

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: P869677

Luminaire Tested: **SMX14SLSFS010-2000LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869677  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX14SLSFS010-2000LM-3000K  
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT  
 Ballast/Driver: -

**Summary**

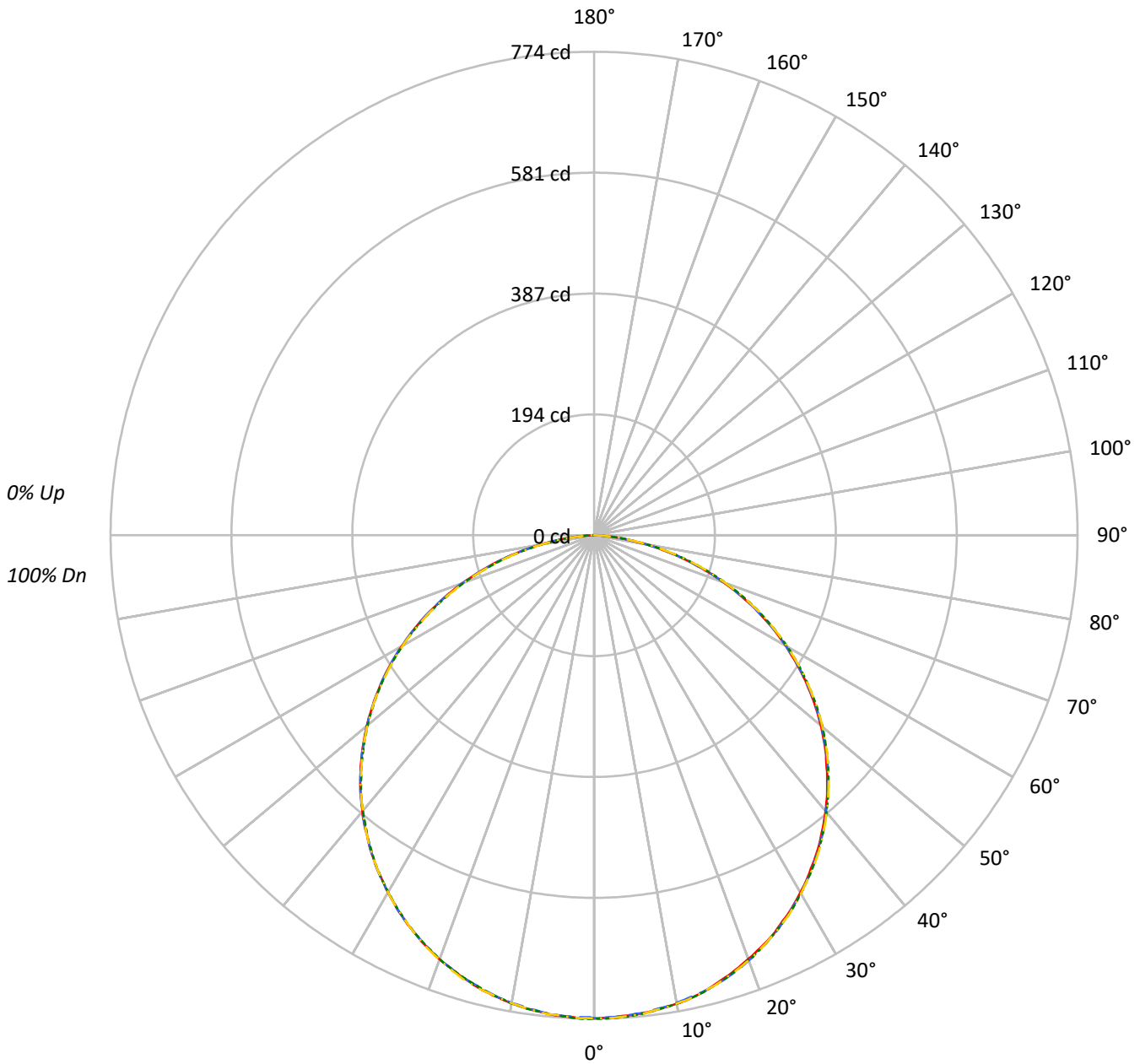
Lumens per Lamp: N/A  
 Luminaire Lumens: 2260.0 lumens  
 Efficiency: N/A  
 Efficacy: 87.3 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
 CIE Type: Direct

Input Watts (W): 25.9  
 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	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	102	102	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	86	86	86	86	86	86	86	86	84				
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	72	72	72	72	72	72	72	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	60	60	60	60	60	60	60	60	58				
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	52	52	52	52	52	52	52	52	52	52	52	50				
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	45	45	45	45	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	39	39	39	39	39	39	39	39	37				
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	35	35	35	35	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	31	31	31	31	31	31	31	31	29				
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	28	28	28	28	28	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	25	25	25	25	25	25	25	25	24				

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

	0°	90°	180°	270°
0°	6113	6113	6113	6113
5°	6107	6116	6113	6111
10°	6112	6111	6107	6107
15°	6097	6104	6098	6086
20°	6072	6086	6077	6074
25°	6056	6066	6050	6051
30°	6028	6046	6023	6017
35°	5990	6014	5995	5981
40°	5945	5972	5955	5940
45°	5887	5929	5912	5887
50°	5829	5870	5838	5820
55°	5730	5774	5752	5731
60°	5601	5654	5626	5599
65°	5410	5472	5452	5397
70°	5098	5190	5176	5100
75°	4629	4739	4742	4636
80°	3878	4033	4014	3882
85°	2648	2802	2793	2657

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	3.2
10°-20°	210.3	9.3
20°-30°	320.3	14.2
30°-40°	388.9	17.2
40°-50°	407.6	18.0
50°-60°	372.7	16.5
60°-70°	287.0	12.7
70°-80°	162.3	7.2
80°-90°	37.7	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°	603.8	26.7
0°-40°	992.7	43.9
0°-60°	1773.0	78.5
0°-90°	2260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2260.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	774	774	774	774	774	
5°	770	771	770	770	770	73
15°	745	746	745	744	745	210
25°	694	696	694	694	694	320
35°	621	623	621	620	621	388
45°	527	530	529	527	527	407
55°	416	419	417	416	416	371
65°	289	293	292	289	289	285
75°	152	155	155	152	152	160
85°	29	31	31	29	29	37
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°	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5	773.5
0.5°	773.1	774.4	772.4	773.3	774.1	773.6	773.7	773.6	773.2	774.1	771.6
1°	773.1	774.6	772.8	772.9	774.1	773.4	773.3	773.1	773.4	773.4	771.7
1.5°	772.7	773.9	772.4	772.5	774.0	773.1	773.8	772.6	773.0	773.5	771.8
2°	772.6	773.7	772.1	772.6	773.7	772.7	773.5	772.4	773.2	773.7	771.7
2.5°	772.3	773.6	772.0	771.9	773.8	773.0	773.1	772.3	772.4	773.5	771.6
3°	771.3	773.3	771.3	771.6	773.0	772.5	772.7	772.2	772.1	772.7	771.4
3.5°	770.9	772.5	771.4	771.4	772.7	771.8	772.1	771.8	771.7	772.6	771.1
4°	770.8	771.8	770.5	770.5	772.6	771.7	771.7	771.7	771.4	771.9	770.9
4.5°	770.3	771.6	770.0	770.2	771.6	771.2	771.3	770.9	771.3	772.3	769.8
5°	769.7	771.1	769.0	770.0	770.9	770.7	771.1	770.2	770.5	771.3	769.6
5.5°	769.3	770.2	768.9	769.2	770.2	770.1	770.7	769.1	769.7	770.4	769.0
6°	768.9	769.4	768.2	768.7	769.6	768.9	769.6	768.7	768.9	769.3	768.4
6.5°	768.3	769.2	767.2	767.8	768.9	767.6	768.9	768.1	767.8	768.6	767.2
7°	767.4	768.3	766.5	767.1	767.8	767.2	767.3	766.9	767.4	767.5	766.2
7.5°	766.5	767.1	765.2	765.9	766.8	766.2	766.5	766.0	766.3	766.9	765.4
8°	765.2	766.1	764.4	765.0	765.8	765.1	765.8	765.1	765.5	766.0	764.2
8.5°	764.4	765.2	764.1	763.7	764.7	764.4	764.8	763.5	764.4	764.4	762.9
9°	763.6	764.3	762.8	762.9	763.6	763.1	764.1	762.4	763.3	763.6	761.9
9.5°	762.6	762.9	761.5	761.8	762.6	761.6	762.6	761.4	761.9	762.9	761.0
10°	761.6	761.1	760.3	760.8	761.5	761.1	761.6	760.4	761.0	761.5	760.4
10.5°	760.7	760.3	758.7	759.4	761.1	759.7	760.2	759.0	759.4	760.1	758.8
11°	759.4	758.5	757.9	758.3	759.6	758.5	759.4	757.5	758.2	759.2	757.2
11.5°	758.1	757.5	756.0	756.6	758.2	757.6	758.4	756.1	756.5	757.2	755.9
12°	756.4	756.5	754.8	755.7	756.6	755.9	756.2	754.4	755.4	755.4	754.6
12.5°	754.9	755.3	753.8	754.0	755.5	755.0	754.7	753.0	753.8	753.8	752.8
13°	753.4	753.8	752.3	752.6	753.5	753.1	753.1	751.7	752.0	752.4	751.0
13.5°	751.7	752.4	751.1	750.3	752.1	750.9	750.6	749.8	750.7	751.1	749.5
14°	749.7	750.4	749.3	748.7	750.2	749.5	749.1	747.6	749.2	749.2	747.4
14.5°	747.4	748.4	747.6	746.8	747.9	747.6	747.8	745.9	746.7	747.6	745.1
15°	745.1	746.9	746.3	745.4	746.0	746.3	746.4	743.4	745.3	745.9	743.9
15.5°	742.8	744.9	744.8	742.8	744.2	744.2	744.3	741.7	742.9	744.0	741.9
16°	740.7	742.2	742.6	740.8	741.8	741.8	741.7	740.4	740.7	741.6	740.2
16.5°	738.5	739.7	740.5	739.1	740.1	739.7	739.5	738.5	738.7	739.4	738.4
17°	736.5	737.5	738.7	736.6	737.7	737.4	737.5	736.6	736.6	736.8	736.4
17.5°	734.1	735.1	736.6	733.9	735.3	735.1	735.6	734.2	733.9	734.9	734.2
18°	731.9	732.4	734.4	732.0	733.1	733.1	733.4	731.7	731.5	732.2	731.6
18.5°	729.5	730.3	732.4	729.9	731.2	730.6	731.0	730.0	729.1	730.3	729.2
19°	727.0	727.6	729.7	727.4	728.4	728.7	728.8	727.8	727.0	727.9	727.2
19.5°	724.6	725.1	727.3	724.5	726.0	726.4	726.2	725.1	725.2	725.6	725.2
20°	721.9	722.9	724.4	722.3	723.6	724.0	723.9	722.9	722.5	723.1	722.5
20.5°	719.7	720.8	722.2	719.6	721.6	721.9	721.5	720.2	720.2	720.3	720.3
21°	717.1	717.7	719.7	717.5	719.0	718.8	718.8	718.1	717.5	717.8	717.3
21.5°	714.3	715.2	716.8	714.4	716.1	715.7	715.6	715.3	714.5	715.1	714.4
22°	711.9	712.5	712.8	712.0	713.4	712.7	713.1	713.1	712.1	712.1	711.6

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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°	709.3	710.1	711.0	709.4	710.7	709.8	710.5	710.0	709.1	709.1	708.5
23°	706.6	707.3	708.0	706.3	708.0	707.1	707.7	706.8	706.6	706.1	705.2
23.5°	704.1	704.6	705.2	703.6	705.0	704.5	704.8	703.8	703.0	703.1	703.0
24°	701.4	701.6	701.9	700.8	702.1	701.9	702.1	701.0	700.2	700.8	699.9
24.5°	698.1	698.5	699.2	697.7	699.2	699.1	699.5	698.3	697.1	698.3	697.2
25°	694.4	695.8	696.3	694.4	695.6	696.0	696.3	695.3	693.8	694.6	694.0
25.5°	691.4	692.8	692.9	691.4	692.9	692.8	692.8	691.6	691.4	691.4	691.3
26°	687.7	689.2	689.4	687.7	689.8	689.7	689.9	688.6	688.1	688.8	688.2
26.5°	685.0	686.0	686.5	684.7	686.9	686.2	686.6	684.8	684.4	685.1	684.4
27°	681.8	683.1	682.7	682.0	683.8	683.0	683.8	682.1	681.1	681.7	681.6
27.5°	678.4	679.5	679.5	678.6	680.2	679.5	680.6	678.8	678.2	678.6	677.9
28°	674.9	675.7	675.9	675.2	676.9	676.5	676.6	675.3	674.5	675.5	674.9
28.5°	671.3	672.3	672.3	672.5	673.5	672.8	673.1	672.3	670.6	672.3	671.3
29°	667.6	668.9	669.2	668.6	669.5	669.1	669.5	668.6	666.9	668.7	667.2
29.5°	664.2	665.1	665.4	665.3	665.9	665.6	666.3	664.7	663.7	665.5	663.4
30°	660.5	661.4	661.8	661.6	662.5	662.3	662.7	661.4	660.0	661.2	659.6
30.5°	656.8	657.8	658.4	658.4	658.7	658.8	658.8	657.8	656.3	657.4	656.2
31°	653.5	653.9	654.0	654.9	654.7	655.1	654.6	654.0	652.4	653.9	652.7
31.5°	649.5	650.4	650.6	651.1	650.8	651.2	651.1	650.0	648.5	649.7	648.8
32°	645.3	646.7	646.8	646.9	646.7	647.4	647.3	646.0	644.6	645.9	645.1
32.5°	641.5	643.0	643.2	643.5	643.5	643.6	643.9	642.7	641.4	642.6	641.0
33°	637.0	638.8	638.8	639.5	639.7	639.5	639.8	638.6	637.5	638.7	637.5
33.5°	633.3	635.0	635.3	635.5	635.6	635.1	636.0	634.6	633.4	635.0	633.3
34°	629.4	631.2	631.1	631.6	631.6	631.2	632.3	630.1	629.2	630.2	629.3
34.5°	625.3	626.5	627.0	627.4	627.6	627.3	628.5	625.8	625.3	626.1	625.6
35°	620.8	621.5	622.5	623.1	623.3	623.4	624.5	622.3	621.3	621.8	621.2
35.5°	617.0	617.5	618.3	618.5	619.4	619.5	620.2	617.9	617.3	617.4	616.9
36°	612.7	613.4	613.7	614.4	615.0	614.7	616.0	613.5	612.8	613.2	612.7
36.5°	608.1	609.7	609.4	610.2	610.8	610.1	611.6	609.1	608.3	608.6	607.8
37°	603.2	604.9	605.4	605.8	606.3	606.2	607.3	604.2	603.5	604.5	603.8
37.5°	599.0	600.8	601.3	601.5	601.6	601.6	602.5	600.4	599.2	600.1	599.6
38°	594.6	596.6	596.7	596.8	597.4	596.9	597.7	596.0	595.3	595.9	595.3
38.5°	590.0	591.7	592.0	592.1	592.6	592.2	593.3	591.5	590.9	591.2	591.1
39°	585.5	587.4	587.2	587.5	588.2	587.7	588.8	586.8	586.5	586.6	586.1
39.5°	580.9	582.5	582.6	582.4	583.6	584.0	583.8	582.3	582.1	581.8	581.5
40°	576.2	577.4	577.9	577.9	578.8	579.5	579.2	578.3	577.2	577.4	577.0
40.5°	571.7	573.2	573.4	572.9	573.9	574.8	575.0	573.7	572.5	572.8	572.2
41°	566.8	568.4	568.6	568.3	569.7	570.1	570.0	568.8	567.4	568.1	567.6
41.5°	562.5	563.5	564.0	563.2	564.9	565.7	565.7	564.1	563.2	563.3	563.1
42°	557.4	558.5	559.1	558.5	559.6	560.6	560.4	559.5	558.9	558.2	558.2
42.5°	552.2	553.6	554.5	553.5	555.0	555.7	555.3	554.6	553.8	553.1	553.3
43°	547.2	548.6	549.6	548.6	550.2	550.6	550.4	549.5	548.7	548.1	548.5
43.5°	542.1	543.9	544.3	543.7	545.3	545.3	545.6	544.5	543.9	543.1	543.3
44°	537.0	538.8	539.3	538.9	540.2	540.4	540.6	539.6	538.7	538.1	538.4
44.5°	532.1	533.5	534.2	533.5	535.3	535.6	535.6	534.6	533.7	533.2	533.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	526.7	528.5	529.3	528.5	530.4	530.7	530.2	529.5	528.9	528.3	527.8
45.5°	521.2	523.2	524.4	523.4	525.5	525.5	524.9	524.6	523.6	523.1	522.5
46°	516.3	518.6	518.9	518.5	520.1	520.1	520.0	519.2	518.1	517.6	517.5
46.5°	511.7	513.2	513.5	513.3	514.8	514.8	515.0	513.8	512.9	513.0	512.2
47°	506.6	507.8	508.1	508.0	509.4	509.5	509.7	508.3	507.8	507.4	506.8
47.5°	501.5	502.9	502.6	502.4	504.1	504.5	504.1	503.0	502.5	502.0	501.3
48°	495.9	497.3	497.0	497.2	498.8	499.3	498.9	497.9	496.8	496.9	495.9
48.5°	490.3	491.8	491.8	491.5	493.5	493.5	493.5	492.6	491.2	491.4	490.8
49°	484.8	486.4	486.2	486.2	488.3	488.1	488.0	487.0	486.2	486.1	485.4
49.5°	479.4	481.0	480.8	480.5	482.8	482.4	482.6	481.9	480.5	481.0	479.8
50°	474.1	475.3	475.3	474.9	477.4	477.4	477.1	476.0	474.8	475.2	474.6
50.5°	467.9	469.8	469.7	469.4	471.7	471.6	471.5	470.6	469.4	469.5	469.1
51°	462.4	464.0	463.9	463.7	465.8	465.8	466.1	464.7	463.8	464.0	463.8
51.5°	456.7	458.4	458.5	458.2	460.2	460.0	460.4	459.0	458.0	458.4	457.5
52°	451.1	452.9	452.6	452.5	454.3	454.6	454.7	453.3	451.8	452.6	451.8
52.5°	445.3	446.8	446.8	446.8	448.8	449.1	448.8	447.6	446.4	447.3	446.1
53°	439.5	441.1	440.8	440.6	442.7	443.1	442.7	441.7	441.0	441.4	440.6
53.5°	433.5	435.1	434.9	434.6	436.8	437.0	436.7	436.3	435.1	436.0	434.6
54°	427.5	428.8	429.0	428.7	430.9	431.1	430.9	430.4	429.1	429.7	429.1
54.5°	421.2	422.7	423.2	423.0	425.1	425.1	424.9	424.1	423.1	423.7	423.4
55°	415.8	417.1	416.6	417.3	419.0	419.2	419.2	418.4	417.4	417.8	417.6
55.5°	410.1	411.0	410.9	411.0	413.0	413.5	412.8	412.0	411.4	412.3	411.5
56°	403.9	405.2	404.8	405.2	407.0	407.7	407.6	406.4	405.6	406.1	405.5
56.5°	397.9	399.0	398.9	399.2	401.0	401.6	401.5	400.1	399.4	399.9	399.3
57°	391.5	392.5	392.7	393.2	394.9	395.6	395.2	394.3	393.0	393.9	393.3
57.5°	385.0	386.3	386.5	386.8	388.9	389.1	389.1	388.0	387.1	387.7	387.4
58°	379.2	380.1	380.3	380.4	382.4	383.1	382.4	382.1	380.9	381.2	381.5
58.5°	372.9	374.1	374.2	374.2	376.3	377.1	375.8	375.8	374.8	375.1	375.3
59°	366.4	368.0	367.4	367.6	370.4	370.4	369.9	369.5	368.7	369.2	368.9
59.5°	360.1	361.3	361.0	361.3	364.2	363.9	363.6	363.1	362.1	362.9	362.5
60°	354.3	354.9	354.5	354.8	357.7	357.6	357.3	357.2	355.9	356.5	356.2
60.5°	348.3	348.5	348.4	348.1	351.3	351.3	350.5	350.5	349.0	350.0	349.8
61°	341.3	341.8	342.0	341.6	344.7	345.3	344.2	344.6	343.2	343.6	343.3
61.5°	335.0	335.6	335.8	335.1	338.2	338.8	337.8	338.0	336.9	337.5	336.8
62°	328.5	329.1	329.5	329.1	331.9	332.4	332.0	331.7	330.6	331.0	330.9
62.5°	322.1	322.3	322.9	322.3	325.0	325.6	325.2	325.1	324.0	324.5	324.2
63°	315.3	315.6	316.4	316.0	318.5	319.5	318.8	318.7	317.5	317.9	317.4
63.5°	308.9	309.4	309.7	309.4	312.0	312.9	312.3	312.3	311.3	311.4	311.2
64°	302.1	302.8	303.1	302.9	305.7	306.2	305.8	305.4	304.7	304.9	304.4
64.5°	295.8	296.5	296.7	296.1	299.0	299.2	298.9	298.5	298.1	298.1	297.9
65°	289.3	289.9	289.8	289.7	292.6	293.1	292.7	292.1	291.5	291.8	291.5
65.5°	282.5	282.9	283.0	282.5	286.3	285.9	285.6	285.2	284.7	285.2	285.0
66°	275.8	276.2	276.2	275.7	279.4	279.2	278.4	278.4	277.8	278.6	278.3
66.5°	268.8	269.4	269.0	269.0	272.4	272.3	272.0	271.6	271.4	271.9	271.3
67°	261.7	262.3	262.4	262.3	265.5	265.9	265.4	265.2	264.6	265.0	264.9



TEST NUMBER: P869677  
 CATALOG NUMBER: SMX14SLSFS010-2000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	255.2	255.7	255.6	255.5	258.6	259.0	258.4	258.2	258.0	258.3	258.0
68°	248.2	248.9	248.7	248.9	252.0	252.5	251.8	251.5	251.7	251.6	251.1
68.5°	241.5	242.0	242.0	241.9	245.3	245.7	245.0	244.7	245.0	244.9	244.3
69°	234.7	235.2	235.1	234.8	238.7	238.9	238.2	237.9	237.9	237.8	237.0
69.5°	227.5	228.1	228.3	228.0	231.5	231.9	231.3	230.9	231.0	231.0	230.5
70°	220.6	221.3	221.1	220.9	224.6	225.0	224.2	223.8	224.0	224.2	223.4
70.5°	213.7	214.4	213.8	214.2	217.9	218.2	217.5	217.3	217.5	217.2	216.8
71°	206.9	207.3	207.0	207.1	210.9	211.3	210.2	210.5	210.3	210.3	209.9
71.5°	200.2	200.5	200.1	199.9	203.9	204.1	203.6	203.4	203.7	203.2	202.9
72°	193.3	193.5	193.2	193.0	196.8	197.2	196.6	196.6	196.8	196.4	196.1
72.5°	186.0	186.8	186.5	185.9	190.1	190.3	190.0	189.6	189.9	189.5	189.1
73°	179.3	179.8	179.5	179.3	183.2	183.4	183.1	182.9	182.9	182.7	182.3
73.5°	172.5	172.9	172.5	172.5	176.4	176.8	176.6	176.2	176.1	175.9	175.7
74°	165.4	165.8	165.7	165.6	169.5	169.9	169.8	169.2	169.3	168.9	168.7
74.5°	158.6	159.2	158.7	158.8	162.5	163.0	162.4	162.3	162.2	162.2	161.9
75°	151.6	152.1	151.9	151.6	155.2	155.8	155.7	155.4	155.3	155.3	155.2
75.5°	144.9	145.0	144.9	144.7	148.4	148.9	148.5	148.5	148.4	148.4	148.4
76°	138.0	138.2	138.0	138.1	141.5	142.1	141.5	141.6	141.6	141.5	141.4
76.5°	131.1	131.4	131.5	131.1	134.9	135.1	134.8	135.0	134.9	134.8	134.9
77°	124.4	124.5	124.3	124.4	127.9	128.5	128.2	128.0	127.9	128.1	128.1
77.5°	117.6	118.1	117.8	117.8	121.1	121.6	121.3	121.4	121.3	121.5	121.5
78°	111.0	111.3	111.0	111.1	114.5	114.8	114.6	114.4	114.1	114.7	114.6
78.5°	104.5	104.7	104.4	104.6	108.2	108.2	108.2	107.8	107.5	108.0	108.1
79°	97.9	98.1	97.8	98.3	101.8	101.9	101.6	101.5	101.1	101.6	101.4
79.5°	91.5	91.8	91.6	91.8	95.3	95.2	94.9	94.9	94.7	95.1	95.1
80°	85.2	85.3	85.2	85.1	88.6	88.8	88.3	88.3	88.2	88.7	88.6
80.5°	78.9	78.9	78.9	78.7	82.1	82.6	82.2	82.1	81.9	82.3	82.4
81°	72.8	72.9	72.7	72.2	75.9	76.2	76.1	75.8	75.9	76.2	76.2
81.5°	66.7	66.8	66.6	66.3	69.7	70.0	69.7	69.6	69.6	70.0	70.1
82°	60.9	60.9	60.8	60.3	63.7	63.9	63.7	63.4	63.4	63.8	64.1
82.5°	55.1	55.2	54.9	54.7	58.0	58.2	58.0	57.8	57.7	58.1	58.5
83°	49.4	49.5	49.3	48.8	52.2	52.3	52.3	52.1	52.1	52.4	52.8
83.5°	43.9	44.1	43.8	43.6	46.4	46.8	46.5	46.5	46.5	46.8	47.1
84°	38.8	38.9	38.7	38.2	41.1	41.2	41.2	41.0	40.9	41.3	41.6
84.5°	33.9	33.9	33.8	33.4	36.0	36.3	36.0	35.9	35.8	36.1	36.4
85°	29.2	29.1	29.1	28.6	30.9	31.1	31.0	30.8	30.8	31.0	31.3
85.5°	24.9	24.9	24.9	24.5	26.2	26.3	26.2	26.2	26.1	26.3	26.7
86°	20.7	20.7	20.6	20.2	22.4	22.4	22.4	22.3	22.3	22.6	22.7
86.5°	16.8	16.9	16.8	16.5	18.6	18.6	18.7	18.4	18.5	18.8	18.9
87°	13.0	13.0	13.1	12.7	14.8	14.9	15.0	14.7	14.7	14.9	15.1
87.5°	9.5	9.4	9.4	9.2	11.4	11.4	11.4	11.3	11.2	11.5	11.7
88°	6.7	6.7	6.7	6.5	8.3	8.3	8.3	8.2	8.2	8.4	8.6
88.5°	4.4	4.5	4.4	4.2	5.6	5.9	5.6	5.5	5.4	5.7	5.8
89°	2.7	2.8	2.8	2.7	3.3	3.5	3.3	3.3	3.1	3.4	3.5
89.5°	1.5	1.5	1.5	1.4	1.6	1.7	1.6	1.4	1.3	1.5	1.6

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



TEST NUMBER: P869677  
CATALOG NUMBER: SMX14SLSFS010-2000LM-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: P869677  
 CATALOG NUMBER: SMX14SLSFS010-2000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	773.5	773.5	773.5	773.5	773.5	773.5
0.5°	772.8	774.5	773.9	773.5	773.3	773.1
1°	772.6	774.3	774.5	773.1	772.8	773.1
1.5°	772.9	774.5	774.0	773.6	772.3	772.7
2°	772.3	773.8	773.4	773.1	772.5	772.6
2.5°	772.5	773.4	772.9	772.4	772.9	772.3
3°	772.1	772.4	772.2	772.2	772.5	771.3
3.5°	771.4	771.7	772.2	771.5	772.3	770.9
4°	771.3	771.4	772.1	770.7	771.5	770.8
4.5°	770.6	770.7	771.1	770.4	771.1	770.3
5°	769.3	770.3	770.0	770.1	770.0	769.7
5.5°	768.6	769.5	769.5	770.2	769.4	769.3
6°	767.4	768.7	768.3	769.1	768.8	768.9
6.5°	767.0	767.6	767.5	768.6	767.5	768.3
7°	766.2	766.8	766.5	767.2	766.5	767.4
7.5°	766.1	766.2	765.9	766.1	766.2	766.5
8°	764.5	765.6	764.4	765.2	764.9	765.2
8.5°	763.4	764.5	763.9	764.3	763.5	764.4
9°	762.1	763.1	763.0	762.9	762.6	763.6
9.5°	760.6	762.3	761.4	761.7	761.4	762.6
10°	759.9	760.9	759.9	760.5	760.6	761.6
10.5°	758.3	759.4	758.9	759.2	759.8	760.7
11°	757.0	757.5	758.0	757.7	758.2	759.4
11.5°	755.6	755.8	756.9	755.6	757.0	758.1
12°	754.0	754.6	755.5	754.5	755.6	756.4
12.5°	752.7	753.0	753.8	753.7	755.0	754.9
13°	751.4	751.5	752.3	751.9	753.0	753.4
13.5°	749.7	749.6	750.2	750.6	751.2	751.7
14°	748.0	747.4	748.0	749.6	749.6	749.7
14.5°	745.8	745.4	745.7	747.5	747.4	747.4
15°	744.2	743.8	743.6	745.9	745.1	745.1
15.5°	742.1	741.9	741.9	744.4	743.2	742.8
16°	740.2	739.9	739.5	742.6	740.4	740.7
16.5°	738.1	737.8	737.8	740.5	738.6	738.5
17°	735.9	735.7	735.7	737.9	736.4	736.5
17.5°	733.7	733.8	733.2	735.6	733.8	734.1
18°	731.5	731.5	731.4	733.5	731.8	731.9
18.5°	729.3	729.4	729.0	730.7	729.0	729.5
19°	727.2	727.2	726.8	728.3	726.3	727.0
19.5°	724.4	724.7	724.9	725.7	724.0	724.6
20°	722.1	722.1	723.0	723.0	721.8	721.9
20.5°	719.3	719.5	720.6	720.6	719.7	719.7
21°	716.8	716.7	717.9	718.1	717.2	717.1
21.5°	714.1	714.0	715.6	715.4	715.1	714.3
22°	711.7	711.7	713.3	712.6	712.2	711.9

TEST NUMBER: P869677  
 CATALOG NUMBER: SMX14SLSFS010-2000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	708.4	708.6	710.2	709.6	709.4	709.3
23°	705.9	705.9	707.0	706.4	706.5	706.6
23.5°	703.4	702.9	704.7	703.7	703.8	704.1
24°	700.4	699.8	702.0	700.2	700.3	701.4
24.5°	697.3	696.8	697.9	697.7	697.3	698.1
25°	693.9	693.9	694.9	694.0	693.9	694.4
25.5°	690.8	690.8	691.6	691.1	690.8	691.4
26°	687.1	687.6	687.9	687.5	687.4	687.7
26.5°	683.9	684.0	684.7	683.9	683.9	685.0
27°	680.7	680.7	681.6	680.7	680.7	681.8
27.5°	678.0	677.4	678.4	677.4	677.4	678.4
28°	674.3	673.6	675.1	673.9	673.7	674.9
28.5°	670.9	670.0	671.7	671.0	670.7	671.3
29°	667.3	666.7	668.3	667.2	666.9	667.6
29.5°	663.5	662.7	665.0	663.7	663.3	664.2
30°	659.8	659.3	661.4	659.9	659.3	660.5
30.5°	656.0	656.1	657.5	655.7	655.5	656.8
31°	652.0	652.0	653.1	652.2	651.8	653.5
31.5°	648.4	648.3	648.8	648.6	648.1	649.5
32°	644.7	644.8	644.8	644.5	643.9	645.3
32.5°	641.1	640.5	641.2	641.2	640.4	641.5
33°	637.2	637.2	637.1	637.1	636.3	637.0
33.5°	633.2	633.0	633.5	632.9	632.5	633.3
34°	628.9	628.8	628.9	629.3	628.1	629.4
34.5°	625.1	624.4	624.9	625.3	624.1	625.3
35°	621.3	619.9	620.4	621.2	620.1	620.8
35.5°	617.0	615.5	616.2	616.9	616.0	617.0
36°	612.5	611.5	611.9	612.4	611.5	612.7
36.5°	608.3	607.2	607.5	607.9	607.6	608.1
37°	603.8	603.0	603.1	603.4	603.2	603.2
37.5°	599.6	598.1	598.6	599.4	598.9	599.0
38°	595.3	593.4	594.2	594.8	594.9	594.6
38.5°	591.1	588.8	590.0	589.7	590.0	590.0
39°	586.6	584.6	585.5	585.4	585.3	585.5
39.5°	581.9	580.1	581.1	580.8	580.8	580.9
40°	577.1	575.7	576.4	576.2	575.9	576.2
40.5°	572.1	571.2	571.5	571.3	571.5	571.7
41°	567.5	567.2	567.1	567.0	566.8	566.8
41.5°	562.6	562.1	562.5	562.5	562.8	562.5
42°	557.7	557.2	557.5	557.6	558.2	557.4
42.5°	552.9	552.0	552.8	552.6	552.4	552.2
43°	548.0	547.0	547.4	547.6	547.2	547.2
43.5°	543.5	541.9	543.0	542.4	542.3	542.1
44°	538.3	536.6	538.1	537.2	537.1	537.0
44.5°	533.5	532.0	532.7	532.2	532.9	532.1

TEST NUMBER: P869677  
 CATALOG NUMBER: SMX14SLSFS010-2000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	528.2	526.7	527.6	527.2	527.4	526.7
45.5°	523.3	521.5	522.4	522.0	521.6	521.2
46°	517.9	516.4	517.1	517.0	516.3	516.3
46.5°	512.5	510.9	512.2	511.6	511.0	511.7
47°	507.2	505.3	507.2	506.5	506.1	506.6
47.5°	501.8	499.9	501.8	501.0	501.3	501.5
48°	496.4	494.7	496.2	495.5	496.1	495.9
48.5°	491.4	489.6	490.8	490.1	490.7	490.3
49°	485.4	484.2	485.3	484.5	484.3	484.8
49.5°	480.1	478.8	479.9	479.0	478.7	479.4
50°	474.8	473.3	474.2	473.5	473.8	474.1
50.5°	469.3	467.7	468.5	467.9	467.9	467.9
51°	464.0	462.0	462.9	462.3	461.9	462.4
51.5°	458.1	456.0	456.9	456.6	456.0	456.7
52°	452.5	450.5	451.4	450.9	450.3	451.1
52.5°	446.4	444.4	445.6	445.5	444.7	445.3
53°	440.9	439.0	439.5	439.6	439.0	439.5
53.5°	435.2	433.3	433.9	433.7	433.1	433.5
54°	429.4	427.3	427.4	427.6	427.6	427.5
54.5°	423.5	421.4	421.9	421.2	421.2	421.2
55°	417.5	415.9	415.9	415.1	415.4	415.8
55.5°	411.6	410.0	410.2	409.1	409.5	410.1
56°	406.2	403.8	404.1	402.9	403.5	403.9
56.5°	399.8	397.7	397.9	397.2	397.6	397.9
57°	393.7	391.4	391.8	391.0	391.4	391.5
57.5°	387.5	385.4	385.8	385.0	385.0	385.0
58°	381.5	379.1	379.2	379.5	378.7	379.2
58.5°	375.3	373.0	373.0	373.2	373.1	372.9
59°	369.1	366.6	366.6	367.0	366.9	366.4
59.5°	362.4	360.3	360.1	360.3	360.6	360.1
60°	355.9	354.2	354.0	354.0	354.0	354.3
60.5°	349.9	347.8	347.6	347.4	347.2	348.3
61°	343.8	341.2	341.5	340.8	340.9	341.3
61.5°	337.4	334.7	335.4	334.2	334.8	335.0
62°	330.8	328.6	328.8	327.7	327.9	328.5
62.5°	324.4	322.0	322.3	321.5	321.3	322.1
63°	317.8	315.2	315.5	315.2	314.7	315.3
63.5°	311.1	308.7	309.1	308.3	308.1	308.9
64°	305.0	301.9	302.4	301.7	301.6	302.1
64.5°	297.9	295.5	295.9	295.4	295.2	295.8
65°	291.7	288.6	289.1	288.6	288.4	289.3
65.5°	284.8	282.1	282.2	281.8	282.0	282.5
66°	277.9	275.1	275.2	275.3	275.3	275.8
66.5°	271.2	268.4	268.6	268.5	268.9	268.8
67°	264.9	261.3	261.9	261.4	262.5	261.7

TEST NUMBER: P869677  
 CATALOG NUMBER: SMX14SLSFS010-2000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	257.9	254.7	255.6	254.9	255.6	255.2
68°	251.1	247.9	248.6	247.9	248.1	248.2
68.5°	244.3	241.7	241.8	241.3	241.4	241.5
69°	237.3	234.8	235.1	234.8	234.8	234.7
69.5°	230.5	227.8	228.3	227.8	227.9	227.5
70°	223.6	220.7	221.1	220.8	220.9	220.6
70.5°	217.3	214.0	214.3	214.2	214.3	213.7
71°	210.5	206.6	207.1	207.2	207.2	206.9
71.5°	203.4	200.0	200.4	200.0	200.0	200.2
72°	196.5	193.2	193.2	193.1	192.9	193.3
72.5°	189.6	186.3	186.4	186.3	185.7	186.0
73°	183.1	179.4	180.0	179.5	179.0	179.3
73.5°	176.2	172.5	173.1	172.5	172.4	172.5
74°	169.6	165.6	166.0	165.3	165.4	165.4
74.5°	162.5	158.8	159.1	158.6	158.3	158.6
75°	155.7	151.8	152.0	151.6	151.2	151.6
75.5°	148.6	145.1	145.2	144.6	144.4	144.9
76°	141.9	138.1	138.2	137.8	137.7	138.0
76.5°	135.2	131.1	131.4	131.2	131.0	131.1
77°	128.4	124.5	124.5	124.2	124.2	124.4
77.5°	121.6	118.2	117.8	117.7	117.8	117.6
78°	114.8	111.4	111.0	111.0	111.0	111.0
78.5°	108.2	105.0	104.5	104.5	104.6	104.5
79°	101.7	98.5	97.9	98.0	98.4	97.9
79.5°	95.2	91.8	91.8	91.6	92.0	91.5
80°	88.8	85.3	85.3	85.1	85.5	85.2
80.5°	82.6	79.1	79.1	79.1	78.9	78.9
81°	76.3	72.9	73.0	73.0	72.8	72.8
81.5°	70.1	66.8	67.1	67.2	66.7	66.7
82°	64.1	61.0	61.1	61.2	60.7	60.9
82.5°	58.5	55.2	55.5	55.2	54.9	55.1
83°	52.8	49.7	49.8	49.7	49.3	49.4
83.5°	47.1	44.3	44.3	44.2	43.8	43.9
84°	41.6	39.1	39.1	39.0	38.8	38.8
84.5°	36.4	34.0	34.1	34.0	33.9	33.9
85°	31.5	29.3	29.5	29.2	29.2	29.2
85.5°	26.7	25.1	25.2	25.1	25.1	24.9
86°	22.9	20.8	21.0	21.0	20.8	20.7
86.5°	19.0	16.9	17.2	17.0	16.9	16.8
87°	15.3	13.2	13.4	13.3	13.2	13.0
87.5°	11.9	9.5	9.7	9.7	9.6	9.5
88°	8.7	6.7	6.9	6.8	6.8	6.7
88.5°	5.9	4.4	4.6	4.6	4.6	4.4
89°	3.7	2.6	2.8	2.8	2.8	2.7
89.5°	1.8	1.4	1.5	1.5	1.5	1.5

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869677  
CATALOG NUMBER: SMX14SLSFS010-2000LM-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)