

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: P869679

Luminaire Tested: **SMX14SLSFS010-2000LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869679
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14SLSFS010-2000LM-4000K
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

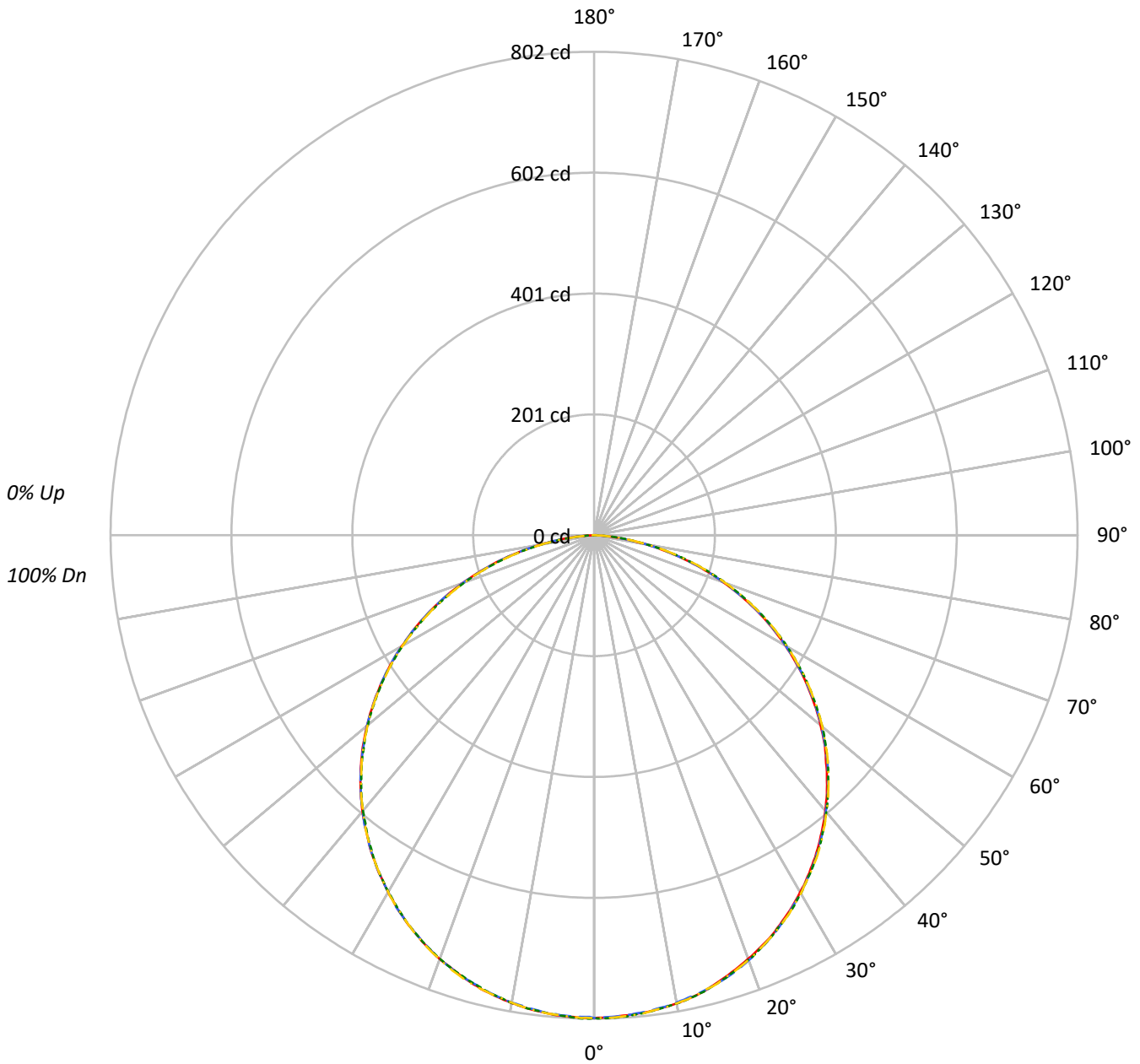
Lumens per Lamp: N/A
 Luminaire Lumens: 2340.0 lumens
 Efficiency: N/A
 Efficacy: 90.3 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
 CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6330	6330	6330	6330
5°	6323	6333	6330	6328
10°	6329	6328	6324	6323
15°	6313	6320	6314	6301
20°	6287	6302	6292	6289
25°	6270	6281	6264	6265
30°	6242	6261	6237	6230
35°	6202	6227	6207	6193
40°	6155	6182	6167	6150
45°	6096	6138	6121	6096
50°	6036	6077	6046	6026
55°	5932	5979	5956	5935
60°	5798	5855	5825	5797
65°	5601	5665	5644	5588
70°	5278	5375	5361	5283
75°	4794	4907	4910	4800
80°	4014	4174	4156	4019
85°	2739	2902	2884	2748

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.2
10°-20°	217.8	9.3
20°-30°	331.6	14.2
30°-40°	402.7	17.2
40°-50°	422.0	18.0
50°-60°	385.9	16.5
60°-70°	297.1	12.7
70°-80°	168.1	7.2
80°-90°	39.1	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°	625.2	26.7
0°-40°	1027.9	43.9
0°-60°	1835.7	78.5
0°-90°	2340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2340.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	801	801	801	801	801	
5°	797	798	798	798	797	76
15°	772	772	772	770	772	218
25°	719	720	718	718	719	331
35°	643	645	643	642	643	402
45°	545	549	548	545	545	421
55°	430	434	432	431	430	384
65°	300	303	302	299	300	296
75°	157	161	161	157	157	166
85°	30	32	32	30	30	38
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°	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9
0.5°	800.5	801.9	799.8	800.7	801.5	801.0	801.1	801.0	800.6	801.5	798.9
1°	800.5	802.1	800.2	800.3	801.5	800.8	800.7	800.5	800.8	800.8	799.1
1.5°	800.1	801.3	799.8	799.9	801.4	800.5	801.2	800.0	800.4	800.9	799.2
2°	800.0	801.1	799.5	800.0	801.1	800.1	800.9	799.8	800.6	801.1	799.1
2.5°	799.7	801.0	799.4	799.3	801.2	800.4	800.5	799.7	799.8	800.9	798.9
3°	798.6	800.7	798.6	799.0	800.4	799.9	800.1	799.6	799.5	800.1	798.7
3.5°	798.2	799.9	798.7	798.7	800.1	799.2	799.5	799.2	799.1	800.0	798.4
4°	798.1	799.2	797.8	797.8	800.0	799.1	799.1	799.1	798.7	799.3	798.2
4.5°	797.6	798.9	797.3	797.5	798.9	798.5	798.6	798.2	798.6	799.7	797.1
5°	797.0	798.4	796.3	797.3	798.2	798.0	798.4	797.5	797.8	798.6	796.9
5.5°	796.6	797.5	796.1	796.5	797.5	797.4	798.0	796.4	797.0	797.7	796.3
6°	796.1	796.7	795.4	795.9	796.9	796.1	796.9	795.9	796.1	796.6	795.6
6.5°	795.5	796.5	794.4	795.0	796.1	794.8	796.1	795.3	795.0	795.8	794.4
7°	794.6	795.5	793.7	794.3	795.0	794.4	794.5	794.1	794.6	794.7	793.4
7.5°	793.7	794.3	792.3	793.0	794.0	793.3	793.7	793.1	793.5	794.1	792.5
8°	792.3	793.2	791.5	792.1	792.9	792.2	792.9	792.2	792.6	793.1	791.3
8.5°	791.5	792.3	791.2	790.8	791.8	791.5	791.9	790.5	791.5	791.5	789.9
9°	790.7	791.4	789.8	789.9	790.7	790.1	791.2	789.4	790.3	790.7	788.9
9.5°	789.6	789.9	788.5	788.8	789.6	788.6	789.6	788.4	788.9	789.9	788.0
10°	788.6	788.1	787.2	787.7	788.5	788.1	788.6	787.3	788.0	788.5	787.3
10.5°	787.6	787.2	785.6	786.3	788.1	786.6	787.1	785.9	786.3	787.0	785.7
11°	786.3	785.4	784.7	785.2	786.5	785.4	786.3	784.3	785.0	786.1	784.0
11.5°	784.9	784.3	782.8	783.4	785.0	784.4	785.3	782.9	783.3	784.0	782.7
12°	783.2	783.3	781.5	782.5	783.4	782.7	783.0	781.1	782.1	782.1	781.3
12.5°	781.6	782.0	780.5	780.7	782.2	781.7	781.4	779.7	780.5	780.5	779.4
13°	780.1	780.5	778.9	779.2	780.2	779.8	779.8	778.3	778.6	779.0	777.6
13.5°	778.3	779.0	777.7	776.9	778.7	777.5	777.2	776.3	777.3	777.7	776.0
14°	776.2	777.0	775.8	775.2	776.7	776.0	775.6	774.1	775.7	775.7	773.8
14.5°	773.8	774.9	774.1	773.2	774.4	774.1	774.3	772.3	773.1	774.1	771.5
15°	771.5	773.3	772.7	771.8	772.4	772.7	772.8	769.7	771.7	772.3	770.2
15.5°	769.1	771.3	771.1	769.1	770.5	770.5	770.6	767.9	769.2	770.3	768.1
16°	766.9	768.5	768.9	767.0	768.0	768.0	767.9	766.6	766.9	767.8	766.4
16.5°	764.6	765.9	766.7	765.2	766.3	765.9	765.6	764.6	764.8	765.5	764.5
17°	762.5	763.6	764.8	762.6	763.8	763.5	763.6	762.6	762.6	762.9	762.4
17.5°	760.0	761.1	762.6	759.8	761.3	761.1	761.6	760.1	759.8	760.9	760.1
18°	757.8	758.3	760.4	757.9	759.0	759.0	759.3	757.6	757.3	758.1	757.5
18.5°	755.3	756.1	758.3	755.7	757.0	756.4	756.8	755.8	754.9	756.1	755.0
19°	752.8	753.4	755.5	753.2	754.1	754.4	754.5	753.6	752.8	753.7	753.0
19.5°	750.3	750.8	753.1	750.2	751.7	752.2	752.0	750.8	750.9	751.3	750.9
20°	747.5	748.5	750.1	747.9	749.3	749.7	749.6	748.5	748.1	748.7	748.1
20.5°	745.2	746.4	747.8	745.1	747.2	747.5	747.1	745.7	745.7	745.8	745.8
21°	742.5	743.1	745.2	742.9	744.5	744.3	744.3	743.5	742.9	743.2	742.7
21.5°	739.6	740.5	742.2	739.7	741.5	741.1	741.0	740.6	739.8	740.4	739.7
22°	737.1	737.7	738.1	737.2	738.7	737.9	738.4	738.4	737.3	737.3	736.8

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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°	734.4	735.2	736.2	734.5	735.9	734.9	735.7	735.1	734.2	734.2	733.6
23°	731.6	732.3	733.1	731.3	733.1	732.1	732.8	731.8	731.6	731.1	730.2
23.5°	729.0	729.5	730.2	728.5	730.0	729.4	729.8	728.7	727.9	728.0	727.9
24°	726.2	726.4	726.7	725.6	726.9	726.7	727.0	725.8	725.0	725.6	724.7
24.5°	722.8	723.2	723.9	722.4	723.9	723.8	724.3	723.0	721.8	723.0	721.9
25°	719.0	720.4	720.9	719.0	720.2	720.6	720.9	719.9	718.3	719.2	718.5
25.5°	715.9	717.3	717.4	715.8	717.4	717.3	717.3	716.1	715.8	715.8	715.7
26°	712.0	713.6	713.8	712.0	714.2	714.1	714.3	712.9	712.4	713.2	712.5
26.5°	709.2	710.3	710.8	708.9	711.2	710.5	710.9	709.0	708.6	709.3	708.6
27°	705.9	707.2	706.8	706.1	708.0	707.1	708.0	706.2	705.2	705.8	705.7
27.5°	702.4	703.5	703.5	702.6	704.2	703.5	704.6	702.8	702.2	702.6	701.8
28°	698.8	699.7	699.9	699.1	700.9	700.5	700.6	699.2	698.4	699.5	698.8
28.5°	695.1	696.1	696.1	696.3	697.4	696.7	697.0	696.1	694.4	696.1	695.1
29°	691.3	692.6	692.9	692.3	693.2	692.8	693.2	692.3	690.5	692.4	690.8
29.5°	687.7	688.7	689.0	688.9	689.5	689.2	689.9	688.3	687.2	689.1	686.9
30°	683.9	684.8	685.2	685.0	686.0	685.8	686.2	684.8	683.4	684.6	683.0
30.5°	680.1	681.1	681.7	681.7	682.0	682.1	682.1	681.1	679.5	680.7	679.4
31°	676.6	677.0	677.2	678.1	677.9	678.3	677.8	677.2	675.5	677.0	675.8
31.5°	672.5	673.4	673.6	674.1	673.8	674.2	674.1	673.0	671.4	672.7	671.8
32°	668.1	669.6	669.7	669.8	669.6	670.3	670.2	668.9	667.4	668.7	667.9
32.5°	664.2	665.7	666.0	666.3	666.3	666.4	666.7	665.4	664.1	665.3	663.7
33°	659.5	661.4	661.4	662.1	662.3	662.1	662.4	661.2	660.0	661.3	660.0
33.5°	655.7	657.4	657.8	658.0	658.1	657.5	658.5	657.0	655.8	657.4	655.7
34°	651.6	653.5	653.4	653.9	653.9	653.5	654.6	652.4	651.4	652.5	651.5
34.5°	647.5	648.7	649.2	649.7	649.8	649.6	650.7	648.0	647.5	648.3	647.8
35°	642.8	643.5	644.6	645.2	645.4	645.5	646.7	644.4	643.3	643.8	643.2
35.5°	638.9	639.4	640.2	640.4	641.4	641.5	642.2	639.8	639.2	639.3	638.8
36°	634.4	635.1	635.4	636.2	636.8	636.5	637.8	635.2	634.5	634.9	634.4
36.5°	629.6	631.3	631.0	631.8	632.4	631.7	633.3	630.7	629.8	630.2	629.3
37°	624.6	626.3	626.8	627.3	627.8	627.7	628.8	625.6	624.9	625.9	625.2
37.5°	620.2	622.1	622.6	622.8	622.9	622.9	623.8	621.6	620.4	621.3	620.8
38°	615.6	617.7	617.8	617.9	618.5	618.0	618.8	617.1	616.4	617.0	616.4
38.5°	610.9	612.6	612.9	613.0	613.6	613.1	614.3	612.4	611.8	612.1	612.0
39°	606.2	608.2	608.0	608.3	609.0	608.5	609.6	607.5	607.2	607.3	606.8
39.5°	601.4	603.1	603.2	603.0	604.2	604.6	604.4	602.9	602.7	602.4	602.0
40°	596.6	597.8	598.3	598.3	599.2	600.0	599.7	598.7	597.7	597.8	597.5
40.5°	592.0	593.5	593.7	593.2	594.3	595.2	595.4	594.0	592.8	593.1	592.5
41°	586.9	588.6	588.8	588.5	589.9	590.3	590.2	589.0	587.5	588.2	587.7
41.5°	582.4	583.5	584.0	583.2	584.9	585.8	585.7	584.1	583.2	583.3	583.1
42°	577.1	578.3	578.9	578.3	579.4	580.5	580.3	579.3	578.7	578.0	578.0
42.5°	571.7	573.2	574.1	573.1	574.6	575.4	575.0	574.2	573.4	572.7	572.9
43°	566.6	568.0	569.1	568.0	569.7	570.1	569.9	568.9	568.1	567.5	567.9
43.5°	561.3	563.1	563.6	562.9	564.6	564.6	564.9	563.8	563.1	562.3	562.5
44°	556.0	557.8	558.4	557.9	559.3	559.5	559.7	558.7	557.7	557.1	557.4
44.5°	550.9	552.3	553.1	552.3	554.2	554.5	554.5	553.5	552.6	552.0	552.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	545.4	547.2	548.0	547.2	549.1	549.4	548.9	548.2	547.6	547.0	546.4
45.5°	539.7	541.8	543.0	542.0	544.1	544.2	543.5	543.2	542.2	541.7	541.0
46°	534.6	537.0	537.3	536.9	538.5	538.5	538.4	537.6	536.5	536.0	535.9
46.5°	529.8	531.4	531.7	531.5	533.0	533.1	533.3	532.0	531.1	531.2	530.3
47°	524.5	525.8	526.1	526.0	527.4	527.6	527.8	526.3	525.8	525.4	524.8
47.5°	519.3	520.7	520.4	520.2	521.9	522.4	522.0	520.8	520.3	519.8	519.0
48°	513.4	514.9	514.6	514.8	516.4	517.0	516.6	515.5	514.4	514.5	513.4
48.5°	507.6	509.2	509.2	508.9	511.0	511.0	511.0	510.0	508.6	508.8	508.1
49°	501.9	503.6	503.4	503.4	505.6	505.4	505.2	504.2	503.4	503.3	502.5
49.5°	496.3	498.0	497.8	497.5	499.9	499.4	499.6	498.9	497.5	498.0	496.7
50°	490.9	492.2	492.2	491.8	494.2	494.2	493.9	492.9	491.7	492.1	491.4
50.5°	484.5	486.5	486.4	486.1	488.4	488.3	488.2	487.3	486.0	486.2	485.7
51°	478.8	480.4	480.3	480.1	482.3	482.3	482.6	481.2	480.2	480.5	480.2
51.5°	472.9	474.6	474.7	474.4	476.5	476.3	476.7	475.3	474.2	474.6	473.7
52°	467.1	468.9	468.6	468.5	470.4	470.7	470.8	469.3	467.8	468.6	467.8
52.5°	461.0	462.6	462.6	462.6	464.7	465.0	464.7	463.4	462.2	463.1	461.9
53°	455.0	456.7	456.4	456.2	458.4	458.8	458.4	457.3	456.6	457.0	456.2
53.5°	448.8	450.5	450.3	450.0	452.2	452.4	452.1	451.7	450.5	451.4	450.0
54°	442.6	443.9	444.1	443.8	446.1	446.3	446.1	445.6	444.2	444.9	444.2
54.5°	436.2	437.7	438.2	438.0	440.2	440.2	440.0	439.2	438.1	438.7	438.4
55°	430.5	431.9	431.4	432.1	433.9	434.1	434.1	433.2	432.2	432.6	432.4
55.5°	424.6	425.6	425.5	425.6	427.6	428.2	427.4	426.6	426.0	426.9	426.1
56°	418.2	419.5	419.1	419.6	421.4	422.1	422.0	420.8	420.0	420.5	419.9
56.5°	412.0	413.1	413.0	413.3	415.2	415.8	415.7	414.3	413.5	414.1	413.4
57°	405.3	406.4	406.6	407.1	408.9	409.6	409.2	408.2	406.9	407.8	407.2
57.5°	398.6	399.9	400.2	400.5	402.6	402.8	402.9	401.7	400.8	401.4	401.1
58°	392.6	393.5	393.7	393.8	395.9	396.6	395.9	395.6	394.3	394.7	395.0
58.5°	386.1	387.4	387.5	387.5	389.7	390.4	389.1	389.1	388.1	388.4	388.6
59°	379.4	381.1	380.4	380.6	383.5	383.5	383.0	382.6	381.8	382.3	382.0
59.5°	372.9	374.1	373.8	374.1	377.1	376.8	376.5	376.0	374.9	375.8	375.4
60°	366.8	367.5	367.1	367.4	370.4	370.3	370.0	369.9	368.5	369.1	368.8
60.5°	360.6	360.8	360.7	360.4	363.7	363.7	362.9	362.9	361.4	362.4	362.2
61°	353.4	353.9	354.1	353.7	356.9	357.5	356.4	356.8	355.3	355.7	355.4
61.5°	346.8	347.4	347.7	346.9	350.1	350.8	349.7	349.9	348.8	349.4	348.7
62°	340.1	340.7	341.1	340.7	343.6	344.1	343.7	343.4	342.3	342.7	342.6
62.5°	333.5	333.7	334.4	333.7	336.6	337.2	336.8	336.7	335.5	336.0	335.7
63°	326.5	326.8	327.6	327.2	329.8	330.8	330.1	330.0	328.8	329.2	328.7
63.5°	319.8	320.4	320.7	320.4	323.1	324.0	323.4	323.4	322.3	322.4	322.2
64°	312.8	313.5	313.8	313.6	316.5	317.1	316.6	316.2	315.5	315.7	315.2
64.5°	306.3	307.0	307.2	306.6	309.6	309.8	309.5	309.1	308.6	308.6	308.4
65°	299.5	300.1	300.0	299.9	302.9	303.5	303.0	302.4	301.8	302.1	301.8
65.5°	292.5	292.9	293.0	292.5	296.4	296.0	295.7	295.3	294.7	295.3	295.1
66°	285.6	285.9	285.9	285.5	289.2	289.0	288.2	288.2	287.6	288.4	288.1
66.5°	278.3	279.0	278.6	278.6	282.1	282.0	281.7	281.3	281.0	281.6	280.9
67°	271.0	271.6	271.7	271.6	274.9	275.3	274.8	274.6	274.0	274.4	274.3

TEST NUMBER: P869679
 CATALOG NUMBER: SMX14SLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	264.2	264.8	264.7	264.6	267.8	268.2	267.6	267.4	267.1	267.5	267.1
68°	257.0	257.7	257.5	257.7	260.9	261.4	260.7	260.4	260.6	260.5	260.0
68.5°	250.0	250.5	250.5	250.4	254.0	254.4	253.7	253.4	253.7	253.6	252.9
69°	243.0	243.5	243.4	243.1	247.1	247.3	246.6	246.3	246.3	246.2	245.4
69.5°	235.5	236.1	236.3	236.0	239.7	240.1	239.5	239.0	239.1	239.1	238.6
70°	228.4	229.2	229.0	228.8	232.6	233.0	232.2	231.8	232.0	232.2	231.4
70.5°	221.3	222.0	221.4	221.8	225.6	226.0	225.2	225.0	225.2	224.9	224.5
71°	214.2	214.6	214.3	214.4	218.4	218.8	217.7	218.0	217.8	217.8	217.4
71.5°	207.3	207.6	207.2	207.0	211.1	211.3	210.8	210.6	210.9	210.4	210.1
72°	200.1	200.3	200.0	199.8	203.8	204.2	203.6	203.6	203.8	203.3	203.0
72.5°	192.6	193.4	193.1	192.4	196.8	197.0	196.7	196.3	196.6	196.2	195.8
73°	185.6	186.1	185.8	185.6	189.6	189.9	189.5	189.3	189.3	189.1	188.7
73.5°	178.6	179.1	178.6	178.6	182.6	183.0	182.8	182.4	182.3	182.1	181.9
74°	171.3	171.7	171.6	171.5	175.5	176.0	175.9	175.2	175.3	174.9	174.7
74.5°	164.2	164.9	164.3	164.4	168.3	168.8	168.2	168.1	168.0	168.0	167.7
75°	157.0	157.5	157.3	157.0	160.7	161.3	161.2	160.9	160.8	160.8	160.7
75.5°	150.0	150.1	150.0	149.8	153.6	154.2	153.8	153.8	153.7	153.7	153.6
76°	142.9	143.1	142.9	143.0	146.5	147.1	146.5	146.6	146.6	146.5	146.4
76.5°	135.7	136.0	136.1	135.7	139.6	139.8	139.5	139.7	139.6	139.5	139.6
77°	128.8	129.0	128.7	128.8	132.4	133.0	132.7	132.5	132.4	132.6	132.6
77.5°	121.8	122.3	122.0	122.0	125.4	125.9	125.6	125.7	125.6	125.8	125.8
78°	114.9	115.3	114.9	115.1	118.6	118.9	118.7	118.5	118.2	118.8	118.7
78.5°	108.2	108.4	108.1	108.3	112.0	112.0	112.0	111.6	111.3	111.8	111.9
79°	101.4	101.6	101.3	101.8	105.4	105.5	105.2	105.1	104.7	105.2	105.0
79.5°	94.7	95.0	94.8	95.0	98.7	98.6	98.3	98.3	98.0	98.5	98.5
80°	88.2	88.3	88.2	88.1	91.7	91.9	91.4	91.4	91.3	91.8	91.7
80.5°	81.6	81.7	81.6	81.4	85.0	85.5	85.1	85.0	84.8	85.2	85.3
81°	75.4	75.5	75.3	74.8	78.5	78.9	78.7	78.4	78.5	78.8	78.9
81.5°	69.1	69.2	69.0	68.7	72.2	72.5	72.2	72.1	72.1	72.5	72.6
82°	63.1	63.1	63.0	62.5	66.0	66.2	66.0	65.7	65.7	66.1	66.4
82.5°	57.1	57.2	56.9	56.6	60.1	60.3	60.1	59.9	59.8	60.2	60.6
83°	51.1	51.3	51.0	50.5	54.1	54.2	54.2	53.9	53.9	54.3	54.7
83.5°	45.4	45.6	45.3	45.1	48.0	48.4	48.1	48.1	48.1	48.4	48.8
84°	40.1	40.3	40.0	39.5	42.5	42.6	42.6	42.4	42.3	42.7	43.1
84.5°	35.1	35.1	35.0	34.6	37.2	37.6	37.2	37.1	37.0	37.3	37.7
85°	30.2	30.1	30.1	29.6	32.0	32.2	32.1	31.9	31.8	32.1	32.4
85.5°	25.8	25.8	25.8	25.4	27.1	27.2	27.1	27.1	27.0	27.2	27.6
86°	21.5	21.5	21.4	21.0	23.2	23.2	23.2	23.1	23.1	23.4	23.6
86.5°	17.4	17.5	17.4	17.1	19.3	19.3	19.4	19.1	19.2	19.5	19.6
87°	13.5	13.5	13.6	13.2	15.4	15.5	15.6	15.3	15.3	15.5	15.7
87.5°	9.9	9.8	9.8	9.5	11.8	11.8	11.8	11.7	11.6	11.9	12.1
88°	6.9	7.0	6.9	6.7	8.6	8.6	8.6	8.5	8.5	8.7	8.9
88.5°	4.6	4.7	4.6	4.4	5.8	6.1	5.8	5.7	5.6	5.9	6.0
89°	2.8	2.9	2.9	2.8	3.4	3.6	3.4	3.4	3.2	3.5	3.6
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: P869679
CATALOG NUMBER: SMX14SLSFS010-2000LM-4000K

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: P869679
 CATALOG NUMBER: SMX14SLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	800.9	800.9	800.9	800.9	800.9	800.9
0.5°	800.2	802.0	801.3	800.9	800.7	800.5
1°	800.0	801.7	802.0	800.5	800.2	800.5
1.5°	800.3	802.0	801.4	801.0	799.7	800.1
2°	799.7	801.2	800.8	800.5	799.9	800.0
2.5°	799.9	800.8	800.3	799.8	800.3	799.7
3°	799.5	799.8	799.6	799.6	799.9	798.6
3.5°	798.7	799.1	799.6	798.8	799.7	798.2
4°	798.6	798.7	799.5	798.0	798.8	798.1
4.5°	797.9	798.0	798.4	797.7	798.4	797.6
5°	796.6	797.6	797.3	797.4	797.3	797.0
5.5°	795.8	796.8	796.8	797.5	796.7	796.6
6°	794.6	795.9	795.5	796.4	796.0	796.1
6.5°	794.2	794.8	794.7	795.8	794.7	795.5
7°	793.3	794.0	793.7	794.4	793.7	794.6
7.5°	793.2	793.4	793.0	793.2	793.4	793.7
8°	791.6	792.7	791.5	792.3	792.0	792.3
8.5°	790.4	791.6	791.0	791.4	790.5	791.5
9°	789.1	790.1	790.0	789.9	789.6	790.7
9.5°	787.5	789.3	788.4	788.7	788.4	789.6
10°	786.8	787.8	786.8	787.4	787.5	788.6
10.5°	785.2	786.3	785.8	786.1	786.7	787.6
11°	783.8	784.3	784.8	784.5	785.0	786.3
11.5°	782.3	782.6	783.7	782.4	783.8	784.9
12°	780.7	781.3	782.2	781.2	782.3	783.2
12.5°	779.3	779.7	780.5	780.4	781.7	781.6
13°	778.0	778.1	778.9	778.5	779.7	780.1
13.5°	776.2	776.1	776.7	777.2	777.8	778.3
14°	774.5	773.8	774.5	776.1	776.1	776.2
14.5°	772.2	771.8	772.1	773.9	773.8	773.8
15°	770.5	770.1	769.9	772.3	771.5	771.5
15.5°	768.3	768.1	768.1	770.7	769.5	769.1
16°	766.4	766.1	765.7	768.9	766.6	766.9
16.5°	764.2	763.9	763.9	766.7	764.7	764.6
17°	761.9	761.7	761.7	764.0	762.4	762.5
17.5°	759.6	759.7	759.1	761.6	759.7	760.0
18°	757.3	757.4	757.2	759.4	757.7	757.8
18.5°	755.1	755.2	754.8	756.5	754.8	755.3
19°	753.0	753.0	752.6	754.0	752.1	752.8
19.5°	750.1	750.4	750.6	751.4	749.7	750.3
20°	747.7	747.7	748.6	748.6	747.4	747.5
20.5°	744.8	745.0	746.1	746.1	745.2	745.2
21°	742.2	742.1	743.3	743.6	742.6	742.5
21.5°	739.4	739.3	741.0	740.7	740.4	739.6
22°	736.9	736.9	738.6	737.8	737.4	737.1

TEST NUMBER: P869679
 CATALOG NUMBER: SMX14SLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	733.5	733.7	735.4	734.7	734.5	734.4
23°	730.9	730.9	732.0	731.4	731.5	731.6
23.5°	728.3	727.8	729.7	728.6	728.7	729.0
24°	725.2	724.6	726.8	725.0	725.1	726.2
24.5°	722.0	721.5	722.6	722.4	722.0	722.8
25°	718.4	718.4	719.5	718.6	718.4	719.0
25.5°	715.2	715.2	716.1	715.5	715.2	715.9
26°	711.4	711.9	712.2	711.8	711.7	712.0
26.5°	708.1	708.2	708.9	708.1	708.1	709.2
27°	704.8	704.8	705.7	704.8	704.8	705.9
27.5°	701.9	701.4	702.4	701.4	701.4	702.4
28°	698.2	697.5	699.0	697.8	697.6	698.8
28.5°	694.7	693.7	695.5	694.8	694.5	695.1
29°	690.9	690.3	692.0	690.8	690.5	691.3
29.5°	687.0	686.2	688.6	687.2	686.8	687.7
30°	683.2	682.6	684.8	683.3	682.6	683.9
30.5°	679.2	679.3	680.8	678.9	678.7	680.1
31°	675.1	675.1	676.2	675.3	674.9	676.6
31.5°	671.3	671.2	671.8	671.5	671.0	672.5
32°	667.5	667.6	667.6	667.3	666.7	668.1
32.5°	663.8	663.2	663.9	663.9	663.0	664.2
33°	659.7	659.7	659.6	659.6	658.8	659.5
33.5°	655.6	655.4	655.9	655.3	654.9	655.7
34°	651.1	651.0	651.1	651.5	650.3	651.6
34.5°	647.3	646.5	647.1	647.5	646.2	647.5
35°	643.3	641.9	642.4	643.2	642.1	642.8
35.5°	638.9	637.3	638.0	638.8	637.8	638.9
36°	634.2	633.2	633.6	634.1	633.2	634.4
36.5°	629.8	628.7	629.0	629.4	629.1	629.6
37°	625.2	624.3	624.5	624.8	624.6	624.6
37.5°	620.8	619.3	619.8	620.6	620.1	620.2
38°	616.4	614.4	615.2	615.8	615.9	615.6
38.5°	612.0	609.6	610.9	610.6	610.9	610.9
39°	607.3	605.3	606.2	606.1	606.0	606.2
39.5°	602.5	600.6	601.6	601.3	601.3	601.4
40°	597.6	596.1	596.9	596.6	596.3	596.6
40.5°	592.4	591.5	591.8	591.6	591.8	592.0
41°	587.6	587.3	587.2	587.1	586.9	586.9
41.5°	582.5	582.0	582.4	582.4	582.7	582.4
42°	577.5	576.9	577.2	577.4	578.0	577.1
42.5°	572.5	571.5	572.4	572.2	572.0	571.7
43°	567.4	566.4	566.8	567.0	566.6	566.6
43.5°	562.7	561.1	562.2	561.6	561.5	561.3
44°	557.3	555.6	557.1	556.2	556.1	556.0
44.5°	552.3	550.8	551.5	551.0	551.7	550.9

TEST NUMBER: P869679
 CATALOG NUMBER: SMX14SLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	546.9	545.4	546.2	545.8	546.0	545.4
45.5°	541.9	540.0	540.9	540.5	540.1	539.7
46°	536.3	534.7	535.4	535.3	534.6	534.6
46.5°	530.7	529.0	530.4	529.7	529.1	529.8
47°	525.2	523.2	525.2	524.4	524.0	524.5
47.5°	519.6	517.6	519.6	518.7	519.0	519.3
48°	514.0	512.2	513.8	513.0	513.7	513.4
48.5°	508.8	506.9	508.1	507.4	508.0	507.6
49°	502.6	501.3	502.4	501.6	501.4	501.9
49.5°	497.1	495.7	496.8	495.9	495.6	496.3
50°	491.7	490.1	491.0	490.3	490.6	490.9
50.5°	485.9	484.3	485.1	484.5	484.5	484.5
51°	480.4	478.4	479.3	478.7	478.3	478.8
51.5°	474.3	472.2	473.1	472.8	472.1	472.9
52°	468.5	466.4	467.4	466.9	466.2	467.1
52.5°	462.2	460.1	461.4	461.3	460.4	461.0
53°	456.5	454.5	455.0	455.1	454.5	455.0
53.5°	450.6	448.6	449.2	449.0	448.4	448.8
54°	444.6	442.4	442.5	442.7	442.7	442.6
54.5°	438.5	436.4	436.9	436.1	436.1	436.2
55°	432.3	430.7	430.7	429.8	430.1	430.5
55.5°	426.2	424.5	424.7	423.6	424.0	424.6
56°	420.6	418.1	418.4	417.2	417.8	418.2
56.5°	414.0	411.8	412.0	411.3	411.7	412.0
57°	407.6	405.2	405.7	404.8	405.2	405.3
57.5°	401.2	399.0	399.4	398.6	398.6	398.6
58°	395.0	392.5	392.6	392.9	392.1	392.6
58.5°	388.6	386.2	386.2	386.5	386.3	386.1
59°	382.2	379.6	379.6	380.0	379.9	379.4
59.5°	375.3	373.1	372.9	373.1	373.4	372.9
60°	368.5	366.7	366.5	366.5	366.5	366.8
60.5°	362.3	360.1	359.9	359.7	359.5	360.6
61°	356.0	353.3	353.6	352.8	352.9	353.4
61.5°	349.3	346.5	347.2	346.0	346.6	346.8
62°	342.5	340.2	340.4	339.3	339.5	340.1
62.5°	335.9	333.4	333.7	332.9	332.7	333.5
63°	329.1	326.4	326.7	326.4	325.9	326.5
63.5°	322.1	319.6	320.1	319.2	319.0	319.8
64°	315.8	312.6	313.1	312.4	312.3	312.8
64.5°	308.4	305.9	306.4	305.8	305.6	306.3
65°	302.0	298.8	299.3	298.8	298.6	299.5
65.5°	294.9	292.0	292.2	291.7	291.9	292.5
66°	287.7	284.9	285.0	285.1	285.1	285.6
66.5°	280.8	277.9	278.1	278.0	278.5	278.3
67°	274.3	270.6	271.2	270.7	271.8	271.0

TEST NUMBER: P869679
 CATALOG NUMBER: SMX14SLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	267.0	263.7	264.7	263.9	264.7	264.2
68°	260.0	256.7	257.4	256.7	256.9	257.0
68.5°	252.9	250.2	250.3	249.8	249.9	250.0
69°	245.7	243.1	243.4	243.1	243.1	243.0
69.5°	238.6	235.8	236.3	235.8	235.9	235.5
70°	231.6	228.6	229.0	228.7	228.8	228.4
70.5°	225.0	221.6	221.9	221.8	221.9	221.3
71°	218.0	213.9	214.4	214.5	214.5	214.2
71.5°	210.6	207.1	207.5	207.1	207.1	207.3
72°	203.4	200.0	200.0	199.9	199.7	200.1
72.5°	196.3	192.9	193.0	192.9	192.2	192.6
73°	189.5	185.7	186.3	185.8	185.3	185.6
73.5°	182.4	178.6	179.3	178.7	178.5	178.6
74°	175.6	171.5	171.9	171.2	171.3	171.3
74.5°	168.3	164.4	164.7	164.2	163.9	164.2
75°	161.2	157.2	157.4	157.0	156.6	157.0
75.5°	153.9	150.2	150.3	149.7	149.5	150.0
76°	146.9	143.0	143.1	142.7	142.6	142.9
76.5°	140.0	135.7	136.0	135.8	135.6	135.7
77°	132.9	129.0	129.0	128.6	128.6	128.8
77.5°	125.9	122.4	122.0	121.9	122.0	121.8
78°	118.9	115.4	114.9	115.0	115.0	114.9
78.5°	112.0	108.7	108.2	108.2	108.3	108.2
79°	105.3	102.0	101.4	101.5	101.9	101.4
79.5°	98.6	95.0	95.0	94.8	95.2	94.7
80°	91.9	88.3	88.3	88.1	88.5	88.2
80.5°	85.5	81.9	81.9	81.9	81.7	81.6
81°	79.0	75.5	75.6	75.6	75.4	75.4
81.5°	72.6	69.2	69.5	69.6	69.1	69.1
82°	66.4	63.2	63.3	63.4	62.9	63.1
82.5°	60.6	57.2	57.5	57.2	56.9	57.1
83°	54.7	51.5	51.6	51.5	51.0	51.1
83.5°	48.8	45.9	45.9	45.8	45.3	45.4
84°	43.1	40.5	40.5	40.4	40.1	40.1
84.5°	37.7	35.2	35.3	35.2	35.1	35.1
85°	32.6	30.3	30.5	30.2	30.2	30.2
85.5°	27.6	26.0	26.0	26.0	26.0	25.8
86°	23.8	21.6	21.8	21.8	21.6	21.5
86.5°	19.7	17.5	17.8	17.6	17.5	17.4
87°	15.9	13.7	13.9	13.8	13.7	13.5
87.5°	12.3	9.9	10.1	10.1	10.0	9.9
88°	9.0	7.0	7.2	7.1	7.1	6.9
88.5°	6.1	4.6	4.8	4.8	4.8	4.6
89°	3.8	2.7	2.9	2.9	2.9	2.8
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: P869679
CATALOG NUMBER: SMX14SLSFS010-2000LM-4000K

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)