

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: P869669

Luminaire Tested: **SMX14SLSFS010-1300LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869669
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14SLSFS010-1300LM-4000K
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

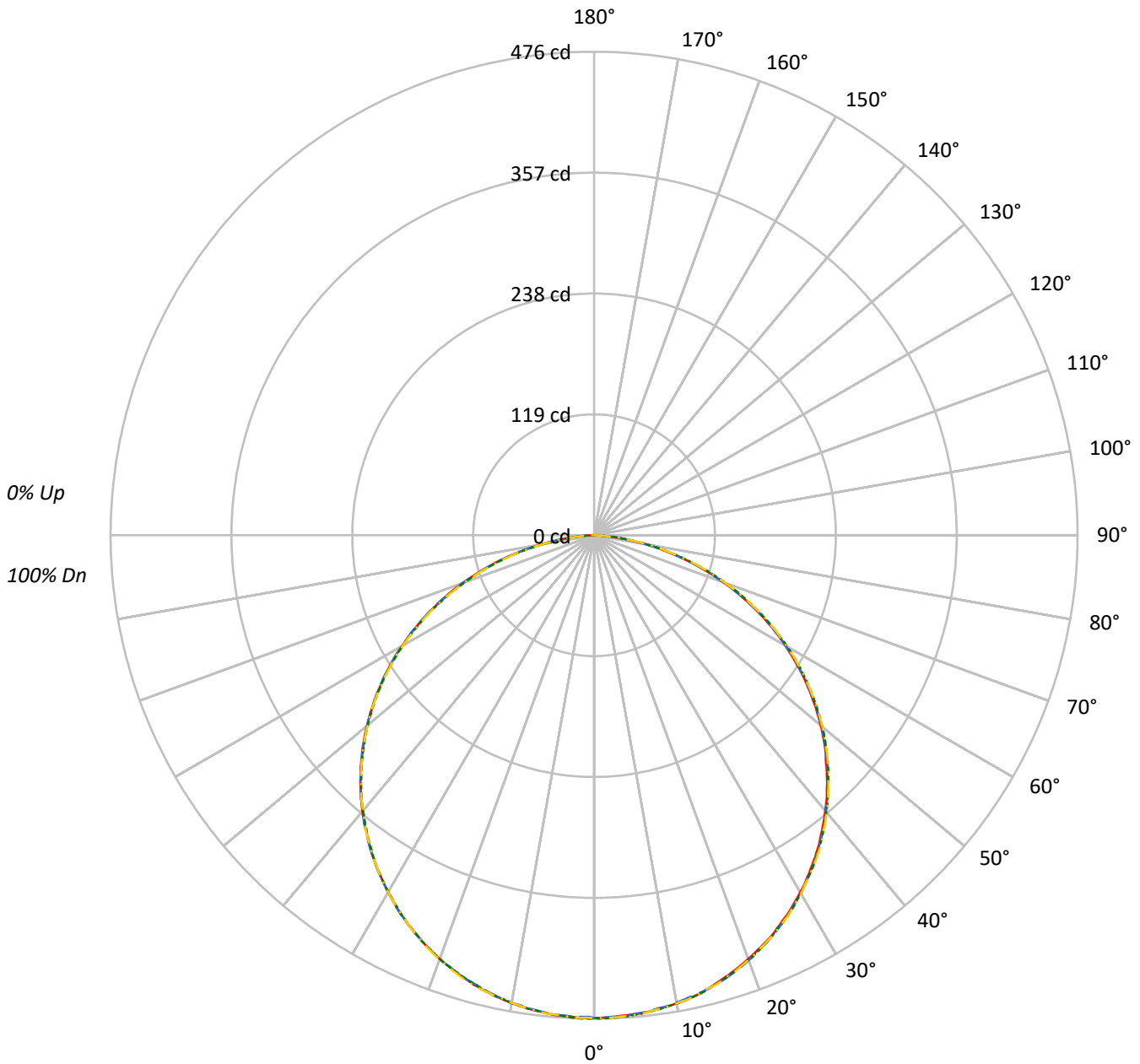
Lumens per Lamp: N/A
 Luminaire Lumens: 1389.1 lumens
 Efficiency: N/A
 Efficacy: 96.5 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 14.4
 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69	69	69	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50	50	50	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3757	3757	3757	3757
5°	3754	3759	3757	3757
10°	3757	3757	3754	3754
15°	3748	3752	3748	3741
20°	3732	3741	3735	3733
25°	3722	3728	3719	3719
30°	3705	3716	3703	3698
35°	3682	3696	3685	3676
40°	3653	3670	3661	3650
45°	3618	3644	3634	3618
50°	3583	3608	3589	3577
55°	3521	3550	3534	3523
60°	3441	3476	3457	3441
65°	3325	3363	3351	3318
70°	3134	3191	3182	3136
75°	2846	2913	2916	2849
80°	2385	2476	2467	2385
85°	1632	1723	1714	1632

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	3.2
10°-20°	129.3	9.3
20°-30°	196.9	14.2
30°-40°	239.1	17.2
40°-50°	250.5	18.0
50°-60°	229.1	16.5
60°-70°	176.4	12.7
70°-80°	99.8	7.2
80°-90°	23.2	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°	371.1	26.7
0°-40°	610.2	43.9
0°-60°	1089.8	78.5
0°-90°	1389.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1389.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	475	475	475	475	475	
5°	473	474	474	474	473	45
15°	458	458	458	457	458	129
25°	427	428	426	426	427	197
35°	382	383	382	381	382	239
45°	324	326	325	324	324	250
55°	256	258	256	256	256	228
65°	178	180	179	177	178	175
75°	93	95	96	93	93	99
85°	18	19	19	18	18	22
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°	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4
0.5°	475.2	476.0	474.8	475.3	475.8	475.5	475.5	475.5	475.2	475.8	474.2
1°	475.2	476.1	475.0	475.1	475.8	475.4	475.3	475.2	475.4	475.4	474.3
1.5°	474.9	475.7	474.8	474.8	475.7	475.2	475.6	474.9	475.1	475.4	474.4
2°	474.9	475.5	474.6	474.9	475.5	474.9	475.4	474.8	475.2	475.5	474.3
2.5°	474.7	475.5	474.5	474.5	475.6	475.1	475.2	474.7	474.8	475.4	474.2
3°	474.1	475.3	474.1	474.3	475.1	474.8	474.9	474.6	474.6	474.9	474.1
3.5°	473.8	474.8	474.1	474.1	474.9	474.4	474.6	474.4	474.3	474.9	473.9
4°	473.8	474.4	473.6	473.6	474.9	474.3	474.3	474.3	474.1	474.5	473.8
4.5°	473.5	474.2	473.3	473.4	474.2	474.0	474.1	473.8	474.1	474.7	473.2
5°	473.1	473.9	472.7	473.3	473.8	473.7	473.9	473.4	473.6	474.1	473.0
5.5°	472.9	473.4	472.6	472.8	473.4	473.3	473.7	472.7	473.1	473.5	472.7
6°	472.6	472.9	472.2	472.5	473.0	472.6	473.0	472.5	472.6	472.9	472.3
6.5°	472.2	472.8	471.6	471.9	472.6	471.8	472.6	472.1	471.9	472.4	471.6
7°	471.7	472.2	471.1	471.5	471.9	471.6	471.6	471.4	471.7	471.7	471.0
7.5°	471.1	471.5	470.3	470.7	471.3	470.9	471.1	470.8	471.0	471.4	470.4
8°	470.3	470.9	469.8	470.2	470.7	470.3	470.7	470.3	470.5	470.8	469.7
8.5°	469.8	470.3	469.7	469.4	470.0	469.8	470.1	469.3	469.8	469.8	468.9
9°	469.4	469.8	468.8	468.9	469.4	469.0	469.7	468.6	469.1	469.4	468.3
9.5°	468.7	468.9	468.1	468.2	468.7	468.1	468.7	468.0	468.3	468.9	467.8
10°	468.1	467.8	467.3	467.6	468.1	467.8	468.1	467.4	467.8	468.1	467.4
10.5°	467.5	467.3	466.3	466.8	467.8	466.9	467.2	466.5	466.8	467.2	466.4
11°	466.8	466.2	465.8	466.1	466.9	466.2	466.8	465.6	466.0	466.6	465.4
11.5°	465.9	465.6	464.7	465.0	466.0	465.6	466.2	464.7	465.0	465.4	464.6
12°	464.9	465.0	463.9	464.5	465.0	464.6	464.8	463.7	464.3	464.3	463.8
12.5°	464.0	464.2	463.3	463.4	464.3	464.0	463.9	462.9	463.3	463.3	462.7
13°	463.1	463.3	462.4	462.6	463.2	462.9	462.9	462.0	462.2	462.4	461.6
13.5°	462.0	462.4	461.7	461.2	462.3	461.6	461.4	460.8	461.4	461.7	460.7
14°	460.8	461.3	460.5	460.2	461.1	460.7	460.4	459.5	460.5	460.5	459.4
14.5°	459.4	460.0	459.5	459.0	459.7	459.5	459.7	458.5	458.9	459.5	458.0
15°	458.0	459.1	458.7	458.2	458.5	458.7	458.8	456.9	458.1	458.5	457.2
15.5°	456.6	457.9	457.8	456.6	457.4	457.4	457.5	455.9	456.6	457.3	456.0
16°	455.3	456.2	456.5	455.3	455.9	455.9	455.9	455.1	455.3	455.8	455.0
16.5°	453.9	454.7	455.2	454.3	454.9	454.7	454.5	453.9	454.0	454.4	453.8
17°	452.7	453.3	454.0	452.7	453.4	453.3	453.3	452.7	452.7	452.9	452.6
17.5°	451.2	451.8	452.7	451.1	452.0	451.8	452.1	451.2	451.1	451.7	451.2
18°	449.9	450.2	451.4	449.9	450.6	450.6	450.8	449.8	449.6	450.1	449.7
18.5°	448.4	448.9	450.2	448.6	449.4	449.0	449.3	448.7	448.2	448.9	448.2
19°	446.9	447.2	448.5	447.1	447.7	447.9	447.9	447.3	446.9	447.4	447.0
19.5°	445.4	445.7	447.0	445.3	446.2	446.5	446.4	445.7	445.7	446.0	445.7
20°	443.7	444.3	445.3	444.0	444.8	445.0	445.0	444.3	444.1	444.4	444.1
20.5°	442.4	443.1	443.9	442.3	443.5	443.7	443.5	442.7	442.7	442.7	442.7
21°	440.8	441.1	442.4	441.0	441.9	441.8	441.8	441.3	441.0	441.2	440.9
21.5°	439.0	439.6	440.6	439.1	440.2	439.9	439.9	439.6	439.2	439.5	439.1
22°	437.6	437.9	438.1	437.6	438.5	438.0	438.3	438.3	437.7	437.7	437.4

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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°	436.0	436.4	437.0	436.0	436.8	436.3	436.7	436.4	435.8	435.8	435.5
23°	434.3	434.7	435.2	434.1	435.2	434.6	435.0	434.4	434.3	434.0	433.5
23.5°	432.8	433.1	433.5	432.5	433.3	433.0	433.2	432.6	432.1	432.2	432.1
24°	431.1	431.2	431.4	430.7	431.5	431.4	431.6	430.9	430.4	430.7	430.2
24.5°	429.1	429.3	429.7	428.8	429.7	429.7	430.0	429.2	428.5	429.2	428.5
25°	426.8	427.7	428.0	426.8	427.5	427.8	428.0	427.4	426.4	426.9	426.5
25.5°	425.0	425.8	425.9	424.9	425.9	425.8	425.8	425.1	424.9	424.9	424.9
26°	422.7	423.6	423.7	422.7	424.0	423.9	424.0	423.2	422.9	423.4	423.0
26.5°	421.0	421.7	422.0	420.8	422.2	421.8	422.0	420.9	420.7	421.1	420.7
27°	419.1	419.8	419.6	419.2	420.3	419.8	420.3	419.2	418.7	419.0	419.0
27.5°	417.0	417.6	417.6	417.1	418.1	417.6	418.3	417.2	416.9	417.1	416.6
28°	414.8	415.3	415.5	415.0	416.0	415.8	415.9	415.0	414.6	415.2	414.8
28.5°	412.6	413.2	413.2	413.3	414.0	413.6	413.7	413.2	412.2	413.2	412.6
29°	410.4	411.1	411.3	411.0	411.5	411.2	411.5	411.0	409.9	411.0	410.1
29.5°	408.2	408.8	409.0	408.9	409.3	409.1	409.5	408.6	407.9	409.1	407.8
30°	406.0	406.5	406.7	406.6	407.2	407.1	407.3	406.5	405.7	406.4	405.4
30.5°	403.7	404.3	404.7	404.7	404.8	404.9	404.9	404.3	403.4	404.1	403.3
31°	401.6	401.9	402.0	402.5	402.4	402.7	402.4	402.0	401.0	401.9	401.2
31.5°	399.2	399.8	399.9	400.2	400.0	400.2	400.2	399.5	398.6	399.3	398.8
32°	396.6	397.5	397.6	397.6	397.5	397.9	397.9	397.1	396.2	397.0	396.5
32.5°	394.3	395.2	395.4	395.5	395.5	395.6	395.8	395.0	394.2	395.0	394.0
33°	391.5	392.6	392.6	393.1	393.2	393.1	393.2	392.5	391.8	392.6	391.8
33.5°	389.3	390.3	390.5	390.6	390.7	390.3	390.9	390.0	389.3	390.3	389.3
34°	386.8	388.0	387.9	388.2	388.2	388.0	388.6	387.3	386.7	387.4	386.8
34.5°	384.3	385.1	385.4	385.7	385.8	385.6	386.3	384.6	384.3	384.8	384.5
35°	381.6	382.0	382.6	383.0	383.1	383.2	383.9	382.5	381.9	382.2	381.8
35.5°	379.3	379.5	380.0	380.1	380.7	380.8	381.2	379.8	379.4	379.5	379.2
36°	376.6	377.0	377.2	377.7	378.0	377.8	378.6	377.1	376.6	376.9	376.6
36.5°	373.7	374.8	374.6	375.0	375.4	375.0	375.9	374.4	373.9	374.1	373.6
37°	370.8	371.8	372.1	372.4	372.7	372.6	373.3	371.4	371.0	371.6	371.1
37.5°	368.2	369.3	369.6	369.7	369.8	369.8	370.3	369.0	368.3	368.8	368.5
38°	365.4	366.7	366.8	366.8	367.2	366.9	367.3	366.3	365.9	366.3	365.9
38.5°	362.7	363.7	363.8	363.9	364.3	364.0	364.7	363.6	363.2	363.4	363.3
39°	359.9	361.1	360.9	361.1	361.5	361.2	361.9	360.6	360.5	360.5	360.2
39.5°	357.0	358.0	358.1	358.0	358.7	358.9	358.8	357.9	357.8	357.6	357.4
40°	354.1	354.9	355.2	355.2	355.7	356.2	356.0	355.4	354.8	354.9	354.7
40.5°	351.4	352.3	352.4	352.1	352.8	353.3	353.4	352.6	351.9	352.1	351.7
41°	348.4	349.4	349.5	349.3	350.2	350.4	350.3	349.6	348.7	349.2	348.9
41.5°	345.7	346.4	346.7	346.2	347.2	347.7	347.7	346.7	346.2	346.3	346.1
42°	342.6	343.3	343.6	343.3	343.9	344.6	344.5	343.9	343.5	343.1	343.1
42.5°	339.4	340.3	340.8	340.2	341.1	341.6	341.3	340.9	340.4	340.0	340.1
43°	336.4	337.2	337.8	337.2	338.2	338.4	338.3	337.7	337.2	336.9	337.1
43.5°	333.2	334.3	334.6	334.2	335.2	335.2	335.3	334.7	334.3	333.8	333.9
44°	330.1	331.1	331.5	331.2	332.0	332.2	332.3	331.7	331.1	330.7	330.9
44.5°	327.1	327.9	328.4	327.9	329.0	329.2	329.2	328.6	328.1	327.7	327.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	323.7	324.9	325.3	324.9	326.0	326.2	325.9	325.5	325.1	324.7	324.4
45.5°	320.4	321.6	322.3	321.7	323.0	323.0	322.6	322.4	321.8	321.5	321.1
46°	317.3	318.8	318.9	318.7	319.6	319.6	319.6	319.1	318.5	318.2	318.1
46.5°	314.5	315.4	315.6	315.5	316.4	316.4	316.6	315.8	315.3	315.3	314.8
47°	311.4	312.1	312.3	312.2	313.1	313.2	313.3	312.4	312.1	311.9	311.5
47.5°	308.3	309.1	308.9	308.8	309.8	310.1	309.9	309.2	308.9	308.6	308.1
48°	304.8	305.7	305.5	305.6	306.6	306.9	306.7	306.0	305.4	305.4	304.8
48.5°	301.3	302.3	302.3	302.1	303.4	303.4	303.4	302.8	301.9	302.1	301.6
49°	298.0	299.0	298.9	298.9	300.2	300.0	299.9	299.3	298.9	298.8	298.3
49.5°	294.6	295.7	295.5	295.4	296.8	296.5	296.6	296.2	295.4	295.7	294.9
50°	291.4	292.2	292.2	291.9	293.4	293.4	293.2	292.6	291.9	292.1	291.7
50.5°	287.6	288.8	288.7	288.5	289.9	289.8	289.8	289.3	288.5	288.6	288.3
51°	284.2	285.2	285.1	285.0	286.3	286.3	286.5	285.6	285.0	285.2	285.0
51.5°	280.7	281.7	281.8	281.6	282.9	282.7	283.0	282.1	281.5	281.7	281.2
52°	277.3	278.4	278.2	278.1	279.2	279.4	279.5	278.6	277.7	278.2	277.7
52.5°	273.7	274.6	274.6	274.6	275.9	276.0	275.9	275.1	274.4	274.9	274.2
53°	270.1	271.1	270.9	270.8	272.1	272.4	272.1	271.5	271.1	271.3	270.8
53.5°	266.4	267.5	267.3	267.2	268.5	268.6	268.4	268.2	267.5	268.0	267.2
54°	262.8	263.5	263.7	263.5	264.8	265.0	264.8	264.5	263.7	264.1	263.7
54.5°	258.9	259.8	260.1	260.0	261.3	261.3	261.2	260.7	260.0	260.4	260.2
55°	255.5	256.4	256.1	256.5	257.6	257.7	257.7	257.1	256.5	256.8	256.7
55.5°	252.0	252.6	252.6	252.6	253.8	254.2	253.7	253.2	252.9	253.4	252.9
56°	248.3	249.0	248.8	249.1	250.1	250.6	250.5	249.8	249.3	249.6	249.3
56.5°	244.6	245.2	245.2	245.4	246.5	246.8	246.8	245.9	245.5	245.8	245.4
57°	240.6	241.3	241.4	241.7	242.7	243.2	242.9	242.3	241.6	242.1	241.7
57.5°	236.6	237.4	237.6	237.8	239.0	239.1	239.2	238.5	237.9	238.3	238.1
58°	233.1	233.6	233.7	233.8	235.0	235.5	235.0	234.9	234.1	234.3	234.5
58.5°	229.2	229.9	230.0	230.0	231.3	231.8	231.0	231.0	230.4	230.5	230.7
59°	225.2	226.2	225.8	225.9	227.6	227.6	227.3	227.1	226.6	226.9	226.7
59.5°	221.4	222.1	221.9	222.1	223.8	223.7	223.5	223.2	222.5	223.1	222.8
60°	217.7	218.2	217.9	218.1	219.9	219.8	219.6	219.6	218.7	219.1	218.9
60.5°	214.1	214.2	214.1	213.9	215.9	215.9	215.4	215.4	214.5	215.1	215.0
61°	209.8	210.1	210.2	210.0	211.9	212.2	211.6	211.8	210.9	211.2	211.0
61.5°	205.9	206.2	206.4	205.9	207.8	208.3	207.6	207.7	207.1	207.4	207.0
62°	201.9	202.3	202.5	202.3	204.0	204.3	204.1	203.9	203.2	203.5	203.4
62.5°	198.0	198.1	198.5	198.1	199.8	200.1	199.9	199.8	199.1	199.4	199.3
63°	193.8	194.0	194.5	194.2	195.8	196.4	195.9	195.9	195.2	195.4	195.1
63.5°	189.8	190.2	190.4	190.2	191.8	192.3	192.0	192.0	191.3	191.4	191.3
64°	185.7	186.1	186.3	186.2	187.9	188.2	187.9	187.7	187.3	187.4	187.1
64.5°	181.8	182.3	182.4	182.0	183.8	183.9	183.7	183.5	183.2	183.2	183.1
65°	177.8	178.2	178.1	178.0	179.8	180.2	179.9	179.5	179.2	179.3	179.2
65.5°	173.7	173.9	174.0	173.7	176.0	175.7	175.6	175.3	175.0	175.3	175.2
66°	169.5	169.7	169.7	169.5	171.7	171.6	171.1	171.1	170.8	171.2	171.1
66.5°	165.2	165.6	165.4	165.4	167.4	167.4	167.2	167.0	166.8	167.1	166.7
67°	160.9	161.2	161.3	161.2	163.2	163.4	163.1	163.0	162.6	162.9	162.8

TEST NUMBER: P869669
 CATALOG NUMBER: SMX14SLSFS010-1300LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	156.8	157.2	157.1	157.1	159.0	159.2	158.8	158.7	158.6	158.8	158.6
68°	152.6	153.0	152.9	153.0	154.9	155.2	154.8	154.6	154.7	154.6	154.3
68.5°	148.4	148.7	148.7	148.7	150.8	151.0	150.6	150.4	150.6	150.6	150.1
69°	144.3	144.6	144.5	144.3	146.7	146.8	146.4	146.2	146.2	146.2	145.7
69.5°	139.8	140.2	140.3	140.1	142.3	142.6	142.2	141.9	142.0	142.0	141.7
70°	135.6	136.0	135.9	135.8	138.1	138.3	137.8	137.6	137.7	137.8	137.3
70.5°	131.4	131.8	131.4	131.7	133.9	134.1	133.7	133.5	133.7	133.5	133.3
71°	127.1	127.4	127.2	127.3	129.6	129.9	129.2	129.4	129.3	129.3	129.0
71.5°	123.1	123.2	123.0	122.9	125.3	125.4	125.1	125.0	125.2	124.9	124.7
72°	118.8	118.9	118.7	118.6	121.0	121.2	120.9	120.9	121.0	120.7	120.5
72.5°	114.4	114.8	114.6	114.2	116.8	117.0	116.8	116.5	116.7	116.5	116.2
73°	110.2	110.5	110.3	110.2	112.6	112.8	112.5	112.4	112.4	112.3	112.0
73.5°	106.0	106.3	106.0	106.0	108.4	108.7	108.5	108.3	108.2	108.1	108.0
74°	101.7	101.9	101.8	101.8	104.2	104.5	104.4	104.0	104.0	103.8	103.7
74.5°	97.5	97.9	97.5	97.6	99.9	100.2	99.8	99.8	99.7	99.7	99.5
75°	93.2	93.5	93.4	93.2	95.4	95.7	95.7	95.5	95.5	95.5	95.4
75.5°	89.1	89.1	89.1	88.9	91.2	91.5	91.3	91.3	91.2	91.2	91.2
76°	84.8	85.0	84.8	84.9	87.0	87.3	87.0	87.0	87.0	87.0	86.9
76.5°	80.6	80.8	80.8	80.6	82.9	83.0	82.8	82.9	82.9	82.8	82.9
77°	76.4	76.5	76.4	76.4	78.6	79.0	78.8	78.7	78.6	78.7	78.7
77.5°	72.3	72.6	72.4	72.4	74.4	74.7	74.5	74.6	74.5	74.7	74.7
78°	68.2	68.4	68.2	68.3	70.4	70.6	70.4	70.3	70.2	70.5	70.4
78.5°	64.2	64.3	64.2	64.3	66.5	66.5	66.5	66.2	66.1	66.4	66.4
79°	60.2	60.3	60.1	60.4	62.6	62.6	62.4	62.4	62.2	62.4	62.3
79.5°	56.2	56.4	56.3	56.4	58.6	58.5	58.4	58.4	58.2	58.5	58.5
80°	52.4	52.4	52.4	52.3	54.4	54.6	54.3	54.3	54.2	54.5	54.4
80.5°	48.5	48.5	48.5	48.3	50.5	50.8	50.5	50.5	50.4	50.6	50.7
81°	44.7	44.8	44.7	44.4	46.6	46.9	46.7	46.6	46.6	46.8	46.9
81.5°	41.0	41.1	40.9	40.8	42.8	43.0	42.8	42.8	42.8	43.0	43.1
82°	37.4	37.4	37.4	37.1	39.2	39.3	39.2	39.0	39.0	39.2	39.4
82.5°	33.9	33.9	33.8	33.6	35.7	35.8	35.7	35.5	35.5	35.7	36.0
83°	30.3	30.5	30.3	30.0	32.1	32.2	32.2	32.0	32.0	32.2	32.5
83.5°	27.0	27.1	26.9	26.8	28.5	28.7	28.6	28.6	28.6	28.7	29.0
84°	23.8	23.9	23.8	23.5	25.2	25.3	25.3	25.2	25.1	25.4	25.6
84.5°	20.9	20.9	20.8	20.6	22.1	22.3	22.1	22.0	22.0	22.2	22.4
85°	18.0	17.9	17.9	17.6	19.0	19.1	19.1	19.0	18.9	19.1	19.3
85.5°	15.3	15.3	15.3	15.0	16.1	16.2	16.1	16.1	16.1	16.2	16.4
86°	12.7	12.7	12.7	12.4	13.7	13.7	13.7	13.7	13.7	13.9	14.0
86.5°	10.3	10.4	10.3	10.1	11.4	11.4	11.5	11.3	11.4	11.6	11.6
87°	8.0	8.0	8.1	7.8	9.1	9.2	9.2	9.1	9.1	9.2	9.3
87.5°	5.9	5.8	5.8	5.6	7.0	7.0	7.0	6.9	6.9	7.1	7.2
88°	4.1	4.1	4.1	4.0	5.1	5.1	5.1	5.0	5.0	5.2	5.3
88.5°	2.7	2.8	2.7	2.6	3.4	3.6	3.4	3.4	3.3	3.5	3.6
89°	1.7	1.7	1.7	1.7	2.0	2.1	2.0	2.0	1.9	2.1	2.1
89.5°	0.9	0.9	0.9	0.9	1.0	1.1	1.0	0.9	0.8	0.9	1.0

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



TEST NUMBER: P869669
CATALOG NUMBER: SMX14SLSFS010-1300LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P869669
 CATALOG NUMBER: SMX14SLSFS010-1300LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	475.4	475.4	475.4	475.4	475.4	475.4
0.5°	475.0	476.1	475.7	475.4	475.3	475.2
1°	474.9	475.9	476.1	475.2	475.0	475.2
1.5°	475.1	476.1	475.7	475.5	474.7	474.9
2°	474.7	475.6	475.4	475.2	474.8	474.9
2.5°	474.8	475.4	475.1	474.8	475.1	474.7
3°	474.6	474.8	474.6	474.6	474.8	474.1
3.5°	474.1	474.3	474.6	474.2	474.7	473.8
4°	474.1	474.1	474.6	473.7	474.2	473.8
4.5°	473.6	473.7	473.9	473.5	473.9	473.5
5°	472.9	473.5	473.3	473.3	473.3	473.1
5.5°	472.4	473.0	473.0	473.4	472.9	472.9
6°	471.7	472.5	472.2	472.7	472.5	472.6
6.5°	471.4	471.8	471.7	472.4	471.7	472.2
7°	470.9	471.3	471.1	471.6	471.1	471.7
7.5°	470.9	471.0	470.7	470.9	471.0	471.1
8°	469.9	470.6	469.8	470.3	470.1	470.3
8.5°	469.2	469.9	469.5	469.8	469.3	469.8
9°	468.4	469.0	469.0	468.9	468.7	469.4
9.5°	467.5	468.5	468.0	468.2	468.0	468.7
10°	467.1	467.7	467.1	467.4	467.5	468.1
10.5°	466.1	466.8	466.5	466.6	467.0	467.5
11°	465.3	465.6	465.9	465.7	466.0	466.8
11.5°	464.4	464.6	465.2	464.5	465.3	465.9
12°	463.4	463.8	464.3	463.7	464.4	464.9
12.5°	462.6	462.9	463.3	463.3	464.0	464.0
13°	461.8	461.9	462.4	462.1	462.9	463.1
13.5°	460.8	460.7	461.1	461.4	461.7	462.0
14°	459.8	459.4	459.8	460.7	460.7	460.8
14.5°	458.4	458.2	458.4	459.4	459.4	459.4
15°	457.4	457.2	457.0	458.5	458.0	458.0
15.5°	456.1	456.0	456.0	457.5	456.8	456.6
16°	455.0	454.8	454.6	456.5	455.1	455.3
16.5°	453.7	453.5	453.5	455.2	454.0	453.9
17°	452.3	452.2	452.2	453.6	452.6	452.7
17.5°	450.9	451.0	450.6	452.1	451.0	451.2
18°	449.6	449.6	449.5	450.8	449.8	449.9
18.5°	448.3	448.3	448.1	449.1	448.1	448.4
19°	447.0	447.0	446.7	447.6	446.4	446.9
19.5°	445.3	445.4	445.6	446.0	445.0	445.4
20°	443.8	443.8	444.4	444.4	443.7	443.7
20.5°	442.1	442.2	442.9	442.9	442.4	442.4
21°	440.6	440.5	441.2	441.4	440.8	440.8
21.5°	438.9	438.9	439.9	439.7	439.5	439.0
22°	437.4	437.4	438.4	438.0	437.7	437.6

TEST NUMBER: P869669
 CATALOG NUMBER: SMX14SLSFS010-1300LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	435.4	435.5	436.5	436.1	436.0	436.0
23°	433.9	433.9	434.5	434.2	434.2	434.3
23.5°	432.3	432.0	433.2	432.5	432.6	432.8
24°	430.5	430.1	431.5	430.4	430.4	431.1
24.5°	428.6	428.3	429.0	428.8	428.6	429.1
25°	426.5	426.5	427.1	426.6	426.5	426.8
25.5°	424.6	424.6	425.1	424.8	424.6	425.0
26°	422.3	422.6	422.8	422.6	422.5	422.7
26.5°	420.4	420.4	420.8	420.4	420.4	421.0
27°	418.4	418.4	419.0	418.4	418.4	419.1
27.5°	416.7	416.3	417.0	416.3	416.3	417.0
28°	414.4	414.0	414.9	414.2	414.1	414.8
28.5°	412.4	411.8	412.8	412.4	412.3	412.6
29°	410.1	409.8	410.8	410.1	409.9	410.4
29.5°	407.8	407.3	408.8	407.9	407.7	408.2
30°	405.6	405.2	406.5	405.6	405.2	406.0
30.5°	403.2	403.2	404.1	403.0	402.9	403.7
31°	400.8	400.8	401.4	400.9	400.6	401.6
31.5°	398.5	398.5	398.8	398.6	398.3	399.2
32°	396.3	396.3	396.3	396.1	395.8	396.6
32.5°	394.1	393.7	394.1	394.1	393.6	394.3
33°	391.6	391.6	391.6	391.6	391.1	391.5
33.5°	389.2	389.1	389.4	389.0	388.8	389.3
34°	386.5	386.5	386.5	386.8	386.1	386.8
34.5°	384.2	383.8	384.1	384.3	383.6	384.3
35°	381.9	381.0	381.3	381.8	381.1	381.6
35.5°	379.3	378.3	378.7	379.2	378.6	379.3
36°	376.5	375.9	376.1	376.4	375.9	376.6
36.5°	373.9	373.2	373.4	373.6	373.4	373.7
37°	371.1	370.6	370.7	370.9	370.8	370.8
37.5°	368.5	367.6	367.9	368.4	368.1	368.2
38°	365.9	364.7	365.2	365.6	365.6	365.4
38.5°	363.3	361.9	362.7	362.5	362.7	362.7
39°	360.5	359.3	359.9	359.8	359.8	359.9
39.5°	357.7	356.6	357.2	357.0	357.0	357.0
40°	354.7	353.8	354.3	354.1	354.0	354.1
40.5°	351.6	351.1	351.3	351.2	351.3	351.4
41°	348.8	348.6	348.6	348.5	348.4	348.4
41.5°	345.8	345.5	345.7	345.7	345.9	345.7
42°	342.8	342.5	342.6	342.8	343.1	342.6
42.5°	339.9	339.3	339.8	339.7	339.6	339.4
43°	336.8	336.2	336.5	336.6	336.4	336.4
43.5°	334.0	333.1	333.8	333.4	333.3	333.2
44°	330.8	329.8	330.7	330.2	330.1	330.1
44.5°	327.9	327.0	327.4	327.1	327.5	327.1

TEST NUMBER: P869669
 CATALOG NUMBER: SMX14SLSFS010-1300LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	324.7	323.7	324.3	324.0	324.2	323.7
45.5°	321.7	320.5	321.1	320.8	320.6	320.4
46°	318.3	317.4	317.8	317.8	317.3	317.3
46.5°	315.0	314.0	314.8	314.4	314.1	314.5
47°	311.8	310.6	311.8	311.3	311.1	311.4
47.5°	308.5	307.3	308.5	307.9	308.1	308.3
48°	305.1	304.1	305.0	304.5	305.0	304.8
48.5°	302.1	300.9	301.6	301.2	301.6	301.3
49°	298.4	297.6	298.3	297.8	297.7	298.0
49.5°	295.1	294.3	294.9	294.4	294.2	294.6
50°	291.9	290.9	291.4	291.0	291.2	291.4
50.5°	288.4	287.5	288.0	287.6	287.6	287.6
51°	285.2	284.0	284.5	284.2	283.9	284.2
51.5°	281.6	280.3	280.8	280.7	280.2	280.7
52°	278.1	276.9	277.5	277.2	276.8	277.3
52.5°	274.4	273.1	273.9	273.8	273.3	273.7
53°	271.0	269.8	270.1	270.2	269.8	270.1
53.5°	267.5	266.3	266.7	266.6	266.2	266.4
54°	264.0	262.7	262.7	262.8	262.8	262.8
54.5°	260.3	259.0	259.3	258.9	258.9	258.9
55°	256.6	255.7	255.7	255.1	255.3	255.5
55.5°	253.0	252.0	252.1	251.5	251.7	252.0
56°	249.7	248.2	248.4	247.7	248.0	248.3
56.5°	245.8	244.5	244.6	244.2	244.4	244.6
57°	242.0	240.6	240.8	240.3	240.6	240.6
57.5°	238.2	236.9	237.1	236.6	236.6	236.6
58°	234.5	233.0	233.1	233.3	232.8	233.1
58.5°	230.7	229.2	229.2	229.4	229.3	229.2
59°	226.9	225.3	225.3	225.6	225.5	225.2
59.5°	222.8	221.5	221.4	221.5	221.7	221.4
60°	218.7	217.7	217.6	217.6	217.6	217.7
60.5°	215.1	213.8	213.7	213.5	213.4	214.1
61°	211.3	209.7	209.9	209.4	209.5	209.8
61.5°	207.4	205.7	206.1	205.4	205.8	205.9
62°	203.3	202.0	202.1	201.4	201.6	201.9
62.5°	199.4	197.9	198.1	197.6	197.5	198.0
63°	195.3	193.7	193.9	193.7	193.4	193.8
63.5°	191.2	189.7	190.0	189.5	189.4	189.8
64°	187.5	185.6	185.9	185.4	185.4	185.7
64.5°	183.1	181.6	181.9	181.5	181.4	181.8
65°	179.3	177.4	177.7	177.4	177.3	177.8
65.5°	175.1	173.4	173.5	173.2	173.3	173.7
66°	170.8	169.1	169.2	169.2	169.2	169.5
66.5°	166.7	164.9	165.1	165.0	165.3	165.2
67°	162.8	160.6	161.0	160.7	161.3	160.9

TEST NUMBER: P869669
 CATALOG NUMBER: SMX14SLSFS010-1300LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	158.5	156.5	157.1	156.7	157.1	156.8
68°	154.3	152.4	152.8	152.4	152.5	152.6
68.5°	150.1	148.5	148.6	148.3	148.4	148.4
69°	145.9	144.3	144.5	144.3	144.3	144.3
69.5°	141.7	140.0	140.3	140.0	140.1	139.8
70°	137.5	135.7	135.9	135.7	135.8	135.6
70.5°	133.5	131.5	131.7	131.7	131.7	131.4
71°	129.4	127.0	127.3	127.3	127.3	127.1
71.5°	125.0	122.9	123.2	122.9	122.9	123.1
72°	120.7	118.7	118.7	118.7	118.6	118.8
72.5°	116.5	114.5	114.6	114.5	114.1	114.4
73°	112.5	110.3	110.6	110.3	110.0	110.2
73.5°	108.3	106.0	106.4	106.1	105.9	106.0
74°	104.2	101.8	102.0	101.6	101.7	101.7
74.5°	99.9	97.6	97.8	97.5	97.3	97.5
75°	95.7	93.3	93.4	93.2	93.0	93.2
75.5°	91.4	89.2	89.2	88.9	88.8	89.1
76°	87.2	84.9	85.0	84.7	84.7	84.8
76.5°	83.1	80.6	80.8	80.6	80.5	80.6
77°	78.9	76.5	76.5	76.3	76.3	76.4
77.5°	74.7	72.6	72.4	72.3	72.4	72.3
78°	70.6	68.5	68.2	68.3	68.3	68.2
78.5°	66.5	64.5	64.2	64.2	64.3	64.2
79°	62.5	60.6	60.2	60.3	60.5	60.2
79.5°	58.5	56.4	56.4	56.3	56.5	56.2
80°	54.6	52.4	52.4	52.3	52.6	52.4
80.5°	50.8	48.6	48.6	48.6	48.5	48.5
81°	46.9	44.8	44.9	44.9	44.7	44.7
81.5°	43.1	41.1	41.2	41.3	41.0	41.0
82°	39.4	37.5	37.6	37.6	37.3	37.4
82.5°	36.0	33.9	34.1	33.9	33.8	33.9
83°	32.5	30.6	30.6	30.6	30.3	30.3
83.5°	29.0	27.3	27.3	27.2	26.9	27.0
84°	25.6	24.1	24.1	24.0	23.8	23.8
84.5°	22.4	20.9	21.0	20.9	20.9	20.9
85°	19.4	18.0	18.1	18.0	18.0	18.0
85.5°	16.4	15.4	15.5	15.4	15.4	15.3
86°	14.1	12.8	12.9	12.9	12.8	12.7
86.5°	11.7	10.4	10.5	10.4	10.4	10.3
87°	9.4	8.1	8.2	8.2	8.1	8.0
87.5°	7.3	5.9	6.0	6.0	5.9	5.9
88°	5.3	4.1	4.3	4.2	4.2	4.1
88.5°	3.6	2.7	2.8	2.8	2.8	2.7
89°	2.3	1.6	1.7	1.7	1.7	1.7
89.5°	1.1	0.9	0.9	0.9	0.9	0.9

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



TEST NUMBER: P869669
CATALOG NUMBER: SMX14SLSFS010-1300LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)