

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: P869641

Luminaire Tested: **SMX14RLSFS010-1600LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869641  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX14RLSFS010-1600LM-2700K  
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT  
 Ballast/Driver: -

**Summary**

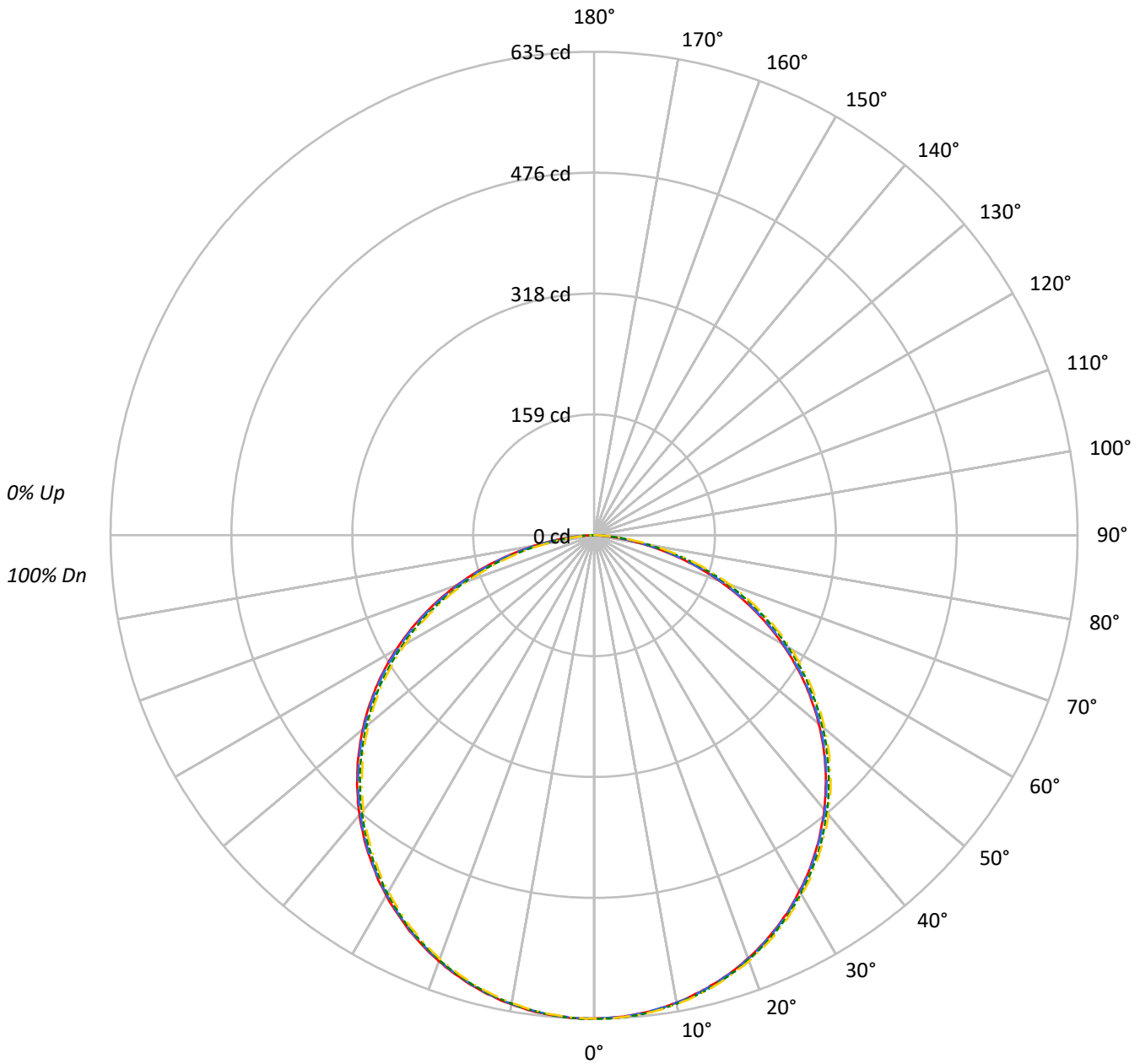
Lumens per Lamp: N/A  
 Luminaire Lumens: 1858.8 lumens  
 Efficiency: N/A  
 Efficacy: 90.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Circular (Dia: 1.17' x H: 0')  
 CIE Type: Direct

Input Watts (W): 20.6  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	52	52	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	25	25	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6388	6388	6388	6388
5°	6379	6395	6393	6393
10°	6369	6386	6390	6381
15°	6354	6374	6387	6375
20°	6333	6354	6378	6359
25°	6309	6338	6368	6339
30°	6268	6313	6346	6310
35°	6228	6285	6322	6276
40°	6179	6246	6295	6236
45°	6112	6201	6259	6178
50°	6027	6134	6214	6106
55°	5918	6053	6141	6013
60°	5748	5925	6034	5865
65°	5512	5743	5881	5655
70°	5149	5458	5640	5331
75°	4588	5016	5253	4825
80°	3686	4277	4625	3999
85°	2252	3060	3579	2679

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.1	3.2
10°-20°	172.6	9.3
20°-30°	263.0	14.1
30°-40°	319.7	17.2
40°-50°	335.3	18.0
50°-60°	306.9	16.5
60°-70°	236.3	12.7
70°-80°	133.7	7.2
80°-90°	31.2	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<b>0°-30°</b>	<b>495.7</b>	<b>26.7</b>
<b>0°-40°</b>	<b>815.4</b>	<b>43.9</b>
<b>0°-60°</b>	<b>1457.6</b>	<b>78.4</b>
<b>0°-90°</b>	<b>1858.8</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>1858.8</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	635	635	635	635	635	
5°	632	633	633	633	632	60
15°	610	612	613	612	610	172
25°	568	571	574	571	568	262
35°	507	512	515	511	507	317
45°	430	436	440	434	430	331
55°	337	345	350	343	337	301
65°	232	241	247	238	232	229
75°	118	129	135	124	118	125
85°	20	26	31	23	20	25
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°	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8
0.5°	634.5	634.4	634.4	635.1	635.2	635.5	635.0	634.8	634.6	634.4	634.6
1°	634.6	634.0	634.3	635.2	635.2	635.2	635.0	634.6	634.9	634.5	634.3
1.5°	634.4	634.2	634.1	634.6	635.1	635.2	635.0	634.8	635.1	634.2	634.4
2°	634.2	633.6	633.9	634.2	635.2	635.0	634.7	634.8	634.9	634.0	634.4
2.5°	633.6	633.6	634.0	634.4	634.7	634.8	634.5	634.5	634.7	634.0	634.1
3°	633.4	633.2	633.6	633.9	634.4	634.5	634.1	634.2	634.4	634.0	633.9
3.5°	633.3	632.9	633.4	633.6	634.4	634.4	634.0	634.0	633.9	633.7	633.6
4°	632.9	632.5	632.9	633.2	633.9	633.9	633.6	633.6	633.4	633.5	633.6
4.5°	632.2	631.8	632.4	632.5	633.3	633.5	633.2	633.3	633.1	633.1	632.8
5°	631.5	631.0	631.8	632.5	633.1	632.8	632.8	632.9	632.9	632.5	632.5
5.5°	630.8	630.5	631.3	631.3	632.3	632.4	632.2	632.2	632.3	632.2	632.1
6°	630.3	629.8	630.6	630.6	631.8	631.7	631.7	631.7	631.8	631.7	631.3
6.5°	629.8	629.3	630.1	630.1	631.0	631.1	631.4	631.3	631.2	631.2	630.7
7°	629.1	628.6	628.9	629.3	630.3	630.1	630.7	630.5	630.8	630.5	629.9
7.5°	628.5	627.8	628.0	628.5	629.4	629.3	629.8	629.7	630.3	629.7	629.0
8°	627.5	627.1	627.0	627.8	628.5	628.5	629.1	629.1	629.4	629.1	628.7
8.5°	626.5	626.1	626.6	627.0	627.8	627.6	628.0	628.0	628.1	628.1	627.7
9°	625.4	625.3	625.6	625.9	626.7	627.2	627.6	627.2	627.3	626.9	627.0
9.5°	624.2	624.1	624.5	625.1	625.8	625.8	626.3	626.2	626.6	626.3	625.8
10°	623.3	623.2	623.2	624.2	624.9	624.9	625.4	625.4	625.3	625.6	625.1
10.5°	622.1	622.2	622.5	623.0	623.8	624.0	624.1	624.5	624.6	624.5	624.0
11°	621.4	620.8	621.4	622.1	622.6	622.8	623.0	623.3	623.7	623.2	623.0
11.5°	619.8	619.5	620.6	620.6	621.5	621.5	622.3	622.2	622.6	621.9	621.7
12°	618.5	618.4	619.0	619.4	620.6	620.4	621.1	621.0	621.4	620.9	620.6
12.5°	616.9	617.3	617.7	618.2	619.0	619.4	619.5	620.1	619.7	620.0	619.4
13°	615.9	615.9	616.2	616.4	617.6	618.2	618.5	618.7	618.9	618.6	618.3
13.5°	614.3	614.3	615.0	615.4	616.3	616.8	617.1	617.4	617.6	616.9	617.0
14°	613.1	612.8	613.4	614.0	614.9	615.3	615.7	615.7	616.2	615.6	615.3
14.5°	611.1	611.2	611.8	612.8	613.3	613.7	614.4	614.6	614.7	614.6	613.9
15°	609.9	609.5	610.5	610.6	611.8	612.2	612.7	613.4	613.1	612.8	612.7
15.5°	608.2	607.9	608.5	609.1	610.1	610.5	611.1	611.6	611.8	611.3	610.8
16°	606.4	606.6	606.7	607.7	608.5	608.9	609.5	609.5	610.2	609.5	608.9
16.5°	604.8	605.0	605.0	605.9	606.6	607.1	607.9	607.9	608.4	608.1	607.4
17°	603.2	603.3	603.7	604.3	605.0	605.2	606.3	606.3	606.4	606.7	605.8
17.5°	601.3	601.4	602.0	602.8	603.1	603.9	604.7	604.7	605.0	604.5	604.3
18°	599.5	599.4	600.0	600.8	601.6	602.1	602.8	603.1	603.2	603.0	602.3
18.5°	597.4	597.2	598.1	598.5	599.5	600.2	600.7	601.1	601.2	601.2	600.6
19°	595.5	595.3	596.3	596.5	597.3	598.3	598.8	599.1	599.6	599.1	598.4
19.5°	593.3	593.4	594.1	594.9	595.6	596.0	597.2	597.2	597.2	597.5	596.5
20°	591.4	591.3	592.1	592.7	593.3	594.4	595.2	595.6	595.6	595.4	594.7
20.5°	589.3	589.0	589.8	590.9	591.3	592.3	593.1	593.6	593.3	593.4	592.8
21°	587.3	587.1	587.6	588.4	589.3	589.9	591.0	591.5	591.5	591.3	590.4
21.5°	585.0	584.7	585.6	586.4	587.3	588.1	588.9	589.4	589.6	589.0	588.4
22°	582.5	582.8	583.5	583.9	584.7	585.8	586.9	587.2	587.3	586.7	586.1

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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°	580.4	580.2	581.0	581.6	582.7	583.5	584.4	584.9	585.1	584.6	584.1
23°	578.0	577.8	578.3	579.6	580.4	581.1	582.3	583.0	582.5	582.5	581.6
23.5°	575.4	575.4	575.8	577.0	577.9	578.6	580.1	580.2	580.2	580.4	579.1
24°	573.1	573.1	573.8	574.5	575.7	576.6	577.8	578.0	577.9	578.1	576.9
24.5°	570.3	570.7	571.1	572.1	573.4	573.9	575.2	575.7	575.7	575.3	574.6
25°	568.2	567.9	568.8	569.5	570.8	571.5	572.8	573.2	573.5	573.2	571.9
25.5°	565.3	565.6	566.0	566.9	567.9	569.1	570.3	570.9	570.7	570.6	569.5
26°	562.7	563.1	563.3	564.4	565.6	566.8	567.5	568.2	567.9	568.2	567.1
26.5°	560.0	560.0	560.4	561.7	562.9	563.9	565.2	565.5	565.3	565.3	564.3
27°	557.6	557.4	558.0	558.7	560.7	561.1	562.5	563.2	562.7	562.8	561.4
27.5°	554.4	554.5	555.3	555.9	557.7	558.4	559.6	560.2	560.1	560.1	558.9
28°	551.4	551.7	552.5	553.3	554.6	556.0	557.1	557.6	557.4	557.3	556.1
28.5°	548.5	548.7	549.3	550.1	552.0	552.9	554.2	554.6	554.6	554.3	553.3
29°	545.6	546.1	546.5	547.4	549.0	550.1	551.6	552.0	552.0	551.5	550.6
29.5°	542.2	542.6	543.5	544.6	546.4	547.1	548.7	549.1	549.3	549.0	547.7
30°	539.4	539.7	540.4	541.7	543.3	544.3	545.8	546.2	546.1	546.1	544.6
30.5°	536.8	536.8	537.8	538.8	540.5	541.3	542.6	543.3	543.1	543.2	541.8
31°	533.6	534.2	534.3	535.5	537.8	538.2	539.6	540.7	540.1	540.2	539.0
31.5°	530.4	530.6	531.4	532.6	534.3	535.5	536.8	537.3	537.3	537.4	536.0
32°	527.5	527.6	528.3	529.5	531.2	532.3	534.1	534.4	534.5	534.5	532.8
32.5°	524.2	524.5	524.7	525.9	527.8	529.1	530.7	531.6	531.0	531.0	529.9
33°	520.7	521.4	521.5	522.8	524.8	525.6	527.5	528.2	527.5	527.9	526.7
33.5°	517.1	517.8	518.4	519.6	521.4	522.4	524.0	525.2	524.5	524.5	523.4
34°	514.0	514.5	514.8	516.4	518.4	519.4	520.8	521.9	521.2	521.3	520.0
34.5°	510.3	510.9	511.7	512.9	515.0	516.1	517.6	518.6	517.9	518.0	516.8
35°	507.0	507.6	508.3	509.3	511.6	512.6	514.4	514.9	514.6	514.6	513.6
35.5°	503.5	503.8	504.8	505.8	508.1	509.3	510.7	511.5	511.5	511.4	510.2
36°	500.1	500.3	501.0	502.3	504.7	506.0	507.7	508.2	508.2	507.8	506.7
36.5°	496.6	496.7	497.8	498.9	501.5	502.2	504.2	504.8	504.8	504.9	503.1
37°	493.0	493.1	493.9	495.3	497.8	499.0	500.6	501.5	501.2	501.2	499.9
37.5°	489.0	489.5	490.3	491.7	493.9	495.3	497.0	497.7	497.5	497.5	496.3
38°	485.2	486.0	486.8	487.9	490.4	492.0	493.7	494.2	493.8	493.6	492.8
38.5°	481.7	482.2	482.8	484.0	486.8	488.1	489.9	490.5	490.5	490.1	489.1
39°	478.0	478.1	479.2	480.4	482.8	484.3	486.3	487.1	486.8	486.5	485.2
39.5°	474.3	474.3	475.4	476.8	479.0	480.8	482.8	483.3	483.1	482.8	481.2
40°	470.4	470.9	471.7	473.1	475.5	477.2	478.6	479.6	479.2	479.2	477.5
40.5°	466.2	466.8	467.9	469.3	471.7	473.3	474.9	475.8	475.6	475.3	473.8
41°	462.4	463.2	463.9	465.5	468.0	469.7	471.1	472.1	472.0	471.5	470.1
41.5°	458.4	459.0	459.9	461.7	464.2	465.8	467.4	468.0	468.1	467.5	466.1
42°	454.4	455.1	455.7	457.6	460.1	461.8	463.3	464.1	463.9	463.6	462.3
42.5°	450.2	451.1	451.6	453.5	456.2	457.6	459.4	460.2	460.0	459.9	458.3
43°	446.0	446.8	447.6	449.4	452.1	453.8	455.5	456.5	456.0	455.7	454.4
43.5°	442.1	442.8	443.6	445.4	447.8	449.6	451.2	452.5	452.1	451.5	450.3
44°	438.2	438.5	439.3	441.1	443.8	445.6	447.4	448.2	448.0	447.6	446.4
44.5°	433.6	434.1	435.3	437.0	439.8	441.6	443.1	443.9	443.8	443.4	442.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	429.5	429.9	431.1	432.9	435.7	437.3	439.0	439.9	439.8	439.5	438.0
45.5°	425.4	425.5	426.8	428.6	431.4	433.0	434.9	435.4	435.7	435.2	433.7
46°	421.0	421.4	422.3	424.4	427.0	428.8	430.7	431.4	431.6	431.2	429.7
46.5°	416.7	417.0	417.9	419.8	422.6	424.6	426.5	427.0	427.1	426.8	425.3
47°	412.3	412.7	413.8	415.7	418.3	420.2	422.2	422.8	422.9	422.3	420.9
47.5°	408.0	408.1	409.6	411.3	414.1	415.9	417.8	418.6	418.5	418.2	416.7
48°	403.4	403.7	405.2	406.8	409.8	411.5	413.5	414.3	414.3	413.7	412.6
48.5°	398.9	399.3	400.6	402.4	405.4	407.2	409.1	410.0	410.0	409.4	408.1
49°	394.5	394.7	396.1	397.9	400.9	402.6	404.8	405.6	405.6	405.0	403.7
49.5°	389.9	390.2	391.5	393.5	396.3	398.2	400.2	400.9	401.2	400.7	399.3
50°	385.0	385.5	386.9	388.8	391.8	393.9	396.0	396.7	396.9	396.3	394.5
50.5°	380.5	380.8	382.3	384.4	387.2	389.4	391.3	392.1	392.1	391.6	390.0
51°	375.9	376.2	377.5	379.6	382.8	384.7	386.6	387.6	387.7	386.8	385.6
51.5°	371.1	371.6	372.9	375.0	378.0	380.2	382.1	383.0	383.0	382.3	380.8
52°	366.3	366.8	368.0	370.3	373.6	375.5	377.7	378.7	378.3	377.6	376.4
52.5°	361.4	362.1	363.5	365.5	368.8	370.8	372.9	373.9	373.5	373.0	371.5
53°	356.8	357.3	358.9	360.8	364.0	366.1	368.2	369.2	369.0	368.4	366.8
53.5°	351.9	352.2	353.9	355.8	359.4	361.5	363.2	364.4	364.1	363.6	362.2
54°	347.0	347.1	348.8	350.9	354.6	356.5	358.6	359.7	359.3	359.1	357.3
54.5°	342.3	342.7	344.1	346.0	349.6	351.8	353.9	354.7	354.6	354.1	352.3
55°	337.3	337.8	339.2	341.5	345.0	347.1	349.2	350.3	350.0	349.4	347.6
55.5°	332.4	332.6	334.3	336.3	340.1	342.3	344.2	345.4	345.2	344.4	343.0
56°	327.3	327.6	329.2	331.4	335.3	337.2	339.6	340.7	340.3	339.5	337.9
56.5°	322.1	322.6	324.4	326.2	330.2	332.3	334.4	335.4	335.5	334.3	333.2
57°	316.9	317.6	319.1	321.0	325.1	327.5	329.6	330.8	330.4	329.6	328.1
57.5°	311.8	312.3	313.9	316.0	320.1	322.2	324.4	325.4	325.4	324.6	323.0
58°	307.0	307.3	308.7	311.0	315.0	317.3	319.6	320.5	320.2	319.4	318.0
58.5°	301.6	301.9	303.7	305.8	309.9	312.2	314.3	315.4	315.5	314.3	313.0
59°	296.3	297.0	298.4	300.7	304.9	307.1	309.3	310.3	310.4	309.0	307.7
59.5°	290.9	291.6	293.2	295.4	299.6	302.0	304.1	305.2	305.0	304.2	302.6
60°	285.6	286.3	288.1	290.4	294.4	296.8	299.0	300.0	299.8	298.9	297.3
60.5°	280.6	281.0	282.5	284.9	288.9	291.7	293.8	294.8	294.7	293.8	292.1
61°	275.4	275.9	277.4	280.0	283.7	286.4	288.7	289.6	289.4	288.4	287.2
61.5°	269.8	270.4	272.1	274.6	278.5	281.2	283.2	284.3	284.4	283.3	281.8
62°	264.3	265.1	266.8	269.0	273.6	276.1	278.1	279.2	279.1	278.1	276.6
62.5°	258.7	259.6	261.1	263.5	268.2	270.8	273.0	273.9	273.8	272.8	271.2
63°	253.4	254.3	255.8	258.3	262.7	265.5	267.5	268.6	268.5	267.5	265.9
63.5°	248.0	248.8	250.4	252.8	257.3	260.0	262.3	263.2	263.2	262.2	260.5
64°	242.3	243.3	245.0	247.4	251.8	254.8	256.7	257.6	257.7	256.7	255.2
64.5°	237.1	237.9	239.5	242.0	246.5	249.1	251.4	252.3	252.3	251.3	249.5
65°	231.5	232.3	234.2	236.6	241.2	243.9	246.2	247.0	247.0	246.1	244.5
65.5°	225.9	226.9	228.5	231.2	235.8	238.4	240.6	241.6	241.7	240.7	238.7
66°	220.3	221.1	222.8	225.4	230.1	232.9	235.0	236.1	235.9	235.1	233.3
66.5°	214.8	215.7	217.2	219.7	224.6	227.2	229.4	230.5	230.3	229.3	227.7
67°	209.4	210.0	211.6	214.3	219.0	221.7	223.9	225.0	224.9	224.0	222.0



TEST NUMBER: P869641  
 CATALOG NUMBER: SMX14RLSFS010-1600LM-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	203.5	204.5	206.2	208.7	213.5	216.0	218.3	219.5	219.5	218.4	216.5
68°	197.9	198.6	200.5	203.1	207.9	210.7	213.1	213.9	214.0	212.8	211.2
68.5°	192.2	193.0	194.8	197.4	202.5	205.2	207.3	208.4	208.4	207.3	205.7
69°	186.4	187.2	189.1	191.8	196.8	199.5	201.8	202.8	202.8	201.7	200.2
69.5°	180.7	181.5	183.5	185.9	191.2	194.1	196.2	197.2	197.3	196.1	194.2
70°	175.0	175.9	177.8	180.3	185.5	188.3	190.6	191.5	191.7	190.5	188.6
70.5°	169.4	170.2	172.1	174.8	180.1	182.6	184.9	186.0	186.0	185.0	183.0
71°	163.7	164.3	166.4	168.9	174.4	177.2	179.5	180.5	180.5	179.3	177.5
71.5°	157.8	158.7	160.5	163.1	168.6	171.6	173.7	174.8	174.8	173.6	171.6
72°	152.2	153.0	154.9	157.4	162.8	165.8	168.2	169.0	169.2	168.0	166.0
72.5°	146.7	147.5	149.4	151.9	157.2	160.1	162.4	163.5	163.6	162.3	160.4
73°	140.8	141.7	143.7	146.0	151.4	154.4	156.7	157.6	157.8	156.6	154.5
73.5°	135.1	135.9	137.9	140.3	146.0	148.9	151.1	152.1	152.2	151.0	149.1
74°	129.3	130.3	132.2	134.7	140.3	143.2	145.6	146.4	146.6	145.3	143.5
74.5°	123.6	124.5	126.5	128.9	134.6	137.6	139.9	140.8	140.9	139.8	137.6
75°	118.0	118.9	120.9	123.3	129.0	131.8	134.0	135.1	135.1	134.0	132.0
75.5°	112.4	113.3	115.3	117.8	123.3	126.1	128.4	129.5	129.4	128.3	126.3
76°	106.7	107.6	109.6	112.1	117.6	120.5	122.6	123.7	123.9	122.6	120.6
76.5°	101.1	102.1	104.0	106.4	112.1	115.0	117.1	118.1	118.2	117.0	114.9
77°	95.5	96.4	98.5	101.0	106.4	109.3	111.5	112.6	112.4	111.4	109.5
77.5°	90.2	91.2	93.1	95.6	100.9	103.8	106.0	106.9	107.0	105.9	103.9
78°	84.7	85.7	87.6	89.9	95.4	98.3	100.5	101.3	101.4	100.2	98.4
78.5°	79.3	80.2	82.2	84.8	89.8	92.6	94.9	95.8	95.9	94.8	92.8
79°	74.0	75.0	77.0	79.4	84.6	87.2	89.3	90.3	90.3	89.3	87.4
79.5°	68.7	69.6	71.6	74.0	79.2	82.0	84.1	85.0	85.0	84.0	81.9
80°	63.6	64.3	66.4	68.7	73.8	76.6	78.7	79.7	79.8	78.6	76.8
80.5°	58.4	59.4	61.2	63.5	68.7	71.5	73.5	74.4	74.4	73.3	71.3
81°	53.6	54.4	56.2	58.5	63.5	66.1	68.2	69.2	69.2	68.2	66.3
81.5°	48.7	49.7	51.3	53.6	58.5	61.0	63.0	63.9	63.9	62.8	61.0
82°	43.9	44.8	46.5	48.6	53.4	56.0	57.9	58.8	58.9	57.8	56.0
82.5°	39.4	40.3	42.0	44.1	48.7	51.2	53.0	53.9	53.9	52.9	51.1
83°	35.0	35.8	37.4	39.4	44.0	46.5	48.3	49.3	49.2	48.2	46.4
83.5°	30.8	31.5	33.1	35.0	39.4	41.6	43.5	44.5	44.4	43.3	41.7
84°	26.7	27.5	29.1	30.8	34.7	37.2	38.9	39.8	39.8	38.6	37.0
84.5°	22.9	23.7	25.1	26.9	30.6	32.7	34.5	35.3	35.2	34.2	32.7
85°	19.5	20.2	21.6	23.0	26.5	28.6	30.3	31.1	31.0	30.0	28.7
85.5°	16.0	16.6	18.0	19.6	22.7	24.6	26.1	26.8	26.8	25.9	24.5
86°	13.0	13.4	14.7	16.1	19.4	20.9	22.3	23.0	22.9	22.0	20.8
86.5°	9.8	10.4	11.6	13.0	16.2	17.7	19.0	19.6	19.6	18.8	17.5
87°	7.1	7.5	8.5	9.9	13.1	14.6	15.9	16.5	16.4	15.7	14.5
87.5°	5.2	5.3	6.1	7.2	10.2	11.7	12.9	13.3	13.3	12.6	11.5
88°	3.2	3.6	4.2	5.2	7.6	8.8	9.9	10.5	10.4	9.7	8.8
88.5°	1.9	2.2	2.6	3.4	5.3	6.4	7.3	7.7	7.7	7.1	6.2
89°	1.2	1.3	1.6	2.0	3.3	4.3	5.0	5.4	5.3	4.9	4.2
89.5°	0.8	0.7	0.9	1.1	1.8	2.6	3.1	3.4	3.4	3.0	2.4

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



TEST NUMBER: P869641  
CATALOG NUMBER: SMX14RLSFS010-1600LM-2700K

**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: P869641  
 CATALOG NUMBER: SMX14RLSFS010-1600LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	634.8	634.8	634.8	634.8	634.8	634.8
0.5°	634.8	635.4	635.2	634.8	635.0	634.5
1°	634.8	635.4	635.0	634.7	634.8	634.6
1.5°	634.9	635.3	634.9	634.3	634.2	634.4
2°	634.6	635.0	634.6	634.4	634.2	634.2
2.5°	634.3	634.7	634.4	634.0	633.8	633.6
3°	634.0	634.1	634.3	633.8	633.9	633.4
3.5°	634.0	634.0	633.8	633.5	633.6	633.3
4°	633.6	633.6	633.2	632.6	632.5	632.9
4.5°	633.0	633.2	633.1	632.2	632.4	632.2
5°	632.5	632.9	632.4	631.7	631.4	631.5
5.5°	632.3	632.0	632.1	631.3	631.3	630.8
6°	631.6	631.4	631.3	630.6	630.8	630.3
6.5°	630.7	630.5	630.5	629.8	630.0	629.8
7°	630.0	629.9	629.8	629.3	629.3	629.1
7.5°	629.3	629.3	629.1	628.5	628.9	628.5
8°	628.4	628.2	628.2	627.7	628.1	627.5
8.5°	627.8	627.4	627.1	626.8	626.9	626.5
9°	627.1	626.8	626.5	625.6	625.8	625.4
9.5°	626.1	625.8	625.5	624.5	624.8	624.2
10°	624.9	624.5	624.3	623.8	623.7	623.3
10.5°	623.9	623.7	623.3	622.5	622.2	622.1
11°	622.9	622.5	622.2	621.5	621.0	621.4
11.5°	621.6	621.3	621.0	620.2	620.0	619.8
12°	620.4	620.1	619.7	619.0	619.0	618.5
12.5°	619.2	619.0	618.6	617.4	617.4	616.9
13°	617.7	617.8	617.1	616.3	616.2	615.9
13.5°	616.3	616.2	615.7	614.8	614.8	614.3
14°	615.1	614.7	614.6	613.3	613.0	613.1
14.5°	613.4	613.3	612.9	611.9	611.7	611.1
15°	612.0	611.9	611.3	610.3	609.9	609.9
15.5°	610.7	610.3	609.6	608.6	608.4	608.2
16°	608.9	608.7	607.9	606.8	606.7	606.4
16.5°	607.3	607.0	606.1	605.0	604.8	604.8
17°	605.7	605.1	604.3	603.5	603.2	603.2
17.5°	604.2	603.2	602.8	601.6	601.6	601.3
18°	602.1	601.6	600.4	599.7	599.4	599.5
18.5°	600.4	599.9	599.0	597.8	597.8	597.4
19°	598.4	597.8	597.0	596.0	595.6	595.5
19.5°	596.4	595.7	595.2	594.2	593.7	593.3
20°	594.5	593.8	592.9	592.0	591.7	591.4
20.5°	592.5	591.5	590.8	589.7	589.7	589.3
21°	590.2	589.5	588.6	587.7	587.0	587.3
21.5°	587.9	587.3	586.4	585.4	584.9	585.0
22°	585.7	585.1	584.1	583.0	582.2	582.5

TEST NUMBER: P869641  
 CATALOG NUMBER: SMX14RLSFS010-1600LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	583.4	582.6	581.8	580.6	580.2	580.4
23°	581.2	580.6	579.6	578.2	577.8	578.0
23.5°	578.8	578.2	577.4	575.8	575.5	575.4
24°	576.4	575.8	574.7	573.3	572.9	573.1
24.5°	574.3	573.2	572.3	570.7	570.3	570.3
25°	571.9	570.9	569.9	568.7	568.1	568.2
25.5°	569.3	568.5	567.1	565.9	565.5	565.3
26°	566.5	565.9	564.5	563.6	562.8	562.7
26.5°	563.6	562.9	561.8	560.5	560.1	560.0
27°	561.2	560.3	559.2	557.6	557.2	557.6
27.5°	558.8	557.3	556.3	555.0	554.5	554.4
28°	555.5	554.6	553.7	551.7	551.2	551.4
28.5°	552.9	551.9	550.7	549.0	548.1	548.5
29°	550.2	548.9	547.6	546.1	545.4	545.6
29.5°	547.3	546.0	544.7	543.0	542.5	542.2
30°	544.4	543.0	542.0	540.1	539.7	539.4
30.5°	541.3	540.2	539.0	537.3	536.6	536.8
31°	538.5	537.0	535.4	534.3	533.5	533.6
31.5°	535.5	533.5	532.5	531.2	530.4	530.4
32°	532.3	530.7	529.3	527.9	527.0	527.5
32.5°	529.2	527.5	526.4	524.6	523.9	524.2
33°	525.9	524.2	523.0	521.4	520.7	520.7
33.5°	522.6	520.8	519.5	518.0	517.2	517.1
34°	519.2	517.8	516.0	514.5	513.9	514.0
34.5°	516.2	514.1	512.7	511.1	510.1	510.3
35°	512.5	510.9	509.0	507.7	507.0	507.0
35.5°	509.3	507.5	506.2	504.4	503.4	503.5
36°	505.7	504.1	502.5	500.6	500.0	500.1
36.5°	502.5	500.2	498.6	497.0	496.3	496.6
37°	498.6	496.8	494.8	493.8	492.9	493.0
37.5°	495.6	493.5	491.8	490.3	489.2	489.0
38°	491.5	489.5	487.8	486.2	485.2	485.2
38.5°	487.9	485.8	484.0	482.4	481.7	481.7
39°	484.0	482.0	480.1	478.9	478.1	478.0
39.5°	480.6	478.1	476.6	474.9	474.2	474.3
40°	476.5	474.7	472.9	471.2	470.5	470.4
40.5°	473.1	470.9	468.9	467.4	466.7	466.2
41°	468.9	467.0	464.8	463.4	462.6	462.4
41.5°	465.4	462.9	460.9	459.3	458.3	458.4
42°	461.3	458.8	457.0	455.1	454.5	454.4
42.5°	457.2	454.8	453.0	451.1	450.3	450.2
43°	453.3	450.6	448.9	447.1	446.3	446.0
43.5°	449.2	446.6	445.1	442.9	442.3	442.1
44°	445.0	442.6	440.7	438.7	438.0	438.2
44.5°	441.1	438.4	436.5	434.6	433.7	433.6

TEST NUMBER: P869641  
 CATALOG NUMBER: SMX14RLSFS010-1600LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	436.9	434.1	432.2	430.5	429.6	429.5
45.5°	432.6	429.8	428.0	425.9	425.5	425.4
46°	428.3	425.8	423.6	421.9	421.0	421.0
46.5°	424.1	421.1	419.3	417.5	416.3	416.7
47°	419.9	417.1	414.8	413.2	411.9	412.3
47.5°	415.4	412.6	410.4	408.9	407.6	408.0
48°	411.0	408.1	406.1	404.4	403.3	403.4
48.5°	406.8	403.7	401.6	399.9	399.2	398.9
49°	402.4	399.4	397.2	395.3	394.5	394.5
49.5°	397.7	394.8	392.7	390.7	389.7	389.9
50°	393.2	390.0	387.9	386.2	385.2	385.0
50.5°	388.5	385.4	383.4	381.6	380.7	380.5
51°	383.9	381.0	378.7	376.8	376.1	375.9
51.5°	379.7	376.3	374.2	372.2	371.2	371.1
52°	374.8	371.6	369.6	367.6	366.4	366.3
52.5°	370.0	366.7	364.7	362.8	361.7	361.4
53°	365.2	362.0	360.0	357.9	356.7	356.8
53.5°	360.5	357.2	354.9	352.9	351.8	351.9
54°	355.6	352.2	350.2	348.2	347.0	347.0
54.5°	351.0	347.4	345.4	343.4	342.4	342.3
55°	346.1	342.7	340.3	338.4	337.5	337.3
55.5°	341.3	337.5	335.3	333.6	332.4	332.4
56°	336.3	332.5	330.5	328.4	327.2	327.3
56.5°	331.3	327.6	325.2	323.3	322.5	322.1
57°	326.3	322.6	320.3	318.1	317.0	316.9
57.5°	321.3	317.4	315.0	313.0	311.8	311.8
58°	316.1	312.3	309.9	307.8	306.8	307.0
58.5°	311.2	307.2	304.7	302.6	301.5	301.6
59°	306.1	301.9	299.4	297.3	296.3	296.3
59.5°	300.7	296.9	294.4	291.9	290.8	290.9
60°	295.5	291.4	288.9	286.7	285.7	285.6
60.5°	290.3	286.1	283.7	281.3	280.5	280.6
61°	284.9	280.9	278.4	276.4	275.2	275.4
61.5°	279.8	275.5	273.1	270.9	269.8	269.8
62°	274.6	270.2	267.8	265.5	264.4	264.3
62.5°	269.2	264.7	262.3	259.8	258.7	258.7
63°	263.9	259.3	256.7	254.5	253.6	253.4
63.5°	258.4	253.6	251.3	249.2	248.0	248.0
64°	253.0	248.4	245.9	243.8	242.7	242.3
64.5°	247.5	243.0	240.4	238.3	237.1	237.1
65°	242.2	237.5	234.8	232.7	231.5	231.5
65.5°	236.8	231.8	229.4	227.1	226.1	225.9
66°	231.0	226.4	223.7	221.2	220.3	220.3
66.5°	225.4	220.7	218.0	215.8	214.8	214.8
67°	219.9	215.3	212.5	210.4	209.1	209.4

TEST NUMBER: P869641  
 CATALOG NUMBER: SMX14RLSFS010-1600LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	214.8	209.6	206.8	204.9	203.3	203.5
68°	209.0	204.0	201.0	198.9	197.9	197.9
68.5°	203.3	198.3	195.4	193.1	192.1	192.2
69°	197.6	192.6	189.7	187.7	186.3	186.4
69.5°	192.1	186.9	184.1	181.8	180.6	180.7
70°	186.5	181.2	178.5	176.0	175.2	175.0
70.5°	180.7	175.5	172.8	170.6	169.5	169.4
71°	175.1	169.6	167.0	164.7	163.5	163.7
71.5°	169.5	163.9	161.3	159.0	157.6	157.8
72°	163.7	158.3	155.6	153.3	152.2	152.2
72.5°	158.1	152.6	150.0	147.7	146.6	146.7
73°	152.2	146.9	144.1	141.8	140.9	140.8
73.5°	146.7	141.1	138.5	136.2	134.9	135.1
74°	141.1	135.6	132.6	130.4	129.3	129.3
74.5°	135.3	129.8	127.1	124.7	123.5	123.6
75°	129.5	124.1	121.3	119.1	118.2	118.0
75.5°	123.9	118.4	115.8	113.4	112.1	112.4
76°	118.2	112.6	110.0	107.8	106.7	106.7
76.5°	112.6	107.1	104.3	102.2	101.2	101.1
77°	107.0	101.6	98.9	96.7	95.5	95.5
77.5°	101.4	96.1	93.4	91.3	90.2	90.2
78°	95.9	90.5	87.8	85.8	84.7	84.7
78.5°	90.3	85.1	82.6	80.4	79.4	79.3
79°	84.9	79.8	77.2	75.1	74.1	74.0
79.5°	79.5	74.3	71.9	69.7	68.7	68.7
80°	74.3	69.0	66.4	64.4	63.5	63.6
80.5°	69.1	63.9	61.5	59.3	58.4	58.4
81°	63.9	58.8	56.3	54.4	53.6	53.6
81.5°	58.7	54.0	51.6	49.6	48.6	48.7
82°	53.7	49.1	46.7	44.8	43.9	43.9
82.5°	49.0	44.5	42.2	40.4	39.4	39.4
83°	44.2	39.7	37.6	35.8	35.0	35.0
83.5°	39.5	35.3	33.2	31.5	30.7	30.8
84°	35.0	31.1	29.1	27.5	26.7	26.7
84.5°	30.8	27.1	25.2	23.7	22.9	22.9
85°	26.7	23.2	21.6	20.2	19.6	19.5
85.5°	22.8	19.8	18.0	16.8	16.1	16.0
86°	19.3	16.4	14.8	13.5	12.9	13.0
86.5°	16.2	13.2	11.6	10.3	9.8	9.8
87°	13.1	10.1	8.5	7.6	7.0	7.1
87.5°	10.1	7.3	6.2	5.4	5.1	5.2
88°	7.6	5.2	4.3	3.6	3.3	3.2
88.5°	5.2	3.4	2.7	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	1.0	0.8

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



TEST NUMBER: P869641  
CATALOG NUMBER: SMX14RLSFS010-1600LM-2700K

**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)