

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: P869644

Luminaire Tested: **SMX14RLSFS010-1600LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869644
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFS010-1600LM-4000K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

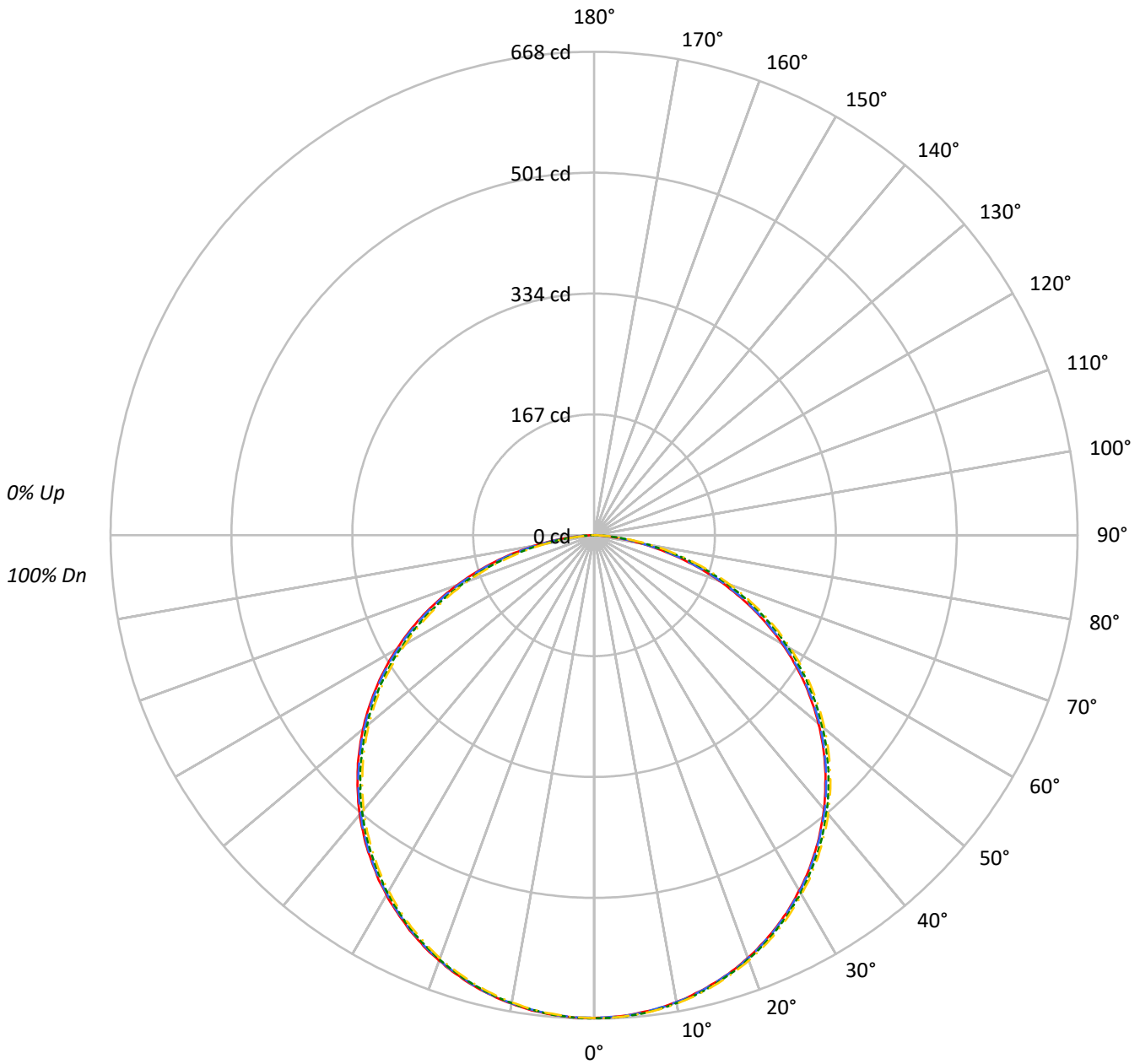
Lumens per Lamp: N/A
 Luminaire Lumens: 1953.0 lumens
 Efficiency: N/A
 Efficacy: 94.8 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 20.6
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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CATALOG NUMBER: SMX14RLSFS010-1600LM-4000K

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	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°	6712	6712	6712	6712
5°	6702	6720	6718	6718
10°	6691	6709	6714	6705
15°	6676	6697	6711	6698
20°	6655	6676	6701	6681
25°	6629	6659	6690	6660
30°	6585	6633	6668	6629
35°	6544	6603	6642	6593
40°	6492	6563	6614	6551
45°	6423	6515	6576	6491
50°	6333	6445	6528	6414
55°	6218	6360	6451	6318
60°	6040	6225	6340	6163
65°	5791	6034	6179	5941
70°	5411	5735	5926	5602
75°	4821	5268	5517	5066
80°	3877	4497	4856	4202
85°	2367	3210	3753	2806

TEST NUMBER: P869644
 CATALOG NUMBER: SMX14RLSFS010-1600LM-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	3.2
10°-20°	181.4	9.3
20°-30°	276.3	14.1
30°-40°	335.9	17.2
40°-50°	352.2	18.0
50°-60°	322.4	16.5
60°-70°	248.3	12.7
70°-80°	140.5	7.2
80°-90°	32.8	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°	520.8	26.7
0°-40°	856.8	43.9
0°-60°	1531.4	78.4
0°-90°	1953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1953.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	667	667	667	667	667	
5°	664	665	665	665	664	63
15°	641	643	644	643	641	181
25°	597	600	602	600	597	275
35°	533	538	541	537	533	333
45°	451	458	462	456	451	348
55°	354	362	368	360	354	316
65°	243	253	260	250	243	240
75°	124	136	142	130	124	131
85°	20	28	32	24	20	27
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°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
0.5°	666.7	666.5	666.6	667.3	667.4	667.7	667.2	666.9	666.8	666.6	666.8
1°	666.8	666.2	666.4	667.3	667.4	667.4	667.2	666.8	667.1	666.7	666.4
1.5°	666.5	666.3	666.3	666.8	667.3	667.3	667.2	667.0	667.3	666.3	666.5
2°	666.3	665.7	666.0	666.3	667.3	667.2	666.8	666.9	667.1	666.2	666.5
2.5°	665.7	665.7	666.1	666.6	666.8	666.9	666.7	666.7	666.8	666.2	666.3
3°	665.5	665.3	665.7	666.0	666.5	666.7	666.3	666.3	666.5	666.2	666.0
3.5°	665.4	665.0	665.5	665.7	666.5	666.5	666.2	666.2	666.0	665.8	665.7
4°	665.0	664.5	665.0	665.3	666.0	666.0	665.7	665.7	665.5	665.6	665.7
4.5°	664.2	663.8	664.4	664.6	665.4	665.6	665.3	665.4	665.2	665.2	664.8
5°	663.5	663.0	663.8	664.5	665.2	664.9	664.9	665.0	665.0	664.6	664.6
5.5°	662.7	662.4	663.2	663.3	664.3	664.4	664.2	664.2	664.3	664.2	664.1
6°	662.2	661.7	662.6	662.6	663.8	663.7	663.7	663.7	663.8	663.7	663.3
6.5°	661.7	661.1	662.1	662.1	663.0	663.1	663.4	663.2	663.1	663.1	662.6
7°	661.0	660.5	660.7	661.2	662.2	662.0	662.6	662.4	662.7	662.4	661.8
7.5°	660.3	659.6	659.8	660.4	661.3	661.2	661.7	661.6	662.2	661.6	660.9
8°	659.3	658.9	658.8	659.6	660.4	660.3	661.0	661.0	661.3	661.0	660.5
8.5°	658.2	657.8	658.4	658.8	659.6	659.4	659.8	659.8	660.0	660.0	659.5
9°	657.1	656.9	657.3	657.6	658.5	659.0	659.4	659.0	659.0	658.7	658.8
9.5°	655.9	655.8	656.1	656.8	657.5	657.5	658.0	657.9	658.4	658.0	657.5
10°	654.8	654.8	654.8	655.9	656.6	656.6	657.1	657.1	657.0	657.3	656.8
10.5°	653.6	653.8	654.0	654.6	655.4	655.6	655.8	656.1	656.3	656.1	655.6
11°	652.9	652.2	652.8	653.6	654.2	654.3	654.6	654.8	655.3	654.8	654.5
11.5°	651.2	650.9	652.0	652.1	653.0	653.0	653.8	653.8	654.1	653.4	653.2
12°	649.8	649.7	650.4	650.8	652.0	651.8	652.6	652.5	652.9	652.3	652.0
12.5°	648.1	648.6	649.0	649.5	650.3	650.8	650.9	651.5	651.1	651.4	650.8
13°	647.1	647.1	647.5	647.6	648.9	649.6	649.8	650.1	650.2	649.9	649.6
13.5°	645.5	645.5	646.1	646.6	647.5	648.1	648.4	648.6	648.9	648.1	648.2
14°	644.1	643.9	644.5	645.1	646.0	646.5	646.9	646.9	647.4	646.8	646.5
14.5°	642.0	642.2	642.8	643.9	644.4	644.8	645.5	645.8	645.9	645.7	645.0
15°	640.8	640.4	641.4	641.5	642.8	643.2	643.7	644.4	644.2	643.9	643.8
15.5°	639.0	638.7	639.3	640.0	641.0	641.4	642.1	642.6	642.8	642.3	641.8
16°	637.1	637.3	637.5	638.5	639.3	639.7	640.4	640.4	641.1	640.4	639.7
16.5°	635.5	635.6	635.6	636.6	637.3	637.8	638.7	638.7	639.2	638.9	638.2
17°	633.8	633.9	634.3	634.9	635.6	635.9	637.0	637.1	637.1	637.4	636.5
17.5°	631.8	631.9	632.4	633.4	633.6	634.5	635.3	635.3	635.6	635.1	634.9
18°	629.8	629.8	630.4	631.2	632.1	632.6	633.4	633.6	633.8	633.5	632.8
18.5°	627.7	627.5	628.4	628.8	629.8	630.6	631.1	631.5	631.6	631.7	631.0
19°	625.7	625.5	626.5	626.7	627.6	628.6	629.2	629.4	630.0	629.4	628.8
19.5°	623.4	623.5	624.2	625.1	625.7	626.2	627.5	627.5	627.4	627.8	626.7
20°	621.4	621.2	622.0	622.7	623.4	624.6	625.4	625.7	625.7	625.6	624.8
20.5°	619.2	618.9	619.7	620.8	621.3	622.3	623.1	623.6	623.4	623.5	622.8
21°	617.1	616.8	617.4	618.2	619.1	619.8	621.0	621.5	621.5	621.2	620.3
21.5°	614.7	614.3	615.3	616.1	617.0	617.9	618.7	619.3	619.4	618.9	618.2
22°	612.0	612.3	613.1	613.5	614.3	615.5	616.7	616.9	617.0	616.4	615.8

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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°	609.8	609.6	610.5	611.1	612.2	613.1	614.0	614.6	614.8	614.2	613.7
23°	607.3	607.1	607.6	609.0	609.8	610.6	611.8	612.5	612.0	612.0	611.1
23.5°	604.6	604.6	605.0	606.2	607.2	608.0	609.5	609.6	609.6	609.8	608.5
24°	602.1	602.1	602.8	603.6	604.9	605.9	607.1	607.3	607.2	607.4	606.1
24.5°	599.2	599.6	600.1	601.1	602.4	603.0	604.3	604.9	604.9	604.4	603.7
25°	597.0	596.6	597.6	598.3	599.7	600.5	601.8	602.3	602.5	602.3	600.9
25.5°	593.9	594.3	594.7	595.6	596.7	598.0	599.1	599.8	599.6	599.5	598.3
26°	591.2	591.6	591.9	593.0	594.3	595.5	596.3	597.0	596.6	597.0	595.8
26.5°	588.3	588.3	588.8	590.2	591.4	592.4	593.9	594.2	593.9	593.9	592.9
27°	585.8	585.6	586.3	587.0	589.1	589.5	591.0	591.7	591.2	591.3	589.8
27.5°	582.5	582.5	583.4	584.1	586.0	586.7	587.9	588.6	588.5	588.5	587.2
28°	579.4	579.6	580.4	581.3	582.7	584.1	585.3	585.8	585.6	585.6	584.3
28.5°	576.3	576.5	577.2	577.9	579.9	580.9	582.3	582.7	582.7	582.4	581.4
29°	573.2	573.7	574.2	575.2	576.8	577.9	579.5	579.9	579.9	579.4	578.5
29.5°	569.7	570.1	571.0	572.1	574.1	574.8	576.5	576.9	577.1	576.8	575.5
30°	566.7	567.0	567.8	569.1	570.8	571.9	573.5	573.9	573.8	573.7	572.2
30.5°	564.0	564.0	565.0	566.1	567.9	568.7	570.1	570.8	570.6	570.7	569.3
31°	560.6	561.2	561.3	562.6	565.0	565.4	566.9	568.1	567.4	567.6	566.3
31.5°	557.3	557.5	558.3	559.6	561.4	562.6	564.0	564.5	564.5	564.7	563.2
32°	554.2	554.4	555.1	556.3	558.1	559.3	561.2	561.5	561.6	561.6	559.8
32.5°	550.8	551.1	551.3	552.5	554.5	556.0	557.6	558.6	557.9	557.9	556.7
33°	547.1	547.8	547.9	549.2	551.4	552.3	554.2	554.9	554.2	554.6	553.4
33.5°	543.3	544.0	544.6	546.0	547.8	548.9	550.6	551.8	551.1	551.1	549.9
34°	540.0	540.6	540.9	542.5	544.7	545.7	547.2	548.3	547.6	547.7	546.4
34.5°	536.2	536.8	537.7	538.9	541.1	542.3	543.9	544.9	544.1	544.2	543.0
35°	532.7	533.3	534.1	535.1	537.5	538.6	540.4	541.0	540.7	540.7	539.6
35.5°	529.0	529.4	530.4	531.5	533.9	535.1	536.6	537.4	537.4	537.3	536.1
36°	525.4	525.7	526.3	527.8	530.3	531.6	533.4	534.0	534.0	533.6	532.4
36.5°	521.7	521.9	523.0	524.2	526.9	527.7	529.7	530.4	530.4	530.5	528.6
37°	518.0	518.1	519.0	520.4	523.0	524.2	525.9	526.9	526.6	526.6	525.3
37.5°	513.8	514.3	515.1	516.6	519.0	520.4	522.1	522.9	522.7	522.7	521.5
38°	509.7	510.6	511.4	512.7	515.3	516.9	518.7	519.2	518.8	518.6	517.8
38.5°	506.1	506.6	507.3	508.6	511.4	512.8	514.8	515.4	515.4	514.9	513.9
39°	502.2	502.4	503.4	504.8	507.3	508.8	510.9	511.7	511.5	511.2	509.8
39.5°	498.3	498.3	499.5	500.9	503.3	505.1	507.2	507.8	507.6	507.3	505.6
40°	494.2	494.8	495.6	497.1	499.6	501.3	502.9	503.9	503.5	503.4	501.7
40.5°	489.9	490.4	491.6	493.0	495.6	497.3	499.0	499.9	499.7	499.4	497.8
41°	485.8	486.7	487.4	489.1	491.7	493.5	495.0	496.0	495.9	495.4	494.0
41.5°	481.6	482.3	483.2	485.1	487.7	489.4	491.0	491.7	491.8	491.2	489.7
42°	477.4	478.1	478.8	480.8	483.4	485.2	486.8	487.6	487.4	487.1	485.7
42.5°	473.0	473.9	474.5	476.5	479.3	480.8	482.6	483.6	483.3	483.2	481.6
43°	468.6	469.5	470.2	472.2	475.0	476.8	478.6	479.6	479.1	478.8	477.4
43.5°	464.5	465.2	466.1	468.0	470.5	472.4	474.1	475.4	475.0	474.4	473.2
44°	460.4	460.7	461.6	463.4	466.3	468.2	470.1	470.9	470.6	470.2	469.0
44.5°	455.5	456.1	457.4	459.2	462.1	463.9	465.5	466.4	466.3	465.9	464.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	451.3	451.7	452.9	454.9	457.8	459.5	461.3	462.2	462.1	461.8	460.2
45.5°	447.0	447.1	448.4	450.3	453.3	455.0	456.9	457.5	457.8	457.2	455.6
46°	442.3	442.7	443.7	445.9	448.6	450.5	452.5	453.3	453.5	453.0	451.4
46.5°	437.8	438.1	439.1	441.0	444.1	446.1	448.1	448.7	448.8	448.4	446.8
47°	433.2	433.6	434.7	436.8	439.4	441.5	443.6	444.2	444.3	443.7	442.2
47.5°	428.6	428.8	430.3	432.1	435.1	437.0	438.9	439.8	439.7	439.4	437.8
48°	423.8	424.2	425.8	427.4	430.6	432.4	434.5	435.3	435.2	434.7	433.5
48.5°	419.1	419.5	420.9	422.8	425.9	427.8	429.8	430.8	430.8	430.1	428.8
49°	414.5	414.7	416.2	418.1	421.2	423.0	425.4	426.2	426.1	425.5	424.2
49.5°	409.7	410.0	411.3	413.4	416.4	418.4	420.5	421.2	421.6	421.0	419.5
50°	404.5	405.1	406.5	408.5	411.7	413.9	416.0	416.8	417.0	416.4	414.4
50.5°	399.8	400.1	401.7	403.9	406.8	409.1	411.2	411.9	411.9	411.4	409.7
51°	394.9	395.2	396.7	398.8	402.2	404.2	406.1	407.2	407.3	406.4	405.1
51.5°	389.9	390.4	391.8	394.0	397.2	399.4	401.4	402.4	402.5	401.7	400.1
52°	384.8	385.3	386.7	389.0	392.6	394.6	396.8	397.8	397.5	396.7	395.5
52.5°	379.7	380.4	381.9	384.0	387.5	389.5	391.8	392.8	392.5	391.9	390.3
53°	374.9	375.4	377.0	379.1	382.5	384.7	386.9	387.9	387.7	387.1	385.4
53.5°	369.7	370.0	371.8	373.8	377.6	379.8	381.6	382.8	382.6	382.1	380.6
54°	364.6	364.7	366.5	368.6	372.6	374.5	376.8	378.0	377.5	377.3	375.4
54.5°	359.6	360.1	361.5	363.5	367.3	369.7	371.8	372.7	372.6	372.1	370.2
55°	354.4	354.9	356.4	358.8	362.5	364.7	366.9	368.1	367.7	367.1	365.2
55.5°	349.2	349.4	351.3	353.3	357.3	359.7	361.7	362.9	362.7	361.9	360.3
56°	343.9	344.2	345.9	348.2	352.3	354.3	356.8	357.9	357.5	356.7	355.1
56.5°	338.4	339.0	340.8	342.7	346.9	349.1	351.4	352.4	352.5	351.3	350.0
57°	333.0	333.7	335.3	337.3	341.6	344.1	346.3	347.5	347.1	346.3	344.7
57.5°	327.6	328.1	329.8	332.0	336.3	338.5	340.9	341.9	341.9	341.1	339.4
58°	322.5	322.9	324.4	326.8	331.0	333.4	335.8	336.7	336.4	335.6	334.1
58.5°	316.9	317.1	319.1	321.3	325.6	328.1	330.2	331.4	331.5	330.2	328.8
59°	311.4	312.0	313.5	316.0	320.3	322.7	324.9	326.0	326.1	324.7	323.3
59.5°	305.7	306.4	308.0	310.4	314.8	317.3	319.5	320.7	320.4	319.6	317.9
60°	300.1	300.8	302.7	305.1	309.3	311.9	314.1	315.2	315.0	314.0	312.4
60.5°	294.8	295.3	296.8	299.4	303.6	306.5	308.7	309.8	309.6	308.7	306.9
61°	289.4	289.9	291.5	294.2	298.1	301.0	303.3	304.3	304.1	303.0	301.7
61.5°	283.5	284.1	285.9	288.5	292.6	295.4	297.5	298.7	298.8	297.6	296.1
62°	277.7	278.6	280.3	282.7	287.5	290.1	292.2	293.3	293.2	292.2	290.6
62.5°	271.9	272.8	274.3	276.9	281.8	284.5	286.9	287.8	287.7	286.6	284.9
63°	266.2	267.2	268.7	271.3	276.0	278.9	281.1	282.3	282.1	281.1	279.4
63.5°	260.5	261.5	263.1	265.6	270.3	273.2	275.6	276.5	276.5	275.5	273.7
64°	254.6	255.6	257.4	259.9	264.6	267.7	269.8	270.7	270.8	269.7	268.2
64.5°	249.1	250.0	251.6	254.2	259.0	261.7	264.1	265.1	265.1	264.1	262.1
65°	243.2	244.1	246.0	248.6	253.4	256.3	258.7	259.5	259.5	258.5	256.8
65.5°	237.4	238.4	240.1	242.9	247.8	250.5	252.8	253.8	253.9	252.9	250.8
66°	231.4	232.3	234.1	236.8	241.7	244.7	246.9	248.0	247.9	247.0	245.1
66.5°	225.6	226.6	228.2	230.8	236.0	238.7	241.0	242.2	242.0	240.9	239.2
67°	220.0	220.6	222.4	225.1	230.1	232.9	235.2	236.4	236.3	235.4	233.3

TEST NUMBER: P869644
 CATALOG NUMBER: SMX14RLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	213.8	214.8	216.7	219.3	224.3	227.0	229.3	230.6	230.7	229.5	227.5
68°	207.9	208.7	210.7	213.4	218.4	221.4	223.9	224.7	224.8	223.6	221.9
68.5°	201.9	202.8	204.7	207.4	212.7	215.6	217.8	218.9	218.9	217.8	216.2
69°	195.9	196.7	198.7	201.5	206.8	209.6	212.0	213.1	213.1	211.9	210.4
69.5°	189.9	190.7	192.8	195.3	200.9	203.9	206.2	207.2	207.3	206.0	204.1
70°	183.9	184.8	186.8	189.4	194.9	197.8	200.2	201.2	201.4	200.1	198.1
70.5°	178.0	178.8	180.8	183.7	189.2	191.8	194.3	195.4	195.4	194.3	192.3
71°	172.0	172.6	174.8	177.4	183.2	186.2	188.6	189.7	189.7	188.4	186.5
71.5°	165.7	166.8	168.7	171.4	177.2	180.3	182.5	183.6	183.7	182.4	180.3
72°	160.0	160.7	162.7	165.4	171.0	174.2	176.7	177.6	177.7	176.5	174.4
72.5°	154.1	154.9	156.9	159.6	165.2	168.3	170.6	171.8	171.9	170.5	168.5
73°	148.0	148.9	151.0	153.4	159.1	162.2	164.7	165.6	165.7	164.5	162.3
73.5°	141.9	142.8	144.9	147.5	153.4	156.4	158.8	159.8	159.9	158.6	156.6
74°	135.9	136.9	138.9	141.5	147.5	150.5	153.0	153.8	154.0	152.7	150.7
74.5°	129.8	130.9	132.9	135.5	141.4	144.5	147.0	148.0	148.0	146.9	144.6
75°	124.0	124.9	127.0	129.6	135.5	138.5	140.8	141.9	141.9	140.7	138.7
75.5°	118.1	119.0	121.1	123.8	129.5	132.5	134.9	136.1	136.0	134.8	132.7
76°	112.1	113.1	115.2	117.8	123.6	126.6	128.8	130.0	130.2	128.8	126.7
76.5°	106.2	107.3	109.3	111.8	117.8	120.9	123.1	124.1	124.1	123.0	120.7
77°	100.3	101.3	103.5	106.1	111.8	114.8	117.2	118.3	118.1	117.1	115.1
77.5°	94.8	95.8	97.8	100.4	106.0	109.0	111.4	112.3	112.4	111.2	109.1
78°	89.0	90.0	92.0	94.4	100.2	103.3	105.6	106.4	106.5	105.3	103.3
78.5°	83.3	84.3	86.4	89.1	94.4	97.3	99.7	100.7	100.7	99.6	97.5
79°	77.8	78.8	80.9	83.4	88.9	91.6	93.9	94.9	94.9	93.8	91.8
79.5°	72.2	73.1	75.2	77.8	83.2	86.1	88.4	89.3	89.3	88.2	86.1
80°	66.9	67.6	69.8	72.2	77.6	80.5	82.7	83.7	83.8	82.6	80.7
80.5°	61.4	62.4	64.3	66.8	72.2	75.1	77.3	78.2	78.2	77.0	74.9
81°	56.3	57.2	59.1	61.5	66.8	69.5	71.6	72.7	72.7	71.6	69.6
81.5°	51.2	52.3	53.9	56.4	61.5	64.1	66.2	67.2	67.1	65.9	64.1
82°	46.1	47.1	48.9	51.1	56.1	58.9	60.8	61.8	61.9	60.7	58.8
82.5°	41.4	42.4	44.1	46.3	51.2	53.8	55.7	56.6	56.6	55.5	53.7
83°	36.7	37.7	39.3	41.4	46.2	48.8	50.7	51.8	51.7	50.7	48.7
83.5°	32.4	33.1	34.8	36.7	41.4	43.7	45.7	46.7	46.6	45.5	43.8
84°	28.0	28.9	30.5	32.4	36.5	39.1	40.8	41.8	41.8	40.6	38.9
84.5°	24.1	24.9	26.3	28.3	32.1	34.3	36.2	37.1	37.0	36.0	34.4
85°	20.5	21.2	22.6	24.2	27.8	30.0	31.8	32.6	32.5	31.5	30.1
85.5°	16.9	17.4	18.9	20.6	23.8	25.8	27.4	28.2	28.2	27.3	25.8
86°	13.7	14.1	15.4	16.9	20.4	22.0	23.4	24.2	24.1	23.2	21.9
86.5°	10.3	10.9	12.2	13.7	17.0	18.6	20.0	20.6	20.6	19.8	18.4
87°	7.5	7.9	8.9	10.4	13.8	15.3	16.7	17.4	17.3	16.5	15.2
87.5°	5.5	5.6	6.5	7.5	10.7	12.2	13.5	14.0	13.9	13.3	12.1
88°	3.4	3.8	4.4	5.5	8.0	9.2	10.4	11.0	10.9	10.2	9.2
88.5°	2.0	2.3	2.8	3.5	5.5	6.7	7.6	8.1	8.1	7.5	6.5
89°	1.3	1.3	1.7	2.1	3.4	4.5	5.3	5.7	5.6	5.1	4.4
89.5°	0.8	0.8	0.9	1.2	1.9	2.8	3.3	3.6	3.6	3.2	2.5

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



TEST NUMBER: P869644
CATALOG NUMBER: SMX14RLSFS010-1600LM-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: P869644
 CATALOG NUMBER: SMX14RLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	667.0	667.0	667.0	667.0	667.0	667.0
0.5°	667.0	667.6	667.3	667.0	667.2	666.7
1°	667.0	667.6	667.2	666.8	667.0	666.8
1.5°	667.1	667.5	667.1	666.4	666.3	666.5
2°	666.8	667.2	666.8	666.5	666.3	666.3
2.5°	666.4	666.8	666.6	666.2	665.9	665.7
3°	666.2	666.3	666.4	665.9	666.0	665.5
3.5°	666.1	666.1	665.9	665.6	665.7	665.4
4°	665.7	665.7	665.3	664.7	664.5	665.0
4.5°	665.1	665.2	665.2	664.2	664.4	664.2
5°	664.5	665.0	664.4	663.7	663.4	663.5
5.5°	664.3	664.0	664.2	663.3	663.3	662.7
6°	663.6	663.4	663.2	662.6	662.7	662.2
6.5°	662.6	662.4	662.5	661.7	661.9	661.7
7°	661.9	661.8	661.7	661.1	661.2	661.0
7.5°	661.1	661.1	661.0	660.3	660.7	660.3
8°	660.2	660.0	660.0	659.5	660.0	659.3
8.5°	659.6	659.2	658.9	658.5	658.7	658.2
9°	658.9	658.5	658.3	657.3	657.5	657.1
9.5°	657.8	657.5	657.2	656.1	656.4	655.9
10°	656.5	656.2	655.9	655.4	655.3	654.8
10.5°	655.5	655.3	654.8	654.0	653.7	653.6
11°	654.4	654.0	653.7	653.0	652.4	652.9
11.5°	653.1	652.7	652.4	651.6	651.4	651.2
12°	651.8	651.5	651.1	650.4	650.3	649.8
12.5°	650.6	650.3	649.9	648.7	648.6	648.1
13°	649.0	649.1	648.4	647.5	647.4	647.1
13.5°	647.5	647.5	646.9	646.0	646.0	645.5
14°	646.3	645.9	645.7	644.4	644.0	644.1
14.5°	644.4	644.4	643.9	642.9	642.7	642.0
15°	643.0	642.9	642.3	641.2	640.8	640.8
15.5°	641.7	641.2	640.5	639.4	639.2	639.0
16°	639.7	639.5	638.7	637.6	637.5	637.1
16.5°	638.1	637.7	636.8	635.6	635.5	635.5
17°	636.4	635.8	634.9	634.0	633.8	633.8
17.5°	634.8	633.8	633.3	632.1	632.1	631.8
18°	632.6	632.0	630.8	630.1	629.8	629.8
18.5°	630.9	630.3	629.3	628.1	628.1	627.7
19°	628.8	628.1	627.2	626.2	625.7	625.7
19.5°	626.6	625.9	625.4	624.3	623.7	623.4
20°	624.6	623.9	623.0	622.0	621.7	621.4
20.5°	622.6	621.5	620.7	619.6	619.5	619.2
21°	620.1	619.4	618.4	617.4	616.8	617.1
21.5°	617.7	617.1	616.1	615.1	614.6	614.7
22°	615.4	614.8	613.7	612.6	611.7	612.0

TEST NUMBER: P869644
 CATALOG NUMBER: SMX14RLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	612.9	612.2	611.3	610.0	609.6	609.8
23°	610.6	610.1	609.0	607.5	607.0	607.3
23.5°	608.1	607.5	606.7	605.0	604.7	604.6
24°	605.6	605.0	603.8	602.3	601.9	602.1
24.5°	603.3	602.3	601.3	599.6	599.2	599.2
25°	600.9	599.8	598.7	597.5	596.9	597.0
25.5°	598.1	597.3	595.8	594.5	594.2	593.9
26°	595.2	594.6	593.1	592.1	591.3	591.2
26.5°	592.2	591.4	590.3	588.9	588.5	588.3
27°	589.6	588.7	587.6	585.9	585.5	585.8
27.5°	587.2	585.6	584.5	583.1	582.5	582.5
28°	583.6	582.7	581.7	579.7	579.1	579.4
28.5°	580.9	579.9	578.6	576.8	575.9	576.3
29°	578.1	576.8	575.3	573.8	573.1	573.2
29.5°	575.1	573.6	572.3	570.5	570.0	569.7
30°	572.0	570.5	569.5	567.4	567.0	566.7
30.5°	568.7	567.5	566.3	564.5	563.8	564.0
31°	565.8	564.2	562.5	561.3	560.6	560.6
31.5°	562.7	560.5	559.5	558.1	557.3	557.3
32°	559.2	557.6	556.1	554.7	553.7	554.2
32.5°	556.0	554.2	553.0	551.2	550.4	550.8
33°	552.5	550.8	549.5	547.8	547.1	547.1
33.5°	549.1	547.1	545.8	544.3	543.5	543.3
34°	545.6	544.0	542.1	540.5	539.9	540.0
34.5°	542.4	540.2	538.7	537.0	536.0	536.2
35°	538.5	536.7	534.8	533.5	532.6	532.7
35.5°	535.1	533.2	531.8	529.9	528.9	529.0
36°	531.3	529.6	527.9	526.0	525.3	525.4
36.5°	527.9	525.6	523.9	522.1	521.4	521.7
37°	523.9	522.0	519.9	518.8	517.9	518.0
37.5°	520.7	518.5	516.7	515.1	514.0	513.8
38°	516.4	514.3	512.5	510.8	509.8	509.7
38.5°	512.7	510.4	508.5	506.8	506.1	506.1
39°	508.6	506.5	504.4	503.2	502.4	502.2
39.5°	505.0	502.4	500.8	499.0	498.2	498.3
40°	500.7	498.7	496.9	495.1	494.3	494.2
40.5°	497.1	494.7	492.6	491.0	490.4	489.9
41°	492.7	490.6	488.3	486.8	486.0	485.8
41.5°	489.0	486.3	484.2	482.6	481.6	481.6
42°	484.7	482.1	480.1	478.1	477.5	477.4
42.5°	480.4	477.9	475.9	474.0	473.2	473.0
43°	476.3	473.4	471.7	469.7	468.9	468.6
43.5°	472.0	469.2	467.6	465.4	464.7	464.5
44°	467.5	465.0	463.0	460.9	460.2	460.4
44.5°	463.4	460.6	458.7	456.6	455.6	455.5

TEST NUMBER: P869644
 CATALOG NUMBER: SMX14RLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	459.0	456.1	454.1	452.3	451.4	451.3
45.5°	454.5	451.6	449.7	447.5	447.1	447.0
46°	450.0	447.4	445.1	443.3	442.3	442.3
46.5°	445.6	442.5	440.5	438.7	437.4	437.8
47°	441.1	438.2	435.8	434.2	432.8	433.2
47.5°	436.4	433.5	431.2	429.6	428.3	428.6
48°	431.8	428.8	426.7	424.9	423.8	423.8
48.5°	427.4	424.2	422.0	420.2	419.4	419.1
49°	422.8	419.6	417.3	415.3	414.5	414.5
49.5°	417.8	414.8	412.6	410.5	409.4	409.7
50°	413.1	409.7	407.6	405.8	404.7	404.5
50.5°	408.2	405.0	402.9	400.9	399.9	399.8
51°	403.4	400.3	397.9	395.9	395.2	394.9
51.5°	398.9	395.4	393.1	391.0	390.0	389.9
52°	393.8	390.5	388.3	386.3	384.9	384.8
52.5°	388.8	385.3	383.2	381.1	380.1	379.7
53°	383.7	380.3	378.2	376.0	374.8	374.9
53.5°	378.8	375.3	372.8	370.7	369.7	369.7
54°	373.6	370.0	367.9	365.8	364.5	364.6
54.5°	368.7	365.0	362.9	360.8	359.8	359.6
55°	363.6	360.1	357.6	355.6	354.6	354.4
55.5°	358.6	354.6	352.3	350.5	349.3	349.2
56°	353.4	349.4	347.3	345.1	343.8	343.9
56.5°	348.1	344.2	341.7	339.6	338.8	338.4
57°	342.8	339.0	336.5	334.3	333.1	333.0
57.5°	337.5	333.5	331.0	328.8	327.6	327.6
58°	332.2	328.1	325.6	323.4	322.3	322.5
58.5°	327.0	322.8	320.2	317.9	316.8	316.9
59°	321.6	317.2	314.5	312.4	311.4	311.4
59.5°	315.9	311.9	309.3	306.7	305.6	305.7
60°	310.4	306.2	303.6	301.2	300.2	300.1
60.5°	305.0	300.6	298.0	295.5	294.7	294.8
61°	299.4	295.1	292.5	290.4	289.1	289.4
61.5°	294.0	289.5	287.0	284.6	283.5	283.5
62°	288.5	283.8	281.3	278.9	277.8	277.7
62.5°	282.8	278.1	275.5	272.9	271.9	271.9
63°	277.2	272.4	269.8	267.4	266.4	266.2
63.5°	271.5	266.5	264.1	261.8	260.6	260.5
64°	265.8	260.9	258.3	256.2	255.0	254.6
64.5°	260.0	255.3	252.6	250.4	249.1	249.1
65°	254.5	249.5	246.7	244.5	243.2	243.2
65.5°	248.8	243.6	241.0	238.6	237.5	237.4
66°	242.7	237.9	235.0	232.4	231.4	231.4
66.5°	236.8	231.8	229.1	226.7	225.6	225.6
67°	231.1	226.2	223.3	221.0	219.7	220.0

TEST NUMBER: P869644
 CATALOG NUMBER: SMX14RLSFS010-1600LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	225.6	220.2	217.2	215.2	213.6	213.8
68°	219.6	214.3	211.2	209.0	207.9	207.9
68.5°	213.6	208.4	205.3	202.9	201.8	201.9
69°	207.6	202.3	199.3	197.2	195.7	195.9
69.5°	201.8	196.4	193.4	191.0	189.7	189.9
70°	195.9	190.4	187.6	185.0	184.1	183.9
70.5°	189.9	184.4	181.5	179.2	178.1	178.0
71°	183.9	178.2	175.5	173.0	171.8	172.0
71.5°	178.1	172.2	169.4	167.1	165.6	165.7
72°	172.0	166.3	163.5	161.0	160.0	160.0
72.5°	166.1	160.4	157.6	155.2	154.0	154.1
73°	159.9	154.3	151.4	149.0	148.0	148.0
73.5°	154.1	148.3	145.5	143.1	141.8	141.9
74°	148.2	142.4	139.3	137.1	135.8	135.9
74.5°	142.2	136.4	133.5	131.0	129.8	129.8
75°	136.1	130.3	127.5	125.1	124.1	124.0
75.5°	130.2	124.4	121.6	119.1	117.8	118.1
76°	124.1	118.4	115.6	113.2	112.1	112.1
76.5°	118.4	112.5	109.5	107.4	106.3	106.2
77°	112.4	106.8	103.9	101.6	100.3	100.3
77.5°	106.5	101.0	98.1	96.0	94.8	94.8
78°	100.7	95.0	92.3	90.2	89.0	89.0
78.5°	94.9	89.4	86.8	84.5	83.5	83.3
79°	89.2	83.8	81.1	78.9	77.8	77.8
79.5°	83.5	78.1	75.5	73.2	72.2	72.2
80°	78.1	72.5	69.8	67.7	66.7	66.9
80.5°	72.6	67.2	64.6	62.3	61.3	61.4
81°	67.1	61.7	59.1	57.2	56.3	56.3
81.5°	61.7	56.7	54.2	52.1	51.1	51.2
82°	56.5	51.6	49.1	47.1	46.1	46.1
82.5°	51.5	46.7	44.3	42.4	41.4	41.4
83°	46.5	41.7	39.5	37.7	36.8	36.7
83.5°	41.5	37.1	34.9	33.1	32.3	32.4
84°	36.7	32.7	30.5	28.9	28.0	28.0
84.5°	32.4	28.4	26.5	24.9	24.1	24.1
85°	28.0	24.3	22.6	21.2	20.6	20.5
85.5°	23.9	20.8	19.0	17.6	16.9	16.9
86°	20.3	17.2	15.5	14.2	13.6	13.7
86.5°	17.0	13.8	12.2	10.8	10.3	10.3
87°	13.8	10.6	9.0	8.0	7.4	7.5
87.5°	10.7	7.6	6.5	5.7	5.4	5.5
88°	8.0	5.5	4.5	3.8	3.4	3.4
88.5°	5.5	3.5	2.9	2.4	2.1	2.0
89°	3.5	2.3	1.8	1.3	1.2	1.3
89.5°	1.8	1.3	1.0	0.8	1.1	0.8

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869644
CATALOG NUMBER: SMX14RLSFS010-1600LM-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)