

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: P869671

Luminaire Tested: **SMX14SLSFS010-1600LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869671
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14SLSFS010-1600LM-2700K
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

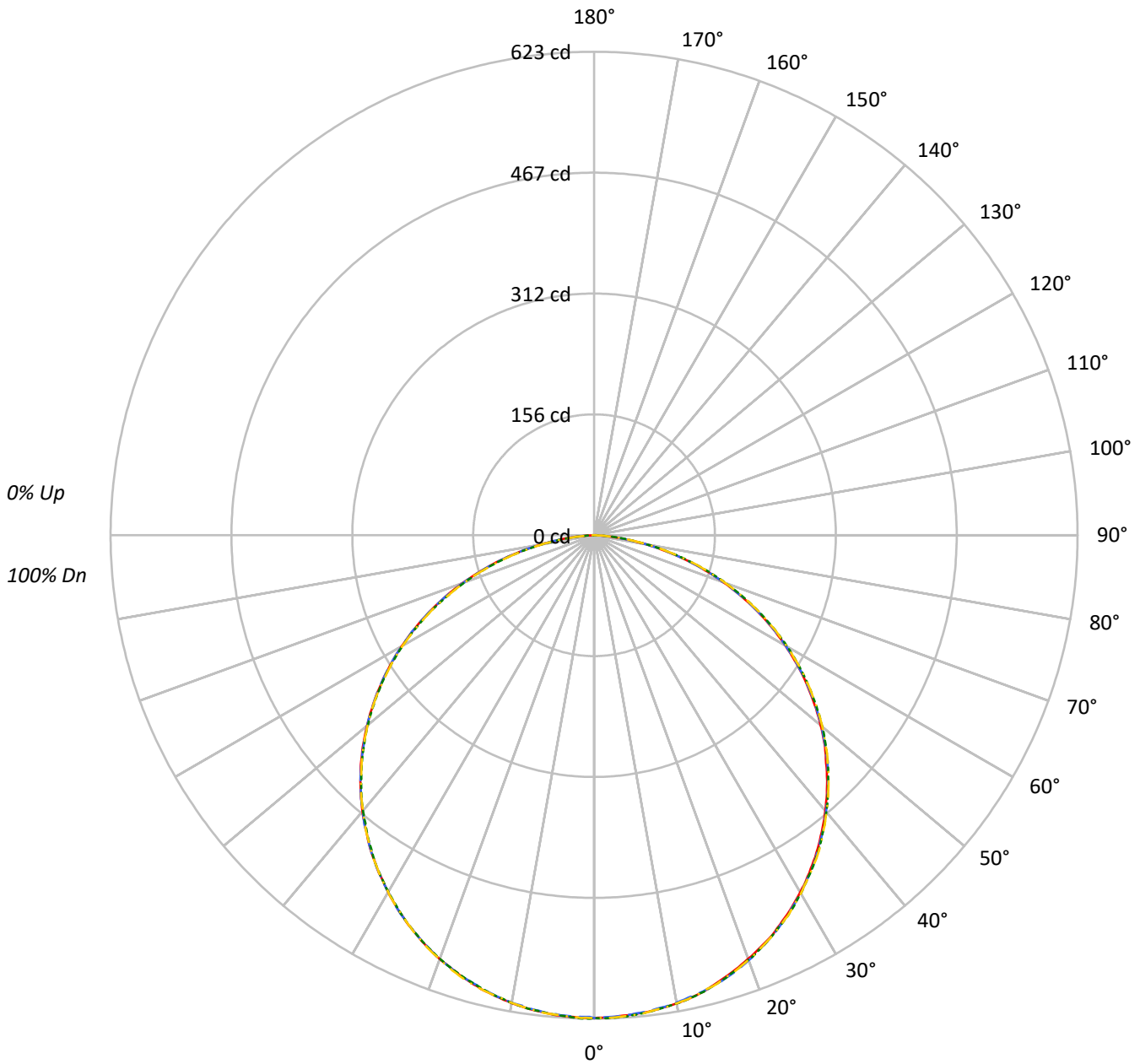
Lumens per Lamp: N/A
 Luminaire Lumens: 1817.9 lumens
 Efficiency: N/A
 Efficacy: 88.7 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 20.5
 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	80	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	58	52	62	56	52	50					50			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	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	43	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°	4918	4918	4918	4918
5°	4912	4920	4917	4916
10°	4916	4916	4913	4912
15°	4905	4910	4905	4896
20°	4884	4896	4888	4885
25°	4871	4879	4866	4867
30°	4849	4863	4845	4840
35°	4818	4838	4821	4811
40°	4781	4803	4790	4778
45°	4736	4768	4756	4736
50°	4688	4722	4697	4681
55°	4608	4645	4626	4611
60°	4505	4548	4526	4504
65°	4352	4401	4386	4341
70°	4099	4176	4164	4104
75°	3726	3811	3814	3729
80°	3118	3245	3227	3122
85°	2131	2258	2240	2140

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	3.2
10°-20°	169.2	9.3
20°-30°	257.6	14.2
30°-40°	312.9	17.2
40°-50°	327.8	18.0
50°-60°	299.8	16.5
60°-70°	230.8	12.7
70°-80°	130.6	7.2
80°-90°	30.3	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°	485.7	26.7
0°-40°	798.5	43.9
0°-60°	1426.1	78.5
0°-90°	1817.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1817.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	622	622	622	622	622	
5°	619	620	620	620	619	59
15°	599	600	600	598	599	169
25°	559	560	558	558	559	257
35°	499	501	500	499	499	312
45°	424	427	426	424	424	327
55°	334	337	336	335	334	299
65°	233	235	234	232	233	230
75°	122	125	125	122	122	129
85°	24	25	25	24	24	29
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°	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2
0.5°	621.9	622.9	621.3	622.0	622.6	622.2	622.3	622.2	621.9	622.6	620.6
1°	621.9	623.1	621.6	621.7	622.6	622.1	622.0	621.9	622.1	622.1	620.8
1.5°	621.5	622.5	621.3	621.4	622.6	621.9	622.4	621.5	621.8	622.2	620.8
2°	621.5	622.3	621.1	621.5	622.3	621.5	622.2	621.3	621.9	622.3	620.8
2.5°	621.2	622.2	621.0	620.9	622.4	621.8	621.9	621.2	621.3	622.2	620.6
3°	620.4	622.0	620.4	620.7	621.8	621.4	621.5	621.2	621.1	621.5	620.5
3.5°	620.1	621.4	620.5	620.5	621.5	620.8	621.1	620.8	620.8	621.5	620.2
4°	620.0	620.8	619.8	619.8	621.5	620.8	620.8	620.8	620.5	620.9	620.1
4.5°	619.6	620.6	619.4	619.5	620.6	620.3	620.4	620.1	620.4	621.2	619.2
5°	619.1	620.2	618.6	619.4	620.1	619.9	620.2	619.5	619.8	620.4	619.1
5.5°	618.8	619.5	618.4	618.8	619.5	619.5	619.9	618.7	619.1	619.7	618.6
6°	618.4	618.9	617.9	618.3	619.1	618.4	619.1	618.3	618.4	618.8	618.1
6.5°	618.0	618.8	617.1	617.6	618.4	617.4	618.4	617.8	617.6	618.2	617.1
7°	617.3	618.0	616.6	617.0	617.6	617.1	617.2	616.9	617.3	617.4	616.4
7.5°	616.6	617.0	615.5	616.0	616.8	616.3	616.6	616.1	616.4	616.9	615.7
8°	615.5	616.2	614.9	615.3	616.0	615.4	616.0	615.4	615.7	616.1	614.7
8.5°	614.9	615.5	614.6	614.3	615.1	614.9	615.2	614.1	614.9	614.9	613.6
9°	614.3	614.8	613.6	613.6	614.3	613.8	614.6	613.2	613.9	614.3	612.9
9.5°	613.4	613.6	612.6	612.8	613.4	612.6	613.4	612.5	612.9	613.6	612.2
10°	612.6	612.2	611.5	611.9	612.6	612.2	612.6	611.6	612.2	612.6	611.6
10.5°	611.9	611.5	610.3	610.8	612.2	611.1	611.5	610.5	610.8	611.4	610.4
11°	610.8	610.1	609.6	610.0	611.0	610.1	610.8	609.3	609.8	610.7	609.1
11.5°	609.8	609.3	608.1	608.6	609.8	609.4	610.1	608.2	608.5	609.1	608.1
12°	608.4	608.5	607.1	607.9	608.6	608.1	608.3	606.8	607.6	607.6	607.0
12.5°	607.2	607.5	606.3	606.5	607.7	607.3	607.0	605.7	606.3	606.3	605.5
13°	606.0	606.3	605.1	605.3	606.1	605.8	605.8	604.6	604.9	605.2	604.1
13.5°	604.6	605.2	604.2	603.6	605.0	604.0	603.8	603.1	603.9	604.2	602.9
14°	603.0	603.6	602.7	602.2	603.4	602.9	602.5	601.4	602.6	602.6	601.2
14.5°	601.2	602.0	601.4	600.7	601.6	601.4	601.5	600.0	600.6	601.4	599.4
15°	599.4	600.8	600.3	599.6	600.1	600.3	600.4	598.0	599.5	600.0	598.4
15.5°	597.5	599.2	599.1	597.5	598.6	598.6	598.7	596.6	597.6	598.4	596.7
16°	595.8	597.0	597.4	595.9	596.7	596.7	596.6	595.6	595.8	596.5	595.4
16.5°	594.0	595.0	595.6	594.5	595.3	595.0	594.8	594.0	594.2	594.7	593.9
17°	592.4	593.2	594.2	592.5	593.4	593.2	593.2	592.5	592.5	592.7	592.3
17.5°	590.5	591.3	592.5	590.3	591.5	591.3	591.7	590.5	590.3	591.2	590.5
18°	588.7	589.1	590.8	588.8	589.7	589.7	589.9	588.6	588.4	589.0	588.5
18.5°	586.8	587.4	589.1	587.1	588.1	587.7	588.0	587.2	586.5	587.4	586.6
19°	584.8	585.3	587.0	585.1	585.9	586.1	586.2	585.4	584.8	585.5	584.9
19.5°	582.9	583.2	585.0	582.8	583.9	584.3	584.2	583.2	583.3	583.6	583.3
20°	580.7	581.5	582.7	581.0	582.1	582.4	582.3	581.5	581.1	581.6	581.1
20.5°	578.9	579.8	580.9	578.8	580.5	580.7	580.4	579.3	579.3	579.4	579.4
21°	576.8	577.3	578.9	577.1	578.4	578.2	578.2	577.6	577.1	577.3	577.0
21.5°	574.6	575.3	576.6	574.6	576.0	575.7	575.6	575.3	574.7	575.2	574.6
22°	572.6	573.1	573.4	572.7	573.9	573.2	573.6	573.6	572.8	572.8	572.4

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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°	570.5	571.1	571.9	570.6	571.7	570.9	571.5	571.1	570.4	570.4	569.9
23°	568.4	568.9	569.5	568.1	569.5	568.7	569.3	568.5	568.4	568.0	567.3
23.5°	566.3	566.7	567.3	566.0	567.1	566.6	567.0	566.1	565.5	565.6	565.5
24°	564.2	564.3	564.6	563.7	564.7	564.6	564.8	563.9	563.2	563.7	563.0
24.5°	561.5	561.8	562.4	561.2	562.4	562.3	562.7	561.7	560.8	561.7	560.8
25°	558.6	559.7	560.1	558.6	559.5	559.8	560.1	559.3	558.0	558.7	558.2
25.5°	556.2	557.3	557.3	556.1	557.3	557.3	557.3	556.3	556.1	556.1	556.0
26°	553.2	554.4	554.6	553.2	554.9	554.8	554.9	553.9	553.5	554.1	553.5
26.5°	551.0	551.8	552.2	550.8	552.5	552.0	552.3	550.8	550.5	551.1	550.5
27°	548.4	549.4	549.1	548.6	550.1	549.4	550.1	548.7	547.9	548.3	548.3
27.5°	545.7	546.6	546.6	545.9	547.1	546.6	547.4	546.0	545.6	545.9	545.2
28°	542.8	543.5	543.7	543.1	544.5	544.2	544.2	543.2	542.5	543.4	542.8
28.5°	540.0	540.8	540.8	540.9	541.8	541.2	541.4	540.8	539.4	540.8	540.0
29°	537.0	538.0	538.3	537.8	538.5	538.2	538.5	537.8	536.4	537.9	536.6
29.5°	534.2	535.0	535.2	535.2	535.6	535.4	535.9	534.7	533.9	535.3	533.6
30°	531.3	532.0	532.3	532.1	532.9	532.8	533.1	532.0	530.9	531.8	530.6
30.5°	528.3	529.1	529.6	529.6	529.8	529.9	529.9	529.1	527.9	528.8	527.8
31°	525.6	525.9	526.1	526.8	526.6	526.9	526.6	526.1	524.8	525.9	525.0
31.5°	522.5	523.1	523.3	523.7	523.5	523.8	523.7	522.8	521.6	522.6	521.9
32°	519.0	520.2	520.3	520.4	520.2	520.7	520.7	519.7	518.5	519.5	518.9
32.5°	516.0	517.2	517.4	517.6	517.6	517.7	518.0	516.9	515.9	516.9	515.6
33°	512.4	513.8	513.8	514.4	514.5	514.4	514.6	513.7	512.8	513.8	512.8
33.5°	509.4	510.7	511.1	511.2	511.3	510.8	511.6	510.4	509.5	510.7	509.4
34°	506.2	507.7	507.6	508.0	508.0	507.7	508.6	506.9	506.1	506.9	506.2
34.5°	503.0	503.9	504.3	504.7	504.9	504.6	505.5	503.4	503.0	503.6	503.2
35°	499.3	499.9	500.7	501.2	501.4	501.4	502.4	500.6	499.7	500.1	499.7
35.5°	496.3	496.7	497.3	497.5	498.3	498.3	498.9	497.0	496.6	496.6	496.2
36°	492.8	493.4	493.6	494.2	494.7	494.5	495.5	493.5	492.9	493.2	492.8
36.5°	489.1	490.4	490.2	490.8	491.3	490.7	492.0	490.0	489.3	489.6	488.9
37°	485.2	486.6	486.9	487.3	487.7	487.6	488.5	486.0	485.5	486.2	485.7
37.5°	481.8	483.3	483.7	483.8	483.9	483.9	484.6	482.9	482.0	482.7	482.3
38°	478.3	479.9	480.0	480.0	480.5	480.1	480.7	479.4	478.9	479.3	478.9
38.5°	474.6	475.9	476.2	476.2	476.7	476.3	477.2	475.8	475.3	475.5	475.5
39°	471.0	472.5	472.4	472.6	473.1	472.8	473.6	472.0	471.7	471.8	471.4
39.5°	467.2	468.6	468.6	468.5	469.4	469.7	469.6	468.4	468.3	468.0	467.7
40°	463.4	464.5	464.8	464.8	465.5	466.2	465.9	465.2	464.3	464.5	464.1
40.5°	459.9	461.0	461.2	460.8	461.7	462.4	462.5	461.4	460.5	460.7	460.3
41°	455.9	457.2	457.4	457.2	458.3	458.6	458.5	457.6	456.4	456.9	456.5
41.5°	452.4	453.3	453.7	453.1	454.4	455.1	455.0	453.8	453.1	453.1	453.0
42°	448.3	449.3	449.7	449.3	450.1	451.0	450.8	450.0	449.6	449.0	449.0
42.5°	444.1	445.3	446.0	445.2	446.4	447.0	446.7	446.1	445.5	444.9	445.1
43°	440.2	441.3	442.1	441.3	442.6	442.9	442.7	442.0	441.3	440.9	441.2
43.5°	436.1	437.5	437.9	437.3	438.6	438.6	438.9	438.0	437.5	436.9	437.0
44°	432.0	433.4	433.8	433.4	434.5	434.7	434.8	434.1	433.3	432.8	433.1
44.5°	428.0	429.1	429.7	429.1	430.6	430.8	430.8	430.0	429.3	428.9	428.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	423.7	425.1	425.8	425.1	426.6	426.8	426.5	425.9	425.5	425.0	424.5
45.5°	419.2	420.9	421.8	421.0	422.7	422.7	422.2	422.0	421.2	420.8	420.3
46°	415.3	417.2	417.4	417.1	418.3	418.3	418.2	417.6	416.8	416.4	416.3
46.5°	411.6	412.8	413.0	412.9	414.1	414.1	414.3	413.3	412.6	412.7	412.0
47°	407.5	408.5	408.7	408.6	409.7	409.9	410.0	408.9	408.5	408.2	407.7
47.5°	403.4	404.5	404.3	404.1	405.4	405.8	405.5	404.6	404.2	403.8	403.2
48°	398.9	400.0	399.8	399.9	401.2	401.6	401.3	400.5	399.6	399.7	398.9
48.5°	394.4	395.6	395.6	395.4	397.0	397.0	397.0	396.2	395.1	395.3	394.7
49°	389.9	391.3	391.1	391.1	392.8	392.7	392.5	391.7	391.1	391.0	390.4
49.5°	385.6	386.9	386.8	386.5	388.4	388.0	388.2	387.6	386.5	386.9	385.9
50°	381.3	382.3	382.3	382.0	384.0	384.0	383.7	382.9	382.0	382.3	381.7
50.5°	376.4	377.9	377.8	377.6	379.4	379.3	379.2	378.5	377.5	377.7	377.3
51°	372.0	373.2	373.1	373.0	374.7	374.7	374.9	373.8	373.0	373.3	373.0
51.5°	367.4	368.7	368.8	368.5	370.2	370.0	370.3	369.2	368.4	368.7	368.0
52°	362.9	364.3	364.0	364.0	365.4	365.7	365.7	364.6	363.4	364.0	363.4
52.5°	358.1	359.4	359.4	359.4	361.0	361.3	361.0	360.0	359.1	359.8	358.8
53°	353.5	354.8	354.6	354.4	356.1	356.4	356.1	355.3	354.7	355.0	354.4
53.5°	348.7	350.0	349.9	349.6	351.3	351.5	351.2	350.9	350.0	350.7	349.6
54°	343.9	344.9	345.0	344.8	346.6	346.8	346.6	346.2	345.1	345.7	345.1
54.5°	338.8	340.0	340.4	340.2	341.9	341.9	341.8	341.2	340.3	340.8	340.5
55°	334.4	335.5	335.1	335.7	337.1	337.2	337.2	336.5	335.7	336.1	335.9
55.5°	329.8	330.6	330.5	330.6	332.2	332.6	332.0	331.4	330.9	331.6	331.0
56°	324.9	325.9	325.6	326.0	327.4	327.9	327.8	326.9	326.3	326.7	326.2
56.5°	320.1	320.9	320.9	321.1	322.6	323.0	322.9	321.9	321.2	321.7	321.2
57°	314.9	315.7	315.9	316.3	317.7	318.2	317.9	317.1	316.1	316.8	316.4
57.5°	309.7	310.7	310.9	311.2	312.8	312.9	313.0	312.1	311.4	311.9	311.6
58°	305.0	305.7	305.9	306.0	307.6	308.1	307.6	307.4	306.4	306.7	306.9
58.5°	299.9	300.9	301.0	301.0	302.7	303.3	302.2	302.2	301.5	301.7	301.9
59°	294.7	296.0	295.5	295.7	297.9	297.9	297.5	297.2	296.6	297.0	296.7
59.5°	289.7	290.6	290.4	290.6	292.9	292.7	292.5	292.1	291.2	291.9	291.6
60°	285.0	285.5	285.2	285.4	287.7	287.7	287.4	287.4	286.3	286.7	286.5
60.5°	280.1	280.3	280.2	280.0	282.5	282.5	281.9	281.9	280.8	281.5	281.4
61°	274.6	275.0	275.1	274.8	277.3	277.7	276.9	277.2	276.0	276.3	276.1
61.5°	269.4	269.9	270.1	269.5	272.0	272.5	271.7	271.8	271.0	271.5	270.9
62°	264.3	264.7	265.0	264.7	267.0	267.4	267.0	266.8	266.0	266.3	266.2
62.5°	259.1	259.2	259.8	259.2	261.5	261.9	261.6	261.5	260.6	261.0	260.8
63°	253.6	253.9	254.5	254.2	256.2	257.0	256.4	256.3	255.4	255.7	255.3
63.5°	248.4	248.9	249.1	248.9	251.0	251.7	251.2	251.2	250.4	250.4	250.3
64°	243.0	243.5	243.8	243.6	245.9	246.3	246.0	245.6	245.1	245.3	244.9
64.5°	238.0	238.5	238.7	238.2	240.5	240.7	240.4	240.1	239.7	239.7	239.6
65°	232.7	233.2	233.1	233.0	235.3	235.8	235.4	234.9	234.5	234.7	234.5
65.5°	227.3	227.6	227.7	227.3	230.3	230.0	229.7	229.4	229.0	229.4	229.3
66°	221.8	222.1	222.1	221.8	224.7	224.6	223.9	223.9	223.5	224.1	223.9
66.5°	216.2	216.7	216.4	216.4	219.1	219.0	218.8	218.5	218.3	218.7	218.2
67°	210.5	211.0	211.1	211.0	213.5	213.9	213.5	213.3	212.8	213.2	213.1

TEST NUMBER: P869671
 CATALOG NUMBER: SMX14SLSFS010-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	205.2	205.7	205.6	205.6	208.0	208.3	207.9	207.7	207.5	207.8	207.5
68°	199.7	200.2	200.0	200.2	202.7	203.1	202.5	202.3	202.5	202.4	202.0
68.5°	194.2	194.6	194.6	194.5	197.3	197.6	197.1	196.9	197.1	197.0	196.5
69°	188.8	189.2	189.1	188.9	192.0	192.1	191.6	191.4	191.4	191.3	190.7
69.5°	183.0	183.5	183.6	183.4	186.2	186.6	186.1	185.7	185.8	185.8	185.4
70°	177.4	178.0	177.9	177.7	180.7	181.0	180.4	180.0	180.2	180.4	179.7
70.5°	171.9	172.4	172.0	172.3	175.2	175.5	174.9	174.8	174.9	174.7	174.4
71°	166.4	166.7	166.5	166.6	169.7	170.0	169.1	169.3	169.2	169.2	168.9
71.5°	161.0	161.3	161.0	160.8	164.0	164.1	163.8	163.6	163.8	163.5	163.2
72°	155.5	155.6	155.4	155.2	158.3	158.6	158.2	158.2	158.3	157.9	157.7
72.5°	149.6	150.3	150.0	149.5	152.9	153.1	152.8	152.5	152.8	152.4	152.1
73°	144.2	144.6	144.4	144.2	147.3	147.6	147.2	147.1	147.1	146.9	146.6
73.5°	138.7	139.1	138.7	138.7	141.9	142.2	142.0	141.7	141.7	141.5	141.4
74°	133.1	133.4	133.3	133.2	136.3	136.7	136.6	136.1	136.2	135.8	135.7
74.5°	127.6	128.1	127.6	127.7	130.7	131.1	130.7	130.6	130.5	130.5	130.3
75°	122.0	122.4	122.2	122.0	124.8	125.3	125.2	125.0	124.9	124.9	124.8
75.5°	116.5	116.6	116.5	116.4	119.3	119.8	119.5	119.5	119.4	119.4	119.3
76°	111.0	111.2	111.0	111.1	113.8	114.3	113.8	113.9	113.9	113.8	113.7
76.5°	105.5	105.7	105.8	105.5	108.5	108.6	108.4	108.6	108.5	108.4	108.5
77°	100.0	100.2	99.9	100.0	102.9	103.4	103.1	103.0	102.9	103.0	103.0
77.5°	94.6	95.0	94.8	94.8	97.4	97.8	97.5	97.6	97.5	97.7	97.7
78°	89.2	89.6	89.2	89.4	92.1	92.3	92.2	92.0	91.8	92.3	92.2
78.5°	84.1	84.2	84.0	84.1	87.0	87.0	87.0	86.7	86.5	86.8	86.9
79°	78.8	78.9	78.7	79.1	81.9	82.0	81.7	81.6	81.3	81.7	81.6
79.5°	73.6	73.8	73.7	73.8	76.7	76.6	76.4	76.4	76.1	76.5	76.5
80°	68.5	68.6	68.5	68.5	71.3	71.4	71.0	71.0	70.9	71.3	71.3
80.5°	63.4	63.5	63.4	63.3	66.1	66.5	66.1	66.1	65.9	66.2	66.3
81°	58.5	58.6	58.5	58.1	61.0	61.3	61.2	60.9	61.0	61.3	61.3
81.5°	53.7	53.7	53.6	53.3	56.1	56.3	56.1	56.0	56.0	56.3	56.4
82°	49.0	49.0	48.9	48.5	51.3	51.4	51.3	51.0	51.0	51.3	51.6
82.5°	44.4	44.4	44.2	44.0	46.7	46.8	46.7	46.5	46.4	46.8	47.1
83°	39.7	39.9	39.6	39.2	42.0	42.1	42.1	41.9	41.9	42.2	42.5
83.5°	35.3	35.4	35.2	35.0	37.3	37.6	37.4	37.4	37.4	37.6	37.9
84°	31.2	31.3	31.1	30.7	33.0	33.1	33.1	33.0	32.9	33.2	33.5
84.5°	27.3	27.3	27.2	26.9	28.9	29.2	28.9	28.8	28.8	29.0	29.3
85°	23.5	23.4	23.4	23.0	24.9	25.0	25.0	24.8	24.7	25.0	25.2
85.5°	20.0	20.0	20.0	19.7	21.1	21.2	21.1	21.1	21.0	21.2	21.5
86°	16.7	16.7	16.6	16.3	18.0	18.0	18.0	17.9	17.9	18.1	18.3
86.5°	13.5	13.6	13.5	13.3	15.0	15.0	15.0	14.8	14.9	15.1	15.2
87°	10.5	10.5	10.5	10.2	11.9	12.0	12.1	11.9	11.9	12.0	12.2
87.5°	7.7	7.6	7.6	7.4	9.1	9.1	9.1	9.1	9.0	9.2	9.4
88°	5.4	5.4	5.4	5.2	6.7	6.7	6.7	6.6	6.6	6.7	6.9
88.5°	3.6	3.6	3.6	3.4	4.5	4.7	4.5	4.4	4.3	4.6	4.7
89°	2.2	2.2	2.2	2.2	2.6	2.8	2.6	2.6	2.5	2.7	2.8
89.5°	1.2	1.2	1.2	1.2	1.3	1.4	1.3	1.2	1.1	1.2	1.3

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



TEST NUMBER: P869671
CATALOG NUMBER: SMX14SLSFS010-1600LM-2700K

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: P869671
 CATALOG NUMBER: SMX14SLSFS010-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	622.2	622.2	622.2	622.2	622.2	622.2
0.5°	621.6	623.0	622.5	622.2	622.0	621.9
1°	621.5	622.8	623.0	621.9	621.6	621.9
1.5°	621.7	623.0	622.6	622.2	621.2	621.5
2°	621.2	622.4	622.1	621.9	621.4	621.5
2.5°	621.4	622.1	621.7	621.3	621.7	621.2
3°	621.1	621.3	621.2	621.2	621.4	620.4
3.5°	620.5	620.8	621.2	620.5	621.2	620.1
4°	620.4	620.5	621.1	619.9	620.5	620.0
4.5°	619.8	619.9	620.2	619.7	620.2	619.6
5°	618.8	619.6	619.4	619.5	619.4	619.1
5.5°	618.2	619.0	619.0	619.5	618.9	618.8
6°	617.3	618.3	618.0	618.7	618.4	618.4
6.5°	617.0	617.4	617.4	618.2	617.4	618.0
7°	616.3	616.8	616.6	617.1	616.6	617.3
7.5°	616.2	616.4	616.0	616.2	616.4	616.6
8°	615.0	615.8	614.9	615.5	615.3	615.5
8.5°	614.0	615.0	614.5	614.8	614.1	614.9
9°	613.0	613.8	613.7	613.6	613.4	614.3
9.5°	611.8	613.2	612.5	612.7	612.5	613.4
10°	611.2	612.0	611.2	611.7	611.8	612.6
10.5°	610.0	610.8	610.5	610.7	611.2	611.9
11°	608.9	609.3	609.7	609.4	609.8	610.8
11.5°	607.7	608.0	608.8	607.8	608.9	609.8
12°	606.5	607.0	607.7	606.9	607.7	608.4
12.5°	605.4	605.7	606.3	606.3	607.3	607.2
13°	604.4	604.5	605.1	604.8	605.7	606.0
13.5°	603.0	602.9	603.4	603.8	604.3	604.6
14°	601.7	601.2	601.7	602.9	602.9	603.0
14.5°	599.9	599.6	599.8	601.2	601.2	601.2
15°	598.6	598.3	598.1	600.0	599.4	599.4
15.5°	596.9	596.7	596.7	598.7	597.8	597.5
16°	595.4	595.2	594.9	597.4	595.6	595.8
16.5°	593.7	593.5	593.5	595.6	594.1	594.0
17°	591.9	591.8	591.8	593.6	592.3	592.4
17.5°	590.1	590.2	589.8	591.7	590.2	590.5
18°	588.4	588.4	588.3	590.0	588.7	588.7
18.5°	586.7	586.7	586.4	587.7	586.4	586.8
19°	584.9	584.9	584.6	585.8	584.3	584.8
19.5°	582.7	582.9	583.1	583.7	582.4	582.9
20°	580.8	580.8	581.5	581.5	580.6	580.7
20.5°	578.6	578.7	579.6	579.6	578.9	578.9
21°	576.6	576.5	577.4	577.7	576.9	576.8
21.5°	574.4	574.3	575.6	575.4	575.2	574.6
22°	572.5	572.5	573.8	573.2	572.9	572.6

TEST NUMBER: P869671
 CATALOG NUMBER: SMX14SLSFS010-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	569.8	570.0	571.3	570.8	570.6	570.5
23°	567.8	567.8	568.7	568.2	568.3	568.4
23.5°	565.8	565.4	566.9	566.0	566.1	566.3
24°	563.4	562.9	564.6	563.2	563.3	564.2
24.5°	560.9	560.5	561.4	561.2	560.9	561.5
25°	558.1	558.1	559.0	558.3	558.1	558.6
25.5°	555.6	555.6	556.3	555.9	555.6	556.2
26°	552.7	553.1	553.3	553.0	552.9	553.2
26.5°	550.1	550.2	550.8	550.1	550.1	551.0
27°	547.6	547.6	548.3	547.6	547.6	548.4
27.5°	545.3	544.9	545.7	544.9	544.9	545.7
28°	542.4	541.8	543.0	542.1	541.9	542.8
28.5°	539.7	538.9	540.3	539.7	539.5	540.0
29°	536.7	536.3	537.6	536.6	536.4	537.0
29.5°	533.7	533.1	534.9	533.9	533.5	534.2
30°	530.7	530.3	532.0	530.8	530.3	531.3
30.5°	527.6	527.7	528.9	527.4	527.3	528.3
31°	524.5	524.5	525.3	524.6	524.3	525.6
31.5°	521.5	521.4	521.9	521.7	521.3	522.5
32°	518.6	518.7	518.7	518.4	518.0	519.0
32.5°	515.7	515.2	515.8	515.8	515.1	516.0
33°	512.5	512.5	512.4	512.4	511.8	512.4
33.5°	509.3	509.2	509.6	509.1	508.8	509.4
34°	505.9	505.8	505.9	506.2	505.2	506.2
34.5°	502.8	502.2	502.7	503.0	502.0	503.0
35°	499.7	498.6	499.0	499.7	498.8	499.3
35.5°	496.3	495.1	495.6	496.2	495.5	496.3
36°	492.7	491.9	492.2	492.6	491.9	492.8
36.5°	489.3	488.4	488.6	489.0	488.7	489.1
37°	485.7	485.0	485.2	485.4	485.2	485.2
37.5°	482.3	481.1	481.5	482.1	481.7	481.8
38°	478.9	477.3	477.9	478.4	478.5	478.3
38.5°	475.5	473.6	474.6	474.4	474.6	474.6
39°	471.8	470.3	471.0	470.9	470.8	471.0
39.5°	468.1	466.6	467.4	467.2	467.2	467.2
40°	464.2	463.1	463.7	463.4	463.2	463.4
40.5°	460.2	459.5	459.7	459.6	459.7	459.9
41°	456.5	456.2	456.2	456.1	455.9	455.9
41.5°	452.5	452.1	452.4	452.4	452.7	452.4
42°	448.6	448.2	448.4	448.6	449.0	448.3
42.5°	444.8	444.0	444.7	444.5	444.4	444.1
43°	440.8	440.0	440.3	440.5	440.2	440.2
43.5°	437.2	435.9	436.8	436.3	436.2	436.1
44°	433.0	431.7	432.8	432.1	432.0	432.0
44.5°	429.1	427.9	428.5	428.1	428.6	428.0

TEST NUMBER: P869671
 CATALOG NUMBER: SMX14SLSFS010-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	424.9	423.7	424.4	424.1	424.2	423.7
45.5°	421.0	419.5	420.2	419.9	419.6	419.2
46°	416.6	415.4	415.9	415.8	415.3	415.3
46.5°	412.3	411.0	412.0	411.5	411.0	411.6
47°	408.0	406.5	408.0	407.4	407.1	407.5
47.5°	403.7	402.1	403.7	403.0	403.2	403.4
48°	399.3	397.9	399.2	398.5	399.1	398.9
48.5°	395.3	393.8	394.7	394.2	394.7	394.4
49°	390.5	389.5	390.3	389.7	389.6	389.9
49.5°	386.2	385.1	386.0	385.3	385.1	385.6
50°	382.0	380.7	381.4	380.9	381.1	381.3
50.5°	377.5	376.2	376.8	376.4	376.4	376.4
51°	373.2	371.6	372.3	371.9	371.6	372.0
51.5°	368.5	366.8	367.5	367.3	366.8	367.4
52°	364.0	362.3	363.1	362.7	362.2	362.9
52.5°	359.1	357.5	358.5	358.4	357.7	358.1
53°	354.7	353.1	353.5	353.6	353.1	353.5
53.5°	350.1	348.5	349.0	348.8	348.4	348.7
54°	345.4	343.7	343.8	344.0	344.0	343.9
54.5°	340.6	339.0	339.4	338.8	338.8	338.8
55°	335.8	334.6	334.6	333.9	334.1	334.4
55.5°	331.1	329.8	329.9	329.1	329.4	329.8
56°	326.7	324.8	325.0	324.1	324.6	324.9
56.5°	321.6	319.9	320.1	319.5	319.8	320.1
57°	316.7	314.8	315.2	314.5	314.8	314.9
57.5°	311.7	310.0	310.3	309.7	309.7	309.7
58°	306.9	305.0	305.0	305.3	304.6	305.0
58.5°	301.9	300.0	300.0	300.2	300.1	299.9
59°	296.9	294.9	294.9	295.2	295.1	294.7
59.5°	291.5	289.8	289.7	289.8	290.1	289.7
60°	286.3	284.9	284.7	284.7	284.7	285.0
60.5°	281.5	279.8	279.6	279.4	279.3	280.1
61°	276.6	274.5	274.7	274.1	274.2	274.6
61.5°	271.4	269.2	269.8	268.8	269.3	269.4
62°	266.1	264.3	264.5	263.6	263.8	264.3
62.5°	260.9	259.0	259.2	258.6	258.4	259.1
63°	255.6	253.5	253.8	253.5	253.2	253.6
63.5°	250.2	248.3	248.7	248.0	247.8	248.4
64°	245.3	242.8	243.2	242.7	242.6	243.0
64.5°	239.6	237.7	238.0	237.6	237.4	238.0
65°	234.6	232.1	232.5	232.1	232.0	232.7
65.5°	229.1	226.9	227.0	226.6	226.8	227.3
66°	223.5	221.3	221.4	221.4	221.4	221.8
66.5°	218.1	215.9	216.0	215.9	216.3	216.2
67°	213.1	210.2	210.7	210.3	211.1	210.5

TEST NUMBER: P869671
 CATALOG NUMBER: SMX14SLSFS010-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	207.4	204.9	205.6	205.0	205.6	205.2
68°	202.0	199.4	200.0	199.4	199.6	199.7
68.5°	196.5	194.4	194.5	194.1	194.2	194.2
69°	190.9	188.9	189.1	188.9	188.9	188.8
69.5°	185.4	183.2	183.6	183.2	183.3	183.0
70°	179.9	177.6	177.9	177.6	177.7	177.4
70.5°	174.8	172.1	172.4	172.3	172.4	171.9
71°	169.3	166.2	166.6	166.6	166.6	166.4
71.5°	163.6	160.9	161.2	160.9	160.9	161.0
72°	158.0	155.4	155.4	155.3	155.2	155.5
72.5°	152.5	149.9	150.0	149.9	149.3	149.6
73°	147.2	144.3	144.8	144.4	144.0	144.2
73.5°	141.7	138.7	139.3	138.8	138.6	138.7
74°	136.4	133.2	133.5	133.0	133.1	133.1
74.5°	130.7	127.7	127.9	127.6	127.3	127.6
75°	125.2	122.1	122.3	122.0	121.7	122.0
75.5°	119.6	116.7	116.8	116.3	116.2	116.5
76°	114.1	111.1	111.2	110.9	110.8	111.0
76.5°	108.8	105.5	105.7	105.5	105.4	105.5
77°	103.3	100.2	100.2	99.9	99.9	100.0
77.5°	97.8	95.1	94.8	94.7	94.8	94.6
78°	92.3	89.6	89.2	89.3	89.3	89.2
78.5°	87.0	84.4	84.1	84.1	84.1	84.1
79°	81.8	79.2	78.8	78.9	79.2	78.8
79.5°	76.6	73.8	73.8	73.7	74.0	73.6
80°	71.4	68.6	68.6	68.5	68.8	68.5
80.5°	66.5	63.7	63.7	63.7	63.5	63.4
81°	61.4	58.6	58.7	58.7	58.5	58.5
81.5°	56.4	53.7	54.0	54.0	53.7	53.7
82°	51.6	49.1	49.2	49.2	48.8	49.0
82.5°	47.1	44.4	44.7	44.4	44.2	44.4
83°	42.5	40.0	40.1	40.0	39.6	39.7
83.5°	37.9	35.7	35.7	35.6	35.2	35.3
84°	33.5	31.5	31.5	31.4	31.2	31.2
84.5°	29.3	27.4	27.4	27.4	27.3	27.3
85°	25.4	23.6	23.7	23.5	23.5	23.5
85.5°	21.5	20.2	20.2	20.2	20.2	20.0
86°	18.5	16.7	16.9	16.9	16.7	16.7
86.5°	15.3	13.6	13.8	13.6	13.6	13.5
87°	12.3	10.6	10.8	10.7	10.6	10.5
87.5°	9.5	7.7	7.8	7.8	7.8	7.7
88°	7.0	5.4	5.6	5.5	5.5	5.4
88.5°	4.7	3.6	3.7	3.7	3.7	3.6
89°	2.9	2.1	2.2	2.2	2.2	2.2
89.5°	1.5	1.2	1.2	1.2	1.2	1.2

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869671
CATALOG NUMBER: SMX14SLSFS010-1600LM-2700K

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)