

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: P869678

Luminaire Tested: **SMX14SLSFS010-2000LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869678
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14SLSFS010-2000LM-3500K
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

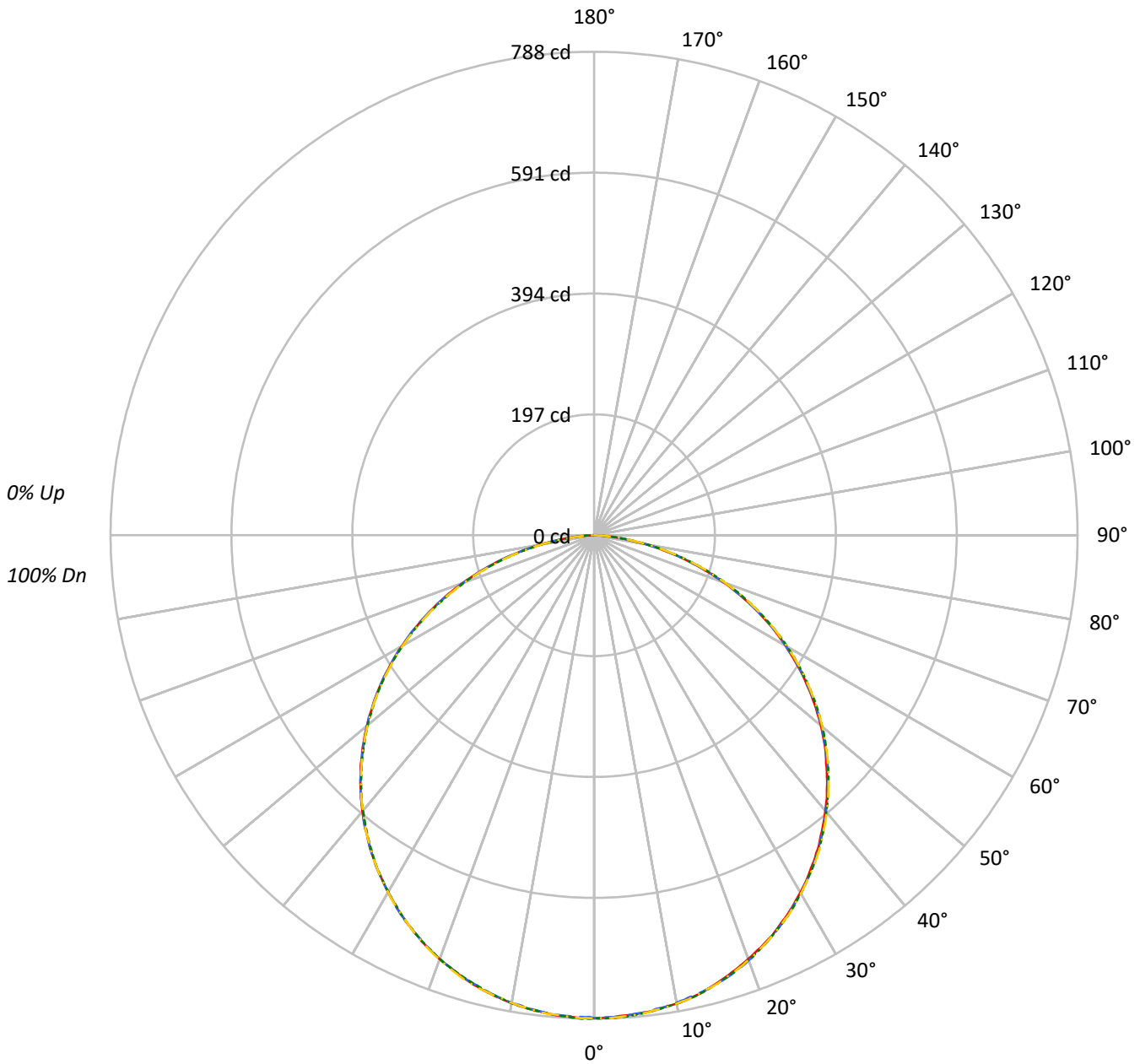
Lumens per Lamp: N/A
 Luminaire Lumens: 2300.0 lumens
 Efficiency: N/A
 Efficacy: 88.8 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
 CIE Type: Direct

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				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	80	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	58	52	62	56	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	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	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	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	43	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°	6222	6222	6222	6222
5°	6215	6224	6221	6219
10°	6221	6220	6216	6214
15°	6205	6212	6206	6194
20°	6179	6195	6185	6181
25°	6163	6173	6157	6158
30°	6135	6154	6130	6123
35°	6096	6120	6101	6087
40°	6050	6077	6061	6045
45°	5991	6034	6017	5991
50°	5933	5973	5941	5923
55°	5830	5876	5854	5833
60°	5699	5755	5725	5697
65°	5506	5567	5549	5493
70°	5188	5283	5269	5193
75°	4712	4822	4825	4718
80°	3946	4105	4087	3951
85°	2693	2857	2838	2702

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	3.2
10°-20°	214.0	9.3
20°-30°	325.9	14.2
30°-40°	395.8	17.2
40°-50°	414.8	18.0
50°-60°	379.3	16.5
60°-70°	292.1	12.7
70°-80°	165.2	7.2
80°-90°	38.4	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°	614.5	26.7
0°-40°	1010.3	43.9
0°-60°	1804.4	78.5
0°-90°	2300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	787	787	787	787	787	
5°	783	784	784	784	783	75
15°	758	759	758	757	758	214
25°	707	708	706	706	707	326
35°	632	634	632	631	632	395
45°	536	540	538	536	536	414
55°	423	426	425	423	423	378
65°	294	298	297	294	294	291
75°	154	158	158	154	154	163
85°	30	32	31	30	30	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°	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2	787.2
0.5°	786.8	788.2	786.1	787.0	787.8	787.3	787.4	787.3	786.9	787.8	785.2
1°	786.8	788.3	786.5	786.6	787.8	787.1	787.0	786.8	787.1	787.1	785.4
1.5°	786.4	787.6	786.1	786.2	787.7	786.8	787.5	786.3	786.7	787.2	785.5
2°	786.3	787.4	785.8	786.3	787.4	786.4	787.2	786.1	786.9	787.4	785.4
2.5°	786.0	787.3	785.7	785.6	787.5	786.7	786.8	786.0	786.1	787.2	785.2
3°	784.9	787.0	784.9	785.3	786.7	786.2	786.4	785.9	785.8	786.4	785.0
3.5°	784.5	786.2	785.0	785.0	786.4	785.5	785.8	785.5	785.4	786.3	784.7
4°	784.4	785.5	784.1	784.1	786.3	785.4	785.4	785.4	785.0	785.6	784.5
4.5°	783.9	785.2	783.6	783.8	785.2	784.8	784.9	784.5	784.9	786.0	783.4
5°	783.3	784.7	782.7	783.6	784.5	784.3	784.7	783.8	784.1	784.9	783.2
5.5°	783.0	783.8	782.5	782.9	783.8	783.7	784.3	782.8	783.3	784.0	782.7
6°	782.5	783.0	781.8	782.3	783.2	782.5	783.2	782.3	782.5	783.0	782.0
6.5°	781.9	782.9	780.8	781.4	782.5	781.2	782.5	781.7	781.4	782.2	780.8
7°	781.0	781.9	780.1	780.7	781.4	780.8	780.9	780.5	781.0	781.1	779.8
7.5°	780.1	780.7	778.7	779.4	780.4	779.7	780.1	779.5	779.9	780.5	778.9
8°	778.7	779.6	777.9	778.5	779.3	778.6	779.3	778.6	779.0	779.5	777.8
8.5°	777.9	778.7	777.7	777.3	778.2	777.9	778.3	777.0	777.9	777.9	776.4
9°	777.2	777.8	776.3	776.4	777.2	776.6	777.7	775.9	776.8	777.2	775.4
9.5°	776.1	776.4	775.0	775.3	776.1	775.1	776.1	774.9	775.4	776.4	774.5
10°	775.1	774.6	773.7	774.2	775.0	774.6	775.1	773.8	774.5	775.0	773.8
10.5°	774.1	773.7	772.2	772.8	774.6	773.1	773.6	772.5	772.8	773.5	772.3
11°	772.8	772.0	771.3	771.8	773.0	772.0	772.8	770.9	771.6	772.7	770.6
11.5°	771.5	770.9	769.4	770.0	771.6	771.0	771.9	769.5	769.9	770.6	769.3
12°	769.8	769.9	768.1	769.1	770.0	769.3	769.6	767.7	768.7	768.7	767.9
12.5°	768.2	768.6	767.2	767.4	768.8	768.3	768.0	766.4	767.2	767.2	766.1
13°	766.8	767.2	765.6	765.9	766.9	766.5	766.5	765.0	765.3	765.7	764.3
13.5°	765.0	765.7	764.4	763.6	765.4	764.2	763.9	763.0	764.0	764.4	762.7
14°	762.9	763.7	762.5	762.0	763.4	762.7	762.3	760.9	762.4	762.4	760.6
14.5°	760.6	761.7	760.9	760.0	761.2	760.9	761.1	759.1	759.9	760.9	758.3
15°	758.3	760.1	759.5	758.6	759.2	759.5	759.6	756.6	758.5	759.1	757.1
15.5°	756.0	758.1	757.9	756.0	757.3	757.3	757.4	754.8	756.1	757.2	755.0
16°	753.8	755.4	755.8	753.9	754.9	754.9	754.8	753.5	753.8	754.7	753.3
16.5°	751.6	752.8	753.6	752.1	753.2	752.8	752.5	751.6	751.8	752.4	751.5
17°	749.5	750.6	751.8	749.6	750.8	750.5	750.6	749.6	749.6	749.9	749.4
17.5°	747.0	748.1	749.6	746.8	748.3	748.1	748.6	747.1	746.8	747.9	747.1
18°	744.9	745.4	747.4	745.0	746.1	746.1	746.4	744.7	744.4	745.2	744.6
18.5°	742.4	743.2	745.4	742.8	744.1	743.5	743.9	742.9	742.0	743.2	742.1
19°	739.9	740.5	742.6	740.3	741.3	741.6	741.7	740.7	739.9	740.8	740.1
19.5°	737.4	737.9	740.2	737.3	738.8	739.3	739.1	737.9	738.0	738.4	738.0
20°	734.7	735.7	737.2	735.1	736.5	736.8	736.7	735.7	735.3	735.9	735.3
20.5°	732.4	733.6	735.0	732.3	734.4	734.7	734.3	732.9	732.9	733.0	733.0
21°	729.8	730.4	732.4	730.2	731.7	731.5	731.5	730.8	730.2	730.5	730.0
21.5°	726.9	727.8	729.5	727.0	728.8	728.4	728.3	727.9	727.1	727.7	727.0
22°	724.5	725.1	725.5	724.6	726.1	725.3	725.8	725.8	724.7	724.7	724.2

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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°	721.8	722.6	723.6	721.9	723.3	722.3	723.1	722.5	721.6	721.6	721.0
23°	719.1	719.8	720.6	718.8	720.6	719.6	720.3	719.3	719.1	718.6	717.7
23.5°	716.5	717.0	717.7	716.0	717.5	716.9	717.3	716.2	715.5	715.6	715.5
24°	713.8	714.0	714.3	713.2	714.5	714.3	714.6	713.4	712.6	713.2	712.3
24.5°	710.5	710.8	711.5	710.1	711.5	711.4	711.9	710.7	709.5	710.7	709.6
25°	706.7	708.1	708.6	706.7	707.9	708.3	708.6	707.6	706.0	706.9	706.2
25.5°	703.7	705.1	705.2	703.6	705.2	705.1	705.1	703.9	703.6	703.6	703.5
26°	699.9	701.4	701.6	699.9	702.0	701.9	702.1	700.7	700.3	701.0	700.3
26.5°	697.1	698.2	698.7	696.8	699.1	698.4	698.8	696.9	696.5	697.2	696.5
27°	693.9	695.1	694.8	694.1	695.9	695.1	695.9	694.2	693.2	693.8	693.7
27.5°	690.4	691.5	691.5	690.6	692.2	691.5	692.6	690.8	690.2	690.6	689.9
28°	686.8	687.7	687.9	687.1	688.9	688.5	688.6	687.2	686.4	687.5	686.8
28.5°	683.2	684.2	684.2	684.4	685.4	684.8	685.0	684.2	682.5	684.2	683.2
29°	679.5	680.7	681.0	680.4	681.3	680.9	681.3	680.4	678.7	680.5	679.0
29.5°	675.9	676.9	677.2	677.1	677.7	677.4	678.1	676.5	675.4	677.3	675.1
30°	672.2	673.1	673.5	673.3	674.3	674.1	674.5	673.1	671.7	672.9	671.3
30.5°	668.5	669.4	670.0	670.0	670.3	670.4	670.4	669.4	667.9	669.1	667.8
31°	665.0	665.4	665.6	666.5	666.3	666.7	666.2	665.6	664.0	665.4	664.2
31.5°	661.0	661.9	662.1	662.6	662.3	662.7	662.6	661.5	659.9	661.2	660.3
32°	656.7	658.2	658.3	658.4	658.2	658.9	658.8	657.5	656.0	657.3	656.5
32.5°	652.9	654.3	654.6	654.9	654.9	655.0	655.3	654.0	652.8	653.9	652.4
33°	648.3	650.1	650.1	650.8	651.0	650.8	651.1	649.9	648.7	650.0	648.7
33.5°	644.5	646.2	646.6	646.8	646.9	646.3	647.3	645.8	644.6	646.2	644.5
34°	640.5	642.4	642.3	642.8	642.8	642.4	643.5	641.3	640.3	641.4	640.4
34.5°	636.4	637.6	638.1	638.5	638.7	638.4	639.6	636.9	636.4	637.2	636.7
35°	631.8	632.5	633.5	634.1	634.3	634.4	635.6	633.3	632.3	632.8	632.2
35.5°	628.0	628.4	629.2	629.4	630.4	630.5	631.2	628.8	628.2	628.3	627.9
36°	623.5	624.2	624.5	625.3	625.9	625.6	626.9	624.3	623.6	624.0	623.5
36.5°	618.8	620.5	620.2	621.0	621.6	620.9	622.5	619.9	619.0	619.4	618.5
37°	613.9	615.6	616.1	616.6	617.1	617.0	618.0	614.9	614.2	615.2	614.5
37.5°	609.6	611.5	612.0	612.2	612.3	612.3	613.1	611.0	609.8	610.7	610.2
38°	605.1	607.2	607.3	607.3	607.9	607.4	608.2	606.6	605.9	606.5	605.9
38.5°	600.5	602.1	602.4	602.5	603.1	602.6	603.8	602.0	601.4	601.7	601.6
39°	595.9	597.8	597.6	597.9	598.6	598.1	599.2	597.1	596.9	596.9	596.5
39.5°	591.2	592.8	592.9	592.7	593.9	594.3	594.1	592.6	592.4	592.1	591.8
40°	586.4	587.6	588.1	588.1	589.0	589.8	589.5	588.5	587.4	587.6	587.2
40.5°	581.8	583.3	583.5	583.0	584.1	585.0	585.2	583.8	582.6	582.9	582.3
41°	576.8	578.5	578.7	578.4	579.8	580.2	580.1	578.9	577.4	578.1	577.6
41.5°	572.4	573.5	574.0	573.2	574.9	575.8	575.7	574.1	573.2	573.3	573.1
42°	567.2	568.4	569.0	568.4	569.5	570.6	570.4	569.4	568.8	568.1	568.1
42.5°	561.9	563.4	564.3	563.3	564.8	565.6	565.2	564.4	563.6	562.9	563.1
43°	556.9	558.3	559.4	558.3	560.0	560.4	560.2	559.2	558.4	557.8	558.2
43.5°	551.7	553.5	554.0	553.3	555.0	555.0	555.3	554.2	553.5	552.7	552.9
44°	546.5	548.3	548.9	548.4	549.8	550.0	550.2	549.2	548.2	547.6	547.9
44.5°	541.5	542.9	543.7	542.9	544.8	545.1	545.1	544.1	543.2	542.6	542.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	536.0	537.9	538.7	537.9	539.8	540.1	539.6	538.9	538.3	537.7	537.1
45.5°	530.4	532.5	533.7	532.7	534.8	534.9	534.2	533.9	532.9	532.4	531.7
46°	525.4	527.8	528.1	527.7	529.3	529.3	529.2	528.4	527.3	526.8	526.7
46.5°	520.7	522.3	522.6	522.4	523.9	524.0	524.2	522.9	522.0	522.1	521.2
47°	515.5	516.8	517.1	517.0	518.4	518.6	518.8	517.3	516.8	516.4	515.8
47.5°	510.4	511.8	511.5	511.3	513.0	513.5	513.1	511.9	511.4	510.9	510.1
48°	504.6	506.1	505.8	506.0	507.6	508.2	507.8	506.7	505.6	505.7	504.6
48.5°	498.9	500.5	500.5	500.2	502.3	502.3	502.3	501.3	499.9	500.1	499.4
49°	493.4	495.0	494.8	494.8	497.0	496.8	496.6	495.6	494.8	494.7	493.9
49.5°	487.9	489.5	489.3	489.0	491.4	490.9	491.1	490.4	489.0	489.5	488.3
50°	482.5	483.7	483.7	483.3	485.8	485.8	485.5	484.4	483.2	483.6	483.0
50.5°	476.2	478.1	478.1	477.8	480.0	479.9	479.8	478.9	477.7	477.9	477.4
51°	470.6	472.2	472.1	471.9	474.0	474.0	474.3	472.9	472.0	472.3	472.0
51.5°	464.8	466.5	466.6	466.3	468.3	468.1	468.5	467.2	466.1	466.5	465.6
52°	459.1	460.9	460.6	460.5	462.4	462.6	462.7	461.3	459.8	460.6	459.8
52.5°	453.1	454.7	454.7	454.7	456.8	457.1	456.8	455.5	454.3	455.2	454.0
53°	447.2	448.9	448.6	448.4	450.6	451.0	450.6	449.5	448.8	449.2	448.4
53.5°	441.2	442.8	442.6	442.3	444.5	444.7	444.4	444.0	442.8	443.7	442.3
54°	435.1	436.4	436.6	436.3	438.5	438.7	438.5	438.0	436.7	437.3	436.7
54.5°	428.7	430.2	430.7	430.5	432.6	432.6	432.4	431.6	430.6	431.2	430.9
55°	423.1	424.5	424.0	424.7	426.4	426.6	426.6	425.8	424.8	425.2	425.0
55.5°	417.3	418.3	418.2	418.3	420.3	420.9	420.1	419.3	418.7	419.6	418.8
56°	411.0	412.3	411.9	412.4	414.2	414.9	414.8	413.6	412.8	413.3	412.7
56.5°	405.0	406.0	405.9	406.2	408.1	408.7	408.6	407.2	406.4	407.0	406.3
57°	398.4	399.5	399.7	400.2	401.9	402.6	402.2	401.2	400.0	400.8	400.3
57.5°	391.8	393.1	393.4	393.7	395.7	395.9	396.0	394.9	394.0	394.6	394.3
58°	385.9	386.8	387.0	387.1	389.2	389.9	389.2	388.9	387.6	388.0	388.3
58.5°	379.5	380.7	380.8	380.8	383.0	383.8	382.4	382.4	381.4	381.7	381.9
59°	372.9	374.6	373.9	374.1	376.9	376.9	376.4	376.0	375.2	375.7	375.4
59.5°	366.5	367.7	367.4	367.7	370.6	370.3	370.0	369.5	368.5	369.4	369.0
60°	360.5	361.2	360.8	361.1	364.1	364.0	363.7	363.6	362.2	362.8	362.5
60.5°	354.4	354.6	354.5	354.2	357.5	357.5	356.7	356.7	355.2	356.2	356.0
61°	347.4	347.9	348.1	347.7	350.8	351.4	350.3	350.7	349.2	349.6	349.3
61.5°	340.9	341.5	341.8	341.0	344.1	344.8	343.7	343.9	342.9	343.5	342.8
62°	334.3	334.9	335.3	334.9	337.8	338.3	337.9	337.6	336.5	336.9	336.8
62.5°	327.8	328.0	328.6	328.0	330.8	331.4	331.0	330.9	329.7	330.2	329.9
63°	320.9	321.2	322.0	321.6	324.1	325.1	324.4	324.3	323.1	323.5	323.0
63.5°	314.3	314.9	315.2	314.9	317.6	318.4	317.9	317.9	316.8	316.9	316.7
64°	307.5	308.1	308.4	308.2	311.1	311.7	311.2	310.8	310.1	310.3	309.8
64.5°	301.1	301.8	302.0	301.4	304.3	304.5	304.2	303.8	303.3	303.3	303.1
65°	294.4	295.0	294.9	294.8	297.7	298.3	297.8	297.2	296.7	297.0	296.7
65.5°	287.5	287.9	288.0	287.5	291.4	291.0	290.7	290.3	289.7	290.3	290.1
66°	280.7	281.1	281.1	280.6	284.3	284.1	283.3	283.3	282.7	283.5	283.2
66.5°	273.5	274.2	273.8	273.8	277.2	277.1	276.8	276.5	276.2	276.7	276.1
67°	266.3	266.9	267.0	266.9	270.2	270.6	270.1	269.9	269.3	269.7	269.6

TEST NUMBER: P869678
 CATALOG NUMBER: SMX14SLSFS010-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	259.7	260.3	260.2	260.1	263.2	263.6	263.0	262.8	262.5	262.9	262.5
68°	252.6	253.3	253.1	253.3	256.4	256.9	256.2	255.9	256.1	256.0	255.6
68.5°	245.7	246.2	246.2	246.1	249.7	250.1	249.4	249.1	249.4	249.3	248.6
69°	238.9	239.4	239.3	239.0	242.9	243.1	242.4	242.1	242.1	242.0	241.2
69.5°	231.5	232.1	232.3	232.0	235.6	236.0	235.4	235.0	235.1	235.1	234.6
70°	224.5	225.2	225.0	224.8	228.6	229.0	228.2	227.8	228.0	228.2	227.4
70.5°	217.5	218.2	217.6	218.0	221.7	222.1	221.3	221.1	221.3	221.0	220.6
71°	210.5	210.9	210.6	210.7	214.6	215.0	214.0	214.3	214.1	214.1	213.7
71.5°	203.8	204.1	203.7	203.5	207.5	207.7	207.2	207.0	207.3	206.8	206.5
72°	196.7	196.9	196.6	196.4	200.3	200.7	200.1	200.1	200.3	199.8	199.5
72.5°	189.3	190.1	189.8	189.1	193.5	193.7	193.4	193.0	193.3	192.9	192.5
73°	182.5	183.0	182.7	182.5	186.4	186.7	186.3	186.1	186.1	185.9	185.5
73.5°	175.5	176.0	175.5	175.5	179.5	179.9	179.7	179.3	179.2	179.0	178.8
74°	168.3	168.7	168.6	168.5	172.5	173.0	172.9	172.2	172.3	171.9	171.7
74.5°	161.4	162.1	161.5	161.6	165.4	165.9	165.3	165.2	165.1	165.1	164.8
75°	154.3	154.8	154.6	154.3	157.9	158.5	158.4	158.1	158.0	158.0	157.9
75.5°	147.4	147.5	147.4	147.3	151.0	151.6	151.2	151.2	151.1	151.1	151.0
76°	140.5	140.7	140.5	140.6	144.0	144.6	144.0	144.1	144.1	144.0	143.9
76.5°	133.4	133.7	133.8	133.4	137.2	137.4	137.1	137.3	137.2	137.1	137.2
77°	126.6	126.7	126.5	126.6	130.2	130.8	130.5	130.3	130.2	130.4	130.4
77.5°	119.7	120.2	119.9	119.9	123.2	123.7	123.4	123.5	123.4	123.6	123.6
78°	112.9	113.3	112.9	113.1	116.5	116.8	116.6	116.4	116.2	116.7	116.6
78.5°	106.3	106.5	106.2	106.4	110.1	110.1	110.1	109.7	109.4	109.9	110.0
79°	99.7	99.9	99.6	100.1	103.6	103.7	103.4	103.3	102.9	103.4	103.2
79.5°	93.1	93.4	93.2	93.4	97.0	96.9	96.6	96.6	96.3	96.8	96.8
80°	86.7	86.8	86.7	86.6	90.2	90.4	89.9	89.9	89.8	90.3	90.2
80.5°	80.2	80.3	80.2	80.1	83.6	84.1	83.7	83.6	83.4	83.8	83.9
81°	74.1	74.2	74.0	73.5	77.2	77.6	77.4	77.1	77.2	77.5	77.6
81.5°	67.9	68.0	67.8	67.5	70.9	71.2	70.9	70.8	70.8	71.2	71.3
82°	62.0	62.0	61.9	61.4	64.8	65.0	64.8	64.6	64.6	64.9	65.2
82.5°	56.1	56.2	55.9	55.6	59.1	59.3	59.1	58.9	58.8	59.2	59.5
83°	50.2	50.4	50.1	49.6	53.2	53.3	53.3	53.0	53.0	53.4	53.8
83.5°	44.6	44.8	44.5	44.3	47.2	47.6	47.3	47.3	47.3	47.6	48.0
84°	39.4	39.6	39.3	38.8	41.8	41.9	41.9	41.7	41.6	42.0	42.4
84.5°	34.5	34.5	34.4	34.0	36.6	37.0	36.6	36.5	36.4	36.7	37.1
85°	29.7	29.6	29.6	29.1	31.5	31.7	31.6	31.4	31.3	31.6	31.9
85.5°	25.3	25.3	25.3	24.9	26.7	26.8	26.7	26.7	26.6	26.8	27.2
86°	21.1	21.1	21.0	20.6	22.8	22.8	22.8	22.7	22.7	23.0	23.2
86.5°	17.1	17.2	17.1	16.8	18.9	18.9	19.0	18.7	18.8	19.1	19.2
87°	13.2	13.2	13.3	12.9	15.1	15.2	15.3	15.0	15.0	15.2	15.4
87.5°	9.7	9.6	9.6	9.3	11.6	11.6	11.6	11.5	11.4	11.7	11.9
88°	6.8	6.9	6.8	6.6	8.4	8.4	8.4	8.3	8.3	8.5	8.7
88.5°	4.5	4.6	4.5	4.3	5.7	6.0	5.7	5.6	5.5	5.8	5.9
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°	1.6	1.6	1.6	1.5	1.7	1.8	1.7	1.5	1.4	1.6	1.7

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



TEST NUMBER: P869678
CATALOG NUMBER: SMX14SLSFS010-2000LM-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: P869678
 CATALOG NUMBER: SMX14SLSFS010-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	787.2	787.2	787.2	787.2	787.2	787.2
0.5°	786.5	788.2	787.6	787.2	787.0	786.8
1°	786.3	788.0	788.2	786.8	786.5	786.8
1.5°	786.6	788.2	787.7	787.3	786.0	786.4
2°	786.0	787.5	787.1	786.8	786.2	786.3
2.5°	786.2	787.1	786.6	786.1	786.6	786.0
3°	785.8	786.1	785.9	785.9	786.2	784.9
3.5°	785.0	785.4	785.9	785.1	786.0	784.5
4°	784.9	785.0	785.8	784.3	785.1	784.4
4.5°	784.2	784.3	784.7	784.0	784.7	783.9
5°	783.0	783.9	783.6	783.7	783.6	783.3
5.5°	782.2	783.1	783.1	783.8	783.0	783.0
6°	781.0	782.3	781.9	782.8	782.4	782.5
6.5°	780.6	781.2	781.1	782.2	781.1	781.9
7°	779.7	780.4	780.1	780.8	780.1	781.0
7.5°	779.6	779.8	779.4	779.6	779.8	780.1
8°	778.0	779.1	777.9	778.7	778.4	778.7
8.5°	776.9	778.0	777.5	777.8	777.0	777.9
9°	775.6	776.6	776.5	776.4	776.1	777.2
9.5°	774.0	775.8	774.9	775.2	774.9	776.1
10°	773.3	774.3	773.3	773.9	774.0	775.1
10.5°	771.8	772.8	772.4	772.7	773.2	774.1
11°	770.4	770.9	771.4	771.1	771.6	772.8
11.5°	768.9	769.2	770.3	769.0	770.4	771.5
12°	767.4	767.9	768.8	767.8	768.9	769.8
12.5°	766.0	766.4	767.2	767.1	768.3	768.2
13°	764.7	764.8	765.6	765.2	766.4	766.8
13.5°	762.9	762.8	763.4	763.9	764.5	765.0
14°	761.3	760.6	761.3	762.8	762.8	762.9
14.5°	759.0	758.6	758.9	760.7	760.6	760.6
15°	757.3	757.0	756.8	759.1	758.3	758.3
15.5°	755.2	755.0	755.0	757.5	756.4	756.0
16°	753.3	753.0	752.6	755.8	753.5	753.8
16.5°	751.2	750.9	750.9	753.6	751.7	751.6
17°	748.9	748.7	748.7	751.0	749.4	749.5
17.5°	746.7	746.8	746.2	748.6	746.8	747.0
18°	744.4	744.5	744.3	746.5	744.8	744.9
18.5°	742.2	742.3	741.9	743.6	741.9	742.4
19°	740.1	740.1	739.7	741.2	739.2	739.9
19.5°	737.2	737.5	737.7	738.5	736.8	737.4
20°	734.9	734.9	735.8	735.8	734.6	734.7
20.5°	732.0	732.2	733.3	733.3	732.4	732.4
21°	729.5	729.4	730.6	730.9	729.9	729.8
21.5°	726.7	726.6	728.3	728.0	727.7	726.9
22°	724.3	724.3	726.0	725.2	724.8	724.5

TEST NUMBER: P869678
 CATALOG NUMBER: SMX14SLSFS010-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	721.0	721.1	722.8	722.1	721.9	721.8
23°	718.4	718.4	719.5	718.9	719.0	719.1
23.5°	715.8	715.4	717.2	716.1	716.2	716.5
24°	712.8	712.2	714.4	712.6	712.7	713.8
24.5°	709.7	709.2	710.3	710.1	709.7	710.5
25°	706.1	706.1	707.2	706.3	706.1	706.7
25.5°	703.0	703.0	703.9	703.3	703.0	703.7
26°	699.3	699.8	700.1	699.7	699.6	699.9
26.5°	696.0	696.1	696.8	696.0	696.0	697.1
27°	692.8	692.8	693.7	692.8	692.8	693.9
27.5°	690.0	689.4	690.4	689.4	689.4	690.4
28°	686.2	685.5	687.0	685.8	685.6	686.8
28.5°	682.8	681.8	683.6	682.9	682.6	683.2
29°	679.1	678.5	680.1	679.0	678.7	679.5
29.5°	675.2	674.5	676.8	675.4	675.0	675.9
30°	671.5	670.9	673.1	671.6	670.9	672.2
30.5°	667.6	667.7	669.2	667.3	667.1	668.5
31°	663.6	663.6	664.6	663.8	663.4	665.0
31.5°	659.8	659.7	660.3	660.0	659.5	661.0
32°	656.1	656.2	656.2	655.9	655.3	656.7
32.5°	652.5	651.9	652.6	652.6	651.7	652.9
33°	648.5	648.5	648.4	648.4	647.6	648.3
33.5°	644.4	644.2	644.7	644.1	643.7	644.5
34°	640.0	639.9	640.0	640.4	639.2	640.5
34.5°	636.2	635.4	636.0	636.4	635.1	636.4
35°	632.3	630.9	631.4	632.2	631.1	631.8
35.5°	628.0	626.4	627.1	627.9	626.9	628.0
36°	623.3	622.4	622.8	623.2	622.4	623.5
36.5°	619.0	617.9	618.2	618.6	618.3	618.8
37°	614.5	613.6	613.8	614.1	613.9	613.9
37.5°	610.2	608.7	609.2	610.0	609.5	609.6
38°	605.9	603.9	604.7	605.3	605.4	605.1
38.5°	601.6	599.2	600.5	600.2	600.5	600.5
39°	596.9	595.0	595.9	595.8	595.7	595.9
39.5°	592.2	590.4	591.4	591.1	591.1	591.2
40°	587.3	585.9	586.6	586.4	586.1	586.4
40.5°	582.2	581.4	581.6	581.4	581.6	581.8
41°	577.5	577.2	577.1	577.0	576.8	576.8
41.5°	572.5	572.0	572.4	572.4	572.7	572.4
42°	567.6	567.0	567.3	567.5	568.1	567.2
42.5°	562.7	561.7	562.6	562.4	562.2	561.9
43°	557.7	556.7	557.1	557.3	556.9	556.9
43.5°	553.1	551.5	552.6	552.0	551.9	551.7
44°	547.8	546.1	547.6	546.7	546.6	546.5
44.5°	542.9	541.4	542.1	541.6	542.3	541.5

TEST NUMBER: P869678
 CATALOG NUMBER: SMX14SLSFS010-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	537.6	536.0	536.9	536.5	536.7	536.0
45.5°	532.6	530.7	531.6	531.2	530.8	530.4
46°	527.1	525.5	526.2	526.1	525.4	525.4
46.5°	521.6	519.9	521.3	520.6	520.0	520.7
47°	516.2	514.3	516.2	515.4	515.0	515.5
47.5°	510.7	508.8	510.7	509.8	510.1	510.4
48°	505.2	503.5	505.0	504.2	504.9	504.6
48.5°	500.1	498.3	499.4	498.8	499.3	498.9
49°	494.0	492.8	493.8	493.1	492.9	493.4
49.5°	488.6	487.3	488.4	487.5	487.2	487.9
50°	483.2	481.7	482.6	481.9	482.2	482.5
50.5°	477.6	476.0	476.8	476.2	476.2	476.2
51°	472.2	470.2	471.1	470.5	470.1	470.6
51.5°	466.2	464.1	465.0	464.7	464.0	464.8
52°	460.5	458.4	459.4	458.9	458.2	459.1
52.5°	454.3	452.2	453.5	453.4	452.5	453.1
53°	448.7	446.8	447.2	447.3	446.8	447.2
53.5°	442.9	441.0	441.6	441.4	440.8	441.2
54°	437.0	434.9	435.0	435.2	435.2	435.1
54.5°	431.0	428.9	429.4	428.6	428.6	428.7
55°	424.9	423.3	423.3	422.4	422.7	423.1
55.5°	418.9	417.2	417.4	416.3	416.7	417.3
56°	413.4	410.9	411.2	410.1	410.7	411.0
56.5°	406.9	404.8	405.0	404.3	404.7	405.0
57°	400.6	398.3	398.8	397.9	398.3	398.4
57.5°	394.4	392.2	392.6	391.8	391.8	391.8
58°	388.3	385.8	385.9	386.2	385.4	385.9
58.5°	381.9	379.6	379.6	379.9	379.7	379.5
59°	375.6	373.1	373.1	373.5	373.4	372.9
59.5°	368.9	366.7	366.5	366.7	367.0	366.5
60°	362.2	360.4	360.2	360.2	360.2	360.5
60.5°	356.1	354.0	353.8	353.6	353.4	354.4
61°	349.9	347.3	347.6	346.8	346.9	347.4
61.5°	343.4	340.6	341.3	340.1	340.7	340.9
62°	336.7	334.4	334.6	333.5	333.7	334.3
62.5°	330.1	327.7	328.0	327.2	327.0	327.8
63°	323.4	320.8	321.1	320.8	320.3	320.9
63.5°	316.6	314.1	314.6	313.7	313.5	314.3
64°	310.4	307.3	307.7	307.1	307.0	307.5
64.5°	303.1	300.7	301.2	300.6	300.4	301.1
65°	296.9	293.7	294.2	293.7	293.5	294.4
65.5°	289.9	287.0	287.2	286.8	286.9	287.5
66°	282.8	280.0	280.1	280.2	280.2	280.7
66.5°	276.0	273.1	273.3	273.2	273.7	273.5
67°	269.6	266.0	266.5	266.1	267.1	266.3

TEST NUMBER: P869678
 CATALOG NUMBER: SMX14SLSFS010-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	262.4	259.2	260.2	259.4	260.2	259.7
68°	255.6	252.3	253.0	252.3	252.5	252.6
68.5°	248.6	245.9	246.0	245.5	245.6	245.7
69°	241.5	239.0	239.3	239.0	239.0	238.9
69.5°	234.6	231.8	232.3	231.8	231.9	231.5
70°	227.6	224.7	225.0	224.8	224.8	224.5
70.5°	221.1	217.8	218.1	218.0	218.1	217.5
71°	214.3	210.2	210.7	210.8	210.8	210.5
71.5°	207.0	203.6	204.0	203.6	203.6	203.8
72°	199.9	196.6	196.6	196.5	196.3	196.7
72.5°	193.0	189.6	189.7	189.6	188.9	189.3
73°	186.3	182.6	183.2	182.7	182.2	182.5
73.5°	179.3	175.5	176.2	175.6	175.4	175.5
74°	172.6	168.5	168.9	168.2	168.3	168.3
74.5°	165.4	161.6	161.9	161.4	161.1	161.4
75°	158.4	154.5	154.7	154.3	153.9	154.3
75.5°	151.3	147.6	147.7	147.2	147.0	147.4
76°	144.4	140.6	140.7	140.3	140.2	140.5
76.5°	137.6	133.4	133.7	133.5	133.3	133.4
77°	130.7	126.7	126.7	126.4	126.4	126.6
77.5°	123.7	120.3	119.9	119.8	119.9	119.7
78°	116.8	113.4	112.9	113.0	113.0	112.9
78.5°	110.1	106.8	106.3	106.3	106.4	106.3
79°	103.5	100.3	99.7	99.8	100.2	99.7
79.5°	96.9	93.4	93.4	93.2	93.6	93.1
80°	90.4	86.8	86.8	86.6	87.0	86.7
80.5°	84.1	80.5	80.5	80.5	80.3	80.2
81°	77.7	74.2	74.3	74.3	74.1	74.1
81.5°	71.3	68.0	68.3	68.4	67.9	67.9
82°	65.2	62.1	62.2	62.3	61.8	62.0
82.5°	59.5	56.2	56.5	56.2	55.9	56.1
83°	53.8	50.6	50.7	50.6	50.1	50.2
83.5°	48.0	45.1	45.1	45.0	44.5	44.6
84°	42.4	39.8	39.8	39.7	39.4	39.4
84.5°	37.1	34.6	34.7	34.6	34.5	34.5
85°	32.1	29.8	30.0	29.7	29.7	29.7
85.5°	27.2	25.5	25.6	25.5	25.5	25.3
86°	23.3	21.2	21.4	21.4	21.2	21.1
86.5°	19.3	17.2	17.5	17.3	17.2	17.1
87°	15.6	13.4	13.6	13.5	13.4	13.2
87.5°	12.1	9.7	9.9	9.9	9.8	9.7
88°	8.8	6.9	7.1	7.0	7.0	6.8
88.5°	6.0	4.5	4.7	4.7	4.7	4.5
89°	3.7	2.6	2.8	2.8	2.8	2.7
89.5°	1.9	1.5	1.6	1.6	1.6	1.6

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869678
CATALOG NUMBER: SMX14SLSFS010-2000LM-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)