

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: P869658

Luminaire Tested: **SMX14RLSFSD2W-1600LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869658
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFSD2W-1600LM-3500K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

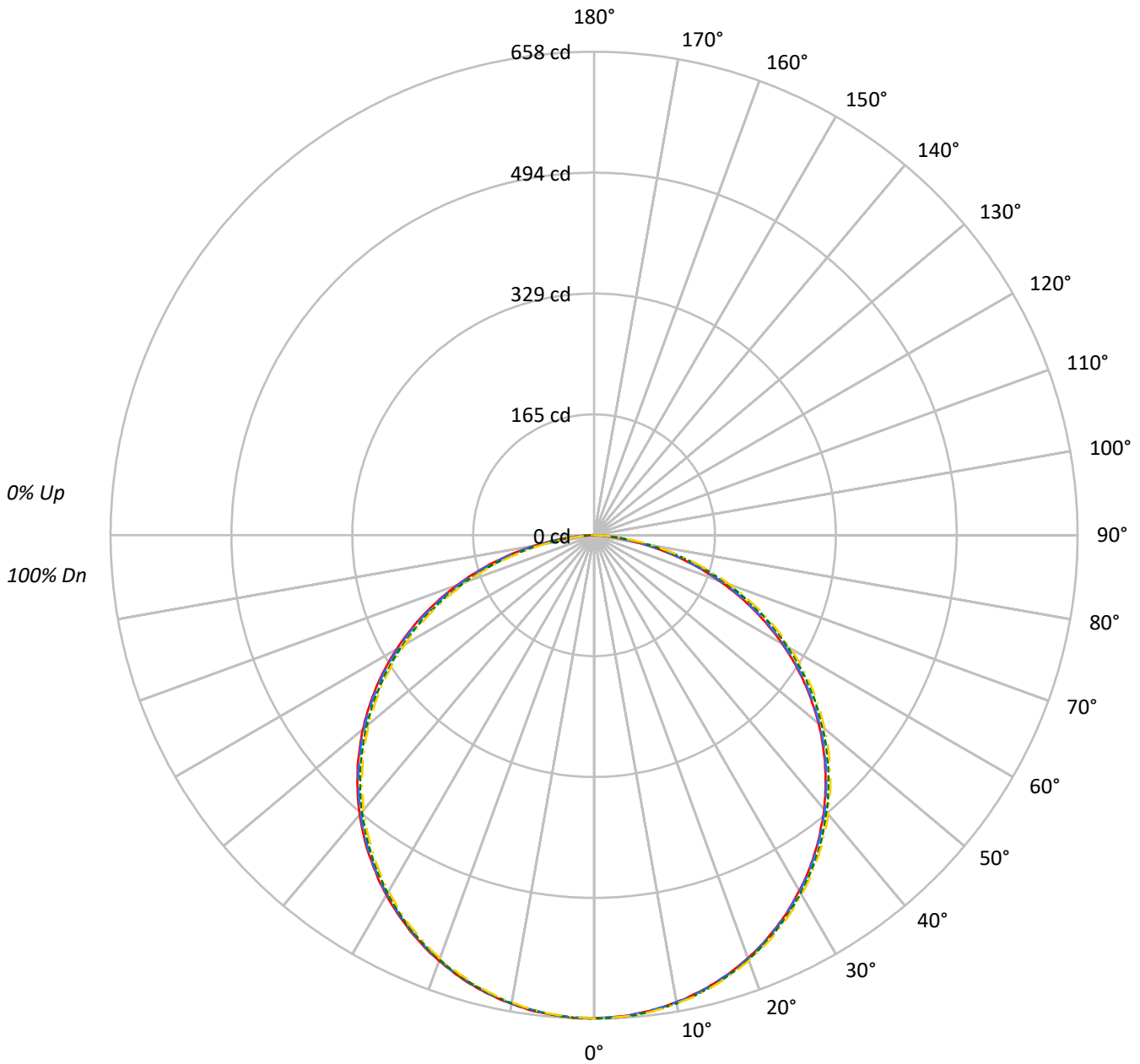
Lumens per Lamp: N/A
 Luminaire Lumens: 1924.3 lumens
 Efficiency: N/A
 Efficacy: 92.1 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

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	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	79	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	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	42	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°	6614	6614	6614	6614
5°	6603	6621	6619	6619
10°	6593	6611	6615	6607
15°	6578	6598	6612	6599
20°	6557	6578	6603	6583
25°	6531	6561	6592	6562
30°	6489	6535	6570	6533
35°	6448	6506	6545	6498
40°	6398	6467	6517	6455
45°	6327	6420	6480	6396
50°	6240	6350	6431	6320
55°	6127	6267	6356	6225
60°	5951	6133	6245	6072
65°	5708	5946	6089	5855
70°	5331	5652	5838	5520
75°	4751	5195	5436	4992
80°	3819	4428	4787	4138
85°	2332	3164	3706	2771

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	3.2
10°-20°	178.7	9.3
20°-30°	272.3	14.1
30°-40°	331.0	17.2
40°-50°	347.1	18.0
50°-60°	317.7	16.5
60°-70°	244.7	12.7
70°-80°	138.4	7.2
80°-90°	32.3	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	513.2	26.7
0°-40°	844.2	43.9
0°-60°	1508.9	78.4
0°-90°	1924.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1924.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	657	657	657	657	657	
5°	654	655	655	655	654	62
15°	631	633	635	633	631	178
25°	588	591	594	591	588	271
35°	525	530	533	529	525	328
45°	445	451	455	449	445	343
55°	349	357	362	355	349	312
65°	240	250	256	246	240	237
75°	122	134	140	128	122	129
85°	20	27	32	24	20	26
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°	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2
0.5°	656.9	656.7	656.8	657.5	657.6	657.9	657.4	657.1	657.0	656.8	657.0
1°	657.0	656.4	656.6	657.5	657.6	657.6	657.4	657.0	657.3	656.9	656.6
1.5°	656.7	656.6	656.5	657.0	657.5	657.5	657.4	657.2	657.5	656.6	656.7
2°	656.6	656.0	656.2	656.6	657.5	657.4	657.1	657.1	657.3	656.4	656.7
2.5°	656.0	655.9	656.3	656.8	657.1	657.1	656.9	656.9	657.1	656.4	656.5
3°	655.7	655.6	655.9	656.2	656.7	656.9	656.5	656.6	656.7	656.4	656.2
3.5°	655.6	655.2	655.7	655.9	656.7	656.7	656.4	656.4	656.2	656.1	655.9
4°	655.2	654.7	655.2	655.6	656.2	656.2	656.0	655.9	655.7	655.8	656.0
4.5°	654.5	654.1	654.7	654.8	655.6	655.8	655.6	655.6	655.4	655.4	655.1
5°	653.7	653.3	654.1	654.7	655.4	655.2	655.2	655.2	655.2	654.8	654.8
5.5°	653.0	652.7	653.5	653.6	654.6	654.7	654.5	654.5	654.6	654.5	654.3
6°	652.5	652.0	652.8	652.8	654.1	653.9	654.0	654.0	654.1	653.9	653.6
6.5°	652.0	651.4	652.3	652.3	653.3	653.3	653.7	653.5	653.4	653.4	652.9
7°	651.3	650.8	651.0	651.5	652.5	652.3	652.9	652.7	653.0	652.7	652.1
7.5°	650.6	649.9	650.1	650.7	651.6	651.5	652.0	651.8	652.5	651.9	651.2
8°	649.6	649.2	649.1	649.9	650.7	650.6	651.3	651.3	651.6	651.3	650.9
8.5°	648.5	648.1	648.7	649.1	649.9	649.7	650.1	650.1	650.3	650.3	649.8
9°	647.5	647.3	647.6	648.0	648.8	649.3	649.7	649.3	649.4	649.0	649.1
9.5°	646.2	646.1	646.5	647.1	647.9	647.9	648.4	648.3	648.7	648.4	647.9
10°	645.2	645.2	645.2	646.2	647.0	647.0	647.5	647.5	647.4	647.6	647.1
10.5°	644.0	644.2	644.4	645.0	645.8	646.0	646.1	646.5	646.6	646.5	646.0
11°	643.3	642.7	643.3	644.0	644.6	644.7	645.0	645.2	645.6	645.2	644.9
11.5°	641.6	641.4	642.4	642.5	643.4	643.4	644.2	644.2	644.5	643.8	643.6
12°	640.3	640.2	640.9	641.3	642.4	642.3	643.0	642.9	643.3	642.8	642.4
12.5°	638.6	639.0	639.4	639.9	640.8	641.3	641.4	641.9	641.5	641.8	641.3
13°	637.6	637.6	638.0	638.1	639.4	640.0	640.3	640.5	640.7	640.4	640.1
13.5°	636.0	636.0	636.6	637.1	638.0	638.5	638.9	639.1	639.4	638.6	638.7
14°	634.7	634.4	635.1	635.6	636.6	637.0	637.4	637.4	637.9	637.3	637.0
14.5°	632.6	632.8	633.3	634.4	634.9	635.3	636.1	636.3	636.4	636.2	635.6
15°	631.4	631.0	632.0	632.1	633.3	633.7	634.2	635.0	634.7	634.4	634.3
15.5°	629.6	629.4	629.9	630.6	631.6	632.0	632.7	633.2	633.3	632.8	632.3
16°	627.8	628.0	628.1	629.1	629.9	630.4	631.0	631.0	631.7	631.0	630.4
16.5°	626.1	626.3	626.3	627.3	628.0	628.5	629.3	629.3	629.9	629.5	628.8
17°	624.5	624.6	625.0	625.6	626.3	626.6	627.6	627.7	627.8	628.0	627.1
17.5°	622.5	622.6	623.2	624.1	624.3	625.2	626.0	626.0	626.3	625.8	625.6
18°	620.6	620.5	621.1	621.9	622.8	623.3	624.1	624.3	624.5	624.2	623.5
18.5°	618.5	618.3	619.2	619.6	620.6	621.3	621.8	622.3	622.3	622.4	621.8
19°	616.5	616.3	617.3	617.5	618.4	619.4	619.9	620.2	620.8	620.2	619.5
19.5°	614.2	614.3	615.1	615.9	616.6	617.1	618.3	618.3	618.2	618.5	617.5
20°	612.3	612.1	612.9	613.6	614.2	615.4	616.2	616.6	616.6	616.4	615.6
20.5°	610.1	609.8	610.6	611.7	612.2	613.2	614.0	614.5	614.2	614.3	613.7
21°	608.0	607.8	608.3	609.1	610.0	610.7	611.8	612.3	612.3	612.1	611.2
21.5°	605.6	605.3	606.2	607.1	608.0	608.8	609.6	610.2	610.4	609.8	609.1
22°	603.0	603.3	604.1	604.5	605.3	606.5	607.6	607.9	608.0	607.4	606.7

TEST NUMBER: P869658
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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°	600.9	600.6	601.5	602.1	603.2	604.1	605.0	605.6	605.7	605.2	604.7
23°	598.4	598.2	598.7	600.0	600.9	601.6	602.8	603.5	603.0	603.0	602.1
23.5°	595.7	595.7	596.1	597.3	598.3	599.0	600.5	600.7	600.6	600.9	599.5
24°	593.2	593.2	594.0	594.7	596.0	597.0	598.2	598.4	598.3	598.5	597.2
24.5°	590.4	590.8	591.3	592.3	593.6	594.2	595.5	596.0	596.0	595.6	594.8
25°	588.2	587.9	588.9	589.5	590.9	591.7	593.0	593.4	593.7	593.4	592.1
25.5°	585.2	585.6	586.0	586.9	588.0	589.2	590.4	591.0	590.8	590.7	589.5
26°	582.5	582.9	583.2	584.3	585.6	586.8	587.5	588.2	587.9	588.2	587.1
26.5°	579.7	579.7	580.2	581.5	582.8	583.7	585.1	585.5	585.2	585.2	584.2
27°	577.2	577.1	577.7	578.4	580.4	580.9	582.3	583.0	582.5	582.7	581.2
27.5°	573.9	574.0	574.8	575.5	577.4	578.1	579.3	579.9	579.9	579.9	578.6
28°	570.9	571.1	571.9	572.8	574.2	575.6	576.7	577.2	577.1	577.0	575.7
28.5°	567.8	568.0	568.7	569.4	571.4	572.4	573.7	574.2	574.2	573.8	572.8
29°	564.8	565.3	565.7	566.7	568.4	569.4	571.0	571.4	571.4	570.9	570.0
29.5°	561.3	561.8	562.7	563.7	565.6	566.4	568.0	568.5	568.6	568.4	567.0
30°	558.4	558.7	559.4	560.8	562.4	563.5	565.1	565.5	565.4	565.3	563.8
30.5°	555.7	555.7	556.7	557.8	559.5	560.4	561.8	562.4	562.3	562.3	560.9
31°	552.4	553.0	553.1	554.3	556.7	557.1	558.6	559.8	559.1	559.3	558.0
31.5°	549.1	549.3	550.1	551.3	553.2	554.3	555.7	556.2	556.2	556.4	554.9
32°	546.1	546.2	547.0	548.1	549.9	551.1	552.9	553.2	553.3	553.3	551.6
32.5°	542.7	543.0	543.2	544.4	546.4	547.8	549.4	550.4	549.7	549.7	548.5
33°	539.0	539.8	539.9	541.2	543.3	544.2	546.1	546.8	546.1	546.5	545.2
33.5°	535.3	536.1	536.6	538.0	539.8	540.9	542.5	543.7	543.0	543.0	541.8
34°	532.1	532.7	532.9	534.6	536.7	537.7	539.2	540.3	539.6	539.7	538.4
34.5°	528.3	528.9	529.8	531.0	533.2	534.3	535.9	536.9	536.1	536.2	535.0
35°	524.9	525.5	526.2	527.3	529.6	530.7	532.5	533.1	532.8	532.8	531.7
35.5°	521.3	521.6	522.6	523.7	526.1	527.3	528.7	529.5	529.5	529.4	528.2
36°	517.7	518.0	518.6	520.0	522.5	523.8	525.6	526.1	526.1	525.7	524.6
36.5°	514.1	514.2	515.3	516.5	519.2	519.9	521.9	522.6	522.6	522.7	520.8
37°	510.4	510.5	511.3	512.7	515.3	516.6	518.2	519.2	518.9	518.9	517.5
37.5°	506.2	506.8	507.5	509.0	511.3	512.7	514.5	515.2	515.1	515.0	513.8
38°	502.3	503.1	503.9	505.1	507.7	509.4	511.1	511.6	511.2	511.0	510.2
38.5°	498.7	499.2	499.9	501.1	503.9	505.3	507.2	507.8	507.8	507.4	506.4
39°	494.8	495.0	496.1	497.4	499.9	501.3	503.4	504.2	504.0	503.7	502.3
39.5°	491.0	491.0	492.2	493.6	495.9	497.7	499.8	500.4	500.1	499.9	498.2
40°	487.0	487.5	488.3	489.8	492.3	494.0	495.5	496.6	496.1	496.1	494.3
40.5°	482.7	483.2	484.4	485.8	488.4	490.0	491.7	492.6	492.3	492.1	490.5
41°	478.7	479.5	480.3	481.9	484.5	486.2	487.7	488.7	488.6	488.1	486.7
41.5°	474.6	475.2	476.1	478.0	480.5	482.3	483.8	484.5	484.6	484.0	482.5
42°	470.4	471.1	471.8	473.7	476.3	478.0	479.6	480.4	480.3	479.9	478.6
42.5°	466.1	467.0	467.5	469.5	472.3	473.7	475.6	476.5	476.2	476.1	474.5
43°	461.8	462.6	463.3	465.2	468.0	469.8	471.6	472.6	472.1	471.8	470.4
43.5°	457.7	458.4	459.3	461.1	463.6	465.5	467.1	468.5	468.0	467.5	466.2
44°	453.7	453.9	454.8	456.6	459.4	461.3	463.2	464.0	463.7	463.3	462.1
44.5°	448.9	449.4	450.7	452.4	455.3	457.1	458.7	459.5	459.4	459.0	457.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	444.6	445.1	446.3	448.2	451.1	452.7	454.5	455.4	455.3	455.0	453.4
45.5°	440.4	440.5	441.8	443.7	446.6	448.3	450.2	450.8	451.1	450.5	448.9
46°	435.8	436.2	437.2	439.4	442.0	443.9	445.9	446.6	446.8	446.4	444.8
46.5°	431.4	431.7	432.7	434.6	437.5	439.5	441.5	442.1	442.2	441.8	440.3
47°	426.8	427.2	428.4	430.3	433.0	435.1	437.0	437.7	437.8	437.2	435.7
47.5°	422.3	422.5	424.0	425.8	428.7	430.6	432.5	433.3	433.2	432.9	431.4
48°	417.6	418.0	419.5	421.2	424.2	426.1	428.1	428.9	428.9	428.3	427.1
48.5°	413.0	413.3	414.7	416.5	419.7	421.5	423.5	424.5	424.5	423.8	422.5
49°	408.4	408.6	410.1	411.9	415.0	416.8	419.1	419.9	419.9	419.3	418.0
49.5°	403.7	404.0	405.3	407.4	410.3	412.2	414.3	415.0	415.4	414.8	413.3
50°	398.6	399.1	400.5	402.5	405.6	407.8	409.9	410.7	410.8	410.3	408.4
50.5°	393.9	394.2	395.8	398.0	400.8	403.1	405.1	405.9	405.9	405.4	403.7
51°	389.1	389.4	390.8	393.0	396.3	398.3	400.2	401.3	401.3	400.4	399.2
51.5°	384.1	384.6	386.1	388.2	391.3	393.6	395.6	396.5	396.5	395.8	394.2
52°	379.2	379.7	381.0	383.3	386.8	388.8	391.0	392.0	391.7	390.9	389.7
52.5°	374.1	374.8	376.3	378.4	381.8	383.8	386.1	387.0	386.7	386.1	384.6
53°	369.4	369.9	371.5	373.5	376.9	379.0	381.2	382.2	382.0	381.4	379.8
53.5°	364.3	364.6	366.4	368.4	372.1	374.2	376.0	377.2	377.0	376.5	375.0
54°	359.3	359.4	361.1	363.2	367.1	369.0	371.3	372.4	372.0	371.8	369.9
54.5°	354.3	354.8	356.2	358.2	361.9	364.2	366.4	367.2	367.1	366.6	364.7
55°	349.2	349.7	351.2	353.5	357.2	359.4	361.5	362.7	362.3	361.7	359.9
55.5°	344.1	344.3	346.1	348.1	352.1	354.4	356.4	357.6	357.4	356.5	355.1
56°	338.9	339.2	340.8	343.1	347.1	349.1	351.6	352.7	352.2	351.5	349.9
56.5°	333.4	334.0	335.8	337.7	341.8	344.0	346.2	347.2	347.3	346.1	344.9
57°	328.1	328.8	330.3	332.3	336.5	339.0	341.3	342.4	342.0	341.2	339.7
57.5°	322.8	323.3	325.0	327.1	331.3	333.6	335.9	336.9	336.9	336.0	334.4
58°	317.8	318.1	319.6	322.0	326.1	328.5	330.8	331.8	331.5	330.7	329.2
58.5°	312.2	312.5	314.4	316.6	320.8	323.2	325.4	326.5	326.6	325.4	324.0
59°	306.8	307.5	308.9	311.3	315.6	317.9	320.2	321.3	321.3	319.9	318.5
59.5°	301.2	301.9	303.5	305.8	310.2	312.7	314.8	316.0	315.7	314.9	313.2
60°	295.7	296.4	298.3	300.6	304.7	307.3	309.5	310.6	310.3	309.4	307.8
60.5°	290.5	290.9	292.4	295.0	299.1	302.0	304.1	305.2	305.1	304.1	302.4
61°	285.1	285.6	287.2	289.8	293.7	296.5	298.9	299.8	299.6	298.5	297.3
61.5°	279.4	279.9	281.7	284.2	288.3	291.1	293.2	294.3	294.4	293.2	291.7
62°	273.6	274.5	276.2	278.5	283.2	285.9	287.9	289.0	288.9	287.9	286.4
62.5°	267.9	268.8	270.3	272.8	277.6	280.3	282.7	283.6	283.5	282.4	280.8
63°	262.3	263.2	264.8	267.4	272.0	274.8	277.0	278.1	277.9	277.0	275.3
63.5°	256.7	257.6	259.3	261.7	266.4	269.2	271.6	272.5	272.5	271.4	269.7
64°	250.8	251.8	253.6	256.1	260.7	263.7	265.8	266.7	266.8	265.7	264.2
64.5°	245.5	246.3	247.9	250.5	255.2	257.9	260.3	261.2	261.2	260.2	258.3
65°	239.7	240.5	242.4	245.0	249.7	252.5	254.9	255.7	255.7	254.7	253.1
65.5°	233.9	234.9	236.5	239.3	244.1	246.8	249.1	250.1	250.2	249.2	247.1
66°	228.0	228.9	230.7	233.3	238.2	241.1	243.3	244.4	244.2	243.4	241.5
66.5°	222.3	223.3	224.8	227.4	232.5	235.2	237.4	238.6	238.4	237.4	235.7
67°	216.8	217.4	219.1	221.8	226.7	229.5	231.7	232.9	232.8	231.9	229.8

TEST NUMBER: P869658
 CATALOG NUMBER: SMX14RLSFS2W-1600LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	210.7	211.7	213.5	216.0	221.0	223.6	226.0	227.2	227.3	226.1	224.1
68°	204.9	205.6	207.6	210.3	215.2	218.1	220.6	221.4	221.5	220.3	218.6
68.5°	198.9	199.8	201.7	204.4	209.6	212.4	214.6	215.7	215.7	214.6	213.0
69°	193.0	193.8	195.8	198.5	203.7	206.5	208.9	209.9	209.9	208.8	207.3
69.5°	187.1	187.9	190.0	192.4	197.9	200.9	203.1	204.1	204.2	203.0	201.1
70°	181.2	182.1	184.1	186.6	192.1	194.9	197.3	198.3	198.4	197.2	195.2
70.5°	175.4	176.2	178.2	181.0	186.5	189.0	191.4	192.6	192.6	191.5	189.4
71°	169.4	170.1	172.2	174.8	180.5	183.5	185.9	186.9	186.9	185.6	183.7
71.5°	163.3	164.3	166.2	168.9	174.6	177.6	179.8	180.9	181.0	179.8	177.7
72°	157.6	158.4	160.3	163.0	168.5	171.7	174.1	175.0	175.1	173.9	171.8
72.5°	151.8	152.7	154.6	157.3	162.7	165.8	168.1	169.3	169.3	168.0	166.0
73°	145.8	146.7	148.8	151.2	156.8	159.8	162.2	163.1	163.3	162.1	159.9
73.5°	139.8	140.7	142.7	145.3	151.2	154.1	156.5	157.4	157.5	156.3	154.3
74°	133.9	134.9	136.9	139.4	145.3	148.3	150.8	151.6	151.7	150.4	148.5
74.5°	127.9	128.9	131.0	133.5	139.3	142.4	144.8	145.8	145.9	144.7	142.5
75°	122.2	123.1	125.1	127.7	133.6	136.5	138.8	139.8	139.8	138.7	136.7
75.5°	116.4	117.3	119.3	122.0	127.6	130.6	132.9	134.1	134.0	132.8	130.7
76°	110.5	111.4	113.5	116.0	121.7	124.7	126.9	128.1	128.3	126.9	124.9
76.5°	104.6	105.7	107.7	110.2	116.0	119.1	121.2	122.2	122.3	121.2	118.9
77°	98.8	99.8	102.0	104.6	110.2	113.1	115.5	116.5	116.4	115.4	113.4
77.5°	93.4	94.4	96.4	98.9	104.5	107.4	109.8	110.7	110.7	109.6	107.5
78°	87.7	88.7	90.7	93.1	98.8	101.7	104.1	104.9	105.0	103.7	101.8
78.5°	82.1	83.1	85.1	87.8	93.0	95.9	98.3	99.2	99.3	98.1	96.0
79°	76.6	77.6	79.7	82.2	87.6	90.3	92.5	93.5	93.5	92.4	90.5
79.5°	71.2	72.1	74.1	76.6	82.0	84.9	87.1	88.0	88.0	86.9	84.8
80°	65.9	66.6	68.8	71.2	76.4	79.3	81.5	82.5	82.6	81.4	79.5
80.5°	60.5	61.5	63.4	65.8	71.2	74.0	76.1	77.0	77.0	75.9	73.8
81°	55.5	56.4	58.2	60.6	65.8	68.4	70.6	71.7	71.7	70.6	68.6
81.5°	50.4	51.5	53.1	55.5	60.6	63.1	65.2	66.2	66.1	65.0	63.1
82°	45.5	46.4	48.2	50.3	55.3	58.0	59.9	60.9	61.0	59.8	57.9
82.5°	40.8	41.7	43.5	45.6	50.4	53.0	54.9	55.8	55.8	54.7	52.9
83°	36.2	37.1	38.8	40.7	45.5	48.1	50.0	51.1	50.9	49.9	48.0
83.5°	31.9	32.6	34.3	36.2	40.7	43.1	45.0	46.0	46.0	44.8	43.1
84°	27.6	28.5	30.1	31.9	36.0	38.5	40.2	41.2	41.2	40.0	38.3
84.5°	23.7	24.5	26.0	27.9	31.7	33.8	35.7	36.5	36.4	35.5	33.9
85°	20.2	20.9	22.3	23.8	27.4	29.6	31.3	32.2	32.1	31.1	29.7
85.5°	16.6	17.2	18.6	20.2	23.5	25.5	27.0	27.8	27.8	26.9	25.4
86°	13.5	13.9	15.2	16.7	20.1	21.7	23.1	23.8	23.7	22.8	21.6
86.5°	10.2	10.7	12.0	13.5	16.8	18.3	19.7	20.3	20.3	19.5	18.1
87°	7.4	7.8	8.8	10.2	13.6	15.1	16.4	17.1	17.0	16.3	15.0
87.5°	5.4	5.5	6.4	7.4	10.6	12.1	13.3	13.8	13.7	13.1	11.9
88°	3.3	3.7	4.3	5.4	7.9	9.1	10.2	10.8	10.7	10.1	9.1
88.5°	2.0	2.2	2.7	3.5	5.5	6.6	7.5	8.0	7.9	7.4	6.4
89°	1.2	1.3	1.7	2.1	3.4	4.5	5.2	5.6	5.5	5.0	4.4
89.5°	0.8	0.7	0.9	1.2	1.9	2.7	3.2	3.6	3.6	3.1	2.5

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



TEST NUMBER: P869658
CATALOG NUMBER: SMX14RLSFSD2W-1600LM-3500K

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: P869658
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	657.2	657.2	657.2	657.2	657.2	657.2
0.5°	657.2	657.8	657.5	657.2	657.4	656.9
1°	657.2	657.8	657.4	657.1	657.2	657.0
1.5°	657.3	657.7	657.3	656.6	656.6	656.7
2°	657.0	657.4	657.0	656.7	656.6	656.6
2.5°	656.6	657.1	656.8	656.4	656.1	656.0
3°	656.4	656.5	656.6	656.1	656.2	655.7
3.5°	656.3	656.3	656.1	655.8	656.0	655.6
4°	656.0	655.9	655.6	654.9	654.7	655.2
4.5°	655.3	655.5	655.4	654.5	654.7	654.5
5°	654.7	655.2	654.7	654.0	653.7	653.7
5.5°	654.6	654.2	654.4	653.6	653.6	653.0
6°	653.8	653.7	653.5	652.8	653.0	652.5
6.5°	652.9	652.7	652.8	652.0	652.2	652.0
7°	652.2	652.1	652.0	651.4	651.5	651.3
7.5°	651.4	651.4	651.3	650.6	651.0	650.6
8°	650.5	650.4	650.4	649.8	650.3	649.6
8.5°	649.9	649.5	649.2	648.9	649.0	648.5
9°	649.2	648.9	648.6	647.6	647.9	647.5
9.5°	648.1	647.9	647.5	646.5	646.8	646.2
10°	646.9	646.6	646.3	645.8	645.7	645.2
10.5°	645.9	645.6	645.2	644.4	644.1	644.0
11°	644.8	644.4	644.1	643.4	642.8	643.3
11.5°	643.5	643.2	642.8	642.0	641.8	641.6
12°	642.3	641.9	641.5	640.9	640.8	640.3
12.5°	641.0	640.8	640.4	639.2	639.1	638.6
13°	639.4	639.6	638.9	638.0	637.9	637.6
13.5°	638.0	638.0	637.4	636.5	636.5	636.0
14°	636.8	636.4	636.2	634.9	634.6	634.7
14.5°	635.0	634.9	634.5	633.4	633.3	632.6
15°	633.6	633.4	632.8	631.8	631.4	631.4
15.5°	632.3	631.8	631.1	630.0	629.9	629.6
16°	630.4	630.1	629.3	628.2	628.1	627.8
16.5°	628.7	628.4	627.5	626.3	626.1	626.1
17°	627.1	626.5	625.6	624.7	624.5	624.5
17.5°	625.5	624.5	624.0	622.8	622.8	622.5
18°	623.3	622.8	621.5	620.9	620.5	620.6
18.5°	621.6	621.0	620.1	618.9	618.9	618.5
19°	619.5	618.9	618.0	617.1	616.6	616.5
19.5°	617.4	616.7	616.2	615.2	614.6	614.2
20°	615.5	614.7	613.8	612.8	612.6	612.3
20.5°	613.4	612.3	611.6	610.5	610.4	610.1
21°	611.0	610.3	609.4	608.4	607.7	608.0
21.5°	608.6	608.0	607.1	606.1	605.6	605.6
22°	606.4	605.7	604.7	603.6	602.8	603.0

TEST NUMBER: P869658
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	603.9	603.2	602.3	601.0	600.7	600.9
23°	601.7	601.1	600.0	598.5	598.1	598.4
23.5°	599.2	598.6	597.8	596.1	595.8	595.7
24°	596.7	596.1	594.9	593.5	593.1	593.2
24.5°	594.5	593.4	592.5	590.8	590.4	590.4
25°	592.1	591.0	589.9	588.7	588.1	588.2
25.5°	589.4	588.5	587.1	585.8	585.5	585.2
26°	586.5	585.9	584.4	583.4	582.6	582.5
26.5°	583.5	582.8	581.6	580.3	579.9	579.7
27°	580.9	580.0	579.0	577.3	576.9	577.2
27.5°	578.5	577.0	575.9	574.6	574.0	573.9
28°	575.1	574.2	573.2	571.2	570.6	570.9
28.5°	572.3	571.3	570.1	568.4	567.5	567.8
29°	569.6	568.3	566.9	565.4	564.7	564.8
29.5°	566.6	565.2	563.9	562.2	561.6	561.3
30°	563.6	562.2	561.1	559.1	558.7	558.4
30.5°	560.4	559.2	558.0	556.2	555.5	555.7
31°	557.5	555.9	554.2	553.1	552.3	552.4
31.5°	554.4	552.3	551.3	549.9	549.1	549.1
32°	551.0	549.4	548.0	546.6	545.6	546.1
32.5°	547.9	546.1	544.9	543.1	542.3	542.7
33°	544.4	542.7	541.4	539.8	539.0	539.0
33.5°	541.0	539.1	537.8	536.3	535.5	535.3
34°	537.5	536.1	534.2	532.6	532.0	532.1
34.5°	534.4	532.3	530.8	529.1	528.1	528.3
35°	530.6	528.9	527.0	525.6	524.8	524.9
35.5°	527.3	525.4	524.0	522.2	521.2	521.3
36°	523.5	521.8	520.2	518.3	517.6	517.7
36.5°	520.2	517.9	516.2	514.5	513.7	514.1
37°	516.2	514.3	512.3	511.2	510.3	510.4
37.5°	513.1	510.8	509.1	507.5	506.5	506.2
38°	508.9	506.8	505.0	503.3	502.3	502.3
38.5°	505.1	502.9	501.0	499.4	498.7	498.7
39°	501.1	499.0	497.0	495.8	495.0	494.8
39.5°	497.5	495.0	493.4	491.7	490.9	491.0
40°	493.3	491.4	489.6	487.8	487.0	487.0
40.5°	489.8	487.5	485.4	483.8	483.2	482.7
41°	485.5	483.4	481.2	479.7	478.9	478.7
41.5°	481.8	479.2	477.1	475.5	474.5	474.6
42°	477.5	475.0	473.1	471.1	470.5	470.4
42.5°	473.3	470.8	468.9	467.0	466.2	466.1
43°	469.3	466.5	464.7	462.8	462.0	461.8
43.5°	465.1	462.3	460.8	458.5	457.9	457.7
44°	460.7	458.2	456.2	454.2	453.4	453.7
44.5°	456.6	453.8	451.9	449.9	448.9	448.9

TEST NUMBER: P869658
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	452.3	449.4	447.5	445.6	444.7	444.6
45.5°	447.9	445.0	443.1	440.9	440.5	440.4
46°	443.4	440.8	438.5	436.8	435.8	435.8
46.5°	439.0	436.0	434.1	432.3	431.0	431.4
47°	434.6	431.8	429.4	427.8	426.5	426.8
47.5°	430.0	427.1	424.9	423.3	422.0	422.3
48°	425.5	422.5	420.4	418.7	417.5	417.6
48.5°	421.2	418.0	415.8	414.0	413.2	413.0
49°	416.5	413.5	411.2	409.2	408.4	408.4
49.5°	411.7	408.7	406.5	404.5	403.4	403.7
50°	407.0	403.7	401.6	399.9	398.8	398.6
50.5°	402.2	399.0	397.0	395.1	394.1	393.9
51°	397.5	394.4	392.1	390.1	389.4	389.1
51.5°	393.1	389.6	387.4	385.3	384.2	384.1
52°	388.0	384.7	382.6	380.6	379.3	379.2
52.5°	383.1	379.6	377.5	375.6	374.5	374.1
53°	378.1	374.7	372.7	370.5	369.3	369.4
53.5°	373.2	369.8	367.4	365.3	364.2	364.3
54°	368.1	364.6	362.5	360.4	359.2	359.3
54.5°	363.3	359.7	357.5	355.5	354.5	354.3
55°	358.3	354.8	352.3	350.3	349.4	349.2
55.5°	353.3	349.4	347.1	345.4	344.1	344.1
56°	348.2	344.2	342.2	340.0	338.8	338.9
56.5°	343.0	339.2	336.7	334.6	333.8	333.4
57°	337.8	334.0	331.6	329.4	328.2	328.1
57.5°	332.6	328.6	326.1	324.0	322.8	322.8
58°	327.3	323.3	320.8	318.7	317.6	317.8
58.5°	322.2	318.0	315.5	313.2	312.2	312.2
59°	316.9	312.6	309.9	307.8	306.8	306.8
59.5°	311.3	307.4	304.8	302.2	301.1	301.2
60°	305.9	301.7	299.1	296.8	295.8	295.7
60.5°	300.5	296.2	293.6	291.2	290.3	290.5
61°	295.0	290.8	288.2	286.1	284.9	285.1
61.5°	289.7	285.2	282.7	280.4	279.4	279.4
62°	284.3	279.7	277.2	274.8	273.7	273.6
62.5°	278.7	274.0	271.5	268.9	267.9	267.9
63°	273.2	268.4	265.8	263.5	262.5	262.3
63.5°	267.5	262.6	260.2	257.9	256.8	256.7
64°	261.9	257.1	254.6	252.4	251.3	250.8
64.5°	256.2	251.6	248.9	246.7	245.5	245.5
65°	250.8	245.9	243.1	240.9	239.7	239.7
65.5°	245.1	240.0	237.4	235.1	234.1	233.9
66°	239.2	234.4	231.6	229.0	228.0	228.0
66.5°	233.3	228.4	225.7	223.4	222.3	222.3
67°	227.7	222.9	220.0	217.8	216.5	216.8

TEST NUMBER: P869658
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	222.3	217.0	214.1	212.1	210.5	210.7
68°	216.4	211.2	208.1	206.0	204.9	204.9
68.5°	210.5	205.3	202.3	199.9	198.9	198.9
69°	204.6	199.3	196.4	194.3	192.8	193.0
69.5°	198.9	193.5	190.6	188.2	187.0	187.1
70°	193.1	187.6	184.8	182.2	181.4	181.2
70.5°	187.1	181.7	178.9	176.6	175.5	175.4
71°	181.2	175.5	172.9	170.5	169.3	169.4
71.5°	175.5	169.7	166.9	164.6	163.1	163.3
72°	169.5	163.9	161.1	158.7	157.6	157.6
72.5°	163.6	158.0	155.3	152.9	151.7	151.8
73°	157.5	152.1	149.2	146.8	145.9	145.8
73.5°	151.8	146.1	143.4	141.0	139.7	139.8
74°	146.0	140.3	137.3	135.0	133.8	133.9
74.5°	140.1	134.4	131.6	129.1	127.9	127.9
75°	134.1	128.4	125.6	123.3	122.3	122.2
75.5°	128.3	122.6	119.8	117.4	116.0	116.4
76°	122.3	116.6	113.9	111.6	110.5	110.5
76.5°	116.6	110.8	107.9	105.8	104.7	104.6
77°	110.7	105.2	102.4	100.1	98.8	98.8
77.5°	105.0	99.5	96.7	94.5	93.4	93.4
78°	99.3	93.6	90.9	88.8	87.7	87.7
78.5°	93.5	88.1	85.5	83.2	82.2	82.1
79°	87.9	82.6	79.9	77.8	76.7	76.6
79.5°	82.3	76.9	74.4	72.2	71.2	71.2
80°	76.9	71.4	68.8	66.7	65.7	65.9
80.5°	71.5	66.2	63.6	61.4	60.4	60.5
81°	66.1	60.8	58.3	56.4	55.5	55.5
81.5°	60.7	55.9	53.4	51.3	50.3	50.4
82°	55.6	50.8	48.3	46.4	45.5	45.5
82.5°	50.7	46.0	43.6	41.8	40.8	40.8
83°	45.8	41.1	38.9	37.1	36.3	36.2
83.5°	40.9	36.5	34.4	32.6	31.8	31.9
84°	36.2	32.2	30.1	28.4	27.6	27.6
84.5°	31.9	28.0	26.1	24.5	23.7	23.7
85°	27.6	24.0	22.3	20.9	20.2	20.2
85.5°	23.6	20.5	18.7	17.4	16.7	16.6
86°	20.0	16.9	15.3	14.0	13.4	13.5
86.5°	16.8	13.6	12.0	10.7	10.2	10.2
87°	13.6	10.4	8.8	7.9	7.3	7.4
87.5°	10.5	7.5	6.4	5.6	5.3	5.4
88°	7.9	5.4	4.5	3.7	3.4	3.3
88.5°	5.4	3.5	2.8	2.4	2.1	2.0
89°	3.5	2.2	1.7	1.3	1.2	1.2
89.5°	1.8	1.3	1.0	0.8	1.1	0.8

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869658
CATALOG NUMBER: SMX14RLSFSD2W-1600LM-3500K

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)