

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: P869657

Luminaire Tested: **SMX14RLSFSD2W-1600LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869657
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFSD2W-1600LM-3000K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

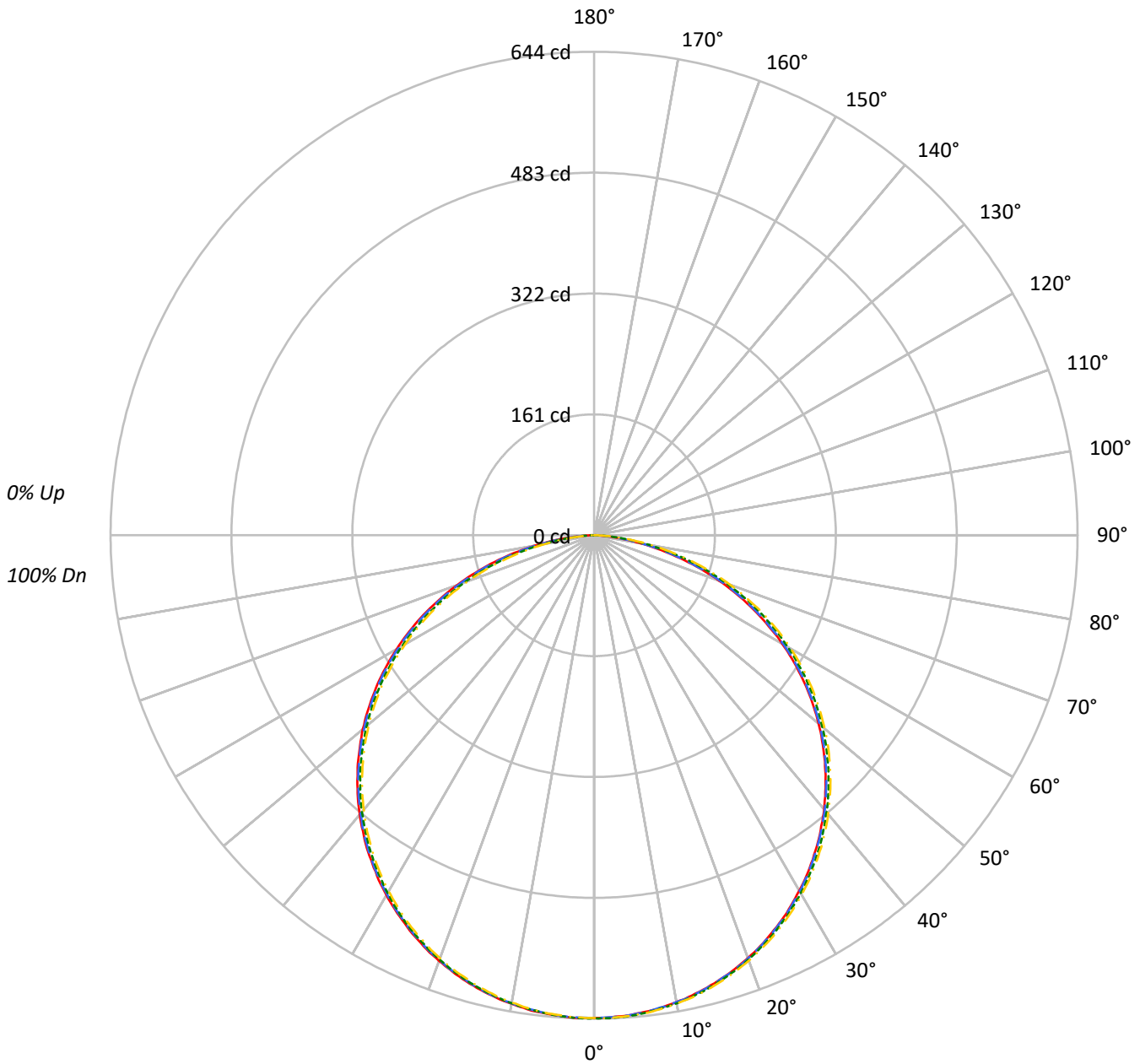
Lumens per Lamp: N/A
 Luminaire Lumens: 1883.4 lumens
 Efficiency: N/A
 Efficacy: 90.1 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

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					20
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	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	84	84	84		
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69	69	69	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	58	58	58		
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49	49	49	49	49	49	49		
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43	43	43	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	37	37	37		
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33	33	33	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	29	29	29		
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26	26	26	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	24	24	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6473	6473	6473	6473
5°	6463	6480	6478	6478
10°	6453	6470	6474	6466
15°	6438	6458	6472	6458
20°	6417	6438	6462	6444
25°	6392	6422	6451	6422
30°	6350	6397	6431	6393
35°	6311	6367	6405	6359
40°	6261	6329	6379	6319
45°	6194	6283	6342	6260
50°	6107	6215	6295	6186
55°	5997	6134	6221	6093
60°	5825	6002	6112	5941
65°	5586	5820	5960	5729
70°	5217	5532	5714	5402
75°	4650	5082	5323	4887
80°	3738	4335	4683	4051
85°	2275	3106	3626	2713

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	3.2
10°-20°	174.9	9.3
20°-30°	266.5	14.1
30°-40°	323.9	17.2
40°-50°	339.7	18.0
50°-60°	310.9	16.5
60°-70°	239.5	12.7
70°-80°	135.5	7.2
80°-90°	31.7	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	502.3	26.7
0°-40°	826.2	43.9
0°-60°	1476.8	78.4
0°-90°	1883.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	643	643	643	643	643	
5°	640	642	641	641	640	61
15°	618	620	621	620	618	174
25°	576	578	581	578	576	265
35°	514	518	521	518	514	321
45°	435	442	446	440	435	336
55°	342	350	355	347	342	305
65°	235	244	250	241	235	232
75°	120	131	137	126	120	126
85°	20	27	31	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°	643.2	643.2	643.2	643.2	643.2	643.2	643.2	643.2	643.2	643.2	643.2
0.5°	642.9	642.8	642.8	643.5	643.6	643.9	643.4	643.2	643.0	642.8	643.0
1°	643.0	642.4	642.7	643.6	643.6	643.6	643.4	643.0	643.3	642.9	642.7
1.5°	642.8	642.6	642.5	643.0	643.5	643.6	643.4	643.2	643.5	642.6	642.8
2°	642.6	642.0	642.3	642.6	643.6	643.4	643.1	643.2	643.3	642.4	642.8
2.5°	642.0	641.9	642.3	642.8	643.1	643.2	642.9	642.9	643.1	642.4	642.5
3°	641.8	641.6	641.9	642.3	642.8	642.9	642.5	642.6	642.8	642.4	642.3
3.5°	641.7	641.3	641.8	641.9	642.8	642.8	642.4	642.4	642.3	642.1	641.9
4°	641.3	640.8	641.3	641.6	642.3	642.3	642.0	641.9	641.8	641.9	642.0
4.5°	640.6	640.2	640.7	640.9	641.7	641.9	641.6	641.7	641.5	641.5	641.1
5°	639.8	639.4	640.2	640.8	641.5	641.2	641.2	641.3	641.3	640.9	640.9
5.5°	639.1	638.8	639.6	639.7	640.6	640.7	640.6	640.6	640.6	640.6	640.4
6°	638.6	638.1	638.9	638.9	640.2	640.0	640.1	640.1	640.2	640.0	639.7
6.5°	638.1	637.6	638.5	638.5	639.4	639.4	639.8	639.6	639.5	639.5	639.0
7°	637.4	636.9	637.2	637.7	638.6	638.4	639.0	638.8	639.1	638.8	638.2
7.5°	636.8	636.1	636.3	636.8	637.7	637.7	638.1	638.0	638.6	638.1	637.3
8°	635.8	635.4	635.3	636.1	636.8	636.8	637.4	637.4	637.7	637.4	637.0
8.5°	634.7	634.3	634.9	635.3	636.1	635.9	636.3	636.3	636.4	636.4	636.0
9°	633.7	633.5	633.9	634.2	635.0	635.5	635.9	635.5	635.6	635.2	635.3
9.5°	632.5	632.4	632.7	633.4	634.1	634.1	634.6	634.5	634.9	634.6	634.1
10°	631.5	631.4	631.4	632.5	633.2	633.2	633.7	633.7	633.6	633.9	633.4
10.5°	630.3	630.5	630.7	631.3	632.1	632.2	632.4	632.7	632.9	632.7	632.2
11°	629.6	629.0	629.6	630.3	630.9	631.0	631.3	631.5	631.9	631.4	631.2
11.5°	627.9	627.7	628.8	628.8	629.7	629.7	630.5	630.5	630.8	630.1	629.9
12°	626.7	626.6	627.2	627.6	628.8	628.6	629.3	629.2	629.6	629.1	628.8
12.5°	625.0	625.4	625.8	626.3	627.1	627.6	627.7	628.3	627.9	628.2	627.6
13°	624.1	624.1	624.4	624.6	625.8	626.4	626.7	626.9	627.1	626.7	626.5
13.5°	622.4	622.4	623.1	623.6	624.5	625.0	625.3	625.5	625.8	625.0	625.1
14°	621.2	620.9	621.6	622.1	623.0	623.4	623.8	623.8	624.3	623.7	623.4
14.5°	619.1	619.3	619.9	620.9	621.4	621.8	622.5	622.8	622.9	622.7	622.0
15°	618.0	617.6	618.6	618.6	619.9	620.3	620.7	621.5	621.2	620.9	620.8
15.5°	616.2	616.0	616.5	617.2	618.2	618.6	619.2	619.7	619.9	619.4	618.9
16°	614.4	614.6	614.8	615.7	616.5	616.9	617.6	617.6	618.2	617.6	616.9
16.5°	612.8	613.0	613.0	614.0	614.6	615.1	615.9	615.9	616.5	616.1	615.4
17°	611.2	611.3	611.7	612.3	613.0	613.2	614.3	614.4	614.4	614.7	613.8
17.5°	609.3	609.3	609.9	610.8	611.0	611.9	612.7	612.7	613.0	612.5	612.3
18°	607.4	607.3	607.9	608.7	609.6	610.1	610.8	611.0	611.2	611.0	610.2
18.5°	605.3	605.1	606.0	606.4	607.4	608.1	608.6	609.0	609.1	609.2	608.5
19°	603.4	603.2	604.2	604.4	605.2	606.2	606.8	607.0	607.6	607.0	606.3
19.5°	601.2	601.3	602.0	602.8	603.4	603.9	605.1	605.1	605.1	605.4	604.4
20°	599.2	599.1	599.9	600.5	601.2	602.3	603.1	603.4	603.4	603.3	602.5
20.5°	597.1	596.8	597.6	598.7	599.2	600.1	600.9	601.4	601.2	601.3	600.6
21°	595.1	594.9	595.3	596.2	597.0	597.7	598.8	599.3	599.3	599.1	598.2
21.5°	592.8	592.4	593.3	594.1	595.0	595.8	596.6	597.2	597.4	596.8	596.2
22°	590.2	590.5	591.2	591.6	592.4	593.6	594.7	594.9	595.0	594.5	593.8

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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°	588.1	587.8	588.7	589.3	590.4	591.2	592.1	592.7	592.8	592.4	591.8
23°	585.6	585.5	586.0	587.3	588.1	588.8	590.0	590.7	590.2	590.2	589.3
23.5°	583.1	583.1	583.5	584.6	585.6	586.3	587.7	587.9	587.8	588.1	586.8
24°	580.6	580.6	581.4	582.1	583.3	584.3	585.5	585.6	585.6	585.7	584.5
24.5°	577.9	578.2	578.7	579.7	581.0	581.5	582.8	583.3	583.3	582.9	582.2
25°	575.7	575.4	576.3	577.0	578.4	579.1	580.4	580.8	581.0	580.8	579.5
25.5°	572.8	573.1	573.5	574.4	575.5	576.7	577.8	578.4	578.2	578.1	577.0
26°	570.1	570.5	570.8	571.9	573.1	574.3	575.0	575.7	575.4	575.7	574.6
26.5°	567.4	567.4	567.8	569.1	570.4	571.3	572.7	573.0	572.8	572.8	571.7
27°	564.9	564.8	565.4	566.1	568.1	568.5	569.9	570.6	570.1	570.3	568.8
27.5°	561.7	561.8	562.6	563.2	565.1	565.8	567.0	567.6	567.5	567.5	566.3
28°	558.7	558.9	559.8	560.6	561.9	563.3	564.4	564.9	564.8	564.7	563.5
28.5°	555.7	556.0	556.6	557.3	559.3	560.2	561.5	561.9	561.9	561.6	560.6
29°	552.8	553.3	553.7	554.7	556.3	557.3	558.9	559.3	559.3	558.8	557.9
29.5°	549.4	549.8	550.7	551.7	553.6	554.3	556.0	556.4	556.5	556.3	555.0
30°	546.5	546.8	547.5	548.8	550.5	551.5	553.0	553.4	553.4	553.3	551.8
30.5°	543.9	543.9	544.9	545.9	547.6	548.4	549.8	550.5	550.3	550.4	549.0
31°	540.7	541.2	541.3	542.5	544.9	545.3	546.7	547.9	547.2	547.4	546.1
31.5°	537.4	537.6	538.4	539.6	541.4	542.5	543.9	544.4	544.4	544.6	543.1
32°	534.4	534.6	535.3	536.5	538.2	539.4	541.2	541.5	541.6	541.6	539.9
32.5°	531.1	531.4	531.6	532.8	534.8	536.1	537.8	538.6	538.0	538.0	536.9
33°	527.6	528.3	528.4	529.7	531.8	532.6	534.4	535.2	534.4	534.8	533.6
33.5°	523.9	524.7	525.2	526.5	528.3	529.3	531.0	532.1	531.4	531.4	530.3
34°	520.8	521.3	521.6	523.2	525.3	526.3	527.7	528.8	528.1	528.2	526.9
34.5°	517.0	517.7	518.5	519.7	521.8	523.0	524.5	525.5	524.7	524.8	523.6
35°	513.7	514.3	515.0	516.1	518.3	519.4	521.2	521.7	521.4	521.4	520.4
35.5°	510.2	510.5	511.5	512.5	514.9	516.1	517.5	518.3	518.3	518.2	517.0
36°	506.7	506.9	507.6	509.0	511.4	512.7	514.4	514.9	514.9	514.5	513.4
36.5°	503.1	503.3	504.3	505.5	508.1	508.9	510.8	511.5	511.5	511.5	509.8
37°	499.5	499.7	500.5	501.8	504.3	505.6	507.2	508.1	507.8	507.8	506.5
37.5°	495.5	496.0	496.7	498.2	500.5	501.8	503.5	504.3	504.1	504.0	502.9
38°	491.6	492.4	493.2	494.4	496.9	498.5	500.2	500.7	500.3	500.1	499.3
38.5°	488.1	488.6	489.2	490.4	493.2	494.6	496.4	497.0	497.0	496.6	495.6
39°	484.3	484.4	485.5	486.8	489.2	490.7	492.7	493.5	493.3	492.9	491.6
39.5°	480.6	480.6	481.7	483.1	485.3	487.1	489.1	489.7	489.5	489.2	487.6
40°	476.6	477.2	477.9	479.4	481.8	483.5	484.9	486.0	485.6	485.5	483.8
40.5°	472.4	473.0	474.1	475.5	478.0	479.6	481.2	482.1	481.9	481.6	480.1
41°	468.5	469.3	470.1	471.7	474.2	475.9	477.3	478.3	478.2	477.7	476.4
41.5°	464.5	465.1	466.0	467.8	470.3	472.0	473.5	474.2	474.3	473.7	472.2
42°	460.4	461.1	461.7	463.7	466.2	467.9	469.4	470.2	470.1	469.7	468.4
42.5°	456.1	457.0	457.6	459.5	462.2	463.7	465.4	466.3	466.1	466.0	464.4
43°	451.9	452.7	453.5	455.3	458.1	459.8	461.6	462.5	462.0	461.7	460.4
43.5°	448.0	448.6	449.5	451.3	453.7	455.6	457.2	458.5	458.1	457.5	456.3
44°	444.0	444.2	445.1	446.9	449.7	451.5	453.3	454.1	453.9	453.5	452.3
44.5°	439.3	439.9	441.1	442.8	445.6	447.4	448.9	449.7	449.7	449.3	448.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	435.2	435.6	436.8	438.7	441.5	443.1	444.8	445.7	445.6	445.3	443.8
45.5°	431.1	431.1	432.4	434.3	437.1	438.7	440.6	441.2	441.5	440.9	439.4
46°	426.5	426.9	427.9	430.0	432.6	434.5	436.4	437.1	437.3	436.9	435.3
46.5°	422.2	422.5	423.5	425.3	428.2	430.2	432.1	432.7	432.8	432.4	430.9
47°	417.7	418.1	419.3	421.2	423.8	425.8	427.7	428.4	428.5	427.9	426.5
47.5°	413.3	413.5	415.0	416.7	419.6	421.4	423.3	424.1	424.0	423.7	422.2
48°	408.7	409.1	410.6	412.2	415.2	417.0	419.0	419.8	419.7	419.2	418.0
48.5°	404.2	404.5	405.9	407.7	410.8	412.5	414.5	415.4	415.4	414.8	413.5
49°	399.8	399.9	401.4	403.2	406.1	407.9	410.2	411.0	410.9	410.4	409.1
49.5°	395.1	395.4	396.7	398.7	401.5	403.5	405.5	406.1	406.6	406.0	404.5
50°	390.1	390.6	392.0	393.9	397.0	399.1	401.2	401.9	402.1	401.5	399.7
50.5°	385.5	385.8	387.4	389.5	392.3	394.5	396.5	397.2	397.2	396.8	395.1
51°	380.8	381.2	382.5	384.6	387.9	389.8	391.7	392.7	392.8	391.9	390.7
51.5°	376.0	376.5	377.8	379.9	383.0	385.2	387.1	388.0	388.1	387.4	385.8
52°	371.1	371.6	372.9	375.2	378.6	380.5	382.7	383.7	383.3	382.6	381.4
52.5°	366.2	366.8	368.3	370.3	373.7	375.7	377.8	378.8	378.5	377.9	376.4
53°	361.5	362.1	363.6	365.5	368.9	371.0	373.1	374.1	373.9	373.3	371.7
53.5°	356.6	356.8	358.6	360.5	364.2	366.3	368.0	369.2	368.9	368.5	367.0
54°	351.6	351.7	353.4	355.5	359.3	361.2	363.4	364.5	364.1	363.8	362.0
54.5°	346.8	347.3	348.6	350.6	354.2	356.5	358.6	359.4	359.3	358.8	357.0
55°	341.8	342.2	343.7	346.0	349.6	351.7	353.8	354.9	354.6	354.0	352.2
55.5°	336.7	337.0	338.8	340.7	344.6	346.9	348.8	350.0	349.8	349.0	347.5
56°	331.6	332.0	333.6	335.8	339.7	341.7	344.1	345.2	344.8	344.0	342.4
56.5°	326.3	326.9	328.7	330.5	334.6	336.7	338.8	339.8	339.9	338.8	337.6
57°	321.1	321.8	323.3	325.3	329.4	331.8	334.0	335.1	334.7	333.9	332.5
57.5°	316.0	316.4	318.1	320.2	324.3	326.5	328.7	329.7	329.7	328.9	327.3
58°	311.0	311.3	312.8	315.1	319.2	321.5	323.8	324.7	324.4	323.6	322.2
58.5°	305.6	305.8	307.7	309.9	314.0	316.4	318.5	319.6	319.7	318.5	317.1
59°	300.3	300.9	302.4	304.7	308.9	311.2	313.4	314.4	314.5	313.1	311.7
59.5°	294.8	295.5	297.0	299.3	303.6	306.0	308.1	309.2	309.0	308.2	306.6
60°	289.4	290.1	291.9	294.2	298.2	300.7	302.9	304.0	303.7	302.9	301.2
60.5°	284.3	284.7	286.2	288.7	292.7	295.6	297.7	298.7	298.6	297.7	296.0
61°	279.1	279.6	281.1	283.7	287.5	290.2	292.5	293.5	293.2	292.2	291.0
61.5°	273.4	274.0	275.7	278.2	282.1	284.9	286.9	288.0	288.1	287.0	285.5
62°	267.8	268.6	270.3	272.6	277.2	279.8	281.8	282.9	282.8	281.8	280.3
62.5°	262.2	263.1	264.5	267.0	271.7	274.4	276.6	277.5	277.5	276.4	274.8
63°	256.7	257.6	259.2	261.7	266.2	269.0	271.1	272.2	272.0	271.1	269.4
63.5°	251.2	252.1	253.8	256.1	260.7	263.5	265.8	266.7	266.7	265.6	263.9
64°	245.5	246.5	248.3	250.7	255.1	258.1	260.1	261.0	261.1	260.1	258.6
64.5°	240.2	241.1	242.7	245.2	249.8	252.4	254.7	255.6	255.6	254.6	252.8
65°	234.6	235.4	237.2	239.8	244.4	247.1	249.5	250.3	250.3	249.3	247.7
65.5°	228.9	229.9	231.5	234.3	238.9	241.5	243.8	244.8	244.9	243.9	241.9
66°	223.2	224.1	225.8	228.4	233.1	236.0	238.1	239.2	239.0	238.2	236.4
66.5°	217.6	218.6	220.0	222.6	227.5	230.2	232.4	233.5	233.4	232.3	230.7
67°	212.2	212.7	214.4	217.1	221.9	224.6	226.8	227.9	227.9	227.0	225.0

TEST NUMBER: P869657
 CATALOG NUMBER: SMX14RLSFS2W-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	206.2	207.2	208.9	211.4	216.3	218.9	221.2	222.4	222.4	221.3	219.4
68°	200.5	201.3	203.2	205.8	210.6	213.5	215.9	216.7	216.8	215.7	214.0
68.5°	194.7	195.6	197.4	200.0	205.1	207.9	210.0	211.1	211.1	210.0	208.5
69°	188.9	189.7	191.6	194.3	199.4	202.1	204.5	205.5	205.5	204.3	202.9
69.5°	183.1	183.9	186.0	188.3	193.7	196.6	198.8	199.8	199.9	198.7	196.8
70°	177.3	178.2	180.1	182.6	188.0	190.7	193.1	194.1	194.2	193.0	191.1
70.5°	171.6	172.5	174.4	177.1	182.5	185.0	187.3	188.5	188.5	187.4	185.4
71°	165.8	166.5	168.6	171.1	176.7	179.6	181.9	182.9	182.9	181.7	179.8
71.5°	159.8	160.8	162.7	165.3	170.8	173.8	176.0	177.1	177.1	175.9	173.9
72°	154.3	155.0	156.9	159.5	164.9	168.0	170.4	171.2	171.4	170.2	168.2
72.5°	148.6	149.4	151.3	153.9	159.3	162.3	164.5	165.7	165.7	164.4	162.5
73°	142.7	143.6	145.6	147.9	153.4	156.4	158.8	159.7	159.8	158.6	156.5
73.5°	136.9	137.7	139.7	142.2	147.9	150.9	153.1	154.1	154.2	153.0	151.0
74°	131.0	132.0	134.0	136.5	142.2	145.1	147.5	148.4	148.5	147.2	145.4
74.5°	125.2	126.2	128.2	130.6	136.4	139.4	141.7	142.7	142.8	141.6	139.5
75°	119.6	120.4	122.5	125.0	130.7	133.5	135.8	136.9	136.9	135.7	133.8
75.5°	113.9	114.8	116.8	119.4	124.9	127.8	130.1	131.2	131.1	130.0	128.0
76°	108.1	109.0	111.1	113.6	119.2	122.1	124.2	125.4	125.5	124.2	122.2
76.5°	102.4	103.5	105.4	107.8	113.6	116.6	118.7	119.6	119.7	118.6	116.4
77°	96.7	97.7	99.8	102.3	107.8	110.7	113.0	114.1	113.9	112.9	111.0
77.5°	91.4	92.4	94.3	96.8	102.2	105.2	107.4	108.3	108.4	107.3	105.2
78°	85.8	86.8	88.7	91.1	96.7	99.6	101.8	102.6	102.7	101.5	99.7
78.5°	80.3	81.3	83.3	85.9	91.0	93.8	96.2	97.1	97.1	96.0	94.0
79°	75.0	76.0	78.0	80.4	85.7	88.3	90.5	91.5	91.5	90.4	88.6
79.5°	69.6	70.5	72.6	75.0	80.2	83.1	85.3	86.1	86.1	85.1	83.0
80°	64.5	65.2	67.3	69.6	74.8	77.7	79.8	80.7	80.8	79.7	77.8
80.5°	59.2	60.2	62.0	64.4	69.6	72.4	74.5	75.4	75.4	74.3	72.2
81°	54.3	55.2	56.9	59.3	64.4	67.0	69.1	70.1	70.1	69.1	67.1
81.5°	49.3	50.4	52.0	54.4	59.3	61.8	63.8	64.8	64.7	63.6	61.8
82°	44.5	45.4	47.2	49.3	54.1	56.8	58.6	59.6	59.7	58.6	56.7
82.5°	40.0	40.8	42.5	44.7	49.3	51.9	53.7	54.6	54.6	53.5	51.8
83°	35.4	36.3	37.9	39.9	44.6	47.1	48.9	50.0	49.8	48.9	47.0
83.5°	31.2	32.0	33.6	35.4	39.9	42.1	44.1	45.1	45.0	43.8	42.2
84°	27.0	27.9	29.4	31.2	35.2	37.7	39.4	40.3	40.3	39.2	37.5
84.5°	23.2	24.0	25.4	27.3	31.0	33.1	34.9	35.8	35.7	34.7	33.2
85°	19.7	20.5	21.8	23.3	26.9	29.0	30.7	31.5	31.4	30.4	29.0
85.5°	16.3	16.8	18.2	19.8	23.0	24.9	26.5	27.2	27.2	26.3	24.8
86°	13.2	13.6	14.9	16.3	19.7	21.2	22.6	23.3	23.2	22.3	21.1
86.5°	9.9	10.5	11.7	13.2	16.4	18.0	19.3	19.9	19.9	19.1	17.7
87°	7.2	7.6	8.6	10.0	13.3	14.8	16.1	16.7	16.7	15.9	14.6
87.5°	5.3	5.4	6.2	7.3	10.4	11.8	13.0	13.5	13.4	12.8	11.6
88°	3.2	3.6	4.2	5.3	7.7	8.9	10.0	10.6	10.5	9.9	8.9
88.5°	1.9	2.2	2.7	3.4	5.3	6.5	7.4	7.8	7.8	7.2	6.3
89°	1.2	1.3	1.6	2.0	3.3	4.4	5.1	5.5	5.4	4.9	4.3
89.5°	0.8	0.7	0.9	1.1	1.9	2.7	3.2	3.5	3.5	3.1	2.4

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



TEST NUMBER: P869657
CATALOG NUMBER: SMX14RLSFSD2W-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: P869657
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	643.2	643.2	643.2	643.2	643.2	643.2
0.5°	643.2	643.8	643.6	643.2	643.4	642.9
1°	643.2	643.8	643.4	643.1	643.2	643.0
1.5°	643.3	643.7	643.3	642.7	642.6	642.8
2°	643.0	643.4	643.0	642.8	642.6	642.6
2.5°	642.7	643.1	642.8	642.4	642.2	642.0
3°	642.4	642.5	642.7	642.2	642.3	641.8
3.5°	642.3	642.3	642.2	641.9	642.0	641.7
4°	642.0	641.9	641.6	641.0	640.8	641.3
4.5°	641.4	641.5	641.5	640.6	640.7	640.6
5°	640.8	641.3	640.7	640.1	639.8	639.8
5.5°	640.6	640.3	640.5	639.7	639.7	639.1
6°	639.9	639.8	639.6	638.9	639.1	638.6
6.5°	639.0	638.8	638.9	638.1	638.3	638.1
7°	638.3	638.2	638.1	637.6	637.7	637.4
7.5°	637.6	637.6	637.4	636.8	637.2	636.8
8°	636.7	636.5	636.5	636.0	636.4	635.8
8.5°	636.1	635.7	635.4	635.1	635.2	634.7
9°	635.4	635.1	634.8	633.9	634.1	633.7
9.5°	634.3	634.1	633.8	632.7	633.0	632.5
10°	633.1	632.8	632.6	632.1	632.0	631.5
10.5°	632.2	631.9	631.5	630.7	630.4	630.3
11°	631.1	630.7	630.4	629.7	629.2	629.6
11.5°	629.8	629.5	629.2	628.4	628.2	627.9
12°	628.6	628.3	627.9	627.2	627.1	626.7
12.5°	627.4	627.1	626.7	625.6	625.5	625.0
13°	625.8	626.0	625.3	624.5	624.3	624.1
13.5°	624.5	624.4	623.8	622.9	622.9	622.4
14°	623.3	622.9	622.7	621.4	621.1	621.2
14.5°	621.5	621.4	621.0	619.9	619.8	619.1
15°	620.1	619.9	619.4	618.3	618.0	618.0
15.5°	618.8	618.3	617.7	616.6	616.5	616.2
16°	616.9	616.7	615.9	614.8	614.8	614.4
16.5°	615.3	615.0	614.1	613.0	612.8	612.8
17°	613.7	613.1	612.3	611.4	611.2	611.2
17.5°	612.2	611.2	610.7	609.6	609.6	609.3
18°	610.1	609.5	608.3	607.6	607.3	607.4
18.5°	608.4	607.8	606.9	605.7	605.7	605.3
19°	606.3	605.7	604.9	603.9	603.4	603.4
19.5°	604.2	603.6	603.1	602.1	601.5	601.2
20°	602.4	601.7	600.8	599.8	599.6	599.2
20.5°	600.4	599.3	598.6	597.5	597.5	597.1
21°	598.0	597.3	596.4	595.4	594.8	595.1
21.5°	595.7	595.1	594.1	593.2	592.7	592.8
22°	593.5	592.8	591.8	590.7	589.9	590.2

TEST NUMBER: P869657
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	591.1	590.3	589.5	588.2	587.9	588.1
23°	588.9	588.3	587.3	585.8	585.4	585.6
23.5°	586.5	585.9	585.1	583.5	583.1	583.1
24°	584.0	583.5	582.2	580.9	580.5	580.6
24.5°	581.8	580.8	579.9	578.2	577.9	577.9
25°	579.5	578.4	577.4	576.2	575.6	575.7
25.5°	576.8	576.0	574.6	573.3	573.0	572.8
26°	574.0	573.4	572.0	571.0	570.2	570.1
26.5°	571.1	570.4	569.2	567.9	567.5	567.4
27°	568.6	567.7	566.6	565.0	564.6	564.9
27.5°	566.2	564.7	563.6	562.3	561.8	561.7
28°	562.8	561.9	561.0	559.0	558.5	558.7
28.5°	560.2	559.2	558.0	556.3	555.4	555.7
29°	557.5	556.2	554.8	553.4	552.6	552.8
29.5°	554.6	553.2	551.9	550.2	549.6	549.4
30°	551.6	550.2	549.2	547.2	546.8	546.5
30.5°	548.4	547.3	546.1	544.4	543.7	543.9
31°	545.6	544.1	542.4	541.3	540.6	540.7
31.5°	542.6	540.5	539.5	538.2	537.4	537.4
32°	539.3	537.8	536.3	534.9	534.0	534.4
32.5°	536.2	534.4	533.3	531.5	530.8	531.1
33°	532.8	531.1	529.9	528.3	527.6	527.6
33.5°	529.5	527.6	526.3	524.9	524.1	523.9
34°	526.1	524.7	522.8	521.3	520.7	520.8
34.5°	523.0	520.9	519.5	517.9	516.9	517.0
35°	519.3	517.6	515.8	514.5	513.7	513.7
35.5°	516.1	514.2	512.8	511.1	510.1	510.2
36°	512.4	510.7	509.1	507.3	506.6	506.7
36.5°	509.1	506.9	505.2	503.5	502.8	503.1
37°	505.2	503.4	501.4	500.3	499.4	499.5
37.5°	502.2	500.0	498.3	496.7	495.7	495.5
38°	498.0	496.0	494.2	492.6	491.6	491.6
38.5°	494.4	492.2	490.4	488.7	488.1	488.1
39°	490.4	488.4	486.5	485.3	484.4	484.3
39.5°	487.0	484.4	482.9	481.2	480.5	480.6
40°	482.8	481.0	479.2	477.4	476.7	476.6
40.5°	479.4	477.1	475.1	473.5	472.9	472.4
41°	475.1	473.1	470.9	469.5	468.7	468.5
41.5°	471.6	469.0	467.0	465.4	464.4	464.5
42°	467.4	464.9	463.0	461.1	460.5	460.4
42.5°	463.3	460.8	459.0	457.1	456.3	456.1
43°	459.3	456.5	454.8	453.0	452.2	451.9
43.5°	455.2	452.5	451.0	448.8	448.1	448.0
44°	450.9	448.5	446.5	444.5	443.8	444.0
44.5°	446.9	444.2	442.3	440.4	439.4	439.3

TEST NUMBER: P869657
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	442.6	439.9	437.9	436.2	435.3	435.2
45.5°	438.3	435.5	433.7	431.5	431.1	431.1
46°	434.0	431.5	429.2	427.5	426.5	426.5
46.5°	429.7	426.7	424.8	423.1	421.8	422.2
47°	425.4	422.6	420.3	418.7	417.4	417.7
47.5°	420.9	418.0	415.9	414.3	413.0	413.3
48°	416.4	413.5	411.5	409.8	408.7	408.7
48.5°	412.2	409.1	407.0	405.2	404.4	404.2
49°	407.7	404.7	402.4	400.5	399.8	399.8
49.5°	402.9	400.0	397.9	395.9	394.8	395.1
50°	398.4	395.1	393.0	391.3	390.3	390.1
50.5°	393.6	390.5	388.5	386.7	385.7	385.5
51°	389.0	386.0	383.7	381.8	381.1	380.8
51.5°	384.7	381.3	379.1	377.1	376.1	376.0
52°	379.8	376.5	374.4	372.5	371.2	371.1
52.5°	374.9	371.5	369.5	367.6	366.5	366.2
53°	370.1	366.8	364.7	362.6	361.4	361.5
53.5°	365.3	361.9	359.6	357.5	356.5	356.6
54°	360.3	356.8	354.8	352.8	351.5	351.6
54.5°	355.6	352.0	349.9	347.9	346.9	346.8
55°	350.7	347.3	344.8	342.9	341.9	341.8
55.5°	345.8	342.0	339.7	338.0	336.8	336.7
56°	340.8	336.9	334.9	332.8	331.6	331.6
56.5°	335.7	332.0	329.5	327.5	326.7	326.3
57°	330.6	326.9	324.5	322.3	321.2	321.1
57.5°	325.5	321.6	319.2	317.1	316.0	316.0
58°	320.3	316.4	314.0	311.9	310.9	311.0
58.5°	315.3	311.3	308.8	306.6	305.5	305.6
59°	310.1	305.9	303.3	301.2	300.3	300.3
59.5°	304.6	300.8	298.3	295.7	294.7	294.8
60°	299.4	295.2	292.7	290.5	289.5	289.4
60.5°	294.1	289.9	287.4	285.0	284.2	284.3
61°	288.7	284.6	282.1	280.0	278.8	279.1
61.5°	283.5	279.2	276.7	274.5	273.4	273.4
62°	278.3	273.7	271.3	269.0	267.9	267.8
62.5°	272.8	268.1	265.7	263.2	262.2	262.2
63°	267.3	262.7	260.1	257.9	256.9	256.7
63.5°	261.8	257.0	254.6	252.5	251.3	251.2
64°	256.3	251.6	249.1	247.0	245.9	245.5
64.5°	250.8	246.2	243.6	241.5	240.2	240.2
65°	245.4	240.6	237.9	235.8	234.6	234.6
65.5°	239.9	234.9	232.4	230.1	229.1	228.9
66°	234.1	229.4	226.7	224.1	223.2	223.2
66.5°	228.4	223.6	220.9	218.6	217.6	217.6
67°	222.9	218.2	215.3	213.1	211.9	212.2

TEST NUMBER: P869657
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	217.6	212.3	209.5	207.6	206.0	206.2
68°	211.8	206.7	203.7	201.6	200.5	200.5
68.5°	206.0	200.9	198.0	195.7	194.6	194.7
69°	200.2	195.1	192.2	190.2	188.7	188.9
69.5°	194.6	189.4	186.5	184.2	183.0	183.1
70°	189.0	183.6	180.9	178.4	177.6	177.3
70.5°	183.1	177.8	175.0	172.9	171.7	171.6
71°	177.4	171.8	169.2	166.9	165.7	165.8
71.5°	171.7	166.1	163.4	161.1	159.7	159.8
72°	165.9	160.4	157.7	155.3	154.3	154.3
72.5°	160.2	154.7	152.0	149.6	148.5	148.6
73°	154.2	148.8	146.0	143.7	142.8	142.7
73.5°	148.6	143.0	140.3	138.0	136.7	136.9
74°	142.9	137.4	134.4	132.2	131.0	131.0
74.5°	137.1	131.5	128.8	126.3	125.1	125.2
75°	131.2	125.7	123.0	120.7	119.7	119.6
75.5°	125.5	120.0	117.3	114.9	113.6	113.9
76°	119.7	114.1	111.5	109.2	108.1	108.1
76.5°	114.1	108.5	105.6	103.5	102.5	102.4
77°	108.4	103.0	100.2	98.0	96.7	96.7
77.5°	102.7	97.4	94.6	92.5	91.4	91.4
78°	97.1	91.6	89.0	87.0	85.8	85.8
78.5°	91.5	86.2	83.7	81.5	80.5	80.3
79°	86.1	80.8	78.2	76.1	75.1	75.0
79.5°	80.6	75.3	72.8	70.6	69.6	69.6
80°	75.3	69.9	67.3	65.3	64.3	64.5
80.5°	70.0	64.8	62.3	60.1	59.1	59.2
81°	64.7	59.5	57.0	55.2	54.3	54.3
81.5°	59.5	54.7	52.3	50.2	49.3	49.3
82°	54.4	49.7	47.3	45.4	44.5	44.5
82.5°	49.7	45.1	42.7	40.9	40.0	40.0
83°	44.8	40.2	38.1	36.3	35.5	35.4
83.5°	40.0	35.8	33.7	32.0	31.1	31.2
84°	35.4	31.5	29.4	27.8	27.0	27.0
84.5°	31.2	27.4	25.6	24.0	23.2	23.2
85°	27.0	23.5	21.8	20.5	19.8	19.7
85.5°	23.1	20.1	18.3	17.0	16.3	16.3
86°	19.6	16.6	15.0	13.7	13.1	13.2
86.5°	16.4	13.3	11.7	10.4	9.9	9.9
87°	13.3	10.2	8.7	7.7	7.1	7.2
87.5°	10.3	7.4	6.3	5.5	5.2	5.3
88°	7.7	5.3	4.4	3.6	3.3	3.2
88.5°	5.3	3.4	2.8	2.3	2.0	1.9
89°	3.4	2.2	1.7	1.3	1.1	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: P869657
CATALOG NUMBER: SMX14RLSFSD2W-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)