

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: P869675

Luminaire Tested: **SMX14SLSFS010-1600LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869675
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14SLSFS010-1600LM-5000K
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

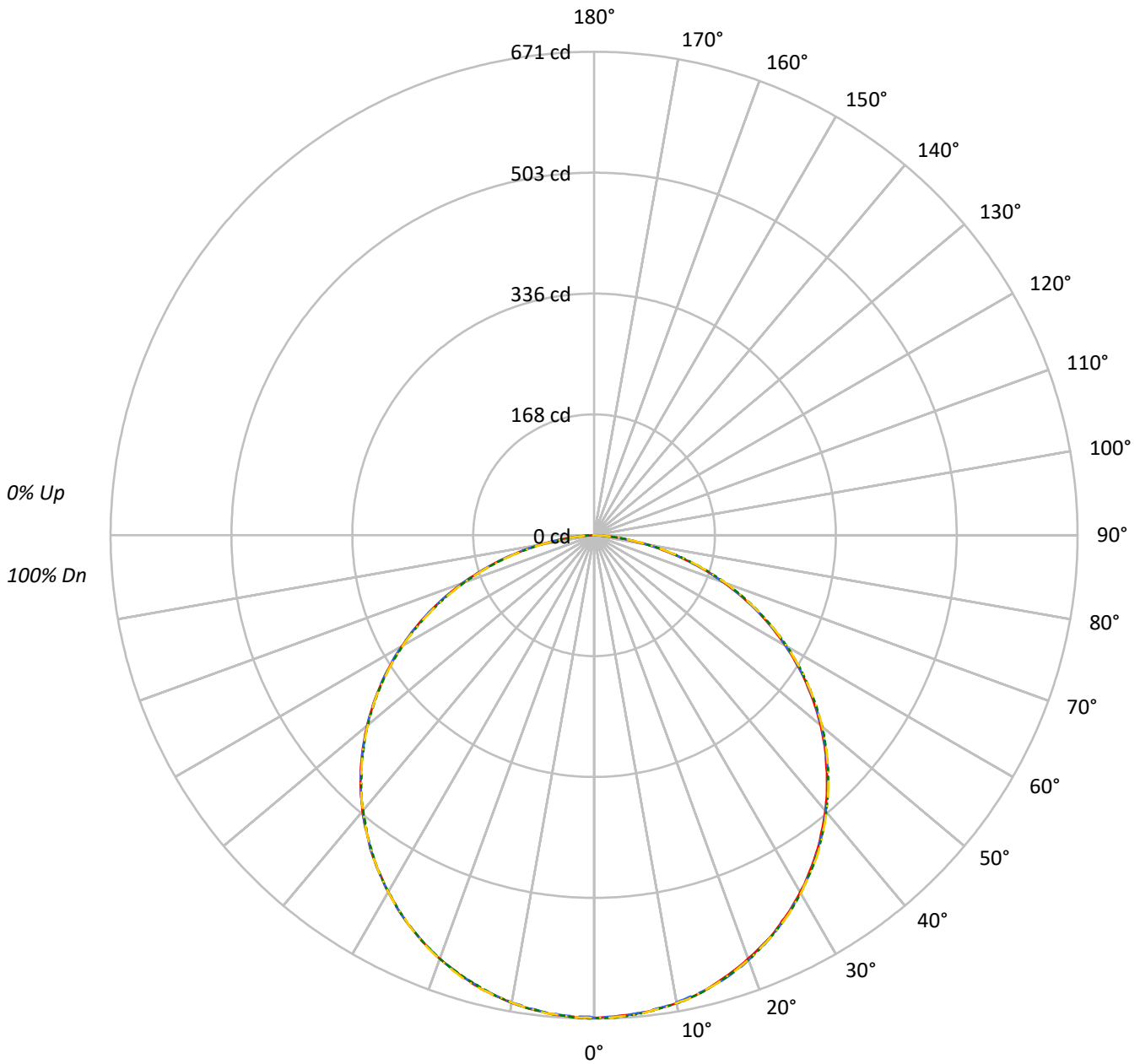
Lumens per Lamp: N/A
 Luminaire Lumens: 1957.1 lumens
 Efficiency: N/A
 Efficacy: 96.4 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 20.3
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					20				
RC	80					70					50					30					10					0				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100												
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84												
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69												
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58												
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50												
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43												
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37												
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33												
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29												
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26												
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5294	5294	5294	5294
5°	5289	5297	5293	5293
10°	5293	5293	5289	5288
15°	5280	5286	5281	5270
20°	5258	5271	5263	5259
25°	5245	5253	5239	5240
30°	5220	5236	5217	5210
35°	5187	5208	5191	5179
40°	5147	5171	5158	5143
45°	5098	5134	5119	5098
50°	5047	5083	5056	5040
55°	4961	5001	4981	4963
60°	4850	4897	4872	4848
65°	4685	4737	4720	4674
70°	4414	4495	4483	4418
75°	4010	4104	4107	4016
80°	3359	3491	3477	3364
85°	2294	2430	2412	2303

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.2
10°-20°	182.1	9.3
20°-30°	277.3	14.2
30°-40°	336.8	17.2
40°-50°	352.9	18.0
50°-60°	322.7	16.5
60°-70°	248.5	12.7
70°-80°	140.6	7.2
80°-90°	32.7	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°	522.9	26.7
0°-40°	859.7	43.9
0°-60°	1535.3	78.5
0°-90°	1957.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	670	670	670	670	670	
5°	667	668	667	667	667	63
15°	645	646	645	644	645	182
25°	601	602	601	601	601	277
35°	538	540	538	537	538	336
45°	456	459	458	456	456	352
55°	360	363	362	360	360	322
65°	250	253	252	250	250	247
75°	131	134	134	132	131	139
85°	25	27	27	25	25	32
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°	669.8	669.8	669.8	669.8	669.8	669.8	669.8	669.8	669.8	669.8	669.8
0.5°	669.5	670.6	668.9	669.6	670.3	669.9	670.0	669.9	669.6	670.3	668.1
1°	669.5	670.8	669.2	669.3	670.3	669.7	669.6	669.5	669.7	669.7	668.3
1.5°	669.1	670.1	668.9	669.0	670.2	669.5	670.1	669.1	669.4	669.8	668.4
2°	669.1	670.0	668.6	669.1	670.0	669.1	669.8	668.9	669.6	670.0	668.3
2.5°	668.8	669.9	668.6	668.5	670.1	669.4	669.5	668.8	668.9	669.8	668.1
3°	667.9	669.6	667.9	668.2	669.4	669.0	669.1	668.7	668.6	669.1	668.0
3.5°	667.6	669.0	668.0	668.0	669.1	668.4	668.6	668.4	668.3	669.1	667.7
4°	667.5	668.4	667.2	667.2	669.1	668.3	668.3	668.3	668.0	668.5	667.6
4.5°	667.1	668.1	666.8	667.0	668.1	667.8	667.9	667.6	667.9	668.8	666.6
5°	666.6	667.7	666.0	666.8	667.6	667.4	667.7	667.0	667.2	667.9	666.5
5.5°	666.2	667.0	665.8	666.1	667.0	666.9	667.4	666.1	666.6	667.1	666.0
6°	665.8	666.3	665.2	665.6	666.5	665.8	666.5	665.6	665.8	666.2	665.4
6.5°	665.3	666.1	664.4	664.9	665.8	664.7	665.8	665.1	664.9	665.6	664.4
7°	664.6	665.3	663.8	664.3	664.9	664.4	664.5	664.1	664.6	664.6	663.5
7.5°	663.8	664.3	662.6	663.2	664.0	663.5	663.8	663.3	663.6	664.1	662.8
8°	662.6	663.4	662.0	662.5	663.1	662.5	663.1	662.5	662.9	663.3	661.8
8.5°	662.0	662.6	661.7	661.4	662.2	662.0	662.3	661.1	662.0	662.0	660.6
9°	661.3	661.9	660.5	660.6	661.3	660.8	661.7	660.2	661.0	661.3	659.8
9.5°	660.4	660.6	659.5	659.7	660.4	659.5	660.4	659.4	659.8	660.6	659.0
10°	659.5	659.1	658.4	658.8	659.5	659.1	659.5	658.5	659.0	659.5	658.5
10.5°	658.7	658.4	657.0	657.6	659.1	657.9	658.3	657.3	657.6	658.2	657.1
11°	657.6	656.9	656.3	656.7	657.8	656.9	657.6	656.0	656.5	657.5	655.7
11.5°	656.5	656.0	654.7	655.2	656.5	656.0	656.8	654.8	655.1	655.7	654.6
12°	655.0	655.1	653.6	654.5	655.2	654.6	654.9	653.3	654.1	654.1	653.4
12.5°	653.7	654.0	652.8	652.9	654.2	653.8	653.5	652.1	652.8	652.8	651.9
13°	652.4	652.8	651.4	651.7	652.5	652.2	652.2	650.9	651.2	651.5	650.4
13.5°	650.9	651.5	650.4	649.8	651.3	650.3	650.0	649.3	650.1	650.4	649.0
14°	649.2	649.9	648.9	648.4	649.6	649.0	648.7	647.4	648.8	648.8	647.2
14.5°	647.2	648.1	647.4	646.7	647.7	647.4	647.6	645.9	646.6	647.4	645.3
15°	645.3	646.8	646.3	645.5	646.0	646.3	646.4	643.8	645.4	645.9	644.2
15.5°	643.3	645.1	644.9	643.3	644.4	644.4	644.5	642.3	643.3	644.3	642.4
16°	641.4	642.8	643.1	641.5	642.3	642.3	642.3	641.2	641.4	642.2	641.0
16.5°	639.5	640.6	641.3	640.0	640.9	640.6	640.3	639.5	639.7	640.3	639.4
17°	637.8	638.7	639.7	637.8	638.8	638.6	638.7	637.8	637.8	638.1	637.7
17.5°	635.7	636.6	637.8	635.5	636.8	636.6	637.0	635.8	635.5	636.4	635.8
18°	633.8	634.2	636.0	633.9	634.8	634.8	635.1	633.7	633.4	634.1	633.6
18.5°	631.7	632.4	634.2	632.1	633.2	632.7	633.0	632.2	631.4	632.4	631.5
19°	629.6	630.1	631.9	629.9	630.7	631.0	631.1	630.2	629.6	630.3	629.7
19.5°	627.5	627.9	629.8	627.4	628.7	629.1	628.9	627.9	628.0	628.3	628.0
20°	625.2	626.0	627.3	625.5	626.7	627.0	626.9	626.0	625.7	626.2	625.7
20.5°	623.2	624.2	625.4	623.1	624.9	625.2	624.8	623.6	623.6	623.7	623.7
21°	621.0	621.5	623.2	621.3	622.6	622.5	622.5	621.8	621.3	621.6	621.1
21.5°	618.6	619.3	620.7	618.6	620.1	619.8	619.7	619.4	618.7	619.2	618.6
22°	616.5	617.0	617.3	616.6	617.8	617.1	617.6	617.6	616.6	616.6	616.2

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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°	614.2	614.9	615.7	614.3	615.5	614.6	615.3	614.8	614.0	614.0	613.5
23°	611.9	612.5	613.1	611.6	613.1	612.3	612.9	612.0	611.9	611.5	610.7
23.5°	609.7	610.1	610.7	609.3	610.5	610.0	610.4	609.5	608.8	608.9	608.8
24°	607.4	607.5	607.8	606.9	608.0	607.8	608.0	607.0	606.4	606.9	606.1
24.5°	604.5	604.9	605.4	604.2	605.4	605.4	605.8	604.7	603.7	604.7	603.8
25°	601.4	602.5	602.9	601.4	602.4	602.7	602.9	602.1	600.8	601.5	600.9
25.5°	598.8	599.9	600.0	598.7	600.0	599.9	599.9	598.9	598.7	598.7	598.6
26°	595.5	596.9	597.0	595.5	597.4	597.3	597.4	596.3	595.9	596.5	595.9
26.5°	593.2	594.1	594.5	592.9	594.8	594.3	594.6	593.0	592.7	593.3	592.7
27°	590.4	591.5	591.2	590.6	592.2	591.4	592.2	590.7	589.8	590.3	590.3
27.5°	587.5	588.4	588.4	587.7	589.0	588.4	589.3	587.8	587.3	587.7	587.0
28°	584.4	585.2	585.3	584.7	586.2	585.8	585.9	584.7	584.1	585.0	584.4
28.5°	581.3	582.2	582.2	582.3	583.2	582.7	582.9	582.2	580.7	582.2	581.3
29°	578.2	579.2	579.5	579.0	579.7	579.4	579.7	579.0	577.5	579.1	577.7
29.5°	575.1	576.0	576.2	576.1	576.7	576.4	577.0	575.6	574.7	576.3	574.5
30°	572.0	572.7	573.1	572.9	573.7	573.6	573.9	572.7	571.6	572.6	571.2
30.5°	568.8	569.6	570.1	570.1	570.4	570.5	570.5	569.6	568.3	569.3	568.2
31°	565.9	566.2	566.4	567.1	567.0	567.3	566.9	566.4	565.0	566.2	565.2
31.5°	562.5	563.2	563.4	563.8	563.5	563.9	563.8	562.9	561.5	562.6	561.9
32°	558.8	560.0	560.1	560.2	560.0	560.6	560.5	559.5	558.2	559.3	558.6
32.5°	555.5	556.8	557.0	557.3	557.3	557.4	557.6	556.5	555.4	556.4	555.1
33°	551.6	553.2	553.2	553.8	553.9	553.8	554.0	553.0	552.0	553.1	552.0
33.5°	548.4	549.9	550.2	550.4	550.4	549.9	550.8	549.5	548.5	549.9	548.4
34°	545.0	546.6	546.5	546.9	546.9	546.6	547.5	545.7	544.8	545.8	544.9
34.5°	541.5	542.5	542.9	543.3	543.5	543.3	544.3	541.9	541.5	542.2	541.8
35°	537.6	538.2	539.1	539.6	539.8	539.8	540.8	538.9	538.0	538.4	537.9
35.5°	534.3	534.7	535.4	535.6	536.4	536.5	537.1	535.1	534.6	534.7	534.2
36°	530.6	531.2	531.4	532.1	532.6	532.3	533.4	531.2	530.7	531.0	530.6
36.5°	526.6	528.0	527.7	528.4	528.9	528.3	529.7	527.5	526.7	527.1	526.3
37°	522.4	523.8	524.2	524.6	525.1	525.0	525.9	523.2	522.6	523.5	522.9
37.5°	518.7	520.3	520.7	520.9	521.0	521.0	521.7	519.9	518.9	519.6	519.2
38°	514.9	516.6	516.7	516.8	517.3	516.9	517.5	516.1	515.5	516.0	515.5
38.5°	511.0	512.4	512.6	512.7	513.2	512.8	513.8	512.2	511.7	512.0	511.9
39°	507.0	508.7	508.5	508.8	509.4	509.0	509.9	508.1	507.9	508.0	507.5
39.5°	503.0	504.4	504.5	504.4	505.4	505.7	505.5	504.3	504.1	503.9	503.5
40°	498.9	500.0	500.4	500.4	501.2	501.9	501.6	500.8	499.9	500.0	499.7
40.5°	495.1	496.3	496.5	496.1	497.0	497.8	497.9	496.8	495.8	496.0	495.5
41°	490.8	492.3	492.4	492.2	493.3	493.7	493.6	492.6	491.3	491.9	491.5
41.5°	487.1	488.0	488.4	487.7	489.2	489.9	489.8	488.5	487.7	487.8	487.7
42°	482.7	483.7	484.2	483.7	484.6	485.5	485.3	484.5	484.0	483.4	483.4
42.5°	478.1	479.4	480.2	479.3	480.6	481.2	480.9	480.2	479.6	479.0	479.2
43°	473.9	475.1	476.0	475.1	476.5	476.8	476.6	475.8	475.1	474.6	475.0
43.5°	469.5	471.0	471.4	470.8	472.2	472.2	472.5	471.6	471.0	470.3	470.5
44°	465.0	466.5	467.0	466.6	467.8	468.0	468.1	467.3	466.5	466.0	466.2
44.5°	460.8	462.0	462.6	462.0	463.5	463.8	463.8	463.0	462.2	461.7	461.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	456.1	457.7	458.4	457.7	459.3	459.5	459.1	458.5	458.0	457.5	457.0
45.5°	451.4	453.1	454.1	453.3	455.0	455.1	454.5	454.3	453.4	453.0	452.4
46°	447.1	449.1	449.4	449.0	450.4	450.4	450.3	449.6	448.7	448.3	448.2
46.5°	443.1	444.4	444.7	444.5	445.8	445.8	446.0	444.9	444.2	444.3	443.5
47°	438.7	439.8	440.0	439.9	441.1	441.3	441.4	440.2	439.8	439.4	438.9
47.5°	434.3	435.5	435.2	435.1	436.5	436.9	436.6	435.6	435.2	434.7	434.1
48°	429.4	430.7	430.4	430.6	431.9	432.4	432.1	431.2	430.2	430.3	429.4
48.5°	424.6	425.9	425.9	425.6	427.4	427.4	427.4	426.6	425.4	425.6	425.0
49°	419.8	421.2	421.1	421.1	422.9	422.7	422.6	421.7	421.1	421.0	420.3
49.5°	415.1	416.5	416.4	416.1	418.1	417.7	417.9	417.3	416.1	416.5	415.5
50°	410.5	411.6	411.6	411.3	413.4	413.4	413.1	412.2	411.2	411.5	411.0
50.5°	405.2	406.9	406.8	406.5	408.4	408.4	408.3	407.5	406.4	406.6	406.2
51°	400.4	401.8	401.7	401.5	403.4	403.4	403.6	402.4	401.6	401.9	401.6
51.5°	395.5	396.9	397.0	396.8	398.5	398.3	398.7	397.5	396.6	396.9	396.2
52°	390.7	392.2	391.9	391.8	393.4	393.7	393.8	392.5	391.3	391.9	391.3
52.5°	385.6	386.9	386.9	386.9	388.7	388.9	388.7	387.6	386.6	387.3	386.3
53°	380.6	382.0	381.7	381.6	383.4	383.7	383.4	382.5	381.9	382.2	381.6
53.5°	375.4	376.8	376.6	376.4	378.2	378.4	378.1	377.8	376.8	377.6	376.4
54°	370.2	371.3	371.5	371.2	373.1	373.3	373.1	372.7	371.6	372.1	371.6
54.5°	364.8	366.0	366.5	366.3	368.1	368.1	368.0	367.3	366.4	366.9	366.6
55°	360.0	361.2	360.8	361.4	362.9	363.0	363.0	362.3	361.5	361.8	361.6
55.5°	355.1	355.9	355.9	355.9	357.6	358.1	357.4	356.8	356.3	357.0	356.4
56°	349.8	350.8	350.5	350.9	352.4	353.0	352.9	351.9	351.3	351.7	351.2
56.5°	344.6	345.5	345.4	345.7	347.3	347.8	347.7	346.5	345.8	346.3	345.8
57°	339.0	339.9	340.1	340.5	342.0	342.6	342.3	341.4	340.3	341.1	340.6
57.5°	333.4	334.5	334.7	335.0	336.7	336.9	337.0	336.0	335.2	335.7	335.5
58°	328.4	329.1	329.3	329.4	331.1	331.7	331.1	330.9	329.8	330.1	330.4
58.5°	322.9	324.0	324.1	324.1	325.9	326.6	325.4	325.4	324.6	324.8	325.0
59°	317.3	318.7	318.1	318.3	320.7	320.7	320.3	320.0	319.3	319.7	319.5
59.5°	311.9	312.9	312.6	312.9	315.4	315.1	314.9	314.5	313.5	314.3	314.0
60°	306.8	307.4	307.0	307.3	309.8	309.7	309.4	309.4	308.2	308.7	308.4
60.5°	301.6	301.8	301.7	301.4	304.2	304.2	303.5	303.5	302.3	303.1	302.9
61°	295.6	296.0	296.2	295.8	298.5	299.0	298.1	298.4	297.2	297.5	297.3
61.5°	290.1	290.6	290.8	290.2	292.8	293.4	292.5	292.7	291.7	292.2	291.7
62°	284.5	285.0	285.3	285.0	287.4	287.8	287.5	287.2	286.3	286.7	286.6
62.5°	278.9	279.1	279.6	279.1	281.5	282.0	281.6	281.6	280.6	281.0	280.7
63°	273.0	273.3	274.0	273.6	275.8	276.6	276.1	276.0	275.0	275.3	274.9
63.5°	267.5	268.0	268.2	268.0	270.2	271.0	270.5	270.5	269.5	269.6	269.5
64°	261.6	262.2	262.4	262.3	264.7	265.2	264.8	264.5	263.9	264.0	263.6
64.5°	256.2	256.8	256.9	256.4	258.9	259.1	258.9	258.5	258.1	258.1	257.9
65°	250.5	251.0	250.9	250.8	253.3	253.8	253.4	252.9	252.4	252.7	252.4
65.5°	244.7	245.0	245.1	244.7	247.9	247.6	247.3	247.0	246.5	247.0	246.8
66°	238.8	239.2	239.2	238.7	241.9	241.7	241.1	241.1	240.6	241.2	241.0
66.5°	232.7	233.3	233.0	233.0	235.9	235.8	235.6	235.2	235.0	235.5	234.9
67°	226.6	227.1	227.2	227.1	229.9	230.2	229.8	229.6	229.1	229.5	229.4

TEST NUMBER: P869675
 CATALOG NUMBER: SMX14SLSFS010-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	221.0	221.5	221.4	221.3	224.0	224.3	223.8	223.6	223.4	223.7	223.4
68°	215.0	215.5	215.4	215.5	218.2	218.6	218.0	217.8	218.0	217.9	217.5
68.5°	209.1	209.5	209.5	209.4	212.4	212.8	212.2	211.9	212.2	212.1	211.5
69°	203.3	203.7	203.6	203.3	206.7	206.9	206.3	206.0	206.0	205.9	205.3
69.5°	197.0	197.5	197.7	197.4	200.5	200.8	200.3	199.9	200.0	200.0	199.6
70°	191.0	191.7	191.5	191.3	194.5	194.8	194.2	193.8	194.0	194.2	193.5
70.5°	185.1	185.7	185.1	185.5	188.7	189.0	188.3	188.2	188.3	188.1	187.7
71°	179.1	179.5	179.2	179.3	182.6	183.0	182.1	182.3	182.1	182.1	181.8
71.5°	173.4	173.6	173.3	173.1	176.6	176.7	176.3	176.1	176.4	176.0	175.7
72°	167.4	167.5	167.3	167.1	170.5	170.8	170.3	170.3	170.5	170.0	169.8
72.5°	161.1	161.8	161.5	160.9	164.6	164.8	164.5	164.2	164.4	164.1	163.8
73°	155.3	155.7	155.4	155.3	158.6	158.9	158.5	158.4	158.4	158.2	157.9
73.5°	149.3	149.8	149.3	149.3	152.8	153.1	152.9	152.6	152.5	152.3	152.2
74°	143.2	143.6	143.5	143.4	146.8	147.2	147.1	146.5	146.6	146.2	146.1
74.5°	137.3	137.9	137.4	137.5	140.7	141.2	140.7	140.6	140.5	140.5	140.2
75°	131.3	131.7	131.6	131.3	134.4	134.9	134.8	134.6	134.5	134.5	134.4
75.5°	125.5	125.5	125.5	125.3	128.5	129.0	128.6	128.6	128.6	128.6	128.5
76°	119.5	119.7	119.5	119.6	122.5	123.0	122.5	122.6	122.6	122.5	122.5
76.5°	113.5	113.8	113.9	113.5	116.8	116.9	116.7	116.9	116.8	116.7	116.8
77°	107.7	107.9	107.6	107.7	110.8	111.3	111.0	110.9	110.8	110.9	110.9
77.5°	101.8	102.3	102.0	102.0	104.8	105.3	105.0	105.1	105.0	105.2	105.2
78°	96.1	96.4	96.1	96.2	99.2	99.4	99.3	99.1	98.8	99.3	99.3
78.5°	90.5	90.7	90.4	90.6	93.7	93.7	93.7	93.3	93.1	93.5	93.6
79°	84.8	85.0	84.7	85.1	88.2	88.2	88.0	87.9	87.6	88.0	87.8
79.5°	79.2	79.5	79.3	79.5	82.6	82.5	82.2	82.2	82.0	82.4	82.4
80°	73.8	73.9	73.8	73.7	76.7	76.9	76.5	76.5	76.4	76.8	76.7
80.5°	68.3	68.4	68.3	68.1	71.1	71.5	71.2	71.1	71.0	71.3	71.4
81°	63.0	63.1	62.9	62.5	65.7	66.0	65.9	65.6	65.7	65.9	66.0
81.5°	57.8	57.8	57.7	57.4	60.4	60.6	60.4	60.3	60.3	60.6	60.7
82°	52.8	52.8	52.7	52.3	55.2	55.3	55.2	54.9	54.9	55.3	55.5
82.5°	47.7	47.8	47.6	47.3	50.3	50.4	50.3	50.1	50.0	50.3	50.7
83°	42.7	42.9	42.7	42.2	45.2	45.3	45.3	45.1	45.1	45.4	45.7
83.5°	38.0	38.1	37.9	37.7	40.2	40.5	40.2	40.2	40.2	40.5	40.8
84°	33.6	33.7	33.5	33.1	35.6	35.6	35.6	35.5	35.4	35.7	36.1
84.5°	29.4	29.4	29.3	29.0	31.1	31.5	31.1	31.1	31.0	31.2	31.6
85°	25.3	25.2	25.2	24.8	26.8	27.0	26.9	26.7	26.6	26.9	27.1
85.5°	21.5	21.5	21.5	21.2	22.7	22.8	22.7	22.7	22.6	22.8	23.1
86°	17.9	17.9	17.9	17.5	19.4	19.4	19.4	19.3	19.3	19.5	19.7
86.5°	14.5	14.6	14.5	14.3	16.1	16.1	16.2	15.9	16.0	16.3	16.4
87°	11.3	11.3	11.4	11.0	12.9	12.9	13.0	12.8	12.8	12.9	13.1
87.5°	8.3	8.2	8.2	7.9	9.9	9.9	9.9	9.8	9.7	9.9	10.1
88°	5.8	5.8	5.8	5.6	7.2	7.2	7.2	7.1	7.1	7.3	7.4
88.5°	3.8	3.9	3.8	3.7	4.8	5.1	4.8	4.8	4.7	4.9	5.0
89°	2.3	2.4	2.4	2.3	2.8	3.0	2.8	2.8	2.7	2.9	3.0
89.5°	1.3	1.3	1.3	1.3	1.4	1.5	1.4	1.3	1.2	1.3	1.4

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



TEST NUMBER: P869675
CATALOG NUMBER: SMX14SLSFS010-1600LM-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: P869675
 CATALOG NUMBER: SMX14SLSFS010-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	669.8	669.8	669.8	669.8	669.8	669.8
0.5°	669.2	670.7	670.1	669.8	669.6	669.5
1°	669.1	670.5	670.7	669.5	669.2	669.5
1.5°	669.3	670.7	670.2	669.9	668.8	669.1
2°	668.8	670.1	669.7	669.5	669.0	669.1
2.5°	669.0	669.7	669.3	668.9	669.3	668.8
3°	668.6	668.9	668.7	668.7	669.0	667.9
3.5°	668.0	668.3	668.7	668.1	668.8	667.6
4°	667.9	668.0	668.6	667.4	668.1	667.5
4.5°	667.3	667.4	667.7	667.1	667.7	667.1
5°	666.2	667.1	666.8	666.9	666.8	666.6
5.5°	665.6	666.4	666.4	667.0	666.3	666.2
6°	664.6	665.6	665.3	666.1	665.7	665.8
6.5°	664.2	664.7	664.6	665.6	664.6	665.3
7°	663.5	664.0	663.8	664.4	663.8	664.6
7.5°	663.4	663.5	663.2	663.4	663.5	663.8
8°	662.0	663.0	662.0	662.6	662.4	662.6
8.5°	661.0	662.0	661.5	661.9	661.1	662.0
9°	660.0	660.8	660.7	660.6	660.4	661.3
9.5°	658.6	660.1	659.4	659.6	659.4	660.4
10°	658.0	658.9	658.0	658.5	658.6	659.5
10.5°	656.7	657.6	657.2	657.5	658.0	658.7
11°	655.5	656.0	656.4	656.1	656.5	657.6
11.5°	654.3	654.5	655.5	654.4	655.5	656.5
12°	652.9	653.4	654.2	653.4	654.3	655.0
12.5°	651.8	652.1	652.8	652.7	653.8	653.7
13°	650.7	650.8	651.4	651.1	652.1	652.4
13.5°	649.2	649.1	649.6	650.0	650.5	650.9
14°	647.8	647.2	647.8	649.1	649.1	649.2
14.5°	645.9	645.5	645.8	647.3	647.2	647.2
15°	644.4	644.1	643.9	645.9	645.3	645.3
15.5°	642.6	642.4	642.4	644.6	643.6	643.3
16°	641.0	640.8	640.4	643.1	641.2	641.4
16.5°	639.2	638.9	638.9	641.3	639.6	639.5
17°	637.3	637.1	637.1	639.0	637.7	637.8
17.5°	635.3	635.4	634.9	637.0	635.4	635.7
18°	633.4	633.5	633.3	635.2	633.7	633.8
18.5°	631.6	631.7	631.3	632.7	631.3	631.7
19°	629.7	629.7	629.4	630.7	629.0	629.6
19.5°	627.3	627.6	627.7	628.4	627.0	627.5
20°	625.3	625.3	626.1	626.1	625.1	625.2
20.5°	622.9	623.1	624.0	624.0	623.2	623.2
21°	620.7	620.6	621.6	621.9	621.1	621.0
21.5°	618.4	618.3	619.7	619.5	619.2	618.6
22°	616.3	616.3	617.7	617.1	616.7	616.5

TEST NUMBER: P869675
 CATALOG NUMBER: SMX14SLSFS010-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	613.5	613.6	615.0	614.5	614.3	614.2
23°	611.3	611.3	612.2	611.7	611.8	611.9
23.5°	609.1	608.7	610.3	609.4	609.5	609.7
24°	606.5	606.0	607.9	606.4	606.5	607.4
24.5°	603.9	603.4	604.4	604.2	603.9	604.5
25°	600.9	600.9	601.8	601.0	600.9	601.4
25.5°	598.2	598.2	598.9	598.4	598.2	598.8
26°	595.0	595.4	595.7	595.3	595.3	595.5
26.5°	592.3	592.3	592.9	592.3	592.3	593.2
27°	589.5	589.5	590.3	589.5	589.5	590.4
27.5°	587.1	586.6	587.5	586.6	586.6	587.5
28°	583.9	583.3	584.6	583.6	583.4	584.4
28.5°	581.0	580.2	581.7	581.1	580.8	581.3
29°	577.8	577.3	578.7	577.7	577.5	578.2
29.5°	574.6	573.9	575.9	574.7	574.4	575.1
30°	571.4	570.9	572.7	571.5	570.9	572.0
30.5°	568.1	568.1	569.4	567.8	567.6	568.8
31°	564.6	564.6	565.5	564.8	564.5	565.9
31.5°	561.5	561.4	561.9	561.6	561.2	562.5
32°	558.3	558.4	558.4	558.1	557.6	558.8
32.5°	555.2	554.7	555.3	555.3	554.5	555.5
33°	551.8	551.8	551.7	551.7	551.0	551.6
33.5°	548.4	548.2	548.6	548.1	547.8	548.4
34°	544.6	544.5	544.6	544.9	543.9	545.0
34.5°	541.3	540.7	541.2	541.5	540.4	541.5
35°	538.0	536.8	537.3	537.9	537.0	537.6
35.5°	534.3	533.0	533.6	534.2	533.4	534.3
36°	530.4	529.6	529.9	530.3	529.6	530.6
36.5°	526.7	525.8	526.1	526.4	526.1	526.6
37°	522.9	522.1	522.3	522.6	522.4	522.4
37.5°	519.2	518.0	518.4	519.1	518.6	518.7
38°	515.5	513.9	514.5	515.0	515.1	514.9
38.5°	511.9	509.9	511.0	510.7	511.0	511.0
39°	508.0	506.3	507.0	506.9	506.9	507.0
39.5°	503.9	502.4	503.2	502.9	502.9	503.0
40°	499.8	498.5	499.2	498.9	498.7	498.9
40.5°	495.4	494.7	494.9	494.8	494.9	495.1
41°	491.4	491.2	491.1	491.0	490.8	490.8
41.5°	487.2	486.7	487.1	487.1	487.3	487.1
42°	483.0	482.5	482.7	482.9	483.4	482.7
42.5°	478.8	478.0	478.7	478.6	478.4	478.1
43°	474.6	473.7	474.1	474.2	473.9	473.9
43.5°	470.6	469.3	470.2	469.7	469.6	469.5
44°	466.1	464.7	466.0	465.2	465.1	465.0
44.5°	462.0	460.7	461.3	460.9	461.5	460.8

TEST NUMBER: P869675
 CATALOG NUMBER: SMX14SLSFS010-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	457.4	456.1	456.9	456.5	456.7	456.1
45.5°	453.2	451.6	452.4	452.0	451.7	451.4
46°	448.5	447.2	447.8	447.7	447.1	447.1
46.5°	443.8	442.4	443.6	443.0	442.5	443.1
47°	439.2	437.6	439.2	438.6	438.2	438.7
47.5°	434.6	432.9	434.6	433.8	434.1	434.3
48°	429.9	428.4	429.7	429.1	429.6	429.4
48.5°	425.6	424.0	425.0	424.4	424.9	424.6
49°	420.4	419.3	420.2	419.5	419.4	419.8
49.5°	415.8	414.6	415.5	414.8	414.5	415.1
50°	411.2	409.9	410.6	410.0	410.3	410.5
50.5°	406.4	405.0	405.7	405.2	405.2	405.2
51°	401.8	400.1	400.9	400.3	400.0	400.4
51.5°	396.7	394.9	395.7	395.4	394.8	395.5
52°	391.8	390.1	390.9	390.5	389.9	390.7
52.5°	386.6	384.8	385.9	385.8	385.1	385.6
53°	381.8	380.1	380.6	380.6	380.1	380.6
53.5°	376.9	375.2	375.7	375.6	375.1	375.4
54°	371.9	370.0	370.1	370.3	370.3	370.2
54.5°	366.7	365.0	365.4	364.7	364.7	364.8
55°	361.5	360.2	360.2	359.4	359.7	360.0
55.5°	356.4	355.0	355.2	354.3	354.6	355.1
56°	351.8	349.7	349.9	348.9	349.4	349.8
56.5°	346.3	344.4	344.6	344.0	344.3	344.6
57°	340.9	338.9	339.3	338.6	338.9	339.0
57.5°	335.6	333.7	334.1	333.4	333.4	333.4
58°	330.4	328.3	328.4	328.6	328.0	328.4
58.5°	325.0	323.0	323.0	323.2	323.1	322.9
59°	319.6	317.5	317.5	317.8	317.7	317.3
59.5°	313.9	312.0	311.9	312.0	312.3	311.9
60°	308.2	306.7	306.5	306.5	306.5	306.8
60.5°	303.0	301.2	301.0	300.8	300.7	301.6
61°	297.8	295.5	295.8	295.1	295.2	295.6
61.5°	292.2	289.8	290.4	289.4	289.9	290.1
62°	286.5	284.6	284.7	283.8	284.0	284.5
62.5°	280.9	278.8	279.1	278.4	278.2	278.9
63°	275.2	273.0	273.2	273.0	272.5	273.0
63.5°	269.4	267.3	267.7	267.0	266.8	267.5
64°	264.1	261.4	261.9	261.3	261.2	261.6
64.5°	257.9	255.9	256.3	255.8	255.6	256.2
65°	252.6	249.9	250.3	249.9	249.8	250.5
65.5°	246.7	244.3	244.4	244.0	244.2	244.7
66°	240.7	238.2	238.3	238.4	238.4	238.8
66.5°	234.8	232.4	232.6	232.5	232.9	232.7
67°	229.4	226.3	226.8	226.4	227.3	226.6

TEST NUMBER: P869675
 CATALOG NUMBER: SMX14SLSFS010-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	223.3	220.5	221.4	220.7	221.4	221.0
68°	217.5	214.7	215.3	214.7	214.9	215.0
68.5°	211.5	209.3	209.4	208.9	209.0	209.1
69°	205.5	203.3	203.6	203.3	203.3	203.3
69.5°	199.6	197.3	197.7	197.3	197.3	197.0
70°	193.7	191.2	191.5	191.2	191.3	191.0
70.5°	188.2	185.3	185.6	185.5	185.6	185.1
71°	182.3	178.9	179.3	179.4	179.4	179.1
71.5°	176.1	173.2	173.5	173.2	173.2	173.4
72°	170.1	167.3	167.3	167.2	167.0	167.4
72.5°	164.2	161.4	161.4	161.4	160.8	161.1
73°	158.5	155.3	155.8	155.4	155.0	155.3
73.5°	152.6	149.3	149.9	149.4	149.3	149.3
74°	146.8	143.4	143.7	143.2	143.2	143.2
74.5°	140.7	137.5	137.7	137.3	137.1	137.3
75°	134.8	131.5	131.6	131.3	131.0	131.3
75.5°	128.7	125.6	125.7	125.2	125.0	125.5
76°	122.9	119.6	119.7	119.4	119.3	119.5
76.5°	117.1	113.5	113.8	113.6	113.4	113.5
77°	111.2	107.9	107.9	107.5	107.5	107.7
77.5°	105.3	102.3	102.0	101.9	102.0	101.8
78°	99.4	96.5	96.1	96.2	96.2	96.1
78.5°	93.7	90.9	90.5	90.5	90.6	90.5
79°	88.1	85.3	84.8	84.9	85.2	84.8
79.5°	82.5	79.5	79.5	79.3	79.6	79.2
80°	76.9	73.9	73.9	73.7	74.0	73.8
80.5°	71.5	68.5	68.5	68.5	68.4	68.3
81°	66.1	63.1	63.2	63.2	63.0	63.0
81.5°	60.7	57.8	58.1	58.2	57.8	57.8
82°	55.5	52.8	52.9	53.0	52.6	52.8
82.5°	50.7	47.8	48.1	47.8	47.6	47.7
83°	45.7	43.1	43.2	43.1	42.7	42.7
83.5°	40.8	38.4	38.4	38.3	37.9	38.0
84°	36.1	33.9	33.9	33.8	33.6	33.6
84.5°	31.6	29.5	29.6	29.5	29.4	29.4
85°	27.3	25.4	25.5	25.3	25.3	25.3
85.5°	23.1	21.7	21.8	21.7	21.7	21.5
86°	19.9	18.0	18.2	18.2	18.0	17.9
86.5°	16.4	14.6	14.9	14.7	14.6	14.5
87°	13.3	11.4	11.6	11.5	11.4	11.3
87.5°	10.3	8.3	8.4	8.4	8.3	8.3
88°	7.5	5.8	6.0	5.9	5.9	5.8
88.5°	5.1	3.8	4.0	4.0	4.0	3.8
89°	3.2	2.3	2.4	2.4	2.4	2.3
89.5°	1.6	1.3	1.3	1.3	1.3	1.3

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869675
CATALOG NUMBER: SMX14SLSFS010-1600LM-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)