

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: P869687

Luminaire Tested: **SMX14SLSFSD2W-1600LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869687
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14SLSFSD2W-1600LM-3000K
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

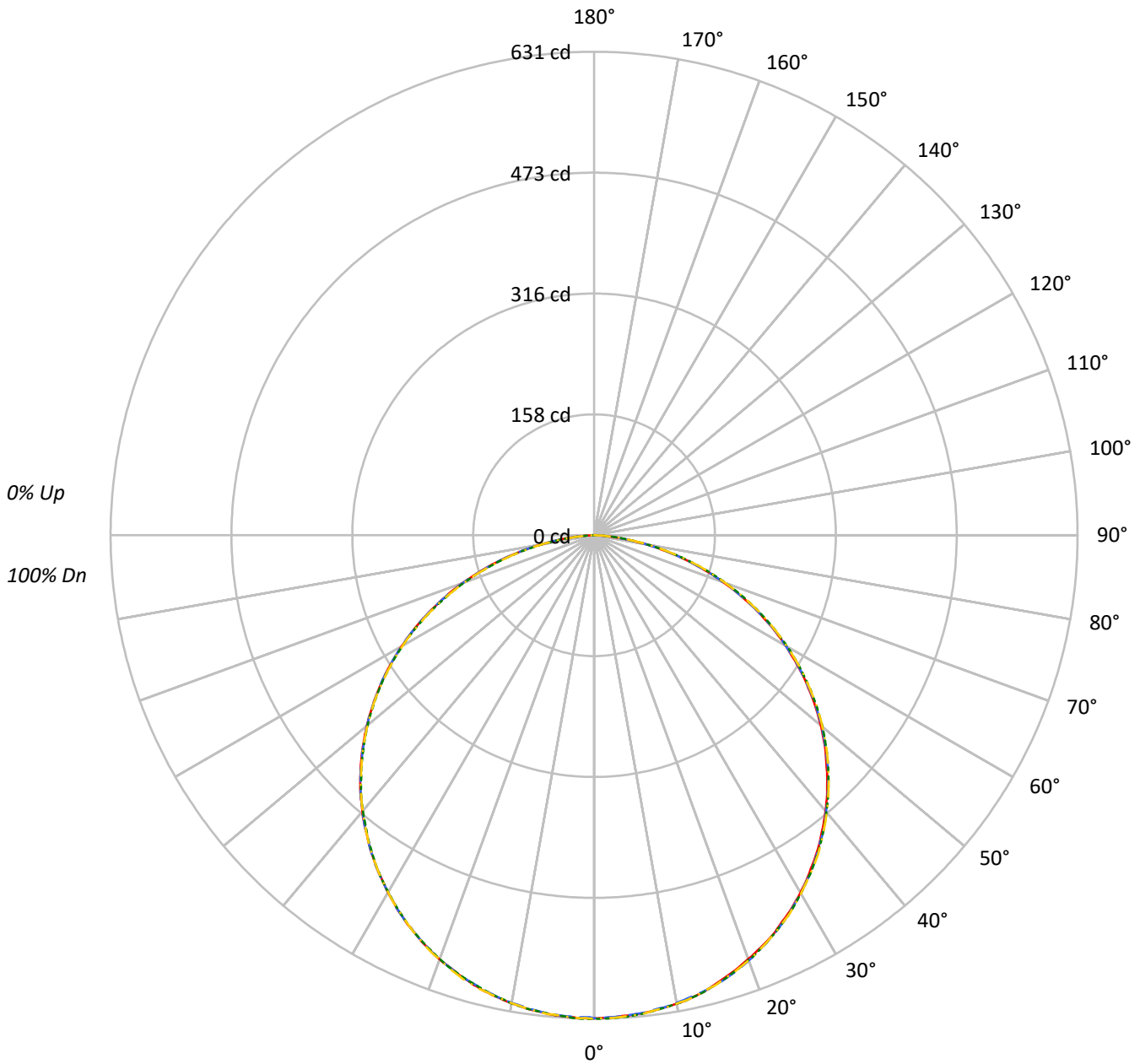
Lumens per Lamp: N/A
 Luminaire Lumens: 1842.5 lumens
 Efficiency: N/A
 Efficacy: 88.6 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 20.8
 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	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°	4984	4984	4984	4984
5°	4978	4986	4983	4982
10°	4983	4982	4979	4978
15°	4971	4977	4972	4962
20°	4950	4962	4954	4951
25°	4937	4946	4932	4933
30°	4915	4929	4911	4905
35°	4883	4902	4887	4876
40°	4846	4868	4855	4842
45°	4800	4833	4820	4800
50°	4752	4786	4760	4745
55°	4670	4707	4689	4673
60°	4565	4609	4586	4564
65°	4410	4460	4444	4401
70°	4155	4231	4220	4160
75°	3774	3863	3866	3781
80°	3163	3286	3273	3163
85°	2158	2285	2276	2167

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	3.2
10°-20°	171.5	9.3
20°-30°	261.1	14.2
30°-40°	317.1	17.2
40°-50°	332.3	18.0
50°-60°	303.8	16.5
60°-70°	234.0	12.7
70°-80°	132.3	7.2
80°-90°	30.8	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°	492.3	26.7
0°-40°	809.3	43.9
0°-60°	1445.4	78.4
0°-90°	1842.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	631	631	631	631	631	
5°	628	628	628	628	628	60
15°	608	608	608	606	608	171
25°	566	567	566	566	566	261
35°	506	508	506	505	506	317
45°	429	432	431	429	429	331
55°	339	342	340	339	339	303
65°	236	238	238	235	236	233
75°	124	126	127	124	124	131
85°	24	25	25	24	24	30
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°	630.6	630.6	630.6	630.6	630.6	630.6	630.6	630.6	630.6	630.6	630.6
0.5°	630.3	631.4	629.7	630.4	631.0	630.7	630.7	630.7	630.3	631.0	629.0
1°	630.3	631.5	630.0	630.1	631.0	630.5	630.4	630.3	630.5	630.5	629.2
1.5°	629.9	630.9	629.7	629.8	631.0	630.3	630.8	629.9	630.2	630.6	629.2
2°	629.9	630.7	629.5	629.9	630.7	629.9	630.6	629.7	630.3	630.7	629.2
2.5°	629.6	630.7	629.4	629.3	630.8	630.2	630.3	629.6	629.7	630.6	629.0
3°	628.8	630.4	628.8	629.1	630.2	629.8	629.9	629.6	629.5	629.9	628.8
3.5°	628.5	629.8	628.8	628.8	629.9	629.2	629.5	629.2	629.2	629.9	628.6
4°	628.4	629.2	628.1	628.1	629.9	629.2	629.2	629.2	628.8	629.3	628.5
4.5°	628.0	629.0	627.7	627.9	629.0	628.7	628.8	628.5	628.8	629.6	627.6
5°	627.5	628.6	627.0	627.7	628.5	628.3	628.6	627.9	628.1	628.8	627.4
5.5°	627.2	627.9	626.8	627.1	627.9	627.8	628.3	627.0	627.5	628.1	627.0
6°	626.8	627.3	626.3	626.6	627.4	626.8	627.4	626.6	626.8	627.2	626.4
6.5°	626.3	627.1	625.5	625.9	626.8	625.8	626.8	626.2	625.9	626.6	625.5
7°	625.6	626.3	624.9	625.4	625.9	625.5	625.5	625.2	625.6	625.7	624.7
7.5°	624.9	625.4	623.8	624.4	625.2	624.6	624.9	624.4	624.8	625.2	624.0
8°	623.8	624.5	623.2	623.7	624.3	623.7	624.3	623.7	624.1	624.4	623.0
8.5°	623.2	623.8	623.0	622.6	623.4	623.2	623.5	622.4	623.2	623.2	621.9
9°	622.6	623.1	621.9	621.9	622.6	622.1	623.0	621.5	622.2	622.6	621.1
9.5°	621.7	621.9	620.8	621.1	621.7	620.9	621.7	620.8	621.1	621.9	620.4
10°	620.9	620.5	619.8	620.2	620.8	620.5	620.9	619.9	620.4	620.8	619.9
10.5°	620.1	619.8	618.6	619.1	620.5	619.3	619.7	618.8	619.1	619.7	618.6
11°	619.1	618.4	617.8	618.2	619.3	618.4	619.1	617.5	618.1	618.9	617.3
11.5°	618.0	617.5	616.3	616.8	618.1	617.6	618.3	616.4	616.7	617.3	616.3
12°	616.7	616.7	615.3	616.1	616.8	616.3	616.5	615.0	615.8	615.8	615.2
12.5°	615.4	615.7	614.5	614.7	615.9	615.5	615.2	613.9	614.5	614.5	613.7
13°	614.2	614.5	613.3	613.5	614.3	614.0	614.0	612.8	613.0	613.4	612.3
13.5°	612.8	613.4	612.3	611.7	613.1	612.2	611.9	611.2	612.0	612.3	611.0
14°	611.2	611.8	610.8	610.4	611.6	611.0	610.7	609.5	610.8	610.8	609.3
14.5°	609.3	610.1	609.5	608.8	609.7	609.5	609.7	608.1	608.7	609.5	607.5
15°	607.5	608.9	608.4	607.7	608.2	608.4	608.5	606.1	607.6	608.1	606.4
15.5°	605.6	607.3	607.2	605.6	606.7	606.7	606.8	604.6	605.7	606.5	604.8
16°	603.9	605.1	605.4	603.9	604.7	604.7	604.6	603.6	603.9	604.6	603.5
16.5°	602.0	603.1	603.7	602.5	603.4	603.1	602.8	602.0	602.2	602.8	602.0
17°	600.4	601.3	602.2	600.5	601.4	601.2	601.3	600.5	600.5	600.7	600.3
17.5°	598.4	599.3	600.5	598.3	599.5	599.3	599.7	598.5	598.3	599.1	598.5
18°	596.7	597.1	598.7	596.8	597.6	597.6	597.9	596.5	596.3	596.9	596.5
18.5°	594.7	595.4	597.1	595.1	596.1	595.6	595.9	595.1	594.4	595.4	594.5
19°	592.7	593.2	594.9	593.0	593.8	594.0	594.1	593.3	592.7	593.4	592.9
19.5°	590.7	591.1	592.9	590.7	591.8	592.2	592.1	591.1	591.2	591.5	591.2
20°	588.5	589.3	590.6	588.8	589.9	590.3	590.2	589.3	589.0	589.5	589.0
20.5°	586.7	587.7	588.8	586.6	588.3	588.5	588.2	587.1	587.1	587.2	587.2
21°	584.6	585.1	586.7	584.9	586.2	586.0	586.0	585.4	584.9	585.2	584.8
21.5°	582.3	583.0	584.4	582.4	583.8	583.5	583.4	583.1	582.5	583.0	582.4
22°	580.4	580.8	581.1	580.4	581.6	581.0	581.4	581.4	580.5	580.5	580.1

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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°	578.2	578.9	579.7	578.3	579.4	578.6	579.3	578.8	578.1	578.1	577.6
23°	576.0	576.6	577.2	575.8	577.2	576.4	577.0	576.2	576.0	575.6	574.9
23.5°	574.0	574.4	574.9	573.6	574.8	574.3	574.6	573.8	573.1	573.2	573.1
24°	571.8	571.9	572.2	571.3	572.3	572.2	572.4	571.5	570.8	571.3	570.6
24.5°	569.1	569.4	570.0	568.8	570.0	569.9	570.3	569.3	568.3	569.3	568.4
25°	566.1	567.2	567.6	566.1	567.1	567.4	567.6	566.8	565.6	566.3	565.7
25.5°	563.7	564.8	564.9	563.6	564.9	564.8	564.8	563.9	563.6	563.6	563.5
26°	560.6	561.9	562.0	560.6	562.4	562.3	562.4	561.3	560.9	561.6	561.0
26.5°	558.4	559.3	559.7	558.2	560.0	559.5	559.8	558.3	558.0	558.5	558.0
27°	555.8	556.9	556.5	556.0	557.5	556.8	557.5	556.1	555.3	555.8	555.7
27.5°	553.1	554.0	554.0	553.2	554.5	554.0	554.8	553.4	552.9	553.2	552.6
28°	550.2	550.9	551.0	550.4	551.8	551.5	551.6	550.5	549.9	550.7	550.2
28.5°	547.3	548.1	548.1	548.2	549.1	548.5	548.8	548.1	546.7	548.1	547.3
29°	544.3	545.3	545.5	545.1	545.8	545.5	545.8	545.1	543.7	545.2	543.9
29.5°	541.5	542.2	542.5	542.4	542.9	542.6	543.2	541.9	541.1	542.6	540.8
30°	538.5	539.2	539.5	539.3	540.1	540.0	540.3	539.2	538.1	539.0	537.8
30.5°	535.5	536.3	536.7	536.7	537.0	537.1	537.1	536.3	535.0	536.0	534.9
31°	532.7	533.0	533.2	533.9	533.8	534.1	533.7	533.2	531.9	533.0	532.1
31.5°	529.5	530.2	530.4	530.8	530.5	530.8	530.8	529.9	528.6	529.7	529.0
32°	526.1	527.2	527.3	527.4	527.2	527.8	527.7	526.7	525.5	526.5	525.9
32.5°	523.0	524.2	524.4	524.6	524.6	524.7	525.0	523.9	522.9	523.9	522.6
33°	519.3	520.8	520.8	521.3	521.5	521.3	521.6	520.6	519.7	520.7	519.7
33.5°	516.3	517.6	518.0	518.1	518.2	517.7	518.5	517.3	516.4	517.6	516.3
34°	513.1	514.6	514.5	514.9	514.9	514.6	515.4	513.7	512.9	513.8	513.0
34.5°	509.8	510.7	511.1	511.5	511.7	511.4	512.4	510.2	509.8	510.4	510.0
35°	506.1	506.6	507.5	508.0	508.1	508.2	509.2	507.4	506.5	506.9	506.4
35.5°	503.0	503.4	504.1	504.2	505.0	505.1	505.6	503.7	503.3	503.3	503.0
36°	499.5	500.0	500.3	500.9	501.4	501.1	502.2	500.1	499.6	499.9	499.5
36.5°	495.7	497.1	496.8	497.4	497.9	497.4	498.6	496.6	495.9	496.2	495.5
37°	491.8	493.1	493.5	493.9	494.3	494.2	495.1	492.6	492.0	492.8	492.3
37.5°	488.3	489.8	490.2	490.4	490.5	490.5	491.2	489.4	488.5	489.2	488.8
38°	484.7	486.4	486.4	486.5	487.0	486.6	487.2	485.9	485.3	485.8	485.3
38.5°	481.0	482.4	482.6	482.7	483.1	482.8	483.7	482.2	481.7	482.0	481.9
39°	477.3	478.9	478.7	479.0	479.5	479.1	480.0	478.4	478.1	478.2	477.8
39.5°	473.6	474.9	475.0	474.8	475.8	476.1	475.9	474.7	474.6	474.3	474.0
40°	469.7	470.7	471.1	471.1	471.8	472.5	472.2	471.4	470.6	470.7	470.4
40.5°	466.1	467.3	467.4	467.0	467.9	468.6	468.8	467.7	466.7	467.0	466.5
41°	462.1	463.4	463.6	463.3	464.4	464.8	464.7	463.7	462.6	463.1	462.7
41.5°	458.5	459.4	459.8	459.2	460.5	461.2	461.1	459.9	459.2	459.3	459.1
42°	454.4	455.3	455.8	455.3	456.2	457.1	456.9	456.1	455.6	455.1	455.1
42.5°	450.1	451.3	452.0	451.2	452.4	453.0	452.7	452.1	451.5	450.9	451.1
43°	446.1	447.2	448.1	447.2	448.6	448.9	448.7	447.9	447.3	446.8	447.2
43.5°	442.0	443.4	443.8	443.2	444.6	444.6	444.8	443.9	443.4	442.8	442.9
44°	437.8	439.2	439.7	439.3	440.4	440.6	440.7	439.9	439.1	438.7	438.9
44.5°	433.8	434.9	435.5	434.9	436.4	436.6	436.6	435.8	435.1	434.7	434.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	429.4	430.9	431.5	430.9	432.4	432.6	432.2	431.7	431.2	430.7	430.3
45.5°	424.9	426.6	427.5	426.7	428.4	428.5	427.9	427.7	426.9	426.5	425.9
46°	420.9	422.8	423.0	422.7	424.0	424.0	423.9	423.3	422.4	422.0	421.9
46.5°	417.1	418.4	418.6	418.5	419.6	419.7	419.9	418.9	418.2	418.2	417.5
47°	413.0	414.0	414.2	414.1	415.2	415.4	415.6	414.4	414.0	413.7	413.2
47.5°	408.9	410.0	409.7	409.6	410.9	411.3	411.0	410.1	409.7	409.3	408.6
48°	404.2	405.4	405.2	405.3	406.6	407.1	406.8	405.9	405.0	405.1	404.2
48.5°	399.7	400.9	400.9	400.7	402.4	402.4	402.4	401.6	400.5	400.6	400.1
49°	395.2	396.5	396.4	396.4	398.1	398.0	397.8	397.0	396.4	396.3	395.7
49.5°	390.8	392.1	392.0	391.8	393.6	393.2	393.4	392.9	391.8	392.1	391.1
50°	386.5	387.5	387.5	387.2	389.2	389.2	388.9	388.1	387.1	387.4	386.9
50.5°	381.5	383.0	382.9	382.7	384.5	384.4	384.4	383.7	382.6	382.8	382.4
51°	377.0	378.2	378.2	378.0	379.7	379.7	380.0	378.9	378.1	378.3	378.1
51.5°	372.3	373.7	373.8	373.5	375.2	375.0	375.3	374.2	373.4	373.7	373.0
52°	367.8	369.2	369.0	368.9	370.4	370.6	370.7	369.5	368.3	369.0	368.3
52.5°	363.0	364.2	364.2	364.2	365.9	366.1	365.9	364.9	363.9	364.6	363.7
53°	358.3	359.6	359.4	359.2	360.9	361.3	360.9	360.1	359.5	359.8	359.2
53.5°	353.4	354.7	354.6	354.3	356.1	356.2	356.0	355.7	354.7	355.4	354.3
54°	348.5	349.6	349.7	349.5	351.3	351.4	351.3	350.9	349.8	350.3	349.8
54.5°	343.4	344.6	345.0	344.8	346.6	346.6	346.4	345.8	344.9	345.4	345.1
55°	338.9	340.0	339.6	340.2	341.6	341.8	341.8	341.1	340.3	340.6	340.4
55.5°	334.3	335.1	335.0	335.1	336.7	337.1	336.5	335.9	335.4	336.1	335.5
56°	329.3	330.3	330.0	330.4	331.8	332.3	332.3	331.3	330.7	331.1	330.6
56.5°	324.4	325.3	325.2	325.4	326.9	327.4	327.3	326.2	325.6	326.1	325.5
57°	319.1	320.0	320.2	320.6	322.0	322.5	322.2	321.4	320.4	321.1	320.6
57.5°	313.9	314.9	315.1	315.4	317.0	317.2	317.3	316.3	315.6	316.1	315.8
58°	309.2	309.9	310.0	310.1	311.8	312.3	311.8	311.5	310.5	310.8	311.0
58.5°	304.0	305.0	305.1	305.1	306.8	307.4	306.3	306.3	305.5	305.8	305.9
59°	298.7	300.0	299.5	299.6	301.9	301.9	301.5	301.2	300.6	301.0	300.7
59.5°	293.6	294.5	294.3	294.5	296.9	296.7	296.4	296.0	295.2	295.9	295.6
60°	288.8	289.4	289.0	289.3	291.6	291.6	291.3	291.2	290.1	290.6	290.4
60.5°	283.9	284.1	284.0	283.8	286.4	286.4	285.7	285.7	284.6	285.3	285.2
61°	278.3	278.7	278.8	278.5	281.0	281.5	280.6	280.9	279.8	280.1	279.8
61.5°	273.1	273.6	273.8	273.2	275.7	276.2	275.4	275.5	274.7	275.1	274.6
62°	267.8	268.3	268.6	268.3	270.6	271.0	270.7	270.4	269.5	269.9	269.8
62.5°	262.6	262.7	263.3	262.7	265.0	265.5	265.1	265.1	264.1	264.5	264.3
63°	257.1	257.3	257.9	257.6	259.6	260.4	259.9	259.8	258.9	259.2	258.8
63.5°	251.8	252.3	252.5	252.3	254.4	255.1	254.6	254.6	253.8	253.8	253.7
64°	246.3	246.8	247.1	246.9	249.2	249.7	249.3	249.0	248.4	248.6	248.2
64.5°	241.2	241.7	241.9	241.4	243.8	243.9	243.7	243.4	243.0	243.0	242.8
65°	235.8	236.3	236.2	236.2	238.5	239.0	238.6	238.1	237.6	237.9	237.6
65.5°	230.3	230.6	230.7	230.3	233.4	233.1	232.9	232.5	232.1	232.5	232.4
66°	224.8	225.1	225.1	224.8	227.7	227.6	227.0	227.0	226.5	227.1	226.9
66.5°	219.1	219.6	219.3	219.3	222.1	222.0	221.8	221.5	221.2	221.7	221.1
67°	213.4	213.8	213.9	213.8	216.4	216.7	216.3	216.2	215.7	216.0	216.0

TEST NUMBER: P869687
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	208.0	208.5	208.4	208.3	210.8	211.2	210.7	210.5	210.3	210.6	210.3
68°	202.4	202.9	202.8	202.9	205.4	205.8	205.3	205.0	205.2	205.1	204.7
68.5°	196.9	197.3	197.3	197.2	200.0	200.3	199.8	199.5	199.8	199.7	199.1
69°	191.4	191.7	191.7	191.4	194.6	194.7	194.2	194.0	194.0	193.9	193.2
69.5°	185.5	185.9	186.1	185.9	188.8	189.1	188.6	188.2	188.3	188.3	187.9
70°	179.8	180.4	180.3	180.1	183.1	183.4	182.8	182.5	182.6	182.8	182.2
70.5°	174.2	174.8	174.3	174.6	177.6	177.9	177.3	177.1	177.3	177.1	176.7
71°	168.6	169.0	168.7	168.8	171.9	172.3	171.4	171.6	171.5	171.5	171.2
71.5°	163.2	163.5	163.1	163.0	166.2	166.4	166.0	165.8	166.1	165.7	165.4
72°	157.6	157.7	157.5	157.3	160.5	160.8	160.3	160.3	160.5	160.1	159.8
72.5°	151.7	152.3	152.1	151.5	155.0	155.1	154.9	154.6	154.8	154.5	154.2
73°	146.2	146.6	146.3	146.2	149.3	149.5	149.2	149.1	149.1	148.9	148.6
73.5°	140.6	141.0	140.6	140.6	143.8	144.1	144.0	143.7	143.6	143.4	143.3
74°	134.9	135.2	135.1	135.0	138.2	138.5	138.5	137.9	138.0	137.7	137.5
74.5°	129.3	129.8	129.4	129.4	132.5	132.9	132.4	132.3	132.3	132.3	132.0
75°	123.6	124.0	123.9	123.6	126.5	127.0	126.9	126.7	126.6	126.6	126.5
75.5°	118.1	118.2	118.1	118.0	120.9	121.4	121.1	121.1	121.0	121.0	120.9
76°	112.5	112.7	112.5	112.6	115.4	115.8	115.4	115.4	115.4	115.4	115.3
76.5°	106.9	107.1	107.2	106.9	109.9	110.1	109.9	110.0	109.9	109.9	109.9
77°	101.4	101.5	101.3	101.4	104.3	104.8	104.5	104.4	104.3	104.4	104.4
77.5°	95.9	96.3	96.0	96.0	98.7	99.1	98.9	98.9	98.9	99.0	99.0
78°	90.5	90.8	90.5	90.6	93.4	93.6	93.4	93.3	93.0	93.5	93.4
78.5°	85.2	85.3	85.1	85.3	88.2	88.2	88.2	87.9	87.6	88.0	88.1
79°	79.8	80.0	79.8	80.2	83.0	83.1	82.8	82.8	82.4	82.8	82.7
79.5°	74.6	74.8	74.7	74.8	77.7	77.6	77.4	77.4	77.2	77.6	77.6
80°	69.5	69.5	69.5	69.4	72.2	72.4	72.0	72.0	71.9	72.3	72.2
80.5°	64.3	64.4	64.3	64.1	67.0	67.3	67.0	67.0	66.8	67.1	67.2
81°	59.3	59.4	59.3	58.9	61.8	62.2	62.0	61.8	61.8	62.1	62.2
81.5°	54.4	54.5	54.3	54.1	56.8	57.1	56.8	56.7	56.7	57.1	57.1
82°	49.7	49.7	49.6	49.2	51.9	52.1	51.9	51.7	51.7	52.0	52.3
82.5°	45.0	45.0	44.8	44.6	47.3	47.5	47.3	47.2	47.1	47.4	47.7
83°	40.2	40.4	40.2	39.8	42.6	42.7	42.7	42.4	42.4	42.8	43.1
83.5°	35.8	35.9	35.7	35.5	37.8	38.1	37.9	37.9	37.9	38.1	38.4
84°	31.6	31.7	31.5	31.1	33.5	33.6	33.6	33.4	33.3	33.6	33.9
84.5°	27.7	27.7	27.6	27.3	29.3	29.6	29.3	29.2	29.2	29.4	29.7
85°	23.8	23.7	23.7	23.3	25.2	25.4	25.3	25.1	25.1	25.3	25.5
85.5°	20.3	20.3	20.3	20.0	21.4	21.5	21.4	21.4	21.3	21.5	21.8
86°	16.9	16.9	16.8	16.5	18.2	18.2	18.2	18.2	18.2	18.4	18.5
86.5°	13.7	13.8	13.7	13.4	15.2	15.2	15.2	15.0	15.1	15.3	15.4
87°	10.6	10.6	10.7	10.4	12.1	12.2	12.3	12.0	12.0	12.2	12.3
87.5°	7.8	7.7	7.7	7.5	9.3	9.3	9.3	9.2	9.1	9.4	9.5
88°	5.4	5.5	5.4	5.3	6.8	6.8	6.8	6.7	6.7	6.8	7.0
88.5°	3.6	3.7	3.6	3.5	4.6	4.8	4.6	4.5	4.4	4.6	4.7
89°	2.2	2.3	2.3	2.2	2.7	2.8	2.7	2.7	2.5	2.8	2.8
89.5°	1.3	1.3	1.3	1.2	1.3	1.4	1.3	1.2	1.1	1.3	1.3

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



TEST NUMBER: P869687
CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3000K

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: P869687
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	630.6	630.6	630.6	630.6	630.6	630.6
0.5°	630.0	631.4	630.9	630.6	630.4	630.3
1°	629.9	631.2	631.4	630.3	630.0	630.3
1.5°	630.1	631.4	631.0	630.7	629.6	629.9
2°	629.6	630.8	630.5	630.3	629.8	629.9
2.5°	629.8	630.5	630.1	629.7	630.1	629.6
3°	629.5	629.7	629.6	629.6	629.8	628.8
3.5°	628.8	629.2	629.6	628.9	629.6	628.5
4°	628.8	628.8	629.5	628.3	628.9	628.4
4.5°	628.2	628.3	628.6	628.1	628.6	628.0
5°	627.2	628.0	627.7	627.8	627.7	627.5
5.5°	626.6	627.4	627.4	627.9	627.3	627.2
6°	625.6	626.6	626.3	627.0	626.7	626.8
6.5°	625.3	625.8	625.7	626.6	625.7	626.3
7°	624.6	625.2	624.9	625.5	624.9	625.6
7.5°	624.5	624.7	624.4	624.5	624.7	624.9
8°	623.3	624.1	623.2	623.8	623.6	623.8
8.5°	622.3	623.3	622.8	623.1	622.4	623.2
9°	621.3	622.1	622.0	621.9	621.7	622.6
9.5°	620.0	621.5	620.8	621.0	620.8	621.7
10°	619.5	620.3	619.5	620.0	620.0	620.9
10.5°	618.2	619.1	618.7	618.9	619.4	620.1
11°	617.1	617.5	617.9	617.7	618.1	619.1
11.5°	616.0	616.2	617.1	616.0	617.1	618.0
12°	614.7	615.2	615.9	615.1	616.0	616.7
12.5°	613.6	613.9	614.5	614.5	615.5	615.4
13°	612.6	612.7	613.3	613.0	613.9	614.2
13.5°	611.2	611.1	611.6	611.9	612.4	612.8
14°	609.8	609.3	609.8	611.1	611.1	611.2
14.5°	608.0	607.7	607.9	609.4	609.3	609.3
15°	606.7	606.4	606.2	608.1	607.5	607.5
15.5°	605.0	604.8	604.8	606.8	605.9	605.6
16°	603.5	603.2	602.9	605.4	603.6	603.9
16.5°	601.7	601.5	601.5	603.7	602.1	602.0
17°	599.9	599.8	599.8	601.6	600.3	600.4
17.5°	598.1	598.2	597.7	599.7	598.2	598.4
18°	596.3	596.4	596.2	598.0	596.6	596.7
18.5°	594.6	594.7	594.3	595.7	594.3	594.7
19°	592.9	592.9	592.5	593.7	592.1	592.7
19.5°	590.6	590.8	591.0	591.6	590.3	590.7
20°	588.7	588.7	589.4	589.4	588.5	588.5
20.5°	586.4	586.6	587.4	587.4	586.7	586.7
21°	584.4	584.3	585.2	585.5	584.7	584.6
21.5°	582.2	582.1	583.4	583.2	583.0	582.3
22°	580.2	580.2	581.5	580.9	580.6	580.4

TEST NUMBER: P869687
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	577.5	577.7	579.0	578.5	578.3	578.2
23°	575.5	575.5	576.3	575.9	576.0	576.0
23.5°	573.4	573.0	574.5	573.7	573.8	574.0
24°	571.0	570.5	572.3	570.8	570.9	571.8
24.5°	568.5	568.1	569.0	568.8	568.5	569.1
25°	565.7	565.7	566.5	565.8	565.7	566.1
25.5°	563.1	563.1	563.9	563.4	563.1	563.7
26°	560.2	560.6	560.8	560.5	560.4	560.6
26.5°	557.6	557.6	558.2	557.6	557.6	558.4
27°	555.0	555.0	555.7	555.0	555.0	555.8
27.5°	552.7	552.2	553.1	552.2	552.2	553.1
28°	549.7	549.2	550.3	549.4	549.2	550.2
28.5°	547.0	546.2	547.6	547.0	546.8	547.3
29°	544.0	543.5	544.8	543.9	543.7	544.3
29.5°	540.9	540.3	542.2	541.1	540.8	541.5
30°	537.9	537.4	539.2	538.0	537.4	538.5
30.5°	534.8	534.9	536.0	534.5	534.4	535.5
31°	531.6	531.6	532.4	531.7	531.4	532.7
31.5°	528.6	528.5	529.0	528.7	528.3	529.5
32°	525.6	525.7	525.7	525.4	525.0	526.1
32.5°	522.7	522.2	522.8	522.8	522.0	523.0
33°	519.5	519.5	519.4	519.4	518.7	519.3
33.5°	516.2	516.1	516.5	516.0	515.7	516.3
34°	512.7	512.6	512.7	513.0	512.1	513.1
34.5°	509.6	509.0	509.5	509.8	508.8	509.8
35°	506.5	505.4	505.8	506.4	505.5	506.1
35.5°	503.0	501.8	502.3	503.0	502.2	503.0
36°	499.3	498.5	498.9	499.3	498.5	499.5
36.5°	495.9	495.0	495.2	495.6	495.3	495.7
37°	492.3	491.6	491.7	491.9	491.8	491.8
37.5°	488.8	487.6	488.0	488.6	488.3	488.3
38°	485.3	483.8	484.4	484.9	485.0	484.7
38.5°	481.9	480.0	481.0	480.8	481.0	481.0
39°	478.2	476.6	477.3	477.3	477.2	477.3
39.5°	474.4	472.9	473.7	473.5	473.5	473.6
40°	470.5	469.3	469.9	469.7	469.5	469.7
40.5°	466.4	465.7	465.9	465.8	465.9	466.1
41°	462.6	462.4	462.3	462.2	462.1	462.1
41.5°	458.6	458.2	458.5	458.5	458.8	458.5
42°	454.7	454.2	454.5	454.6	455.1	454.4
42.5°	450.8	450.0	450.7	450.5	450.4	450.1
43°	446.8	446.0	446.3	446.4	446.1	446.1
43.5°	443.1	441.8	442.7	442.2	442.1	442.0
44°	438.8	437.5	438.7	438.0	437.9	437.8
44.5°	434.9	433.7	434.3	433.9	434.4	433.8

TEST NUMBER: P869687
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	430.7	429.4	430.1	429.8	429.9	429.4
45.5°	426.6	425.2	425.9	425.5	425.2	424.9
46°	422.2	421.0	421.5	421.5	420.9	420.9
46.5°	417.8	416.5	417.6	417.1	416.6	417.1
47°	413.5	411.9	413.5	412.9	412.6	413.0
47.5°	409.1	407.5	409.1	408.4	408.6	408.9
48°	404.7	403.3	404.6	403.9	404.5	404.2
48.5°	400.6	399.1	400.1	399.5	400.0	399.7
49°	395.8	394.7	395.6	395.0	394.8	395.2
49.5°	391.4	390.3	391.2	390.5	390.3	390.8
50°	387.1	385.9	386.6	386.0	386.3	386.5
50.5°	382.6	381.3	381.9	381.5	381.5	381.5
51°	378.2	376.7	377.4	376.9	376.6	377.0
51.5°	373.4	371.8	372.5	372.3	371.7	372.3
52°	368.9	367.2	368.0	367.6	367.1	367.8
52.5°	363.9	362.3	363.3	363.2	362.5	363.0
53°	359.5	357.9	358.3	358.4	357.9	358.3
53.5°	354.8	353.2	353.7	353.6	353.1	353.4
54°	350.1	348.4	348.5	348.6	348.6	348.5
54.5°	345.2	343.6	344.0	343.3	343.3	343.4
55°	340.4	339.1	339.1	338.4	338.6	338.9
55.5°	335.6	334.2	334.4	333.5	333.8	334.3
56°	331.2	329.2	329.4	328.5	329.0	329.3
56.5°	326.0	324.2	324.4	323.9	324.2	324.4
57°	320.9	319.1	319.5	318.7	319.1	319.1
57.5°	315.9	314.2	314.5	313.9	313.9	313.9
58°	311.0	309.1	309.2	309.4	308.8	309.2
58.5°	305.9	304.0	304.0	304.3	304.1	304.0
59°	300.9	298.9	298.9	299.2	299.1	298.7
59.5°	295.5	293.8	293.6	293.8	294.0	293.6
60°	290.1	288.7	288.6	288.6	288.6	288.8
60.5°	285.3	283.5	283.4	283.2	283.1	283.9
61°	280.3	278.2	278.4	277.8	277.9	278.3
61.5°	275.1	272.9	273.4	272.5	272.9	273.1
62°	269.7	267.9	268.1	267.2	267.3	267.8
62.5°	264.4	262.5	262.7	262.1	261.9	262.6
63°	259.1	257.0	257.2	257.0	256.6	257.1
63.5°	253.6	251.6	252.0	251.3	251.2	251.8
64°	248.6	246.1	246.5	246.0	245.9	246.3
64.5°	242.8	240.9	241.3	240.8	240.6	241.2
65°	237.8	235.3	235.7	235.3	235.1	235.8
65.5°	232.2	229.9	230.1	229.7	229.9	230.3
66°	226.6	224.3	224.4	224.4	224.4	224.8
66.5°	221.1	218.8	218.9	218.9	219.3	219.1
67°	216.0	213.0	213.5	213.1	214.0	213.4

TEST NUMBER: P869687
 CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	210.2	207.6	208.4	207.8	208.4	208.0
68°	204.7	202.1	202.7	202.1	202.3	202.4
68.5°	199.1	197.0	197.1	196.7	196.8	196.9
69°	193.5	191.4	191.7	191.4	191.4	191.4
69.5°	187.9	185.7	186.1	185.7	185.8	185.5
70°	182.3	180.0	180.3	180.0	180.1	179.8
70.5°	177.1	174.5	174.7	174.6	174.7	174.2
71°	171.6	168.4	168.8	168.9	168.9	168.6
71.5°	165.8	163.1	163.4	163.1	163.1	163.2
72°	160.2	157.5	157.5	157.4	157.3	157.6
72.5°	154.6	151.9	152.0	151.9	151.4	151.7
73°	149.2	146.2	146.7	146.3	145.9	146.2
73.5°	143.7	140.6	141.1	140.7	140.5	140.6
74°	138.2	135.0	135.3	134.8	134.9	134.9
74.5°	132.5	129.4	129.7	129.3	129.0	129.3
75°	126.9	123.8	123.9	123.6	123.3	123.6
75.5°	121.2	118.3	118.4	117.9	117.7	118.1
76°	115.7	112.6	112.7	112.4	112.3	112.5
76.5°	110.3	106.9	107.1	107.0	106.8	106.9
77°	104.7	101.5	101.5	101.2	101.2	101.4
77.5°	99.1	96.3	96.0	96.0	96.0	95.9
78°	93.6	90.8	90.5	90.5	90.5	90.5
78.5°	88.2	85.6	85.2	85.2	85.3	85.2
79°	82.9	80.3	79.8	79.9	80.2	79.8
79.5°	77.6	74.8	74.8	74.7	75.0	74.6
80°	72.4	69.5	69.5	69.4	69.7	69.5
80.5°	67.3	64.5	64.5	64.5	64.4	64.3
81°	62.2	59.4	59.5	59.5	59.3	59.3
81.5°	57.1	54.5	54.7	54.8	54.4	54.4
82°	52.3	49.7	49.8	49.9	49.5	49.7
82.5°	47.7	45.0	45.3	45.0	44.8	45.0
83°	43.1	40.6	40.6	40.6	40.2	40.2
83.5°	38.4	36.1	36.1	36.1	35.7	35.8
84°	33.9	31.9	31.9	31.8	31.6	31.6
84.5°	29.7	27.7	27.8	27.7	27.7	27.7
85°	25.7	23.9	24.0	23.8	23.8	23.8
85.5°	21.8	20.4	20.5	20.4	20.4	20.3
86°	18.7	17.0	17.1	17.1	17.0	16.9
86.5°	15.5	13.8	14.0	13.8	13.8	13.7
87°	12.5	10.8	10.9	10.8	10.8	10.6
87.5°	9.7	7.8	7.9	7.9	7.9	7.8
88°	7.1	5.5	5.7	5.6	5.6	5.4
88.5°	4.8	3.6	3.8	3.8	3.8	3.6
89°	3.0	2.1	2.3	2.3	2.3	2.2
89.5°	1.5	1.2	1.3	1.3	1.3	1.3

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



TEST NUMBER: P869687
CATALOG NUMBER: SMX14SLSFSD2W-1600LM-3000K

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)