

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: P869701

Luminaire Tested: **SMX18RLSFS010-2000LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869701
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS010-2000LM-2700K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

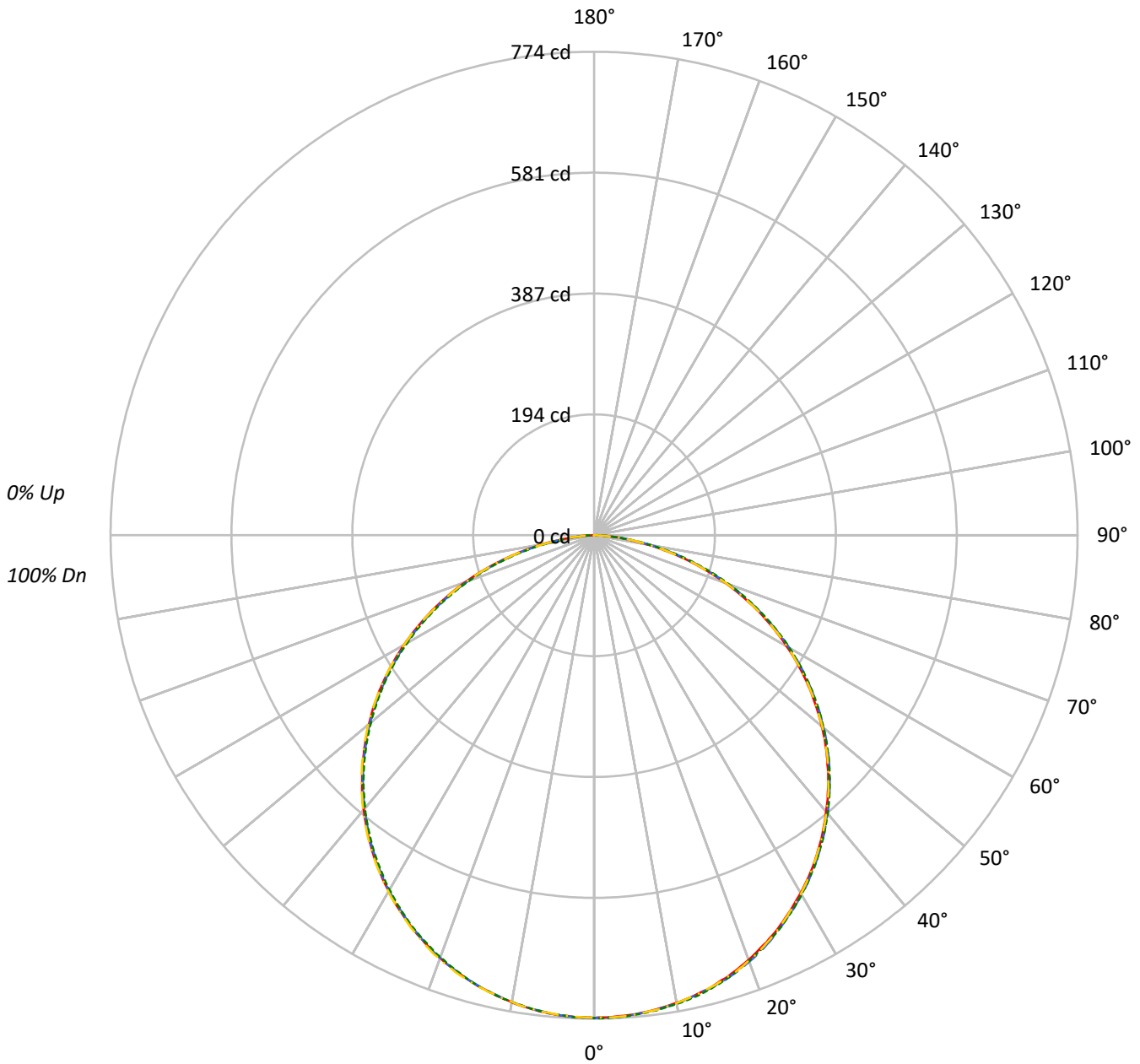
Lumens per Lamp: N/A
 Luminaire Lumens: 2256.0 lumens
 Efficiency: N/A
 Efficacy: 97.2 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 23.2
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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

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Luminous Intensity Polar Plot



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

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	86	84
2	99	90	83	78	96	88	82	77	85	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	34	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	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4708	4708	4708	4708
5°	4707	4709	4703	4704
10°	4702	4713	4697	4693
15°	4700	4713	4683	4684
20°	4689	4701	4670	4660
25°	4674	4688	4650	4641
30°	4653	4671	4627	4610
35°	4627	4650	4598	4575
40°	4594	4624	4563	4535
45°	4560	4590	4516	4485
50°	4511	4545	4461	4419
55°	4438	4487	4385	4335
60°	4344	4400	4283	4214
65°	4206	4279	4131	4050
70°	3989	4093	3900	3790
75°	3653	3798	3542	3396
80°	3118	3318	2964	2761
85°	2250	2572	1999	1733

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.2
10°-20°	210.2	9.3
20°-30°	320.0	14.2
30°-40°	388.6	17.2
40°-50°	406.8	18.0
50°-60°	371.6	16.5
60°-70°	285.8	12.7
70°-80°	161.7	7.2
80°-90°	38.1	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°	603.4	26.7
0°-40°	992.0	44.0
0°-60°	1770.4	78.5
0°-90°	2256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2256.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	773	773	773	773	773	
5°	770	770	769	769	770	73
15°	745	747	743	743	745	210
25°	696	698	692	690	696	320
35°	622	625	618	615	622	389
45°	529	533	524	521	529	408
55°	418	422	413	408	418	373
65°	292	297	287	281	292	288
75°	155	161	150	144	155	164
85°	32	37	29	25	32	40
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°	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9
0.5°	772.2	772.8	772.7	772.8	773.3	773.8	772.8	773.1	772.1	772.7	772.9
1°	772.2	772.9	772.6	773.1	773.5	773.5	772.2	772.6	772.2	772.6	772.6
1.5°	772.2	773.2	772.6	772.6	773.1	773.1	772.6	772.3	771.9	772.6	772.5
2°	772.0	772.8	772.4	772.2	772.8	773.1	772.5	772.2	771.8	772.1	771.8
2.5°	771.5	772.6	772.2	772.2	772.8	772.7	772.1	771.5	771.7	772.0	771.8
3°	771.0	772.2	772.2	771.7	772.2	771.9	771.8	771.2	770.9	772.2	771.2
3.5°	770.7	771.7	771.9	771.7	771.8	771.4	771.7	771.0	771.0	771.6	771.0
4°	770.5	771.3	771.3	771.1	771.8	771.3	771.0	770.7	770.7	770.6	770.5
4.5°	770.1	770.4	770.5	771.0	770.8	771.1	770.7	770.2	770.0	770.1	770.0
5°	769.8	769.7	769.8	770.3	770.2	770.5	770.1	769.2	769.1	769.4	769.5
5.5°	768.8	769.6	769.6	770.0	769.8	770.1	769.7	768.8	768.5	768.5	768.6
6°	767.9	768.9	768.3	769.1	769.3	769.3	768.6	768.3	767.5	767.6	767.1
6.5°	767.2	768.0	767.7	768.2	768.3	768.7	767.6	767.6	767.2	766.5	766.3
7°	766.4	766.9	767.0	767.2	767.3	767.8	766.7	766.4	766.0	766.0	765.7
7.5°	765.4	766.0	766.1	766.6	767.1	766.7	766.3	765.1	765.1	765.1	764.7
8°	764.4	765.1	765.0	765.4	766.0	766.0	765.5	764.6	764.0	763.8	763.7
8.5°	763.5	764.3	764.3	764.4	765.0	765.1	763.9	763.5	763.1	762.8	762.7
9°	762.4	763.4	763.0	763.5	763.8	764.1	762.8	762.4	761.8	761.6	761.4
9.5°	761.1	762.3	762.2	762.6	762.8	763.1	762.0	761.2	760.7	760.2	760.1
10°	760.2	761.0	760.9	761.2	762.0	761.8	760.6	759.7	759.4	758.7	758.5
10.5°	759.3	759.7	759.7	760.5	760.9	760.6	759.1	758.6	757.6	757.4	757.2
11°	758.0	758.4	758.4	759.2	759.6	759.3	757.9	757.2	756.3	756.4	755.5
11.5°	756.4	757.1	757.1	758.0	758.5	758.1	756.6	755.4	754.8	755.2	754.2
12°	755.1	755.9	755.7	756.8	757.0	756.7	755.4	754.0	753.5	753.1	752.7
12.5°	753.5	754.3	753.9	755.2	756.0	755.2	754.0	752.3	751.5	751.4	751.4
13°	752.1	753.0	752.6	754.1	754.6	753.9	752.3	750.6	750.1	749.7	749.6
13.5°	750.4	751.3	751.4	752.3	752.8	752.3	750.7	749.4	748.2	747.8	748.1
14°	749.5	749.7	749.9	751.2	751.2	750.7	748.8	747.7	746.4	746.3	746.4
14.5°	747.6	747.8	748.4	749.6	749.6	749.2	747.5	745.6	744.9	744.0	744.2
15°	745.3	745.9	746.8	747.2	747.4	747.2	745.9	743.9	742.7	742.5	742.5
15.5°	743.4	744.4	744.9	745.6	746.0	745.5	743.9	741.7	740.8	740.5	740.7
16°	741.2	743.0	743.4	743.8	743.6	743.8	742.2	739.7	738.9	738.7	738.8
16.5°	739.7	740.9	741.9	741.8	741.7	741.7	739.9	738.1	736.8	736.6	736.5
17°	737.4	738.7	739.9	739.7	739.8	739.6	738.0	736.0	734.5	734.2	734.0
17.5°	735.0	736.6	737.8	737.8	737.5	737.4	736.3	733.7	732.8	731.9	732.1
18°	733.0	734.4	735.7	735.1	735.2	735.1	734.7	731.5	730.4	729.7	730.0
18.5°	730.5	731.9	733.7	732.9	732.5	732.7	732.1	728.9	727.8	727.4	727.5
19°	728.0	729.8	731.4	730.5	730.2	730.1	730.1	726.8	725.6	724.7	725.5
19.5°	725.8	727.4	728.8	728.0	728.1	728.0	727.2	724.6	723.0	722.1	723.1
20°	723.4	725.2	726.5	725.1	725.3	725.5	724.9	721.8	720.5	719.9	720.5
20.5°	720.9	722.2	724.2	722.8	722.7	722.4	722.1	719.2	718.4	717.3	717.9
21°	718.3	719.4	721.7	720.2	720.4	719.5	720.2	716.7	715.8	714.6	715.3
21.5°	715.2	716.7	719.1	717.8	717.4	717.3	717.2	714.2	712.6	711.7	712.7
22°	712.5	714.1	716.4	714.9	714.9	714.4	714.6	711.7	709.6	708.8	710.0

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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°	709.9	711.4	713.5	712.1	712.1	711.5	711.7	708.9	706.9	705.8	706.7
23°	707.4	708.9	710.3	709.6	709.2	709.0	708.4	705.8	704.0	703.2	703.5
23.5°	704.2	706.3	707.7	706.8	706.5	706.3	705.8	703.0	700.9	700.7	700.2
24°	701.4	703.4	704.6	703.8	703.6	702.9	702.8	700.4	698.3	697.1	697.1
24.5°	698.6	700.4	701.2	700.7	700.9	699.5	699.5	697.3	695.1	694.0	694.4
25°	695.5	697.2	698.1	697.9	697.5	697.0	696.3	694.5	691.9	690.8	690.6
25.5°	691.8	693.9	694.9	695.0	694.7	694.3	693.1	691.6	688.8	687.8	687.3
26°	688.9	691.1	691.6	691.7	691.5	690.7	689.8	688.3	685.4	684.7	684.6
26.5°	685.2	687.8	688.3	688.3	688.3	687.5	686.3	685.0	682.4	681.4	680.8
27°	682.1	684.7	684.9	685.2	684.6	684.5	682.9	681.7	678.8	678.3	677.5
27.5°	678.8	681.6	681.7	682.5	681.7	680.8	679.3	678.5	675.4	675.2	674.2
28°	675.5	677.9	678.6	679.0	678.5	677.7	675.8	674.9	672.5	671.8	670.8
28.5°	671.7	674.9	674.7	675.4	675.0	674.4	672.9	671.7	669.0	668.2	667.5
29°	668.2	671.6	671.2	671.8	671.6	670.8	669.2	668.3	665.4	664.5	663.7
29.5°	665.0	668.1	668.1	668.6	667.8	667.1	665.8	665.0	661.6	660.8	660.3
30°	661.5	664.5	664.6	665.1	664.1	663.6	662.5	661.2	657.9	657.3	656.2
30.5°	657.9	661.1	660.9	661.5	660.5	660.0	658.9	657.7	654.1	653.7	652.8
31°	654.0	657.4	657.3	657.6	657.2	656.4	654.9	653.9	650.4	649.5	649.1
31.5°	650.6	653.3	653.4	654.1	653.3	652.4	651.2	649.9	646.7	645.7	645.1
32°	646.6	649.2	649.7	650.6	649.3	648.4	647.3	646.1	642.8	642.3	641.0
32.5°	642.6	645.5	645.6	646.8	645.4	645.0	643.3	642.4	638.8	638.4	637.3
33°	638.9	641.6	641.6	642.8	641.8	641.0	639.5	638.2	634.8	634.6	633.2
33.5°	634.9	637.8	637.8	638.7	638.3	637.2	635.3	634.1	630.7	630.5	629.1
34°	630.8	634.0	634.0	634.7	634.0	633.2	631.0	630.6	627.0	626.3	624.7
34.5°	626.6	629.8	629.7	630.6	629.6	629.2	627.2	626.5	622.9	622.1	620.7
35°	622.3	625.7	625.3	626.6	625.3	625.1	622.8	621.9	618.4	617.9	616.5
35.5°	617.8	621.5	621.4	622.6	621.3	620.9	618.7	617.8	614.2	613.9	612.3
36°	614.0	617.4	617.0	618.3	617.0	616.6	614.5	613.4	609.9	609.5	607.9
36.5°	609.7	613.1	612.8	613.9	612.5	612.3	610.2	609.2	605.7	605.5	603.8
37°	605.5	608.9	608.7	609.4	608.6	608.2	605.9	604.9	601.2	600.8	599.0
37.5°	601.1	604.2	604.2	605.3	604.5	603.8	601.6	600.7	596.8	595.9	594.4
38°	596.1	599.7	599.7	600.8	599.8	599.2	597.0	596.3	592.3	591.5	590.0
38.5°	591.7	595.1	595.3	596.5	595.3	594.6	592.6	591.9	587.6	586.5	585.6
39°	587.4	590.9	590.8	591.9	590.8	590.4	587.8	587.2	583.2	582.3	581.1
39.5°	582.8	585.8	586.2	587.3	586.2	585.6	583.3	582.6	578.4	577.8	576.5
40°	577.8	581.1	581.7	582.3	581.5	581.1	578.9	577.8	573.8	572.8	571.6
40.5°	573.2	576.5	576.9	577.8	576.9	576.6	574.6	572.7	569.1	567.7	567.1
41°	568.9	571.8	572.2	573.1	572.0	571.8	569.5	567.6	564.4	563.2	562.0
41.5°	564.2	566.9	567.6	568.2	567.4	566.8	565.0	563.0	559.8	558.2	557.4
42°	559.1	561.9	562.9	563.5	562.7	562.1	560.0	558.0	554.8	553.2	552.3
42.5°	554.3	557.2	558.2	558.5	557.7	557.3	555.3	552.8	549.8	548.5	547.3
43°	549.4	552.0	553.1	553.4	552.7	552.3	550.1	548.1	544.6	543.7	542.6
43.5°	544.3	547.3	548.0	548.6	547.8	547.2	544.8	543.0	539.6	538.8	537.6
44°	539.6	542.4	543.3	543.5	542.9	542.6	539.9	538.1	534.5	533.9	532.4
44.5°	534.8	537.4	538.4	538.6	538.0	537.3	534.9	532.8	529.6	528.7	527.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	529.4	531.9	533.5	533.7	532.9	532.3	529.9	527.7	524.3	523.4	522.1
45.5°	523.9	527.0	528.2	528.5	527.5	527.2	524.9	522.7	519.3	517.7	517.1
46°	519.3	521.8	522.9	523.1	522.3	521.9	519.7	517.5	514.0	512.7	511.8
46.5°	513.9	516.6	518.1	517.7	517.2	516.8	514.7	512.0	508.4	507.3	506.7
47°	508.8	511.4	512.6	512.7	511.9	511.5	509.3	507.1	503.4	502.2	501.4
47.5°	503.1	506.0	507.4	507.6	506.8	506.2	503.7	502.0	498.0	496.8	495.6
48°	497.9	500.8	501.8	502.0	501.4	501.1	498.6	496.4	492.8	491.3	490.1
48.5°	492.7	495.5	496.6	496.4	495.8	495.5	493.2	490.5	487.0	485.8	485.0
49°	487.0	489.8	491.0	491.2	490.5	490.1	487.5	485.1	481.9	480.3	479.2
49.5°	481.5	484.2	485.5	485.8	485.0	484.7	482.2	479.7	476.5	474.8	473.9
50°	476.0	478.9	479.8	480.1	479.6	479.2	476.7	474.3	470.8	469.5	468.3
50.5°	470.5	473.5	474.5	474.7	474.2	473.4	471.0	468.6	465.1	463.5	462.6
51°	464.6	467.8	468.8	468.8	468.6	467.8	465.3	463.1	459.2	457.7	456.7
51.5°	459.1	462.2	463.2	463.4	462.8	462.2	459.4	457.5	453.8	452.3	451.1
52°	453.4	456.4	457.6	457.7	457.2	456.4	453.9	451.8	448.4	446.3	445.5
52.5°	447.3	450.6	451.6	451.7	451.3	450.9	448.4	446.2	442.4	440.7	439.6
53°	441.2	444.7	445.9	445.9	445.3	445.1	442.6	440.0	436.4	434.7	433.8
53.5°	435.8	438.9	440.1	440.3	439.8	439.3	436.7	434.3	430.5	428.9	428.0
54°	430.0	433.0	434.2	434.2	434.1	433.3	430.9	428.3	425.0	422.9	422.0
54.5°	424.3	427.0	428.4	428.3	428.4	427.6	425.0	422.5	419.1	416.7	415.8
55°	417.9	421.3	422.5	422.3	422.5	421.5	419.2	416.6	412.9	411.0	410.2
55.5°	412.1	415.2	416.6	416.3	416.4	415.7	413.2	411.0	406.9	405.4	403.9
56°	406.3	409.2	410.5	410.4	410.6	409.6	407.1	404.6	400.8	399.1	397.7
56.5°	400.2	403.0	404.4	404.3	404.6	403.4	400.8	398.8	394.7	392.9	391.6
57°	393.8	396.9	398.4	398.3	398.6	397.5	395.0	392.6	388.9	386.7	385.3
57.5°	387.8	390.8	392.3	392.1	392.5	391.2	388.6	386.4	382.5	380.4	379.3
58°	381.7	384.8	386.2	386.0	386.1	385.1	382.5	380.1	376.4	374.3	373.1
58.5°	375.6	378.8	380.1	379.8	380.0	379.0	376.4	374.1	370.4	368.2	366.9
59°	369.1	372.4	373.7	373.4	374.0	372.5	370.1	367.5	364.1	362.1	360.8
59.5°	362.9	366.0	367.4	367.2	367.7	366.3	363.7	361.2	357.7	355.3	354.2
60°	356.6	359.6	361.0	360.8	361.2	359.9	357.2	354.8	351.6	349.1	347.8
60.5°	350.3	353.2	354.6	354.5	355.0	353.8	351.2	348.7	345.1	342.8	341.6
61°	344.1	347.0	348.3	348.1	348.8	347.3	344.7	342.4	338.7	336.5	335.3
61.5°	337.5	340.4	342.0	341.9	342.5	340.8	338.3	336.0	332.4	329.9	328.8
62°	331.0	334.0	335.7	335.6	336.1	334.6	331.9	329.5	326.1	323.4	322.0
62.5°	324.5	327.7	329.0	329.0	329.6	328.1	325.3	322.8	319.3	317.0	315.6
63°	318.0	321.1	322.3	322.4	323.1	321.6	318.8	316.3	312.8	310.4	309.0
63.5°	311.4	314.4	315.7	315.9	316.7	315.3	312.4	309.9	306.2	303.7	302.4
64°	305.0	308.0	309.2	309.2	310.0	308.4	305.8	303.2	299.8	297.2	295.9
64.5°	298.4	301.5	302.7	303.0	303.6	302.0	299.3	296.5	293.2	290.6	289.0
65°	291.8	294.8	296.1	296.4	296.9	295.4	292.5	289.8	286.6	284.0	282.6
65.5°	285.1	288.1	289.4	289.5	290.1	288.8	286.0	283.2	280.1	277.3	276.0
66°	278.6	281.5	282.7	282.7	283.6	282.0	279.1	276.4	273.1	270.8	269.6
66.5°	271.7	274.8	276.0	276.1	277.1	275.2	272.7	269.8	266.6	263.9	262.7
67°	265.0	268.1	269.4	269.5	270.4	268.9	266.0	263.0	259.8	257.2	255.7

TEST NUMBER: P869701
 CATALOG NUMBER: SMX18RLSFS010-2000LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	258.3	261.2	262.4	262.7	263.8	261.9	259.4	256.3	253.1	250.3	249.0
68°	251.4	254.3	255.6	255.6	256.8	255.0	252.5	249.4	246.4	243.8	242.2
68.5°	244.7	247.7	248.9	249.3	250.5	248.3	245.7	242.6	239.7	237.2	235.6
69°	238.0	241.0	241.9	242.6	243.7	241.6	238.6	235.9	232.8	230.1	228.9
69.5°	230.8	234.0	235.2	235.3	236.7	234.8	232.0	229.3	226.1	223.3	221.8
70°	224.0	227.2	228.3	228.5	229.8	228.0	225.1	222.2	219.0	216.6	215.0
70.5°	217.3	220.1	221.3	221.8	223.2	221.2	218.3	215.4	212.4	209.7	208.1
71°	210.3	213.5	214.5	214.9	216.4	214.6	211.7	208.4	205.5	202.9	201.4
71.5°	203.4	206.6	207.6	208.0	209.5	207.6	204.7	201.5	198.6	195.9	194.6
72°	196.7	199.7	200.7	201.1	202.7	200.9	197.8	194.7	191.7	188.8	187.5
72.5°	189.7	192.6	193.8	194.1	195.9	193.9	191.1	187.6	184.7	182.1	180.7
73°	182.8	185.6	186.8	187.2	188.8	186.8	183.8	180.7	178.0	175.2	173.8
73.5°	176.0	178.8	180.1	180.2	182.2	180.1	177.1	173.8	171.2	168.3	167.0
74°	169.2	172.0	173.1	173.4	175.2	173.3	170.3	167.0	164.2	161.4	160.1
74.5°	162.3	165.2	166.4	166.5	168.3	166.5	163.5	160.0	157.4	154.6	153.2
75°	155.2	158.1	159.3	159.5	161.4	159.6	156.7	153.1	150.5	147.7	146.3
75.5°	148.7	151.3	152.6	152.5	154.7	152.6	149.7	146.7	143.8	141.2	139.7
76°	141.8	144.6	145.9	145.8	147.8	145.9	142.9	139.8	137.1	134.4	132.9
76.5°	135.0	137.8	139.1	138.9	141.1	139.1	136.0	133.2	130.2	127.3	126.0
77°	128.3	131.1	132.5	132.3	134.2	132.4	129.4	126.5	123.4	120.8	119.3
77.5°	121.5	124.3	125.6	125.6	127.6	125.7	122.8	119.6	117.0	114.1	112.9
78°	115.0	117.8	118.8	119.1	120.8	119.1	116.1	113.1	110.0	107.8	106.2
78.5°	108.3	111.0	112.4	112.5	114.3	112.3	109.4	106.2	103.6	100.9	99.7
79°	101.9	104.6	105.9	106.0	107.7	105.8	103.0	99.9	97.0	94.5	93.5
79.5°	95.3	97.9	99.3	99.5	101.1	99.3	96.5	93.3	90.7	88.3	87.0
80°	88.9	91.5	92.8	92.9	94.6	93.1	89.9	87.0	84.5	82.3	80.8
80.5°	82.8	85.3	86.5	86.8	88.3	86.7	84.0	81.0	78.2	76.0	74.8
81°	76.6	79.1	80.3	80.6	82.4	80.7	77.8	74.8	72.3	69.9	68.9
81.5°	70.5	72.8	74.1	74.3	75.9	74.5	71.7	68.7	66.1	64.1	63.1
82°	64.3	66.9	67.9	67.9	69.8	68.3	66.0	62.9	60.2	58.2	57.1
82.5°	58.5	60.9	62.0	62.1	64.0	62.5	60.0	57.1	54.5	52.4	51.5
83°	53.0	55.3	56.3	56.4	58.3	56.8	54.3	51.5	49.0	47.0	46.1
83.5°	47.4	49.7	50.7	50.9	52.6	51.1	48.7	45.9	43.6	41.7	40.7
84°	42.2	44.4	45.3	45.4	46.9	45.7	43.3	40.7	38.2	36.7	35.7
84.5°	37.1	39.2	40.0	40.3	41.7	40.5	38.1	35.7	33.3	31.6	30.8
85°	32.2	34.2	35.0	35.0	36.8	35.4	33.2	30.7	28.6	26.9	26.1
85.5°	27.6	29.4	30.3	30.3	31.6	30.4	28.2	26.0	24.0	22.6	21.8
86°	23.4	25.1	25.7	25.8	27.0	25.7	23.7	21.7	20.1	18.6	17.9
86.5°	19.6	21.1	21.8	21.8	22.4	21.5	19.7	17.7	16.1	15.1	14.6
87°	15.8	17.4	17.9	17.9	18.7	17.6	16.1	14.4	12.9	11.8	11.4
87.5°	12.6	14.0	14.4	14.4	15.0	14.4	12.9	11.2	9.8	9.0	8.5
88°	9.4	10.6	11.2	11.1	11.9	11.1	9.8	8.2	7.1	6.2	6.1
88.5°	6.4	7.5	8.0	8.0	8.9	8.2	7.0	5.7	4.7	4.1	3.7
89°	4.4	5.2	5.6	5.4	6.3	5.6	4.6	3.5	2.7	2.3	2.1
89.5°	2.8	3.5	3.7	3.5	4.0	3.5	2.7	1.9	1.3	1.0	0.8

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



TEST NUMBER: P869701
CATALOG NUMBER: SMX18RLSFS010-2000LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P869701
 CATALOG NUMBER: SMX18RLSFS010-2000LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	772.9	772.9	772.9	772.9	772.9	772.9
0.5°	772.7	772.6	773.5	772.5	772.5	772.2
1°	772.1	772.2	773.0	771.9	772.3	772.2
1.5°	772.0	772.5	772.8	771.8	772.2	772.2
2°	771.7	772.5	772.3	771.6	772.2	772.0
2.5°	771.5	771.8	772.2	771.5	772.0	771.5
3°	771.0	771.2	772.2	770.8	771.9	771.0
3.5°	770.6	770.6	771.5	770.6	771.3	770.7
4°	770.6	769.8	770.8	770.5	770.5	770.5
4.5°	769.7	769.6	770.1	769.6	769.7	770.1
5°	769.3	769.3	769.7	768.7	768.9	769.8
5.5°	767.8	768.0	768.8	767.7	768.4	768.8
6°	767.0	767.2	767.8	767.6	768.0	767.9
6.5°	766.4	766.4	767.2	766.9	767.2	767.2
7°	765.8	765.4	766.3	765.9	766.6	766.4
7.5°	764.2	764.6	764.9	765.0	765.7	765.4
8°	763.4	763.2	763.9	763.8	764.4	764.4
8.5°	762.3	762.2	763.1	762.5	763.4	763.5
9°	760.9	760.9	762.2	761.7	762.1	762.4
9.5°	760.0	759.7	760.2	760.4	760.9	761.1
10°	758.9	758.8	758.9	758.6	759.7	760.2
10.5°	757.3	757.6	757.5	757.0	758.5	759.3
11°	755.7	755.9	756.2	756.0	757.5	758.0
11.5°	754.5	754.5	755.0	754.7	756.4	756.4
12°	752.9	752.8	753.9	753.0	754.8	755.1
12.5°	751.2	751.3	751.8	751.5	753.3	753.5
13°	749.6	749.8	750.5	750.4	751.8	752.1
13.5°	748.1	748.4	748.8	748.5	750.4	750.4
14°	746.1	746.4	747.2	747.1	748.9	749.5
14.5°	744.6	744.7	745.5	745.4	747.4	747.6
15°	742.8	742.8	743.5	743.3	745.5	745.3
15.5°	741.2	740.5	741.6	741.7	743.2	743.4
16°	739.3	738.4	739.8	739.5	741.2	741.2
16.5°	737.1	736.2	737.5	738.0	739.0	739.7
17°	735.1	733.7	735.1	736.3	737.0	737.4
17.5°	732.5	731.3	733.0	734.0	734.8	735.0
18°	730.2	729.1	730.3	731.7	732.5	733.0
18.5°	727.3	726.7	727.3	729.4	730.0	730.5
19°	724.7	724.2	724.8	727.5	727.5	728.0
19.5°	722.2	721.3	722.5	724.7	725.1	725.8
20°	719.7	718.9	720.5	722.1	723.0	723.4
20.5°	717.0	716.5	717.7	720.0	720.1	720.9
21°	714.4	713.8	715.1	717.5	717.4	718.3
21.5°	711.7	710.7	712.3	714.6	714.4	715.2
22°	709.0	707.8	709.1	711.5	711.6	712.5

TEST NUMBER: P869701
 CATALOG NUMBER: SMX18RLSFS010-2000LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	706.0	705.0	706.6	708.8	709.2	709.9
23°	703.4	702.3	703.9	705.9	706.8	707.4
23.5°	700.0	699.5	700.5	702.8	703.5	704.2
24°	697.1	696.5	697.4	699.4	700.1	701.4
24.5°	693.8	693.4	694.2	696.3	697.5	698.6
25°	690.8	690.5	691.9	693.3	694.7	695.5
25.5°	687.7	687.0	688.7	690.0	691.5	691.8
26°	684.3	683.7	685.5	686.7	688.4	688.9
26.5°	680.8	680.0	682.2	683.3	685.0	685.2
27°	677.6	676.7	678.8	680.1	681.6	682.1
27.5°	674.2	673.0	675.4	676.7	678.3	678.8
28°	670.8	669.8	672.2	673.3	675.2	675.5
28.5°	667.1	666.2	668.3	669.5	671.8	671.7
29°	663.8	662.5	664.7	666.1	668.2	668.2
29.5°	659.9	658.7	660.8	662.4	664.4	665.0
30°	656.2	655.4	657.4	658.8	660.8	661.5
30.5°	652.8	651.5	653.4	654.7	657.3	657.9
31°	648.8	647.7	649.7	651.1	653.8	654.0
31.5°	644.8	643.7	645.8	647.3	649.7	650.6
32°	640.8	639.6	642.3	643.7	646.1	646.6
32.5°	637.0	635.7	638.4	639.7	642.1	642.6
33°	633.1	632.0	634.5	635.8	638.6	638.9
33.5°	629.1	627.7	630.2	631.6	634.8	634.9
34°	625.2	623.4	626.2	627.7	630.7	630.8
34.5°	620.5	619.4	621.9	623.7	626.6	626.6
35°	616.2	615.3	617.8	619.1	622.3	622.3
35.5°	612.1	611.0	613.1	614.9	617.8	617.8
36°	607.8	606.8	609.1	610.9	613.9	614.0
36.5°	603.9	602.3	604.8	606.8	609.9	609.7
37°	599.6	597.8	600.3	602.3	605.3	605.5
37.5°	595.1	593.6	595.6	598.0	601.0	601.1
38°	590.0	589.0	591.1	593.2	596.3	596.1
38.5°	586.0	584.3	586.5	588.6	591.7	591.7
39°	581.4	579.8	581.9	584.3	587.2	587.4
39.5°	576.5	575.3	576.9	579.4	582.3	582.8
40°	571.8	570.3	572.7	574.8	577.5	577.8
40.5°	566.9	565.6	567.7	570.2	573.1	573.2
41°	561.9	560.9	562.8	565.0	567.6	568.9
41.5°	557.3	555.8	557.9	560.5	563.0	564.2
42°	552.3	550.9	553.2	555.6	557.9	559.1
42.5°	547.3	546.2	548.0	550.4	553.1	554.3
43°	542.7	541.4	543.2	545.5	548.1	549.4
43.5°	537.7	536.4	538.1	540.8	543.5	544.3
44°	532.2	531.0	533.0	535.8	538.7	539.6
44.5°	527.3	526.0	528.0	530.5	533.5	534.8

TEST NUMBER: P869701
 CATALOG NUMBER: SMX18RLSFS010-2000LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	522.2	520.6	522.8	525.6	528.2	529.4
45.5°	517.2	515.4	517.8	520.6	522.7	523.9
46°	511.5	510.0	512.6	515.0	517.5	519.3
46.5°	506.3	504.9	507.2	509.8	512.4	513.9
47°	501.0	499.3	501.5	504.3	507.2	508.8
47.5°	495.3	494.0	496.4	499.2	501.8	503.1
48°	489.9	488.4	490.6	493.6	496.3	497.9
48.5°	484.5	483.0	485.2	488.3	491.2	492.7
49°	478.9	477.9	479.8	482.6	485.9	487.0
49.5°	473.4	472.2	474.3	477.3	480.1	481.5
50°	467.8	466.3	468.4	471.6	474.7	476.0
50.5°	462.1	460.8	462.9	466.2	469.0	470.5
51°	456.4	455.2	457.2	460.5	463.4	464.6
51.5°	450.9	449.4	451.3	454.7	457.6	459.1
52°	444.9	443.4	445.7	448.7	451.8	453.4
52.5°	438.9	437.9	440.0	443.0	445.9	447.3
53°	433.5	431.9	434.2	437.1	440.4	441.2
53.5°	427.5	425.9	428.3	431.4	434.3	435.8
54°	421.4	420.0	422.2	425.3	428.3	430.0
54.5°	415.4	414.0	416.3	419.4	422.4	424.3
55°	409.9	408.2	410.5	413.5	416.3	417.9
55.5°	403.7	402.2	404.6	407.5	410.8	412.1
56°	397.5	396.2	398.3	401.7	404.7	406.3
56.5°	391.3	390.0	392.3	395.5	398.5	400.2
57°	385.5	383.7	386.1	389.4	392.1	393.8
57.5°	379.1	377.8	380.0	382.9	386.0	387.8
58°	372.9	371.4	373.7	376.8	379.8	381.7
58.5°	366.6	365.0	367.6	370.6	373.7	375.6
59°	360.4	358.8	361.2	364.1	367.3	369.1
59.5°	354.0	352.3	354.8	357.8	360.8	362.9
60°	347.7	345.9	348.5	351.6	354.5	356.6
60.5°	341.4	339.8	341.7	345.3	348.1	350.3
61°	334.9	333.3	335.7	338.7	341.7	344.1
61.5°	328.4	326.9	329.3	332.4	335.5	337.5
62°	321.9	320.4	322.8	325.8	329.0	331.0
62.5°	315.6	314.0	316.2	319.3	322.4	324.5
63°	308.9	307.3	309.5	312.4	315.8	318.0
63.5°	302.4	300.7	303.0	305.9	309.2	311.4
64°	295.7	293.9	296.2	299.5	302.7	305.0
64.5°	289.0	287.4	289.7	292.7	296.0	298.4
65°	282.5	281.0	283.0	285.8	289.4	291.8
65.5°	275.7	274.1	276.5	279.3	282.6	285.1
66°	269.0	267.6	269.6	272.7	276.0	278.6
66.5°	262.3	260.4	263.0	265.8	269.2	271.7
67°	255.4	253.9	256.0	258.9	262.5	265.0

TEST NUMBER: P869701
 CATALOG NUMBER: SMX18RLSFS010-2000LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	248.9	247.2	249.3	252.3	255.8	258.3
68°	242.2	240.1	242.6	245.5	249.1	251.4
68.5°	235.2	233.5	235.6	238.5	242.1	244.7
69°	228.5	226.5	228.7	231.7	235.2	238.0
69.5°	221.5	219.6	221.9	224.8	228.3	230.8
70°	214.8	212.8	215.3	218.1	221.4	224.0
70.5°	208.1	205.9	208.3	211.1	214.7	217.3
71°	201.2	199.1	201.6	204.5	207.8	210.3
71.5°	194.3	192.2	194.4	197.2	200.9	203.4
72°	187.4	185.5	187.4	190.4	193.9	196.7
72.5°	180.4	178.5	180.7	183.6	187.1	189.7
73°	173.5	171.6	173.7	176.7	180.1	182.8
73.5°	166.8	164.7	166.7	169.8	173.3	176.0
74°	160.0	157.8	159.9	163.0	166.2	169.2
74.5°	153.1	151.1	153.0	155.9	159.2	162.3
75°	146.3	144.3	146.3	149.2	152.4	155.2
75.5°	139.8	137.6	139.4	142.5	145.8	148.7
76°	132.9	130.7	132.7	135.6	138.8	141.8
76.5°	126.1	124.1	125.9	128.9	132.3	135.0
77°	119.2	117.4	119.4	122.3	125.5	128.3
77.5°	112.7	110.8	112.8	115.8	119.0	121.5
78°	106.1	104.2	106.2	109.1	112.4	115.0
78.5°	99.6	97.8	99.7	102.4	105.8	108.3
79°	93.3	91.2	93.3	96.1	99.4	101.9
79.5°	86.9	84.9	86.8	89.6	92.8	95.3
80°	80.7	78.7	80.5	83.4	86.4	88.9
80.5°	74.7	72.6	74.5	77.1	80.0	82.8
81°	68.8	66.6	68.3	71.1	74.0	76.6
81.5°	62.8	60.7	62.4	65.1	68.1	70.5
82°	56.9	55.0	56.5	59.3	62.0	64.3
82.5°	51.3	49.5	51.1	53.5	56.3	58.5
83°	46.0	44.0	45.7	48.2	50.8	53.0
83.5°	40.7	38.9	40.3	42.7	45.4	47.4
84°	35.6	33.9	35.3	37.6	40.1	42.2
84.5°	30.7	29.3	30.6	32.8	35.1	37.1
85°	26.0	24.8	26.1	28.2	30.3	32.2
85.5°	21.7	20.9	22.0	23.7	25.9	27.6
86°	17.8	17.0	18.2	19.8	21.9	23.4
86.5°	14.5	13.6	14.5	16.1	18.0	19.6
87°	11.5	10.3	11.3	12.7	14.4	15.8
87.5°	8.5	7.2	8.2	9.7	11.2	12.6
88°	5.9	5.1	5.6	6.7	8.0	9.4
88.5°	3.8	3.2	3.8	4.6	5.6	6.4
89°	2.1	1.9	2.3	3.1	3.7	4.4
89.5°	0.9	1.2	1.5	1.9	2.4	2.8

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869701
CATALOG NUMBER: SMX18RLSFS010-2000LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)