478.1	477.9
13.5°	474.8	474.8	475.3	475.6	476.3	476.7	476.9	477.1	477.3	476.8	476.8
14°	473.8	473.6	474.1	474.5	475.2	475.5	475.8	475.8	476.2	475.8	475.5
14.5°	472.3	472.4	472.8	473.6	474.0	474.3	474.8	475.0	475.1	475.0	474.5
15°	471.4	471.1	471.8	471.9	472.8	473.1	473.5	474.0	473.9	473.6	473.5
15.5°	470.0	469.8	470.3	470.8	471.5	471.8	472.3	472.7	472.8	472.4	472.1
16°	468.7	468.8	468.9	469.7	470.3	470.6	471.1	471.1	471.6	471.1	470.6
16.5°	467.4	467.6	467.6	468.3	468.8	469.2	469.8	469.8	470.2	470.0	469.4
17°	466.2	466.3	466.6	467.0	467.6	467.7	468.5	468.6	468.7	468.9	468.2
17.5°	464.7	464.8	465.2	465.9	466.1	466.7	467.3	467.3	467.6	467.2	467.0
18°	463.3	463.2	463.7	464.3	465.0	465.3	465.9	466.1	466.2	466.0	465.5
18.5°	461.7	461.6	462.3	462.6	463.3	463.9	464.2	464.5	464.6	464.7	464.2
19°	460.2	460.1	460.8	461.0	461.6	462.4	462.8	463.0	463.4	463.0	462.5
19.5°	458.6	458.6	459.2	459.8	460.3	460.7	461.6	461.6	461.5	461.8	461.0
20°	457.1	456.9	457.6	458.1	458.6	459.4	460.0	460.3	460.3	460.2	459.6
20.5°	455.5	455.2	455.8	456.6	457.0	457.8	458.4	458.7	458.6	458.6	458.1
21°	453.9	453.7	454.1	454.7	455.4	455.9	456.8	457.1	457.1	456.9	456.3
21.5°	452.1	451.9	452.6	453.2	453.9	454.5	455.1	455.5	455.7	455.2	454.7
22°	450.2	450.4	451.0	451.3	451.9	452.8	453.6	453.8	453.9	453.4	452.9

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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°	448.6	448.4	449.1	449.5	450.3	451.0	451.6	452.1	452.2	451.8	451.4
23°	446.7	446.6	447.0	447.9	448.6	449.1	450.0	450.5	450.2	450.2	449.5
23.5°	444.7	444.7	445.0	445.9	446.6	447.2	448.3	448.4	448.4	448.6	447.6
24°	442.9	442.9	443.4	444.0	444.9	445.7	446.6	446.7	446.6	446.8	445.8
24.5°	440.8	441.0	441.4	442.1	443.1	443.6	444.5	444.9	444.9	444.6	444.1
25°	439.1	438.9	439.6	440.1	441.2	441.7	442.7	443.0	443.2	443.0	442.0
25.5°	436.9	437.1	437.5	438.1	438.9	439.9	440.7	441.2	441.0	441.0	440.1
26°	434.9	435.2	435.4	436.2	437.1	438.1	438.6	439.1	438.9	439.1	438.3
26.5°	432.8	432.8	433.1	434.1	435.0	435.8	436.8	437.1	436.9	436.9	436.1
27°	430.9	430.8	431.3	431.8	433.3	433.6	434.7	435.2	434.9	435.0	433.9
27.5°	428.4	428.5	429.1	429.6	431.0	431.6	432.5	432.9	432.9	432.9	432.0
28°	426.2	426.3	427.0	427.6	428.6	429.7	430.5	430.9	430.8	430.7	429.8
28.5°	423.9	424.1	424.6	425.1	426.6	427.3	428.3	428.6	428.6	428.4	427.6
29°	421.7	422.0	422.3	423.1	424.3	425.1	426.3	426.6	426.6	426.2	425.5
29.5°	419.1	419.4	420.1	420.9	422.3	422.8	424.1	424.4	424.5	424.3	423.3
30°	416.8	417.1	417.6	418.6	419.9	420.7	421.8	422.2	422.1	422.0	420.9
30.5°	414.9	414.9	415.6	416.4	417.7	418.3	419.4	419.9	419.7	419.8	418.8
31°	412.4	412.8	412.9	413.8	415.6	415.9	417.0	417.9	417.4	417.5	416.5
31.5°	409.9	410.1	410.7	411.6	413.0	413.8	414.9	415.2	415.2	415.4	414.3
32°	407.7	407.8	408.3	409.2	410.6	411.4	412.8	413.0	413.1	413.1	411.8
32.5°	405.1	405.4	405.5	406.4	407.9	408.9	410.2	410.9	410.4	410.4	409.5
33°	402.4	403.0	403.0	404.0	405.6	406.2	407.7	408.2	407.7	408.0	407.0
33.5°	399.6	400.2	400.6	401.6	403.0	403.8	405.0	405.9	405.4	405.4	404.5
34°	397.2	397.7	397.8	399.1	400.7	401.4	402.5	403.3	402.8	402.9	401.9
34.5°	394.4	394.9	395.5	396.4	398.0	398.9	400.1	400.8	400.2	400.3	399.4
35°	391.9	392.3	392.8	393.6	395.4	396.2	397.5	398.0	397.7	397.7	396.9
35.5°	389.1	389.4	390.1	390.9	392.7	393.6	394.7	395.3	395.3	395.2	394.3
36°	386.5	386.7	387.2	388.2	390.1	391.1	392.3	392.8	392.8	392.5	391.6
36.5°	383.8	383.9	384.7	385.6	387.6	388.2	389.6	390.1	390.1	390.2	388.8
37°	381.0	381.1	381.7	382.8	384.7	385.6	386.9	387.6	387.4	387.4	386.4
37.5°	377.9	378.3	378.9	380.0	381.7	382.8	384.1	384.6	384.5	384.5	383.6
38°	375.0	375.6	376.2	377.1	379.0	380.3	381.6	381.9	381.6	381.5	380.9
38.5°	372.3	372.7	373.2	374.1	376.2	377.2	378.7	379.1	379.1	378.8	378.0
39°	369.4	369.5	370.3	371.3	373.2	374.3	375.8	376.4	376.2	376.0	375.0
39.5°	366.6	366.6	367.4	368.5	370.2	371.6	373.1	373.5	373.3	373.2	371.9
40°	363.5	364.0	364.5	365.6	367.5	368.8	369.9	370.7	370.4	370.3	369.0
40.5°	360.3	360.8	361.6	362.7	364.6	365.8	367.1	367.7	367.5	367.4	366.2
41°	357.4	358.0	358.5	359.8	361.7	363.0	364.1	364.8	364.8	364.4	363.4
41.5°	354.3	354.8	355.5	356.8	358.7	360.0	361.2	361.7	361.7	361.3	360.2
42°	351.2	351.7	352.2	353.7	355.6	356.9	358.0	358.7	358.5	358.3	357.3
42.5°	347.9	348.6	349.0	350.5	352.6	353.7	355.0	355.7	355.5	355.5	354.2
43°	344.7	345.3	345.9	347.3	349.4	350.7	352.1	352.8	352.4	352.2	351.2
43.5°	341.7	342.2	342.9	344.2	346.1	347.5	348.7	349.7	349.4	349.0	348.0
44°	338.7	338.9	339.5	340.9	343.0	344.4	345.8	346.4	346.2	345.9	345.0
44.5°	335.1	335.5	336.4	337.7	339.9	341.3	342.4	343.1	343.0	342.7	341.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	331.9	332.3	333.2	334.6	336.8	338.0	339.3	340.0	339.9	339.7	338.5
45.5°	328.8	328.9	329.8	331.3	333.4	334.7	336.1	336.5	336.8	336.3	335.2
46°	325.3	325.7	326.4	328.0	330.0	331.4	332.9	333.4	333.5	333.2	332.1
46.5°	322.1	322.3	323.0	324.4	326.6	328.1	329.6	330.0	330.1	329.8	328.7
47°	318.6	318.9	319.8	321.3	323.2	324.8	326.3	326.8	326.8	326.4	325.3
47.5°	315.3	315.4	316.5	317.9	320.0	321.5	322.9	323.5	323.4	323.2	322.1
48°	311.8	312.0	313.2	314.4	316.7	318.1	319.6	320.2	320.2	319.7	318.9
48.5°	308.3	308.6	309.6	311.0	313.3	314.7	316.2	316.9	316.9	316.4	315.4
49°	304.9	305.0	306.2	307.5	309.8	311.2	312.9	313.5	313.4	313.0	312.0
49.5°	301.3	301.6	302.6	304.1	306.3	307.8	309.3	309.8	310.1	309.7	308.6
50°	297.6	297.9	299.0	300.5	302.8	304.4	306.0	306.6	306.7	306.3	304.9
50.5°	294.1	294.3	295.5	297.1	299.2	300.9	302.5	303.0	303.0	302.6	301.4
51°	290.5	290.7	291.8	293.4	295.9	297.3	298.8	299.6	299.6	298.9	298.0
51.5°	286.8	287.2	288.2	289.8	292.1	293.8	295.3	296.0	296.0	295.5	294.3
52°	283.1	283.4	284.4	286.2	288.8	290.2	291.9	292.6	292.4	291.8	290.9
52.5°	279.3	279.8	280.9	282.5	285.1	286.5	288.2	288.9	288.7	288.3	287.1
53°	275.7	276.2	277.3	278.8	281.4	283.0	284.6	285.4	285.2	284.7	283.5
53.5°	272.0	272.2	273.5	275.0	277.8	279.4	280.7	281.6	281.4	281.0	279.9
54°	268.2	268.3	269.6	271.2	274.1	275.5	277.2	278.0	277.7	277.5	276.1
54.5°	264.5	264.9	265.9	267.4	270.2	271.9	273.5	274.1	274.1	273.7	272.3
55°	260.7	261.1	262.2	263.9	266.7	268.3	269.9	270.7	270.5	270.0	268.6
55.5°	256.9	257.0	258.4	259.9	262.8	264.6	266.1	267.0	266.8	266.2	265.1
56°	253.0	253.2	254.5	256.1	259.1	260.6	262.5	263.3	263.0	262.4	261.2
56.5°	248.9	249.3	250.7	252.1	255.2	256.8	258.5	259.2	259.3	258.4	257.5
57°	244.9	245.4	246.6	248.1	251.2	253.1	254.8	255.6	255.3	254.7	253.6
57.5°	241.0	241.4	242.6	244.2	247.4	249.0	250.7	251.5	251.5	250.9	249.6
58°	237.2	237.5	238.6	240.4	243.5	245.3	247.0	247.7	247.5	246.9	245.8
58.5°	233.1	233.3	234.7	236.4	239.5	241.3	242.9	243.8	243.8	242.9	241.9
59°	229.0	229.5	230.6	232.4	235.6	237.4	239.0	239.8	239.9	238.8	237.8
59.5°	224.8	225.4	226.6	228.3	231.6	233.4	235.0	235.9	235.7	235.1	233.8
60°	220.8	221.3	222.7	224.4	227.5	229.4	231.1	231.9	231.7	231.0	229.8
60.5°	216.9	217.2	218.3	220.2	223.3	225.5	227.1	227.9	227.7	227.1	225.8
61°	212.9	213.2	214.4	216.4	219.3	221.4	223.1	223.8	223.7	222.9	221.9
61.5°	208.5	209.0	210.3	212.2	215.2	217.3	218.8	219.7	219.8	218.9	217.8
62°	204.3	204.9	206.2	207.9	211.4	213.4	215.0	215.8	215.7	215.0	213.8
62.5°	200.0	200.6	201.8	203.7	207.3	209.3	211.0	211.7	211.6	210.8	209.6
63°	195.8	196.5	197.7	199.6	203.1	205.2	206.8	207.6	207.5	206.8	205.5
63.5°	191.6	192.3	193.6	195.3	198.9	201.0	202.7	203.4	203.4	202.6	201.3
64°	187.3	188.0	189.4	191.2	194.6	196.9	198.4	199.1	199.2	198.4	197.3
64.5°	183.2	183.9	185.1	187.0	190.5	192.5	194.3	195.0	195.0	194.2	192.8
65°	178.9	179.5	181.0	182.9	186.4	188.5	190.3	190.9	190.9	190.2	188.9
65.5°	174.6	175.4	176.6	178.7	182.3	184.2	186.0	186.7	186.8	186.0	184.5
66°	170.2	170.9	172.2	174.2	177.8	180.0	181.6	182.4	182.3	181.7	180.3
66.5°	166.0	166.7	167.8	169.8	173.6	175.6	177.3	178.1	178.0	177.2	176.0
67°	161.8	162.3	163.6	165.6	169.2	171.3	173.0	173.9	173.8	173.1	171.6

TEST NUMBER: P869640
 CATALOG NUMBER: SMX14RLSFS010-1300LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	157.3	158.0	159.4	161.3	165.0	167.0	168.7	169.6	169.7	168.8	167.3
68°	153.0	153.5	155.0	157.0	160.7	162.8	164.7	165.3	165.4	164.5	163.2
68.5°	148.5	149.2	150.5	152.6	156.5	158.6	160.2	161.0	161.0	160.2	159.0
69°	144.1	144.7	146.2	148.2	152.1	154.2	156.0	156.7	156.7	155.9	154.7
69.5°	139.7	140.3	141.8	143.6	147.8	150.0	151.7	152.4	152.5	151.5	150.1
70°	135.2	135.9	137.4	139.3	143.4	145.5	147.3	148.0	148.1	147.2	145.7
70.5°	130.9	131.5	133.0	135.1	139.2	141.1	142.9	143.8	143.8	143.0	141.4
71°	126.5	127.0	128.6	130.5	134.8	137.0	138.8	139.5	139.5	138.6	137.2
71.5°	121.9	122.7	124.1	126.1	130.3	132.6	134.3	135.1	135.1	134.2	132.7
72°	117.7	118.2	119.7	121.7	125.8	128.2	130.0	130.6	130.7	129.8	128.3
72.5°	113.3	114.0	115.4	117.4	121.5	123.8	125.5	126.4	126.4	125.4	124.0
73°	108.8	109.5	111.1	112.8	117.0	119.3	121.1	121.8	121.9	121.0	119.4
73.5°	104.4	105.0	106.6	108.5	112.8	115.1	116.8	117.5	117.6	116.7	115.2
74°	100.0	100.7	102.2	104.1	108.5	110.7	112.5	113.2	113.3	112.3	110.9
74.5°	95.5	96.3	97.8	99.6	104.0	106.3	108.1	108.8	108.9	108.0	106.4
75°	91.2	91.9	93.4	95.3	99.7	101.9	103.6	104.4	104.4	103.5	102.1
75.5°	86.9	87.6	89.1	91.1	95.3	97.5	99.2	100.1	100.0	99.2	97.6
76°	82.5	83.2	84.7	86.6	90.9	93.1	94.8	95.6	95.8	94.8	93.2
76.5°	78.1	78.9	80.4	82.2	86.6	88.9	90.5	91.3	91.3	90.5	88.8
77°	73.8	74.5	76.1	78.1	82.2	84.5	86.2	87.0	86.9	86.1	84.7
77.5°	69.7	70.5	71.9	73.9	78.0	80.2	81.9	82.6	82.7	81.8	80.3
78°	65.5	66.2	67.7	69.5	73.7	76.0	77.7	78.3	78.4	77.4	76.0
78.5°	61.3	62.0	63.6	65.5	69.4	71.6	73.4	74.0	74.1	73.2	71.7
79°	57.2	57.9	59.5	61.3	65.4	67.4	69.0	69.8	69.8	69.0	67.6
79.5°	53.1	53.8	55.3	57.2	61.2	63.4	65.0	65.7	65.7	64.9	63.3
80°	49.2	49.7	51.3	53.1	57.1	59.2	60.8	61.6	61.6	60.8	59.4
80.5°	45.2	45.9	47.3	49.1	53.1	55.2	56.8	57.5	57.5	56.6	55.1
81°	41.4	42.1	43.4	45.2	49.1	51.1	52.7	53.5	53.5	52.7	51.2
81.5°	37.6	38.4	39.7	41.5	45.2	47.1	48.7	49.4	49.4	48.5	47.1
82°	33.9	34.6	36.0	37.6	41.3	43.3	44.7	45.5	45.5	44.7	43.3
82.5°	30.5	31.2	32.5	34.1	37.6	39.5	41.0	41.6	41.6	40.8	39.5
83°	27.0	27.7	28.9	30.4	34.0	35.9	37.3	38.1	38.0	37.3	35.8
83.5°	23.8	24.4	25.6	27.0	30.4	32.1	33.6	34.4	34.3	33.4	32.2
84°	20.6	21.3	22.5	23.8	26.8	28.8	30.0	30.7	30.7	29.9	28.6
84.5°	17.7	18.3	19.4	20.8	23.6	25.2	26.7	27.3	27.2	26.5	25.3
85°	15.1	15.6	16.7	17.8	20.5	22.1	23.4	24.0	23.9	23.2	22.2
85.5°	12.4	12.8	13.9	15.1	17.5	19.0	20.2	20.7	20.7	20.1	18.9
86°	10.1	10.4	11.4	12.5	15.0	16.2	17.2	17.8	17.7	17.0	16.1
86.5°	7.6	8.0	8.9	10.1	12.5	13.7	14.7	15.2	15.2	14.6	13.5
87°	5.5	5.8	6.5	7.7	10.1	11.3	12.3	12.8	12.7	12.2	11.2
87.5°	4.0	4.1	4.8	5.6	7.9	9.0	9.9	10.3	10.2	9.7	8.9
88°	2.5	2.8	3.2	4.0	5.9	6.8	7.7	8.1	8.0	7.5	6.8
88.5°	1.5	1.7	2.0	2.6	4.1	4.9	5.6	6.0	5.9	5.5	4.8
89°	0.9	1.0	1.2	1.5	2.5	3.3	3.9	4.2	4.1	3.8	3.3
89.5°	0.6	0.6	0.7	0.9	1.4	2.0	2.4	2.7	2.7	2.3	1.9

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



TEST NUMBER: P869640
CATALOG NUMBER: SMX14RLSFS010-1300LM-5000K

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: P869640
 CATALOG NUMBER: SMX14RLSFS010-1300LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	490.6	490.6	490.6	490.6	490.6	490.6
0.5°	490.6	491.1	490.9	490.6	490.8	490.4
1°	490.6	491.1	490.8	490.5	490.6	490.5
1.5°	490.7	491.0	490.7	490.2	490.1	490.3
2°	490.5	490.8	490.5	490.3	490.1	490.1
2.5°	490.2	490.5	490.3	490.0	489.8	489.7
3°	490.0	490.1	490.2	489.8	489.9	489.5
3.5°	490.0	490.0	489.8	489.6	489.7	489.5
4°	489.7	489.7	489.4	488.9	488.8	489.2
4.5°	489.2	489.3	489.3	488.6	488.7	488.6
5°	488.8	489.2	488.7	488.2	488.0	488.0
5.5°	488.7	488.4	488.5	487.9	487.9	487.5
6°	488.1	488.0	487.9	487.4	487.5	487.1
6.5°	487.4	487.2	487.3	486.8	486.9	486.8
7°	486.9	486.8	486.8	486.3	486.4	486.2
7.5°	486.3	486.3	486.2	485.7	486.0	485.7
8°	485.6	485.5	485.5	485.1	485.5	485.0
8.5°	485.2	484.9	484.7	484.4	484.5	484.2
9°	484.7	484.4	484.2	483.5	483.7	483.4
9.5°	483.9	483.7	483.4	482.6	482.9	482.4
10°	482.9	482.7	482.5	482.1	482.1	481.7
10.5°	482.2	482.0	481.7	481.1	480.8	480.8
11°	481.4	481.1	480.8	480.3	479.9	480.3
11.5°	480.4	480.1	479.9	479.3	479.2	479.0
12°	479.5	479.2	478.9	478.4	478.4	478.0
12.5°	478.5	478.4	478.1	477.2	477.1	476.8
13°	477.4	477.5	476.9	476.3	476.2	476.0
13.5°	476.3	476.3	475.8	475.2	475.2	474.8
14°	475.4	475.1	475.0	474.0	473.7	473.8
14.5°	474.0	474.0	473.7	472.9	472.7	472.3
15°	473.0	472.9	472.4	471.6	471.4	471.4
15.5°	472.0	471.6	471.1	470.3	470.2	470.0
16°	470.6	470.4	469.8	469.0	468.9	468.7
16.5°	469.4	469.1	468.4	467.6	467.4	467.4
17°	468.1	467.7	467.0	466.4	466.2	466.2
17.5°	466.9	466.2	465.8	465.0	465.0	464.7
18°	465.3	464.9	464.0	463.5	463.2	463.3
18.5°	464.0	463.6	462.9	462.0	462.0	461.7
19°	462.5	462.0	461.4	460.7	460.3	460.2
19.5°	460.9	460.4	460.0	459.2	458.8	458.6
20°	459.5	458.9	458.2	457.5	457.3	457.1
20.5°	457.9	457.1	456.6	455.8	455.7	455.5
21°	456.1	455.6	454.9	454.2	453.7	453.9
21.5°	454.4	453.9	453.2	452.4	452.1	452.1
22°	452.7	452.2	451.4	450.6	450.0	450.2

TEST NUMBER: P869640
 CATALOG NUMBER: SMX14RLSFS010-1300LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	450.8	450.3	449.7	448.7	448.4	448.6
23°	449.2	448.7	447.9	446.8	446.5	446.7
23.5°	447.3	446.9	446.3	445.0	444.8	444.7
24°	445.5	445.0	444.1	443.1	442.8	442.9
24.5°	443.8	443.0	442.3	441.0	440.8	440.8
25°	442.0	441.2	440.4	439.5	439.1	439.1
25.5°	440.0	439.4	438.3	437.3	437.1	436.9
26°	437.8	437.4	436.3	435.5	434.9	434.9
26.5°	435.6	435.0	434.2	433.2	432.9	432.8
27°	433.7	433.0	432.2	431.0	430.7	430.9
27.5°	431.9	430.7	429.9	428.9	428.5	428.4
28°	429.3	428.6	427.9	426.4	426.0	426.2
28.5°	427.3	426.5	425.6	424.3	423.6	423.9
29°	425.2	424.2	423.2	422.1	421.5	421.7
29.5°	423.0	422.0	421.0	419.7	419.3	419.1
30°	420.7	419.7	418.9	417.4	417.1	416.8
30.5°	418.3	417.5	416.5	415.2	414.7	414.9
31°	416.2	415.0	413.8	412.9	412.3	412.4
31.5°	413.9	412.3	411.5	410.6	409.9	409.9
32°	411.4	410.2	409.1	408.0	407.3	407.7
32.5°	409.0	407.7	406.8	405.4	404.9	405.1
33°	406.4	405.1	404.2	403.0	402.4	402.4
33.5°	403.9	402.5	401.5	400.4	399.8	399.6
34°	401.3	400.2	398.8	397.6	397.2	397.2
34.5°	399.0	397.3	396.2	395.0	394.3	394.4
35°	396.1	394.8	393.4	392.4	391.8	391.9
35.5°	393.6	392.2	391.2	389.8	389.1	389.1
36°	390.8	389.6	388.3	386.9	386.4	386.5
36.5°	388.3	386.6	385.4	384.1	383.5	383.8
37°	385.4	384.0	382.4	381.6	380.9	381.0
37.5°	383.0	381.4	380.1	378.9	378.1	377.9
38°	379.9	378.3	377.0	375.8	375.0	375.0
38.5°	377.1	375.4	374.0	372.8	372.3	372.3
39°	374.1	372.5	371.1	370.1	369.5	369.4
39.5°	371.4	369.5	368.3	367.1	366.5	366.6
40°	368.3	366.9	365.5	364.2	363.6	363.5
40.5°	365.6	363.9	362.4	361.2	360.7	360.3
41°	362.4	360.9	359.2	358.1	357.5	357.4
41.5°	359.7	357.7	356.2	355.0	354.2	354.3
42°	356.5	354.6	353.2	351.7	351.3	351.2
42.5°	353.4	351.5	350.1	348.7	348.0	347.9
43°	350.3	348.2	346.9	345.5	344.9	344.7
43.5°	347.2	345.1	344.0	342.3	341.8	341.7
44°	343.9	342.1	340.6	339.0	338.5	338.7
44.5°	340.9	338.8	337.4	335.9	335.2	335.1

TEST NUMBER: P869640
 CATALOG NUMBER: SMX14RLSFS010-1300LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	337.6	335.5	334.0	332.7	332.0	331.9
45.5°	334.4	332.2	330.8	329.2	328.9	328.8
46°	331.0	329.1	327.4	326.1	325.3	325.3
46.5°	327.8	325.5	324.0	322.7	321.8	322.1
47°	324.5	322.3	320.6	319.4	318.4	318.6
47.5°	321.0	318.9	317.2	316.0	315.0	315.3
48°	317.6	315.4	313.9	312.6	311.7	311.8
48.5°	314.4	312.0	310.4	309.1	308.5	308.3
49°	311.0	308.7	307.0	305.5	304.9	304.9
49.5°	307.3	305.1	303.5	302.0	301.2	301.3
50°	303.9	301.4	299.8	298.5	297.7	297.6
50.5°	300.2	297.9	296.3	294.9	294.2	294.1
51°	296.7	294.4	292.7	291.2	290.7	290.5
51.5°	293.4	290.9	289.2	287.6	286.8	286.8
52°	289.7	287.2	285.6	284.1	283.1	283.1
52.5°	286.0	283.4	281.8	280.4	279.6	279.3
53°	282.3	279.7	278.2	276.6	275.7	275.7
53.5°	278.6	276.0	274.3	272.7	271.9	272.0
54°	274.8	272.2	270.6	269.1	268.1	268.2
54.5°	271.2	268.5	266.9	265.4	264.6	264.5
55°	267.5	264.9	263.0	261.5	260.8	260.7
55.5°	263.8	260.9	259.1	257.8	256.9	256.9
56°	259.9	257.0	255.4	253.8	252.9	253.0
56.5°	256.1	253.2	251.4	249.8	249.2	248.9
57°	252.2	249.3	247.5	245.9	245.0	244.9
57.5°	248.3	245.3	243.5	241.9	241.0	241.0
58°	244.3	241.4	239.5	237.9	237.1	237.2
58.5°	240.5	237.4	235.5	233.8	233.0	233.1
59°	236.6	233.3	231.4	229.8	229.0	229.0
59.5°	232.4	229.5	227.5	225.6	224.8	224.8
60°	228.4	225.2	223.3	221.6	220.8	220.8
60.5°	224.3	221.1	219.2	217.4	216.8	216.9
61°	220.2	217.1	215.1	213.6	212.7	212.9
61.5°	216.3	212.9	211.1	209.3	208.5	208.5
62°	212.2	208.8	206.9	205.2	204.4	204.3
62.5°	208.1	204.5	202.7	200.8	200.0	200.0
63°	203.9	200.4	198.4	196.7	196.0	195.8
63.5°	199.7	196.0	194.2	192.6	191.7	191.6
64°	195.5	191.9	190.0	188.4	187.6	187.3
64.5°	191.3	187.8	185.8	184.2	183.2	183.2
65°	187.2	183.6	181.5	179.9	178.9	178.9
65.5°	183.0	179.2	177.3	175.5	174.7	174.6
66°	178.6	175.0	172.9	171.0	170.2	170.2
66.5°	174.2	170.5	168.5	166.8	166.0	166.0
67°	170.0	166.4	164.2	162.6	161.6	161.8

TEST NUMBER: P869640
 CATALOG NUMBER: SMX14RLSFS010-1300LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	166.0	162.0	159.8	158.3	157.1	157.3
68°	161.5	157.6	155.4	153.8	153.0	153.0
68.5°	157.1	153.3	151.0	149.3	148.5	148.5
69°	152.7	148.8	146.6	145.1	143.9	144.1
69.5°	148.5	144.4	142.3	140.5	139.6	139.7
70°	144.1	140.1	138.0	136.0	135.4	135.2
70.5°	139.7	135.6	133.5	131.9	131.0	130.9
71°	135.3	131.1	129.1	127.3	126.4	126.5
71.5°	131.0	126.7	124.6	122.9	121.8	121.9
72°	126.5	122.4	120.3	118.5	117.7	117.7
72.5°	122.2	118.0	115.9	114.1	113.3	113.3
73°	117.6	113.5	111.4	109.6	108.9	108.8
73.5°	113.3	109.1	107.0	105.3	104.3	104.4
74°	109.0	104.8	102.5	100.8	99.9	100.0
74.5°	104.6	100.3	98.2	96.4	95.4	95.5
75°	100.1	95.9	93.8	92.1	91.3	91.2
75.5°	95.8	91.5	89.5	87.6	86.6	86.9
76°	91.3	87.1	85.0	83.3	82.5	82.5
76.5°	87.1	82.7	80.6	79.0	78.2	78.1
77°	82.7	78.5	76.4	74.7	73.8	73.8
77.5°	78.4	74.3	72.2	70.6	69.7	69.7
78°	74.1	69.9	67.9	66.3	65.5	65.5
78.5°	69.8	65.8	63.9	62.1	61.4	61.3
79°	65.6	61.6	59.7	58.1	57.3	57.2
79.5°	61.5	57.4	55.5	53.9	53.1	53.1
80°	57.4	53.3	51.3	49.8	49.1	49.2
80.5°	53.4	49.4	47.5	45.8	45.1	45.2
81°	49.4	45.4	43.5	42.1	41.4	41.4
81.5°	45.3	41.7	39.9	38.3	37.6	37.6
82°	41.5	37.9	36.1	34.6	33.9	33.9
82.5°	37.9	34.4	32.6	31.2	30.5	30.5
83°	34.2	30.7	29.1	27.7	27.1	27.0
83.5°	30.5	27.3	25.7	24.4	23.8	23.8
84°	27.0	24.1	22.5	21.2	20.6	20.6
84.5°	23.8	20.9	19.5	18.3	17.7	17.7
85°	20.6	17.9	16.7	15.6	15.1	15.1
85.5°	17.6	15.3	13.9	13.0	12.5	12.4
86°	14.9	12.6	11.4	10.4	10.0	10.1
86.5°	12.5	10.2	8.9	8.0	7.6	7.6
87°	10.1	7.8	6.6	5.9	5.4	5.5
87.5°	7.8	5.6	4.8	4.2	3.9	4.0
88°	5.9	4.0	3.3	2.8	2.5	2.5
88.5°	4.0	2.6	2.1	1.8	1.5	1.5
89°	2.6	1.7	1.3	1.0	0.9	0.9
89.5°	1.4	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: P869640
CATALOG NUMBER: SMX14RLSFS010-1300LM-5000K

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)