

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: P869650

Luminaire Tested: **SMX14RLSFS010-2000LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869650
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFS010-2000LM-5000K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

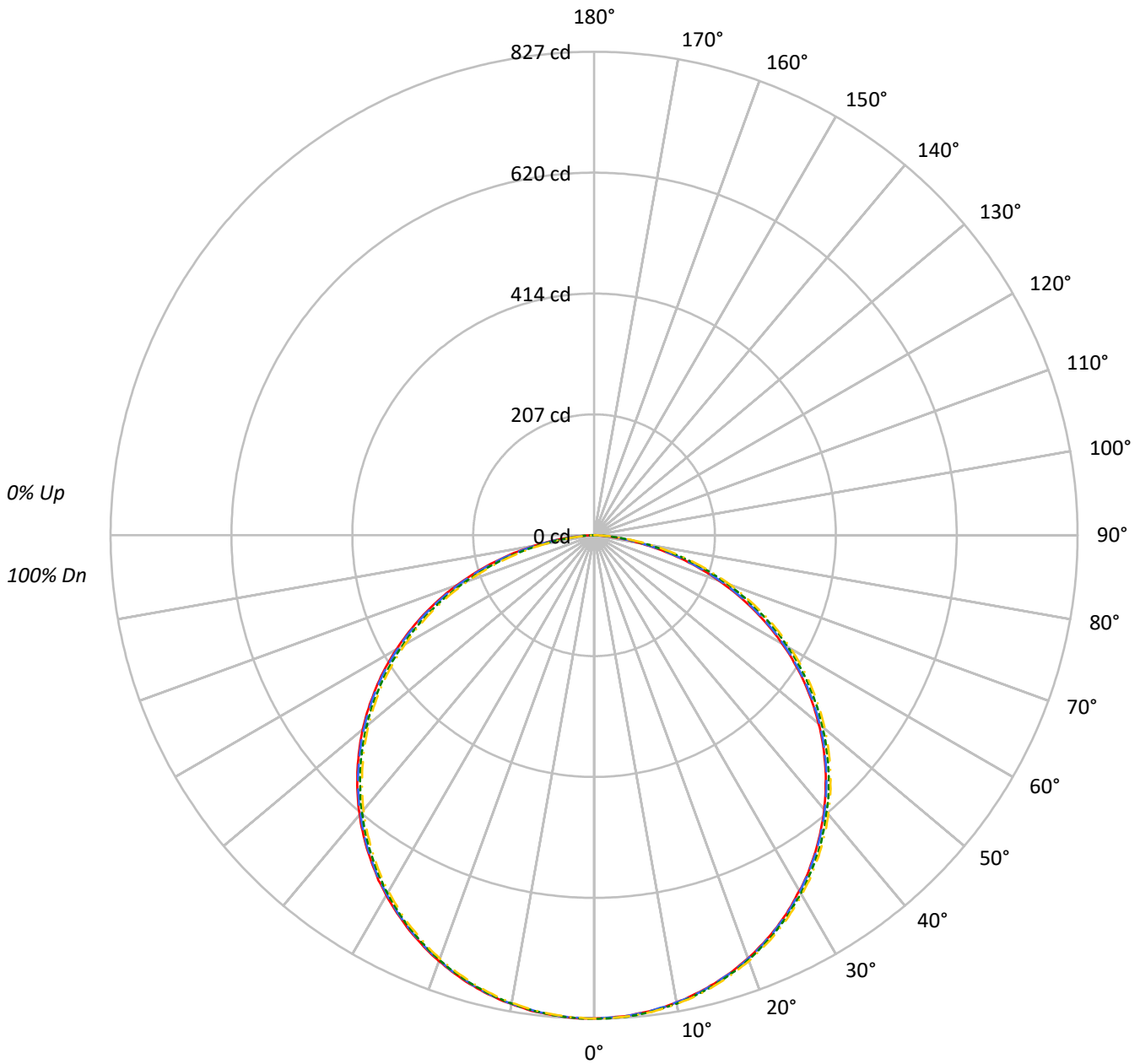
Lumens per Lamp: N/A
 Luminaire Lumens: 2420.0 lumens
 Efficiency: N/A
 Efficacy: 93.1 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 26
 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	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	100		
	1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	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	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	58		
	4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	52	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	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	37		
	7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	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	29		
	9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	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	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8317	8317	8317	8317
5°	8305	8326	8324	8324
10°	8291	8314	8319	8309
15°	8273	8298	8316	8299
20°	8246	8273	8304	8279
25°	8213	8251	8290	8253
30°	8160	8219	8262	8215
35°	8109	8182	8231	8171
40°	8045	8132	8196	8118
45°	7958	8074	8149	8044
50°	7848	7986	8089	7948
55°	7704	7881	7995	7828
60°	7485	7712	7855	7636
65°	7177	7477	7658	7363
70°	6703	7106	7344	6941
75°	5972	6532	6839	6279
80°	4798	5569	6015	5204
85°	2933	3983	4653	3475

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.2
10°-20°	224.7	9.3
20°-30°	342.4	14.1
30°-40°	416.2	17.2
40°-50°	436.5	18.0
50°-60°	399.5	16.5
60°-70°	307.7	12.7
70°-80°	174.0	7.2
80°-90°	40.7	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°	645.4	26.7
0°-40°	1061.6	43.9
0°-60°	1897.6	78.4
0°-90°	2420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2420.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	826	826	826	826	826	
5°	822	824	824	824	822	78
15°	794	796	798	797	794	224
25°	740	743	747	743	740	341
35°	660	666	670	665	660	413
45°	559	567	573	565	559	431
55°	439	449	456	446	439	392
65°	301	314	322	309	301	298
75°	154	168	176	162	154	163
85°	25	34	40	30	25	33
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°	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5
0.5°	826.1	825.9	826.0	826.8	827.0	827.3	826.7	826.4	826.2	826.0	826.2
1°	826.2	825.5	825.8	826.9	827.0	827.0	826.7	826.2	826.6	826.1	825.8
1.5°	825.9	825.7	825.6	826.2	826.8	826.9	826.7	826.5	826.8	825.7	825.9
2°	825.7	824.9	825.3	825.7	826.9	826.7	826.3	826.4	826.6	825.5	825.9
2.5°	824.9	824.8	825.4	826.0	826.3	826.4	826.1	826.1	826.3	825.5	825.6
3°	824.6	824.4	824.8	825.3	825.9	826.1	825.6	825.7	825.9	825.5	825.3
3.5°	824.5	824.0	824.6	824.8	825.9	825.9	825.5	825.5	825.3	825.0	824.8
4°	824.0	823.4	824.0	824.4	825.3	825.3	824.9	824.8	824.6	824.7	824.9
4.5°	823.1	822.6	823.3	823.5	824.5	824.7	824.4	824.5	824.2	824.2	823.8
5°	822.1	821.5	822.6	823.4	824.2	823.9	823.9	824.0	824.0	823.5	823.5
5.5°	821.2	820.8	821.8	821.9	823.2	823.3	823.1	823.1	823.2	823.1	822.9
6°	820.6	820.0	821.0	821.0	822.6	822.3	822.4	822.4	822.6	822.3	821.9
6.5°	820.0	819.2	820.4	820.4	821.5	821.6	822.0	821.8	821.7	821.7	821.1
7°	819.0	818.4	818.7	819.3	820.6	820.3	821.1	820.8	821.2	820.8	820.1
7.5°	818.2	817.4	817.6	818.3	819.4	819.3	820.0	819.7	820.6	819.9	818.9
8°	816.9	816.4	816.3	817.4	818.3	818.2	819.0	819.0	819.4	819.0	818.5
8.5°	815.6	815.1	815.8	816.3	817.4	817.0	817.6	817.6	817.8	817.8	817.1
9°	814.2	814.0	814.4	814.9	815.9	816.5	817.0	816.5	816.6	816.2	816.3
9.5°	812.7	812.6	813.0	813.8	814.8	814.8	815.4	815.3	815.8	815.4	814.8
10°	811.4	811.3	811.3	812.7	813.6	813.6	814.2	814.2	814.1	814.4	813.8
10.5°	809.9	810.1	810.4	811.1	812.2	812.4	812.6	813.0	813.2	813.0	812.4
11°	809.0	808.2	808.9	809.9	810.6	810.8	811.1	811.4	812.0	811.3	811.0
11.5°	806.9	806.5	807.9	808.0	809.1	809.1	810.2	810.1	810.5	809.7	809.4
12°	805.2	805.1	805.9	806.4	807.9	807.7	808.6	808.5	809.0	808.3	807.9
12.5°	803.1	803.6	804.2	804.8	805.8	806.4	806.5	807.3	806.8	807.2	806.4
13°	801.9	801.9	802.3	802.5	804.1	804.9	805.2	805.5	805.7	805.3	805.0
13.5°	799.8	799.8	800.6	801.2	802.4	803.0	803.4	803.7	804.1	803.1	803.2
14°	798.1	797.8	798.6	799.4	800.5	801.0	801.6	801.6	802.2	801.5	801.0
14.5°	795.5	795.7	796.5	797.8	798.4	799.0	799.9	800.2	800.3	800.1	799.3
15°	794.1	793.6	794.8	794.9	796.5	797.0	797.6	798.5	798.2	797.8	797.7
15.5°	791.8	791.5	792.2	793.0	794.3	794.8	795.6	796.3	796.5	795.8	795.2
16°	789.5	789.7	789.9	791.2	792.2	792.7	793.6	793.6	794.4	793.6	792.7
16.5°	787.4	787.6	787.6	788.9	789.7	790.3	791.4	791.4	792.1	791.7	790.7
17°	785.3	785.4	786.0	786.7	787.6	787.9	789.3	789.4	789.5	789.8	788.7
17.5°	782.9	783.0	783.7	784.8	785.1	786.2	787.2	787.2	787.6	787.0	786.7
18°	780.5	780.4	781.1	782.1	783.3	783.9	784.8	785.1	785.3	785.0	784.1
18.5°	777.8	777.5	778.7	779.2	780.5	781.4	782.0	782.5	782.6	782.7	781.9
19°	775.3	775.1	776.3	776.6	777.7	778.9	779.6	779.9	780.7	779.9	779.1
19.5°	772.5	772.6	773.5	774.5	775.4	776.0	777.5	777.5	777.4	777.9	776.6
20°	770.0	769.8	770.8	771.6	772.5	773.9	775.0	775.4	775.4	775.2	774.2
20.5°	767.3	766.8	767.9	769.2	769.9	771.1	772.1	772.8	772.5	772.6	771.7
21°	764.7	764.3	765.0	766.0	767.2	768.0	769.4	770.1	770.1	769.8	768.6
21.5°	761.6	761.2	762.4	763.4	764.6	765.6	766.6	767.4	767.6	766.8	766.0
22°	758.3	758.7	759.7	760.2	761.2	762.7	764.1	764.5	764.6	763.8	763.0

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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°	755.6	755.3	756.5	757.2	758.6	759.7	760.8	761.5	761.8	761.1	760.4
23°	752.5	752.3	752.9	754.6	755.6	756.6	758.1	758.9	758.3	758.3	757.2
23.5°	749.2	749.2	749.7	751.1	752.4	753.3	755.2	755.4	755.3	755.6	754.0
24°	746.1	746.1	747.0	747.9	749.5	750.7	752.3	752.5	752.4	752.6	751.0
24.5°	742.5	742.9	743.6	744.8	746.5	747.2	748.9	749.5	749.5	749.0	748.0
25°	739.7	739.3	740.5	741.4	743.1	744.1	745.7	746.3	746.6	746.3	744.6
25.5°	736.0	736.4	736.9	738.1	739.4	741.0	742.4	743.3	742.9	742.8	741.4
26°	732.5	733.1	733.4	734.8	736.4	737.9	738.9	739.7	739.3	739.7	738.3
26.5°	729.0	729.0	729.6	731.3	732.9	734.1	735.9	736.3	736.0	736.0	734.6
27°	725.9	725.7	726.5	727.3	729.9	730.5	732.3	733.2	732.5	732.8	730.9
27.5°	721.7	721.8	722.9	723.7	726.1	727.0	728.5	729.3	729.2	729.2	727.7
28°	717.9	718.2	719.2	720.3	722.0	723.8	725.3	725.9	725.7	725.6	724.0
28.5°	714.0	714.4	715.2	716.1	718.6	719.9	721.5	722.0	722.0	721.6	720.4
29°	710.3	710.9	711.4	712.7	714.8	716.1	718.1	718.6	718.6	718.0	716.9
29.5°	705.9	706.5	707.6	709.0	711.3	712.3	714.4	714.9	715.1	714.8	713.1
30°	702.2	702.6	703.5	705.2	707.3	708.6	710.6	711.1	711.0	710.9	709.1
30.5°	698.9	698.9	700.1	701.5	703.7	704.7	706.5	707.3	707.1	707.2	705.4
31°	694.7	695.4	695.5	697.1	700.1	700.6	702.5	704.0	703.1	703.3	701.7
31.5°	690.6	690.8	691.8	693.4	695.6	697.1	698.9	699.5	699.5	699.7	697.8
32°	686.7	686.9	687.9	689.3	691.6	693.0	695.3	695.8	695.9	695.9	693.7
32.5°	682.4	682.9	683.1	684.6	687.1	688.9	691.0	692.1	691.3	691.3	689.8
33°	677.9	678.8	678.9	680.6	683.3	684.3	686.7	687.6	686.7	687.2	685.7
33.5°	673.2	674.1	674.9	676.5	678.8	680.2	682.2	683.7	682.9	682.9	681.4
34°	669.1	669.9	670.2	672.3	675.0	676.2	678.1	679.4	678.6	678.7	677.0
34.5°	664.4	665.2	666.2	667.8	670.5	671.9	673.9	675.2	674.2	674.3	672.8
35°	660.1	660.8	661.8	663.1	666.0	667.4	669.7	670.4	670.0	670.0	668.6
35.5°	655.5	655.9	657.2	658.5	661.6	663.1	664.9	665.9	665.9	665.8	664.3
36°	651.1	651.4	652.2	654.0	657.1	658.7	660.9	661.7	661.7	661.1	659.7
36.5°	646.5	646.7	648.0	649.5	652.9	653.9	656.4	657.2	657.2	657.3	655.0
37°	641.8	642.0	643.1	644.8	648.0	649.6	651.7	652.9	652.5	652.5	650.9
37.5°	636.6	637.3	638.3	640.1	643.1	644.8	647.0	647.9	647.7	647.6	646.2
38°	631.6	632.7	633.7	635.3	638.5	640.6	642.7	643.4	642.8	642.6	641.6
38.5°	627.2	627.8	628.6	630.2	633.7	635.5	637.9	638.6	638.6	638.1	636.8
39°	622.3	622.5	623.8	625.5	628.6	630.5	633.1	634.1	633.8	633.4	631.7
39.5°	617.5	617.5	618.9	620.7	623.6	625.9	628.5	629.2	628.9	628.6	626.5
40°	612.4	613.1	614.1	615.9	619.0	621.2	623.1	624.5	623.9	623.8	621.6
40.5°	607.0	607.7	609.2	610.9	614.2	616.2	618.3	619.5	619.1	618.8	616.9
41°	602.0	603.0	604.0	606.1	609.3	611.5	613.3	614.6	614.5	613.8	612.1
41.5°	596.8	597.6	598.8	601.1	604.3	606.5	608.4	609.3	609.4	608.7	606.8
42°	591.6	592.4	593.3	595.8	599.0	601.2	603.1	604.2	604.0	603.6	601.9
42.5°	586.1	587.2	588.0	590.5	593.9	595.8	598.1	599.2	598.9	598.8	596.7
43°	580.7	581.7	582.7	585.1	588.6	590.8	593.1	594.3	593.7	593.3	591.6
43.5°	575.6	576.4	577.6	579.9	583.0	585.4	587.4	589.1	588.6	587.9	586.3
44°	570.5	570.8	572.0	574.2	577.8	580.2	582.5	583.5	583.2	582.7	581.1
44.5°	564.5	565.2	566.8	568.9	572.6	574.9	576.8	577.9	577.8	577.3	575.6

TEST NUMBER: P869650
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	559.2	559.7	561.3	563.6	567.3	569.4	571.5	572.7	572.6	572.2	570.2
45.5°	553.9	554.0	555.6	558.0	561.7	563.8	566.1	566.9	567.3	566.6	564.6
46°	548.1	548.6	549.8	552.5	555.9	558.2	560.7	561.7	561.9	561.4	559.4
46.5°	542.5	542.9	544.1	546.5	550.2	552.7	555.2	556.0	556.1	555.6	553.7
47°	536.7	537.2	538.7	541.2	544.5	547.1	549.6	550.4	550.6	549.8	548.0
47.5°	531.1	531.3	533.2	535.5	539.1	541.5	543.9	544.9	544.8	544.4	542.5
48°	525.2	525.6	527.6	529.7	533.5	535.8	538.4	539.4	539.3	538.6	537.1
48.5°	519.4	519.8	521.6	523.8	527.8	530.1	532.6	533.8	533.8	533.0	531.3
49°	513.7	513.9	515.7	518.0	521.9	524.2	527.1	528.1	528.0	527.3	525.6
49.5°	507.6	508.0	509.7	512.3	515.9	518.4	521.0	521.9	522.4	521.7	519.8
50°	501.3	501.9	503.7	506.2	510.1	512.8	515.5	516.5	516.7	515.9	513.6
50.5°	495.4	495.8	497.8	500.5	504.1	506.9	509.5	510.4	510.4	509.8	507.7
51°	489.3	489.7	491.5	494.2	498.4	500.9	503.3	504.6	504.7	503.6	502.0
51.5°	483.1	483.7	485.5	488.2	492.1	494.9	497.4	498.6	498.7	497.8	495.8
52°	476.9	477.5	479.1	482.1	486.4	488.9	491.7	493.0	492.6	491.6	490.1
52.5°	470.5	471.4	473.2	475.8	480.2	482.7	485.5	486.7	486.3	485.6	483.6
53°	464.5	465.2	467.2	469.7	474.0	476.7	479.4	480.7	480.4	479.7	477.6
53.5°	458.2	458.5	460.8	463.2	467.9	470.6	472.8	474.4	474.1	473.4	471.6
54°	451.8	451.9	454.1	456.8	461.7	464.1	466.9	468.3	467.8	467.5	465.1
54.5°	445.6	446.2	448.0	450.5	455.1	458.0	460.8	461.8	461.7	461.1	458.7
55°	439.1	439.8	441.6	444.5	449.2	451.9	454.6	456.1	455.7	454.8	452.5
55.5°	432.7	433.0	435.3	437.8	442.8	445.7	448.2	449.7	449.4	448.4	446.5
56°	426.1	426.6	428.6	431.4	436.5	439.0	442.1	443.5	443.0	442.0	440.0
56.5°	419.3	420.0	422.3	424.7	429.9	432.6	435.4	436.6	436.7	435.3	433.7
57°	412.6	413.5	415.4	417.9	423.2	426.3	429.2	430.6	430.1	429.1	427.2
57.5°	406.0	406.6	408.7	411.4	416.7	419.5	422.4	423.6	423.6	422.6	420.5
58°	399.6	400.1	401.9	404.9	410.1	413.1	416.1	417.2	416.9	415.9	414.0
58.5°	392.7	393.0	395.4	398.2	403.5	406.5	409.2	410.7	410.8	409.2	407.4
59°	385.8	386.6	388.5	391.5	396.9	399.8	402.7	404.0	404.1	402.3	400.6
59.5°	378.7	379.7	381.7	384.6	390.1	393.2	395.9	397.3	397.0	396.0	393.9
60°	371.9	372.7	375.1	378.0	383.2	386.4	389.2	390.6	390.3	389.1	387.1
60.5°	365.3	365.9	367.7	370.9	376.1	379.8	382.5	383.8	383.6	382.5	380.3
61°	358.6	359.2	361.2	364.5	369.4	372.9	375.8	377.1	376.8	375.4	373.9
61.5°	351.3	352.0	354.2	357.4	362.5	366.1	368.7	370.1	370.2	368.8	366.9
62°	344.1	345.2	347.4	350.3	356.2	359.5	362.1	363.5	363.4	362.1	360.1
62.5°	336.9	338.0	339.9	343.1	349.1	352.6	355.5	356.6	356.5	355.2	353.1
63°	329.9	331.0	333.0	336.2	342.1	345.6	348.3	349.7	349.5	348.3	346.2
63.5°	322.8	324.0	326.0	329.1	335.0	338.5	341.5	342.7	342.7	341.3	339.1
64°	315.4	316.7	319.0	322.1	327.8	331.7	334.3	335.4	335.5	334.2	332.3
64.5°	308.7	309.7	311.8	315.0	321.0	324.3	327.3	328.4	328.4	327.2	324.8
65°	301.4	302.5	304.8	308.1	314.0	317.5	320.5	321.6	321.6	320.3	318.3
65.5°	294.1	295.4	297.5	301.0	307.0	310.4	313.3	314.5	314.6	313.4	310.8
66°	286.8	287.9	290.1	293.4	299.5	303.2	306.0	307.3	307.1	306.1	303.7
66.5°	279.6	280.8	282.7	286.0	292.4	295.8	298.6	300.1	299.9	298.5	296.4
67°	272.6	273.4	275.5	279.0	285.1	288.6	291.4	292.9	292.8	291.6	289.0

TEST NUMBER: P869650
 CATALOG NUMBER: SMX14RLSFS010-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	264.9	266.2	268.5	271.7	277.9	281.3	284.2	285.7	285.8	284.4	281.9
68°	257.7	258.6	261.1	264.4	270.7	274.3	277.4	278.4	278.5	277.1	274.9
68.5°	250.2	251.3	253.6	257.0	263.6	267.1	269.8	271.3	271.3	269.8	267.8
69°	242.7	243.7	246.2	249.7	256.2	259.7	262.8	264.0	264.0	262.5	260.7
69.5°	235.3	236.4	239.0	242.0	248.9	252.7	255.5	256.7	256.8	255.3	252.9
70°	227.8	229.0	231.5	234.7	241.5	245.1	248.1	249.3	249.6	248.0	245.5
70.5°	220.6	221.6	224.1	227.6	234.5	237.7	240.7	242.2	242.2	240.8	238.2
71°	213.1	213.9	216.6	219.8	227.0	230.7	233.8	235.0	235.0	233.4	231.1
71.5°	205.4	206.6	209.0	212.3	219.5	223.4	226.2	227.5	227.6	226.1	223.5
72°	198.2	199.1	201.6	205.0	211.9	215.9	219.0	220.0	220.2	218.7	216.1
72.5°	190.9	192.0	194.5	197.8	204.7	208.5	211.4	212.9	213.0	211.3	208.8
73°	183.3	184.5	187.1	190.1	197.2	201.0	204.0	205.2	205.4	203.8	201.1
73.5°	175.9	176.9	179.5	182.7	190.1	193.8	196.8	198.0	198.1	196.5	194.0
74°	168.4	169.6	172.1	175.3	182.7	186.5	189.6	190.6	190.8	189.2	186.8
74.5°	160.9	162.1	164.7	167.9	175.2	179.1	182.1	183.3	183.4	182.0	179.2
75°	153.6	154.8	157.4	160.6	168.0	171.6	174.5	175.9	175.9	174.4	171.9
75.5°	146.3	147.5	150.1	153.4	160.5	164.2	167.1	168.6	168.5	167.0	164.4
76°	139.0	140.1	142.7	145.9	153.1	156.8	159.6	161.1	161.3	159.6	157.0
76.5°	131.6	132.9	135.4	138.5	145.9	149.8	152.5	153.7	153.8	152.4	149.6
77°	124.3	125.6	128.3	131.5	138.5	142.3	145.2	146.6	146.3	145.1	142.6
77.5°	117.4	118.7	121.2	124.4	131.4	135.1	138.0	139.2	139.3	137.8	135.2
78°	110.3	111.5	114.0	117.0	124.2	127.9	130.9	131.9	132.0	130.4	128.0
78.5°	103.2	104.5	107.1	110.4	116.9	120.6	123.6	124.7	124.8	123.4	120.8
79°	96.3	97.6	100.2	103.3	110.2	113.5	116.3	117.6	117.6	116.2	113.8
79.5°	89.5	90.6	93.2	96.3	103.1	106.7	109.5	110.7	110.7	109.3	106.6
80°	82.8	83.8	86.5	89.5	96.1	99.8	102.5	103.7	103.8	102.4	100.0
80.5°	76.1	77.3	79.7	82.7	89.5	93.0	95.7	96.9	96.9	95.4	92.8
81°	69.7	70.9	73.2	76.2	82.7	86.1	88.8	90.1	90.1	88.8	86.3
81.5°	63.4	64.8	66.8	69.8	76.2	79.4	82.0	83.3	83.1	81.7	79.4
82°	57.2	58.3	60.6	63.3	69.5	73.0	75.4	76.6	76.7	75.3	72.9
82.5°	51.3	52.5	54.7	57.4	63.4	66.6	69.0	70.2	70.2	68.8	66.5
83°	45.5	46.7	48.7	51.2	57.3	60.5	62.9	64.2	64.0	62.8	60.4
83.5°	40.1	41.1	43.1	45.5	51.2	54.2	56.6	57.9	57.8	56.3	54.3
84°	34.7	35.9	37.8	40.1	45.2	48.4	50.6	51.8	51.8	50.3	48.2
84.5°	29.8	30.9	32.6	35.0	39.8	42.5	44.9	45.9	45.8	44.6	42.6
85°	25.4	26.3	28.1	29.9	34.5	37.2	39.4	40.4	40.3	39.1	37.3
85.5°	20.9	21.6	23.4	25.5	29.5	32.0	34.0	34.9	34.9	33.8	31.9
86°	16.9	17.5	19.1	21.0	25.3	27.2	29.0	29.9	29.8	28.7	27.1
86.5°	12.8	13.5	15.1	16.9	21.1	23.1	24.7	25.6	25.6	24.5	22.8
87°	9.3	9.8	11.0	12.9	17.0	19.0	20.7	21.5	21.4	20.5	18.8
87.5°	6.8	7.0	8.0	9.4	13.3	15.2	16.7	17.4	17.3	16.4	15.0
88°	4.2	4.7	5.4	6.8	9.9	11.4	12.9	13.6	13.5	12.7	11.4
88.5°	2.5	2.8	3.4	4.4	6.9	8.3	9.5	10.1	10.0	9.3	8.1
89°	1.6	1.7	2.1	2.6	4.3	5.6	6.5	7.1	7.0	6.3	5.5
89.5°	1.0	0.9	1.1	1.5	2.4	3.4	4.1	4.5	4.5	3.9	3.1

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



TEST NUMBER: P869650
CATALOG NUMBER: SMX14RLSFS010-2000LM-5000K

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: P869650
 CATALOG NUMBER: SMX14RLSFS010-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	826.5	826.5	826.5	826.5	826.5	826.5
0.5°	826.5	827.2	826.9	826.5	826.7	826.1
1°	826.5	827.2	826.7	826.3	826.5	826.2
1.5°	826.6	827.1	826.6	825.8	825.7	825.9
2°	826.2	826.7	826.2	825.9	825.7	825.7
2.5°	825.8	826.3	826.0	825.5	825.2	824.9
3°	825.5	825.6	825.8	825.2	825.3	824.6
3.5°	825.4	825.4	825.2	824.7	824.9	824.5
4°	824.9	824.8	824.4	823.6	823.4	824.0
4.5°	824.1	824.3	824.2	823.1	823.3	823.1
5°	823.4	824.0	823.3	822.4	822.0	822.1
5.5°	823.2	822.8	823.0	821.9	821.9	821.2
6°	822.2	822.0	821.8	821.0	821.2	820.6
6.5°	821.1	820.8	820.9	820.0	820.2	820.0
7°	820.2	820.1	820.0	819.2	819.3	819.0
7.5°	819.2	819.2	819.0	818.2	818.7	818.2
8°	818.1	817.9	817.9	817.1	817.8	816.9
8.5°	817.4	816.8	816.4	816.0	816.2	815.6
9°	816.4	816.0	815.7	814.4	814.8	814.2
9.5°	815.1	814.8	814.3	813.0	813.4	812.7
10°	813.5	813.1	812.8	812.2	812.1	811.4
10.5°	812.3	812.0	811.4	810.4	810.0	809.9
11°	810.9	810.4	810.0	809.1	808.4	809.0
11.5°	809.2	808.8	808.4	807.4	807.2	806.9
12°	807.7	807.3	806.8	805.9	805.8	805.2
12.5°	806.1	805.8	805.3	803.8	803.7	803.1
13°	804.2	804.4	803.4	802.4	802.2	801.9
13.5°	802.4	802.3	801.6	800.4	800.4	799.8
14°	800.8	800.3	800.1	798.4	798.0	798.1
14.5°	798.5	798.4	797.9	796.6	796.4	795.5
15°	796.8	796.6	795.8	794.5	794.1	794.1
15.5°	795.1	794.5	793.7	792.3	792.1	791.8
16°	792.7	792.4	791.4	790.0	789.9	789.5
16.5°	790.6	790.2	789.1	787.6	787.4	787.4
17°	788.6	787.8	786.7	785.7	785.3	785.3
17.5°	786.6	785.3	784.7	783.3	783.3	782.9
18°	783.9	783.2	781.6	780.8	780.4	780.5
18.5°	781.7	781.0	779.8	778.3	778.3	777.8
19°	779.1	778.3	777.2	776.0	775.4	775.3
19.5°	776.4	775.6	775.0	773.6	772.9	772.5
20°	774.0	773.1	771.9	770.7	770.4	770.0
20.5°	771.4	770.1	769.1	767.8	767.7	767.3
21°	768.4	767.5	766.3	765.1	764.2	764.7
21.5°	765.4	764.7	763.4	762.2	761.5	761.6
22°	762.6	761.8	760.4	759.0	758.0	758.3

TEST NUMBER: P869650
 CATALOG NUMBER: SMX14RLSFS010-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	759.5	758.5	757.5	755.8	755.4	755.6
23°	756.7	755.9	754.6	752.7	752.2	752.5
23.5°	753.5	752.8	751.8	749.7	749.3	749.2
24°	750.4	749.7	748.1	746.4	745.8	746.1
24.5°	747.6	746.3	745.1	742.9	742.5	742.5
25°	744.6	743.3	741.9	740.3	739.6	739.7
25.5°	741.2	740.1	738.3	736.7	736.3	736.0
26°	737.5	736.8	734.9	733.7	732.6	732.5
26.5°	733.8	732.9	731.4	729.7	729.2	729.0
27°	730.6	729.4	728.1	726.0	725.5	725.9
27.5°	727.6	725.6	724.2	722.6	721.8	721.7
28°	723.2	722.0	720.8	718.3	717.6	717.9
28.5°	719.8	718.5	717.0	714.8	713.6	714.0
29°	716.3	714.7	712.9	711.0	710.1	710.3
29.5°	712.6	710.8	709.2	707.0	706.2	705.9
30°	708.7	707.0	705.6	703.1	702.6	702.2
30.5°	704.7	703.2	701.7	699.5	698.6	698.9
31°	701.1	699.1	697.0	695.5	694.6	694.7
31.5°	697.2	694.5	693.3	691.6	690.6	690.6
32°	692.9	691.0	689.1	687.3	686.1	686.7
32.5°	689.0	686.7	685.3	683.0	682.0	682.4
33°	684.6	682.4	680.9	678.8	677.9	677.9
33.5°	680.4	678.0	676.3	674.4	673.4	673.2
34°	676.0	674.1	671.7	669.8	669.0	669.1
34.5°	672.1	669.4	667.5	665.4	664.2	664.4
35°	667.3	665.1	662.7	661.0	660.0	660.1
35.5°	663.1	660.7	659.0	656.7	655.4	655.5
36°	658.3	656.3	654.2	651.8	651.0	651.1
36.5°	654.2	651.3	649.2	647.0	646.1	646.5
37°	649.2	646.8	644.2	642.8	641.7	641.8
37.5°	645.2	642.4	640.2	638.3	636.9	636.6
38°	639.9	637.3	635.1	633.0	631.7	631.6
38.5°	635.3	632.5	630.1	628.0	627.2	627.2
39°	630.2	627.6	625.1	623.5	622.5	622.3
39.5°	625.7	622.5	620.5	618.3	617.4	617.5
40°	620.4	618.0	615.7	613.4	612.5	612.4
40.5°	615.9	613.0	610.4	608.4	607.6	607.0
41°	610.5	607.9	605.1	603.2	602.2	602.0
41.5°	606.0	602.6	600.0	597.9	596.7	596.8
42°	600.5	597.3	594.9	592.4	591.7	591.6
42.5°	595.2	592.1	589.7	587.3	586.3	586.1
43°	590.2	586.6	584.4	582.0	581.0	580.7
43.5°	584.9	581.4	579.4	576.6	575.8	575.6
44°	579.3	576.2	573.7	571.1	570.2	570.5
44.5°	574.2	570.7	568.3	565.8	564.6	564.5

TEST NUMBER: P869650
 CATALOG NUMBER: SMX14RLSFS010-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	568.7	565.2	562.7	560.4	559.3	559.2
45.5°	563.2	559.6	557.2	554.5	554.0	553.9
46°	557.6	554.4	551.5	549.3	548.1	548.1
46.5°	552.1	548.3	545.9	543.6	542.0	542.5
47°	546.6	543.0	540.1	538.0	536.3	536.7
47.5°	540.8	537.1	534.3	532.4	530.7	531.1
48°	535.1	531.3	528.7	526.5	525.1	525.2
48.5°	529.7	525.6	522.9	520.6	519.7	519.4
49°	523.8	520.0	517.1	514.6	513.7	513.7
49.5°	517.7	514.0	511.3	508.7	507.3	507.6
50°	511.9	507.7	505.0	502.8	501.5	501.3
50.5°	505.8	501.8	499.2	496.8	495.6	495.4
51°	499.8	496.0	493.1	490.6	489.6	489.3
51.5°	494.3	490.0	487.2	484.6	483.2	483.1
52°	488.0	483.8	481.1	478.6	477.0	476.9
52.5°	481.7	477.4	474.8	472.3	470.9	470.5
53°	475.5	471.2	468.6	465.9	464.4	464.5
53.5°	469.4	465.0	462.0	459.4	458.0	458.2
54°	462.9	458.5	455.9	453.3	451.7	451.8
54.5°	456.9	452.3	449.6	447.0	445.8	445.6
55°	450.6	446.2	443.1	440.6	439.3	439.1
55.5°	444.3	439.4	436.5	434.4	432.8	432.7
56°	437.9	432.9	430.3	427.6	426.0	426.1
56.5°	431.3	426.6	423.4	420.8	419.8	419.3
57°	424.8	420.0	417.0	414.2	412.7	412.6
57.5°	418.2	413.3	410.1	407.4	406.0	406.0
58°	411.6	406.6	403.5	400.8	399.4	399.6
58.5°	405.1	399.9	396.7	393.9	392.6	392.7
59°	398.5	393.1	389.8	387.1	385.8	385.8
59.5°	391.4	386.5	383.3	380.0	378.6	378.7
60°	384.7	379.4	376.1	373.2	372.0	371.9
60.5°	377.9	372.5	369.3	366.2	365.1	365.3
61°	370.9	365.6	362.4	359.8	358.3	358.6
61.5°	364.3	358.7	355.6	352.7	351.3	351.3
62°	357.5	351.7	348.6	345.6	344.2	344.1
62.5°	350.5	344.5	341.4	338.2	336.9	336.9
63°	343.5	337.6	334.3	331.3	330.1	329.9
63.5°	336.4	330.2	327.2	324.4	322.9	322.8
64°	329.4	323.3	320.1	317.4	316.0	315.4
64.5°	322.2	316.4	313.0	310.3	308.7	308.7
65°	315.3	309.2	305.7	303.0	301.4	301.4
65.5°	308.3	301.8	298.6	295.7	294.3	294.1
66°	300.8	294.8	291.2	288.0	286.8	286.8
66.5°	293.4	287.3	283.9	280.9	279.6	279.6
67°	286.3	280.3	276.7	273.9	272.2	272.6

TEST NUMBER: P869650
 CATALOG NUMBER: SMX14RLSFS010-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	279.6	272.8	269.2	266.7	264.7	264.9
68°	272.1	265.6	261.7	259.0	257.7	257.7
68.5°	264.7	258.2	254.4	251.4	250.1	250.2
69°	257.2	250.7	247.0	244.4	242.5	242.7
69.5°	250.1	243.3	239.7	236.7	235.1	235.3
70°	242.8	235.9	232.4	229.2	228.1	227.8
70.5°	235.3	228.5	224.9	222.1	220.7	220.6
71°	227.9	220.8	217.4	214.4	212.9	213.1
71.5°	220.7	213.4	210.0	207.0	205.2	205.4
72°	213.2	206.1	202.6	199.6	198.2	198.2
72.5°	205.8	198.7	195.3	192.3	190.8	190.9
73°	198.1	191.2	187.6	184.6	183.4	183.3
73.5°	190.9	183.8	180.3	177.3	175.7	175.9
74°	183.7	176.5	172.6	169.8	168.3	168.4
74.5°	176.2	169.0	165.5	162.3	160.8	160.9
75°	168.6	161.5	158.0	155.1	153.8	153.6
75.5°	161.3	154.1	150.7	147.6	145.9	146.3
76°	153.8	146.7	143.2	140.3	139.0	139.0
76.5°	146.7	139.4	135.7	133.0	131.7	131.6
77°	139.3	132.3	128.8	125.9	124.3	124.3
77.5°	132.0	125.1	121.6	118.9	117.4	117.4
78°	124.8	117.8	114.3	111.7	110.3	110.3
78.5°	117.6	110.8	107.6	104.7	103.4	103.2
79°	110.6	103.8	100.5	97.8	96.5	96.3
79.5°	103.5	96.8	93.5	90.7	89.5	89.5
80°	96.8	89.8	86.5	83.9	82.6	82.8
80.5°	89.9	83.3	80.0	77.2	76.0	76.1
81°	83.1	76.5	73.3	70.9	69.7	69.7
81.5°	76.4	70.3	67.1	64.5	63.3	63.4
82°	69.9	63.9	60.8	58.3	57.2	57.2
82.5°	63.8	57.9	54.9	52.6	51.3	51.3
83°	57.6	51.7	49.0	46.7	45.6	45.5
83.5°	51.4	45.9	43.2	41.1	40.0	40.1
84°	45.5	40.5	37.8	35.8	34.7	34.7
84.5°	40.1	35.2	32.8	30.9	29.8	29.8
85°	34.7	30.1	28.1	26.3	25.5	25.4
85.5°	29.6	25.8	23.5	21.8	21.0	20.9
86°	25.2	21.3	19.2	17.6	16.8	16.9
86.5°	21.1	17.1	15.1	13.4	12.8	12.8
87°	17.0	13.1	11.1	9.9	9.1	9.3
87.5°	13.2	9.5	8.1	7.1	6.7	6.8
88°	9.9	6.8	5.6	4.7	4.3	4.2
88.5°	6.8	4.4	3.5	3.0	2.6	2.5
89°	4.4	2.8	2.2	1.7	1.5	1.6
89.5°	2.3	1.7	1.2	1.0	1.4	1.0

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869650
CATALOG NUMBER: SMX14RLSFS010-2000LM-5000K

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)