

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: P869660

Luminaire Tested: **SMX14RLSFSD2W-1600LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869660
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFSD2W-1600LM-5000K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

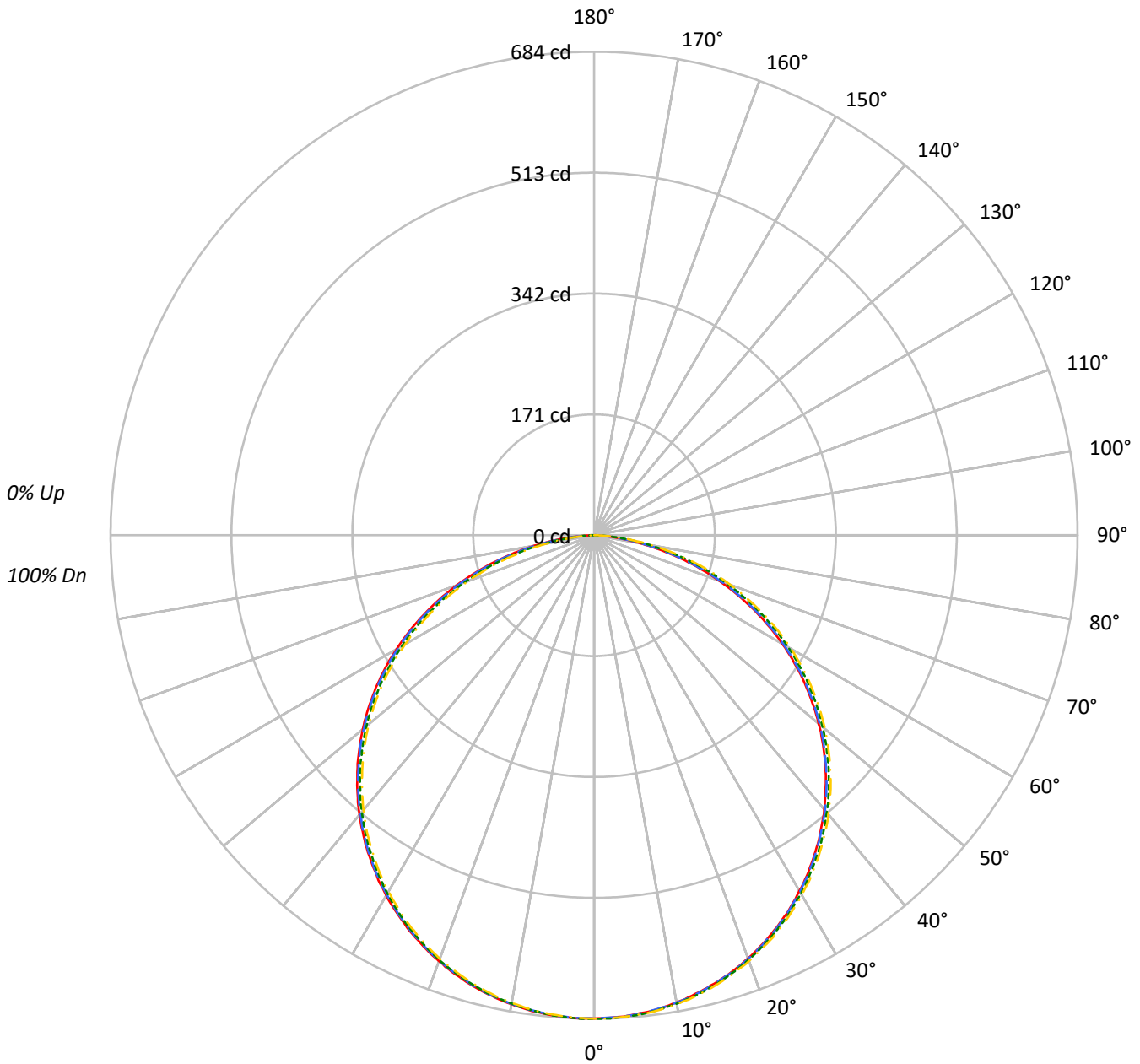
Lumens per Lamp: N/A
 Luminaire Lumens: 2002.1 lumens
 Efficiency: N/A
 Efficacy: 95.8 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 20.9
 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69	69	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49	49	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6881	6881	6881	6881
5°	6871	6888	6886	6886
10°	6860	6878	6883	6874
15°	6845	6865	6880	6866
20°	6822	6844	6870	6850
25°	6795	6826	6859	6828
30°	6750	6800	6836	6797
35°	6709	6769	6810	6759
40°	6655	6729	6781	6717
45°	6584	6679	6742	6655
50°	6492	6607	6693	6577
55°	6374	6520	6614	6478
60°	6193	6380	6499	6318
65°	5939	6186	6336	6091
70°	5546	5879	6076	5743
75°	4942	5405	5657	5195
80°	3970	4607	4978	4306
85°	2425	3291	3856	2875

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	3.2
10°-20°	185.9	9.3
20°-30°	283.3	14.1
30°-40°	344.4	17.2
40°-50°	361.1	18.0
50°-60°	330.5	16.5
60°-70°	254.6	12.7
70°-80°	144.0	7.2
80°-90°	33.6	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°	534.0	26.7
0°-40°	878.3	43.9
0°-60°	1569.9	78.4
0°-90°	2002.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	684	684	684	684	684	
5°	680	682	682	682	680	65
15°	657	659	660	659	657	185
25°	612	615	618	615	612	282
35°	546	551	554	550	546	342
45°	463	469	474	468	463	357
55°	363	372	377	369	363	324
65°	249	260	266	256	249	246
75°	127	139	146	134	127	134
85°	21	28	33	25	21	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8
0.5°	683.4	683.3	683.4	684.0	684.2	684.5	684.0	683.7	683.5	683.4	683.5
1°	683.5	682.9	683.2	684.1	684.2	684.2	684.0	683.5	683.9	683.4	683.2
1.5°	683.3	683.1	683.0	683.5	684.0	684.1	684.0	683.8	684.0	683.1	683.3
2°	683.1	682.5	682.8	683.1	684.1	684.0	683.6	683.7	683.9	682.9	683.3
2.5°	682.5	682.4	682.8	683.4	683.6	683.7	683.4	683.4	683.6	682.9	683.0
3°	682.2	682.1	682.4	682.8	683.3	683.4	683.0	683.1	683.3	682.9	682.8
3.5°	682.2	681.7	682.2	682.4	683.3	683.3	682.9	682.9	682.8	682.6	682.4
4°	681.7	681.2	681.7	682.1	682.8	682.8	682.5	682.4	682.2	682.3	682.5
4.5°	680.9	680.5	681.1	681.3	682.2	682.3	682.1	682.2	681.9	681.9	681.6
5°	680.2	679.7	680.5	681.2	681.9	681.6	681.6	681.7	681.7	681.3	681.3
5.5°	679.4	679.1	679.9	680.0	681.0	681.1	680.9	680.9	681.0	680.9	680.8
6°	678.9	678.4	679.2	679.2	680.5	680.3	680.4	680.4	680.5	680.3	680.0
6.5°	678.4	677.8	678.7	678.7	679.7	679.7	680.1	679.9	679.8	679.8	679.3
7°	677.6	677.1	677.3	677.9	678.9	678.6	679.3	679.1	679.4	679.1	678.5
7.5°	676.9	676.2	676.4	677.0	677.9	677.9	678.4	678.2	678.9	678.3	677.5
8°	675.9	675.4	675.4	676.2	677.0	676.9	677.6	677.6	677.9	677.6	677.2
8.5°	674.8	674.3	674.9	675.4	676.2	676.0	676.4	676.4	676.6	676.6	676.0
9°	673.6	673.5	673.8	674.2	675.0	675.5	676.0	675.5	675.6	675.3	675.4
9.5°	672.4	672.3	672.6	673.3	674.1	674.1	674.6	674.5	674.9	674.6	674.1
10°	671.3	671.2	671.2	672.4	673.1	673.1	673.6	673.6	673.6	673.8	673.3
10.5°	670.0	670.2	670.5	671.1	671.9	672.1	672.3	672.6	672.8	672.6	672.1
11°	669.3	668.7	669.3	670.0	670.6	670.8	671.1	671.3	671.7	671.2	671.0
11.5°	667.5	667.3	668.4	668.5	669.4	669.4	670.3	670.2	670.5	669.9	669.6
12°	666.2	666.1	666.8	667.2	668.4	668.2	669.0	668.9	669.3	668.7	668.4
12.5°	664.4	664.9	665.3	665.8	666.7	667.2	667.3	667.9	667.4	667.8	667.2
13°	663.4	663.4	663.8	663.9	665.2	665.9	666.2	666.4	666.6	666.2	666.0
13.5°	661.7	661.7	662.4	662.9	663.8	664.4	664.7	665.0	665.2	664.4	664.5
14°	660.3	660.1	660.7	661.3	662.3	662.7	663.2	663.2	663.7	663.1	662.7
14.5°	658.2	658.3	658.9	660.1	660.6	661.0	661.8	662.0	662.1	661.9	661.3
15°	657.0	656.5	657.6	657.6	658.9	659.4	659.9	660.7	660.4	660.1	660.0
15.5°	655.1	654.8	655.4	656.1	657.1	657.6	658.2	658.8	658.9	658.4	657.9
16°	653.2	653.3	653.5	654.6	655.4	655.8	656.5	656.5	657.2	656.5	655.8
16.5°	651.5	651.6	651.6	652.7	653.3	653.9	654.7	654.7	655.3	655.0	654.2
17°	649.7	649.8	650.3	650.9	651.6	651.9	653.0	653.1	653.2	653.4	652.5
17.5°	647.7	647.8	648.4	649.3	649.6	650.4	651.3	651.3	651.6	651.1	650.9
18°	645.7	645.6	646.2	647.1	648.0	648.5	649.3	649.6	649.7	649.5	648.7
18.5°	643.5	643.3	644.2	644.7	645.7	646.5	647.0	647.4	647.5	647.6	646.9
19°	641.4	641.2	642.3	642.5	643.4	644.4	645.0	645.3	645.9	645.3	644.6
19.5°	639.1	639.2	639.9	640.8	641.5	642.0	643.3	643.3	643.2	643.5	642.5
20°	637.0	636.8	637.7	638.4	639.1	640.3	641.1	641.5	641.5	641.3	640.5
20.5°	634.8	634.4	635.3	636.4	636.9	638.0	638.8	639.3	639.1	639.2	638.5
21°	632.6	632.4	632.9	633.7	634.7	635.4	636.6	637.1	637.1	636.8	635.9
21.5°	630.1	629.8	630.7	631.6	632.5	633.4	634.3	634.9	635.0	634.4	633.7
22°	627.4	627.7	628.5	628.9	629.8	631.0	632.2	632.5	632.5	631.9	631.2

TEST NUMBER: P869660
 CATALOG NUMBER: SMX14RLSFS2W-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	625.1	624.9	625.8	626.4	627.6	628.5	629.4	630.0	630.2	629.7	629.1
23°	622.6	622.4	622.9	624.3	625.1	625.9	627.2	627.9	627.4	627.4	626.4
23.5°	619.8	619.8	620.2	621.4	622.5	623.3	624.8	625.0	624.9	625.1	623.8
24°	617.2	617.2	618.0	618.8	620.1	621.1	622.4	622.6	622.5	622.6	621.4
24.5°	614.3	614.7	615.2	616.2	617.6	618.2	619.6	620.1	620.1	619.6	618.9
25°	612.0	611.6	612.7	613.4	614.8	615.6	617.0	617.4	617.7	617.4	616.0
25.5°	608.9	609.2	609.7	610.6	611.7	613.0	614.2	614.9	614.7	614.6	613.4
26°	606.1	606.5	606.7	607.9	609.2	610.5	611.3	612.0	611.6	612.0	610.8
26.5°	603.1	603.1	603.6	605.0	606.3	607.3	608.8	609.1	608.9	608.9	607.8
27°	600.5	600.4	601.1	601.8	603.9	604.3	605.9	606.6	606.1	606.2	604.7
27.5°	597.1	597.2	598.1	598.7	600.7	601.5	602.7	603.4	603.3	603.3	602.0
28°	593.9	594.2	595.0	595.9	597.4	598.8	600.0	600.5	600.4	600.3	599.0
28.5°	590.7	591.0	591.7	592.5	594.5	595.6	596.9	597.4	597.4	597.0	596.0
29°	587.7	588.2	588.6	589.6	591.3	592.5	594.1	594.5	594.5	594.0	593.1
29.5°	584.0	584.5	585.4	586.5	588.5	589.3	591.0	591.4	591.6	591.3	590.0
30°	580.9	581.3	582.1	583.4	585.2	586.3	587.9	588.3	588.3	588.2	586.6
30.5°	578.2	578.2	579.2	580.3	582.1	583.0	584.5	585.2	585.0	585.1	583.6
31°	574.8	575.4	575.4	576.7	579.2	579.7	581.2	582.4	581.7	581.9	580.5
31.5°	571.3	571.5	572.3	573.6	575.5	576.7	578.2	578.7	578.7	578.9	577.3
32°	568.1	568.3	569.1	570.3	572.2	573.4	575.3	575.6	575.7	575.7	573.9
32.5°	564.6	565.0	565.1	566.4	568.5	569.9	571.7	572.6	571.9	571.9	570.7
33°	560.8	561.6	561.7	563.1	565.3	566.2	568.1	568.9	568.1	568.6	567.3
33.5°	557.0	557.7	558.3	559.7	561.6	562.7	564.4	565.6	565.0	565.0	563.7
34°	553.6	554.2	554.5	556.2	558.4	559.4	561.0	562.1	561.4	561.5	560.1
34.5°	549.6	550.3	551.2	552.5	554.7	555.9	557.6	558.6	557.8	557.9	556.6
35°	546.1	546.7	547.5	548.6	551.0	552.1	554.0	554.6	554.3	554.3	553.2
35.5°	542.3	542.7	543.7	544.8	547.3	548.6	550.1	550.9	550.9	550.8	549.6
36°	538.6	538.9	539.6	541.0	543.6	545.0	546.8	547.4	547.4	547.0	545.8
36.5°	534.9	535.0	536.1	537.3	540.2	541.0	543.0	543.7	543.7	543.8	541.9
37°	531.0	531.2	532.0	533.5	536.1	537.4	539.2	540.2	539.8	539.8	538.5
37.5°	526.7	527.3	528.1	529.6	532.0	533.5	535.3	536.1	535.9	535.8	534.6
38°	522.6	523.4	524.3	525.6	528.2	530.0	531.8	532.3	531.8	531.7	530.8
38.5°	518.9	519.4	520.1	521.4	524.3	525.7	527.7	528.3	528.3	527.9	526.9
39°	514.8	515.0	516.1	517.5	520.1	521.6	523.8	524.6	524.4	524.0	522.6
39.5°	510.9	510.9	512.1	513.5	515.9	517.8	520.0	520.6	520.3	520.1	518.3
40°	506.6	507.3	508.0	509.6	512.2	514.0	515.5	516.6	516.2	516.1	514.3
40.5°	502.2	502.8	504.0	505.4	508.1	509.8	511.6	512.5	512.2	512.0	510.3
41°	498.1	498.9	499.7	501.4	504.1	505.9	507.4	508.5	508.4	507.9	506.4
41.5°	493.8	494.4	495.4	497.3	499.9	501.7	503.4	504.1	504.2	503.6	502.0
42°	489.5	490.1	490.8	492.9	495.6	497.4	499.0	499.9	499.7	499.3	498.0
42.5°	484.9	485.8	486.4	488.5	491.3	492.9	494.8	495.7	495.5	495.4	493.7
43°	480.4	481.3	482.1	484.0	487.0	488.8	490.7	491.7	491.2	490.8	489.5
43.5°	476.2	476.9	477.8	479.7	482.3	484.3	486.0	487.4	487.0	486.4	485.1
44°	472.0	472.3	473.2	475.1	478.0	480.0	481.9	482.7	482.5	482.1	480.8
44.5°	467.0	467.6	468.9	470.7	473.7	475.6	477.2	478.1	478.0	477.6	476.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	462.6	463.1	464.3	466.3	469.3	471.0	472.9	473.8	473.7	473.4	471.7
45.5°	458.2	458.3	459.7	461.7	464.7	466.4	468.4	469.0	469.3	468.7	467.1
46°	453.4	453.9	454.9	457.1	459.9	461.8	463.9	464.7	464.9	464.4	462.8
46.5°	448.9	449.1	450.2	452.1	455.2	457.3	459.4	460.0	460.0	459.7	458.1
47°	444.0	444.5	445.7	447.7	450.5	452.6	454.7	455.4	455.5	454.9	453.3
47.5°	439.4	439.6	441.1	443.0	446.0	448.0	450.0	450.8	450.8	450.4	448.9
48°	434.5	434.8	436.5	438.2	441.4	443.3	445.4	446.3	446.2	445.6	444.4
48.5°	429.7	430.0	431.5	433.4	436.7	438.5	440.6	441.6	441.6	441.0	439.6
49°	425.0	425.1	426.7	428.6	431.8	433.6	436.1	436.9	436.8	436.2	434.8
49.5°	420.0	420.3	421.7	423.8	426.9	428.9	431.1	431.8	432.2	431.6	430.0
50°	414.7	415.2	416.7	418.8	422.0	424.3	426.5	427.3	427.5	426.9	424.9
50.5°	409.8	410.2	411.8	414.0	417.0	419.4	421.5	422.3	422.3	421.8	420.1
51°	404.8	405.2	406.6	408.9	412.3	414.4	416.4	417.5	417.6	416.6	415.3
51.5°	399.7	400.2	401.7	403.9	407.2	409.5	411.5	412.5	412.6	411.8	410.2
52°	394.5	395.0	396.4	398.8	402.4	404.5	406.8	407.8	407.5	406.7	405.4
52.5°	389.3	390.0	391.5	393.7	397.3	399.3	401.7	402.7	402.3	401.7	400.1
53°	384.3	384.9	386.5	388.6	392.1	394.3	396.6	397.7	397.4	396.8	395.1
53.5°	379.0	379.3	381.2	383.3	387.1	389.4	391.2	392.5	392.2	391.7	390.1
54°	373.8	373.9	375.7	377.9	382.0	383.9	386.3	387.5	387.0	386.8	384.8
54.5°	368.6	369.2	370.6	372.7	376.5	379.0	381.2	382.1	382.0	381.4	379.5
55°	363.3	363.8	365.4	367.8	371.6	373.9	376.1	377.3	377.0	376.3	374.4
55.5°	358.0	358.2	360.1	362.2	366.3	368.7	370.8	372.1	371.8	371.0	369.4
56°	352.6	352.9	354.6	356.9	361.2	363.2	365.8	366.9	366.5	365.7	364.0
56.5°	346.9	347.5	349.4	351.4	355.7	357.9	360.2	361.2	361.3	360.1	358.8
57°	341.4	342.1	343.7	345.8	350.1	352.7	355.1	356.3	355.8	355.0	353.4
57.5°	335.9	336.4	338.1	340.3	344.7	347.1	349.5	350.5	350.5	349.6	347.9
58°	330.6	331.0	332.5	335.0	339.3	341.8	344.2	345.2	344.9	344.0	342.5
58.5°	324.9	325.1	327.1	329.4	333.8	336.3	338.5	339.7	339.8	338.5	337.1
59°	319.2	319.9	321.4	323.9	328.4	330.8	333.1	334.2	334.3	332.9	331.4
59.5°	313.3	314.1	315.8	318.2	322.7	325.3	327.5	328.7	328.5	327.6	325.9
60°	307.7	308.4	310.3	312.7	317.0	319.7	322.0	323.1	322.9	321.9	320.2
60.5°	302.3	302.7	304.2	306.9	311.2	314.2	316.4	317.6	317.4	316.4	314.6
61°	296.7	297.2	298.8	301.6	305.6	308.5	310.9	312.0	311.7	310.6	309.3
61.5°	290.6	291.2	293.1	295.7	299.9	302.9	305.0	306.2	306.3	305.1	303.5
62°	284.7	285.6	287.4	289.8	294.7	297.4	299.6	300.7	300.6	299.6	298.0
62.5°	278.7	279.6	281.2	283.9	288.8	291.7	294.1	295.0	294.9	293.8	292.1
63°	272.9	273.9	275.5	278.2	283.0	285.9	288.2	289.4	289.2	288.2	286.4
63.5°	267.1	268.0	269.7	272.2	277.1	280.1	282.6	283.5	283.5	282.4	280.6
64°	261.0	262.0	263.9	266.5	271.2	274.4	276.5	277.5	277.6	276.5	274.9
64.5°	255.4	256.2	258.0	260.6	265.5	268.3	270.8	271.7	271.7	270.7	268.7
65°	249.4	250.2	252.2	254.9	259.8	262.7	265.2	266.1	266.1	265.0	263.3
65.5°	243.3	244.4	246.1	249.0	254.0	256.8	259.2	260.2	260.3	259.3	257.1
66°	237.2	238.2	240.0	242.7	247.8	250.8	253.2	254.3	254.1	253.2	251.3
66.5°	231.3	232.3	233.9	236.6	241.9	244.7	247.0	248.3	248.1	247.0	245.2
67°	225.6	226.2	228.0	230.8	235.9	238.8	241.1	242.3	242.2	241.3	239.1

TEST NUMBER: P869660
 CATALOG NUMBER: SMX14RLSFS2W-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	219.2	220.2	222.1	224.8	229.9	232.7	235.1	236.4	236.5	235.3	233.2
68°	213.2	213.9	216.0	218.8	223.9	226.9	229.5	230.4	230.5	229.2	227.4
68.5°	207.0	207.9	209.8	212.7	218.1	221.0	223.2	224.4	224.4	223.2	221.6
69°	200.8	201.6	203.7	206.5	212.0	214.9	217.4	218.4	218.4	217.2	215.7
69.5°	194.7	195.5	197.7	200.2	205.9	209.0	211.4	212.4	212.5	211.2	209.2
70°	188.5	189.4	191.5	194.2	199.8	202.8	205.3	206.3	206.5	205.2	203.1
70.5°	182.5	183.3	185.4	188.3	194.0	196.7	199.2	200.4	200.4	199.2	197.1
71°	176.3	177.0	179.2	181.9	187.8	190.9	193.4	194.4	194.4	193.1	191.2
71.5°	169.9	170.9	172.9	175.7	181.6	184.8	187.1	188.2	188.3	187.0	184.9
72°	164.0	164.8	166.8	169.6	175.3	178.6	181.2	182.0	182.2	180.9	178.8
72.5°	158.0	158.8	160.9	163.6	169.3	172.5	174.9	176.1	176.2	174.8	172.8
73°	151.7	152.6	154.8	157.3	163.1	166.3	168.8	169.7	169.9	168.6	166.4
73.5°	145.5	146.4	148.5	151.2	157.3	160.4	162.8	163.8	163.9	162.6	160.5
74°	139.3	140.3	142.4	145.1	151.2	154.3	156.8	157.7	157.9	156.5	154.5
74.5°	133.1	134.1	136.3	138.9	145.0	148.2	150.7	151.7	151.8	150.6	148.2
75°	127.1	128.0	130.2	132.9	139.0	142.0	144.4	145.5	145.5	144.3	142.2
75.5°	121.1	122.0	124.2	126.9	132.8	135.9	138.3	139.5	139.4	138.2	136.0
76°	115.0	115.9	118.1	120.7	126.7	129.8	132.1	133.3	133.5	132.1	129.9
76.5°	108.9	110.0	112.0	114.6	120.7	123.9	126.1	127.2	127.3	126.1	123.7
77°	102.8	103.9	106.1	108.8	114.6	117.7	120.1	121.2	121.1	120.0	118.0
77.5°	97.2	98.2	100.3	102.9	108.7	111.8	114.2	115.1	115.2	114.0	111.9
78°	91.2	92.3	94.3	96.8	102.8	105.9	108.3	109.1	109.2	107.9	105.9
78.5°	85.4	86.4	88.6	91.3	96.7	99.7	102.2	103.2	103.3	102.1	99.9
79°	79.7	80.7	82.9	85.5	91.1	93.9	96.2	97.3	97.3	96.1	94.2
79.5°	74.0	75.0	77.1	79.7	85.3	88.3	90.6	91.6	91.6	90.5	88.2
80°	68.5	69.3	71.5	74.0	79.5	82.5	84.8	85.8	85.9	84.7	82.7
80.5°	62.9	64.0	66.0	68.4	74.0	77.0	79.2	80.1	80.1	78.9	76.8
81°	57.7	58.6	60.5	63.0	68.4	71.2	73.4	74.6	74.6	73.4	71.4
81.5°	52.5	53.6	55.3	57.8	63.0	65.7	67.8	68.9	68.8	67.6	65.7
82°	47.3	48.2	50.1	52.4	57.5	60.4	62.3	63.4	63.5	62.3	60.3
82.5°	42.5	43.4	45.2	47.5	52.5	55.1	57.1	58.0	58.0	56.9	55.0
83°	37.7	38.6	40.3	42.4	47.4	50.0	52.0	53.1	53.0	51.9	50.0
83.5°	33.2	34.0	35.7	37.7	42.4	44.8	46.9	47.9	47.8	46.6	44.9
84°	28.7	29.7	31.3	33.2	37.4	40.1	41.9	42.8	42.8	41.6	39.9
84.5°	24.7	25.5	27.0	29.0	32.9	35.2	37.1	38.0	37.9	36.9	35.3
85°	21.0	21.8	23.2	24.8	28.5	30.8	32.6	33.4	33.4	32.3	30.9
85.5°	17.3	17.9	19.3	21.1	24.4	26.5	28.1	28.9	28.9	27.9	26.4
86°	14.0	14.4	15.8	17.4	20.9	22.5	24.0	24.8	24.7	23.7	22.4
86.5°	10.6	11.2	12.5	14.0	17.5	19.1	20.5	21.2	21.2	20.3	18.8
87°	7.7	8.1	9.1	10.7	14.1	15.7	17.1	17.8	17.7	16.9	15.6
87.5°	5.6	5.8	6.6	7.7	11.0	12.6	13.8	14.4	14.3	13.6	12.4
88°	3.4	3.9	4.5	5.6	8.2	9.5	10.7	11.3	11.2	10.5	9.5
88.5°	2.1	2.3	2.8	3.6	5.7	6.9	7.8	8.3	8.3	7.7	6.7
89°	1.3	1.4	1.7	2.1	3.5	4.6	5.4	5.8	5.8	5.2	4.6
89.5°	0.9	0.8	0.9	1.2	2.0	2.8	3.4	3.7	3.7	3.3	2.6

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



TEST NUMBER: P869660
CATALOG NUMBER: SMX14RLSFSD2W-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: P869660
 CATALOG NUMBER: SMX14RLSFS2W-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	683.8	683.8	683.8	683.8	683.8	683.8
0.5°	683.8	684.4	684.1	683.8	684.0	683.4
1°	683.8	684.4	684.0	683.6	683.8	683.5
1.5°	683.9	684.3	683.9	683.2	683.1	683.3
2°	683.5	684.0	683.5	683.3	683.1	683.1
2.5°	683.2	683.6	683.4	682.9	682.7	682.5
3°	682.9	683.0	683.2	682.7	682.8	682.2
3.5°	682.8	682.8	682.7	682.3	682.5	682.2
4°	682.5	682.4	682.1	681.4	681.2	681.7
4.5°	681.8	682.0	681.9	680.9	681.1	680.9
5°	681.2	681.7	681.1	680.4	680.1	680.2
5.5°	681.0	680.7	680.9	680.0	680.0	679.4
6°	680.3	680.1	679.9	679.2	679.4	678.9
6.5°	679.3	679.1	679.1	678.4	678.5	678.4
7°	678.5	678.5	678.4	677.8	677.9	677.6
7.5°	677.8	677.8	677.6	676.9	677.3	676.9
8°	676.8	676.7	676.7	676.0	676.6	675.9
8.5°	676.2	675.8	675.4	675.1	675.3	674.8
9°	675.4	675.1	674.8	673.8	674.1	673.6
9.5°	674.3	674.1	673.7	672.6	673.0	672.4
10°	673.0	672.7	672.4	671.9	671.8	671.3
10.5°	672.0	671.7	671.3	670.5	670.1	670.0
11°	670.9	670.5	670.1	669.4	668.8	669.3
11.5°	669.5	669.2	668.8	668.0	667.8	667.5
12°	668.2	667.9	667.4	666.8	666.7	666.2
12.5°	666.9	666.7	666.2	665.0	665.0	664.4
13°	665.3	665.5	664.7	663.8	663.7	663.4
13.5°	663.8	663.8	663.2	662.2	662.2	661.7
14°	662.5	662.1	661.9	660.6	660.2	660.3
14.5°	660.7	660.6	660.1	659.0	658.9	658.2
15°	659.2	659.0	658.4	657.3	657.0	657.0
15.5°	657.8	657.3	656.6	655.5	655.3	655.1
16°	655.8	655.6	654.7	653.6	653.5	653.2
16.5°	654.1	653.8	652.8	651.6	651.5	651.5
17°	652.4	651.8	650.9	650.0	649.7	649.7
17.5°	650.8	649.7	649.2	648.0	648.0	647.7
18°	648.5	647.9	646.6	646.0	645.6	645.7
18.5°	646.7	646.1	645.2	643.9	643.9	643.5
19°	644.6	643.9	643.0	642.0	641.5	641.4
19.5°	642.3	641.7	641.1	640.0	639.4	639.1
20°	640.4	639.6	638.6	637.6	637.4	637.0
20.5°	638.2	637.1	636.3	635.2	635.1	634.8
21°	635.7	634.9	634.0	633.0	632.3	632.6
21.5°	633.2	632.6	631.6	630.6	630.0	630.1
22°	630.9	630.2	629.1	628.0	627.1	627.4

TEST NUMBER: P869660
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	628.3	627.6	626.7	625.3	625.0	625.1
23°	626.0	625.4	624.3	622.7	622.3	622.6
23.5°	623.4	622.8	622.0	620.2	619.9	619.8
24°	620.8	620.2	619.0	617.5	617.1	617.2
24.5°	618.5	617.4	616.5	614.7	614.3	614.3
25°	616.0	614.9	613.8	612.5	611.9	612.0
25.5°	613.2	612.3	610.8	609.5	609.1	608.9
26°	610.2	609.6	608.0	607.0	606.1	606.1
26.5°	607.1	606.3	605.1	603.7	603.3	603.1
27°	604.4	603.5	602.4	600.6	600.2	600.5
27.5°	601.9	600.3	599.2	597.8	597.2	597.1
28°	598.3	597.4	596.3	594.3	593.7	593.9
28.5°	595.5	594.4	593.2	591.3	590.4	590.7
29°	592.6	591.3	589.8	588.3	587.5	587.7
29.5°	589.5	588.1	586.7	584.9	584.3	584.0
30°	586.4	584.9	583.8	581.7	581.3	580.9
30.5°	583.0	581.8	580.5	578.7	577.9	578.2
31°	580.0	578.4	576.6	575.4	574.7	574.8
31.5°	576.8	574.6	573.5	572.2	571.3	571.3
32°	573.3	571.7	570.1	568.6	567.6	568.1
32.5°	570.0	568.1	566.9	565.0	564.3	564.6
33°	566.4	564.6	563.3	561.6	560.8	560.8
33.5°	562.9	560.9	559.5	558.0	557.1	557.0
34°	559.3	557.7	555.7	554.1	553.5	553.6
34.5°	556.0	553.8	552.2	550.5	549.5	549.6
35°	552.1	550.2	548.3	546.9	546.0	546.1
35.5°	548.6	546.6	545.2	543.3	542.2	542.3
36°	544.7	542.9	541.2	539.2	538.6	538.6
36.5°	541.2	538.8	537.1	535.3	534.5	534.9
37°	537.1	535.1	533.0	531.8	530.9	531.0
37.5°	533.8	531.5	529.7	528.1	526.9	526.7
38°	529.4	527.3	525.4	523.7	522.6	522.6
38.5°	525.6	523.2	521.3	519.5	518.9	518.9
39°	521.4	519.2	517.1	515.9	515.0	514.8
39.5°	517.7	515.0	513.4	511.6	510.8	510.9
40°	513.3	511.3	509.4	507.5	506.7	506.6
40.5°	509.6	507.2	505.0	503.4	502.7	502.2
41°	505.1	503.0	500.6	499.1	498.2	498.1
41.5°	501.3	498.6	496.4	494.7	493.7	493.8
42°	496.8	494.2	492.2	490.1	489.5	489.5
42.5°	492.5	489.9	487.9	485.9	485.1	484.9
43°	488.2	485.3	483.5	481.5	480.7	480.4
43.5°	483.9	481.0	479.4	477.1	476.4	476.2
44°	479.3	476.7	474.7	472.5	471.7	472.0
44.5°	475.1	472.2	470.2	468.1	467.1	467.0

TEST NUMBER: P869660
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	470.5	467.6	465.5	463.7	462.7	462.6
45.5°	466.0	463.0	461.0	458.8	458.3	458.2
46°	461.3	458.7	456.3	454.5	453.4	453.4
46.5°	456.8	453.6	451.6	449.7	448.4	448.9
47°	452.2	449.2	446.8	445.1	443.7	444.0
47.5°	447.4	444.4	442.1	440.4	439.1	439.4
48°	442.7	439.6	437.4	435.6	434.4	434.5
48.5°	438.2	434.8	432.6	430.7	429.9	429.7
49°	433.4	430.2	427.8	425.7	425.0	425.0
49.5°	428.3	425.2	423.0	420.8	419.7	420.0
50°	423.5	420.1	417.8	416.0	414.9	414.7
50.5°	418.4	415.2	413.0	411.0	410.0	409.8
51°	413.5	410.3	407.9	405.9	405.1	404.8
51.5°	409.0	405.4	403.0	400.9	399.8	399.7
52°	403.7	400.3	398.0	396.0	394.6	394.5
52.5°	398.6	394.9	392.8	390.7	389.6	389.3
53°	393.4	389.9	387.7	385.5	384.2	384.3
53.5°	388.3	384.7	382.2	380.1	379.0	379.0
54°	383.0	379.3	377.1	375.0	373.7	373.8
54.5°	378.0	374.2	372.0	369.8	368.8	368.6
55°	372.8	369.2	366.6	364.5	363.5	363.3
55.5°	367.6	363.6	361.2	359.3	358.1	358.0
56°	362.3	358.1	356.0	353.8	352.5	352.6
56.5°	356.9	352.9	350.3	348.2	347.3	346.9
57°	351.4	347.5	345.0	342.7	341.5	341.4
57.5°	346.0	341.9	339.3	337.1	335.9	335.9
58°	340.5	336.4	333.8	331.6	330.5	330.6
58.5°	335.2	330.9	328.2	325.9	324.8	324.9
59°	329.7	325.2	322.5	320.2	319.2	319.2
59.5°	323.8	319.8	317.1	314.4	313.3	313.3
60°	318.2	313.9	311.2	308.8	307.8	307.7
60.5°	312.7	308.2	305.5	302.9	302.1	302.3
61°	306.9	302.5	299.8	297.7	296.4	296.7
61.5°	301.4	296.7	294.2	291.8	290.6	290.6
62°	295.8	291.0	288.4	285.9	284.8	284.7
62.5°	290.0	285.1	282.5	279.8	278.7	278.7
63°	284.2	279.3	276.5	274.1	273.1	272.9
63.5°	278.3	273.2	270.7	268.4	267.2	267.1
64°	272.5	267.5	264.8	262.6	261.4	261.0
64.5°	266.6	261.8	258.9	256.7	255.4	255.4
65°	260.9	255.8	252.9	250.7	249.4	249.4
65.5°	255.0	249.7	247.0	244.6	243.5	243.3
66°	248.9	243.9	240.9	238.3	237.2	237.2
66.5°	242.7	237.7	234.8	232.4	231.3	231.3
67°	236.9	231.9	228.9	226.6	225.2	225.6

TEST NUMBER: P869660
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	231.3	225.7	222.7	220.6	219.0	219.2
68°	225.1	219.7	216.5	214.3	213.2	213.2
68.5°	219.0	213.6	210.5	208.0	206.9	207.0
69°	212.8	207.4	204.3	202.2	200.6	200.8
69.5°	206.9	201.3	198.3	195.8	194.5	194.7
70°	200.9	195.2	192.3	189.6	188.7	188.5
70.5°	194.7	189.0	186.1	183.8	182.6	182.5
71°	188.6	182.6	179.9	177.4	176.1	176.3
71.5°	182.6	176.5	173.7	171.3	169.7	169.9
72°	176.4	170.5	167.6	165.1	164.0	164.0
72.5°	170.3	164.4	161.6	159.1	157.9	158.0
73°	163.9	158.2	155.2	152.7	151.8	151.7
73.5°	158.0	152.0	149.2	146.7	145.3	145.5
74°	151.9	146.0	142.8	140.5	139.2	139.3
74.5°	145.8	139.8	136.9	134.3	133.0	133.1
75°	139.5	133.6	130.7	128.3	127.3	127.1
75.5°	133.5	127.5	124.7	122.1	120.7	121.1
76°	127.3	121.3	118.5	116.1	115.0	115.0
76.5°	121.3	115.3	112.3	110.1	108.9	108.9
77°	115.2	109.5	106.5	104.1	102.8	102.8
77.5°	109.2	103.5	100.6	98.4	97.2	97.2
78°	103.3	97.4	94.6	92.4	91.2	91.2
78.5°	97.3	91.7	89.0	86.6	85.6	85.4
79°	91.5	85.9	83.2	80.9	79.8	79.7
79.5°	85.6	80.1	77.4	75.1	74.0	74.0
80°	80.1	74.3	71.5	69.4	68.4	68.5
80.5°	74.4	68.9	66.2	63.9	62.9	62.9
81°	68.8	63.3	60.6	58.6	57.7	57.7
81.5°	63.2	58.1	55.5	53.4	52.4	52.5
82°	57.9	52.9	50.3	48.2	47.3	47.3
82.5°	52.8	47.9	45.4	43.5	42.5	42.5
83°	47.6	42.7	40.5	38.6	37.7	37.7
83.5°	42.6	38.0	35.8	34.0	33.1	33.2
84°	37.7	33.5	31.3	29.6	28.7	28.7
84.5°	33.2	29.2	27.2	25.5	24.7	24.7
85°	28.7	24.9	23.2	21.8	21.1	21.0
85.5°	24.5	21.3	19.4	18.1	17.4	17.3
86°	20.8	17.6	15.9	14.5	13.9	14.0
86.5°	17.5	14.2	12.5	11.1	10.6	10.6
87°	14.1	10.8	9.2	8.2	7.6	7.7
87.5°	10.9	7.8	6.7	5.8	5.5	5.6
88°	8.2	5.6	4.6	3.9	3.5	3.4
88.5°	5.6	3.6	2.9	2.5	2.1	2.1
89°	3.6	2.3	1.8	1.4	1.2	1.3
89.5°	1.9	1.4	1.0	0.9	1.1	0.9

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869660
CATALOG NUMBER: SMX14RLSFSD2W-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)