

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: P869702

Luminaire Tested: **SMX18RLSFS010-2000LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869702
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS010-2000LM-3000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

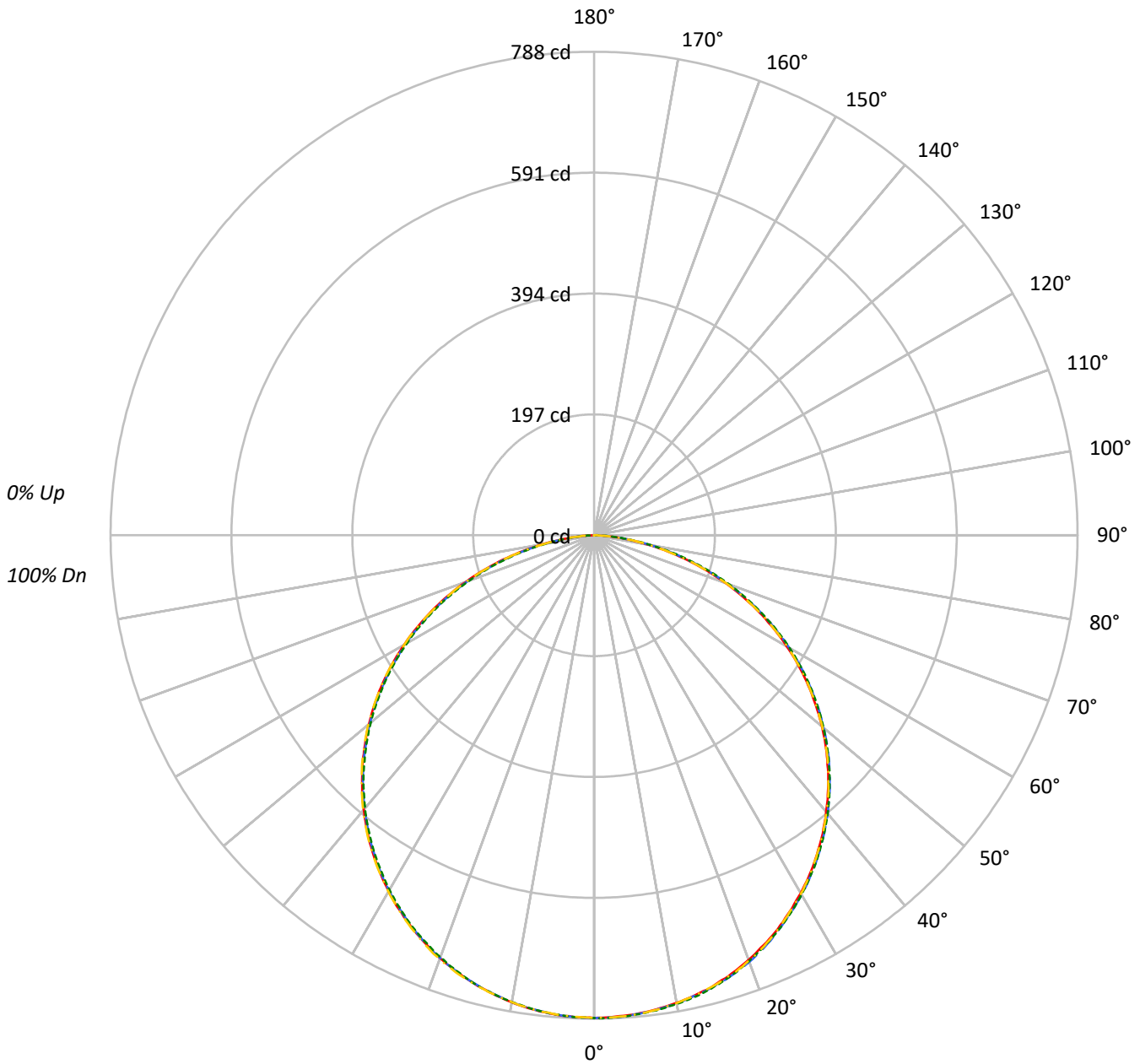
Lumens per Lamp: N/A
 Luminaire Lumens: 2296.9 lumens
 Efficiency: N/A
 Efficacy: 99.0 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

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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CATALOG NUMBER: SMX18RLSFS010-2000LM-3000K

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°	4793	4793	4793	4793
5°	4792	4795	4788	4789
10°	4787	4798	4782	4778
15°	4785	4799	4769	4769
20°	4774	4787	4755	4745
25°	4760	4773	4735	4725
30°	4737	4756	4711	4693
35°	4711	4734	4682	4659
40°	4678	4707	4645	4617
45°	4643	4674	4599	4566
50°	4593	4627	4542	4499
55°	4519	4567	4464	4413
60°	4422	4481	4360	4291
65°	4282	4356	4206	4124
70°	4062	4167	3971	3859
75°	3718	3867	3608	3457
80°	3175	3378	3017	2813
85°	2292	2621	2034	1768

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 CATALOG NUMBER: SMX18RLSFS010-2000LM-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	3.2
10°-20°	214.0	9.3
20°-30°	325.8	14.2
30°-40°	395.7	17.2
40°-50°	414.2	18.0
50°-60°	378.3	16.5
60°-70°	291.0	12.7
70°-80°	164.6	7.2
80°-90°	38.8	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°	614.3	26.7
0°-40°	1010.0	44.0
0°-60°	1802.5	78.5
0°-90°	2296.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2296.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	787	787	787	787	787	
5°	784	784	783	783	784	74
15°	759	761	756	756	759	214
25°	708	710	704	703	708	326
35°	634	637	630	626	634	396
45°	539	543	534	530	539	416
55°	426	430	420	416	426	380
65°	297	302	292	286	297	293
75°	158	164	153	147	158	167
85°	33	38	29	25	33	40
90°	0	0	0	0	0	

TEST NUMBER: P869702
 CATALOG NUMBER: SMX18RLSFS010-2000LM-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9
0.5°	786.3	786.8	786.8	786.8	787.3	787.8	786.8	787.1	786.1	786.8	786.9
1°	786.3	786.9	786.7	787.1	787.5	787.6	786.3	786.7	786.3	786.6	786.7
1.5°	786.3	787.2	786.6	786.6	787.2	787.2	786.7	786.3	785.9	786.6	786.5
2°	786.0	786.8	786.4	786.3	786.8	787.2	786.5	786.2	785.8	786.1	785.8
2.5°	785.5	786.7	786.3	786.2	786.8	786.8	786.1	785.5	785.7	786.0	785.8
3°	785.0	786.3	786.3	785.7	786.3	785.9	785.8	785.2	784.9	786.2	785.2
3.5°	784.7	785.7	785.9	785.7	785.8	785.4	785.7	785.0	785.0	785.6	785.0
4°	784.5	785.3	785.3	785.1	785.8	785.3	785.0	784.7	784.7	784.6	784.5
4.5°	784.0	784.4	784.5	784.9	784.8	785.1	784.7	784.2	784.0	784.0	784.0
5°	783.8	783.7	783.8	784.3	784.2	784.5	784.1	783.1	783.1	783.4	783.5
5.5°	782.7	783.5	783.5	784.0	783.8	784.1	783.6	782.7	782.4	782.5	782.6
6°	781.8	782.8	782.2	783.1	783.2	783.3	782.6	782.2	781.4	781.6	781.0
6.5°	781.2	781.9	781.7	782.2	782.2	782.6	781.6	781.6	781.1	780.4	780.2
7°	780.3	780.8	780.9	781.1	781.2	781.7	780.6	780.3	779.9	779.9	779.6
7.5°	779.3	779.9	780.0	780.5	781.0	780.6	780.2	779.0	779.0	778.9	778.6
8°	778.3	778.9	778.9	779.3	779.9	779.9	779.4	778.5	777.9	777.6	777.6
8.5°	777.3	778.2	778.1	778.3	778.9	779.0	777.7	777.3	777.0	776.6	776.6
9°	776.2	777.2	776.8	777.4	777.6	778.0	776.6	776.2	775.6	775.4	775.3
9.5°	774.9	776.2	776.0	776.4	776.6	777.0	775.8	775.0	774.5	774.0	773.9
10°	774.0	774.8	774.7	775.0	775.8	775.7	774.4	773.4	773.2	772.5	772.3
10.5°	773.1	773.5	773.4	774.3	774.8	774.4	772.9	772.4	771.4	771.1	770.9
11°	771.7	772.1	772.2	773.0	773.4	773.0	771.6	771.0	770.0	770.2	769.3
11.5°	770.1	770.8	770.8	771.7	772.3	771.9	770.3	769.1	768.5	768.9	767.9
12°	768.8	769.6	769.4	770.5	770.7	770.4	769.1	767.7	767.2	766.8	766.4
12.5°	767.2	767.9	767.6	768.9	769.8	768.9	767.7	766.0	765.2	765.1	765.0
13°	765.7	766.7	766.3	767.8	768.3	767.6	766.0	764.2	763.7	763.3	763.2
13.5°	764.0	764.9	765.1	766.0	766.5	766.0	764.3	763.0	761.8	761.4	761.7
14°	763.1	763.3	763.5	764.8	764.8	764.3	762.4	761.3	760.0	759.8	760.0
14.5°	761.1	761.4	761.9	763.2	763.2	762.8	761.0	759.2	758.4	757.5	757.7
15°	758.8	759.5	760.3	760.7	761.0	760.7	759.4	757.4	756.2	756.0	756.0
15.5°	756.9	757.9	758.4	759.2	759.6	759.0	757.4	755.1	754.2	754.0	754.1
16°	754.6	756.4	756.9	757.3	757.1	757.3	755.7	753.1	752.3	752.1	752.2
16.5°	753.1	754.4	755.4	755.2	755.1	755.1	753.3	751.5	750.2	750.0	749.9
17°	750.8	752.1	753.3	753.2	753.2	753.0	751.4	749.4	747.8	747.6	747.3
17.5°	748.3	750.0	751.2	751.2	750.9	750.8	749.7	747.0	746.1	745.2	745.4
18°	746.3	747.7	749.1	748.4	748.6	748.4	748.0	744.8	743.6	742.9	743.2
18.5°	743.8	745.2	747.0	746.2	745.8	746.0	745.4	742.2	741.0	740.6	740.7
19°	741.2	743.1	744.7	743.7	743.5	743.4	743.4	740.0	738.8	737.9	738.6
19.5°	739.0	740.6	742.1	741.2	741.3	741.2	740.4	737.7	736.1	735.2	736.2
20°	736.5	738.4	739.7	738.2	738.5	738.6	738.0	734.9	733.6	733.0	733.5
20.5°	733.9	735.3	737.4	735.9	735.8	735.5	735.3	732.3	731.4	730.3	730.9
21°	731.3	732.5	734.8	733.3	733.4	732.5	733.3	729.7	728.8	727.6	728.3
21.5°	728.2	729.8	732.1	730.8	730.4	730.3	730.2	727.2	725.6	724.7	725.6
22°	725.4	727.0	729.4	727.9	727.9	727.4	727.6	724.7	722.4	721.7	722.9

TEST NUMBER: P869702
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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°	722.8	724.3	726.5	725.0	725.0	724.4	724.7	721.8	719.7	718.6	719.5
23°	720.2	721.8	723.2	722.4	722.1	721.9	721.3	718.6	716.8	716.0	716.3
23.5°	717.0	719.2	720.6	719.6	719.3	719.2	718.6	715.8	713.7	713.4	712.9
24°	714.1	716.1	717.3	716.5	716.4	715.6	715.5	713.1	710.9	709.7	709.8
24.5°	711.3	713.2	713.9	713.4	713.7	712.2	712.2	710.0	707.7	706.6	707.0
25°	708.2	709.9	710.8	710.5	710.2	709.6	709.0	707.1	704.5	703.4	703.1
25.5°	704.4	706.5	707.5	707.6	707.3	706.9	705.7	704.1	701.3	700.3	699.8
26°	701.4	703.6	704.1	704.3	704.0	703.2	702.3	700.8	697.9	697.1	697.0
26.5°	697.6	700.3	700.8	700.8	700.8	699.9	698.8	697.5	694.8	693.8	693.2
27°	694.5	697.1	697.3	697.6	697.1	696.9	695.3	694.0	691.1	690.7	689.8
27.5°	691.1	693.9	694.1	694.8	694.0	693.1	691.6	690.8	687.7	687.5	686.5
28°	687.8	690.2	690.9	691.3	690.8	690.0	688.1	687.1	684.7	684.0	682.9
28.5°	683.9	687.1	687.0	687.6	687.2	686.6	685.1	683.9	681.1	680.3	679.6
29°	680.3	683.8	683.3	684.0	683.8	683.0	681.4	680.5	677.4	676.5	675.8
29.5°	677.0	680.2	680.2	680.7	679.9	679.2	677.8	677.0	673.7	672.8	672.3
30°	673.5	676.5	676.7	677.2	676.2	675.6	674.5	673.2	669.8	669.2	668.1
30.5°	669.8	673.1	672.9	673.5	672.5	672.0	670.9	669.6	666.0	665.6	664.6
31°	665.9	669.3	669.2	669.5	669.1	668.3	666.8	665.8	662.2	661.3	660.8
31.5°	662.4	665.1	665.3	665.9	665.1	664.2	663.1	661.7	658.5	657.4	656.8
32°	658.3	661.0	661.5	662.4	661.1	660.2	659.0	657.8	654.4	653.9	652.6
32.5°	654.3	657.2	657.3	658.5	657.1	656.7	654.9	654.0	650.4	650.0	648.9
33°	650.5	653.3	653.2	654.4	653.4	652.6	651.1	649.8	646.3	646.1	644.7
33.5°	646.5	649.3	649.4	650.2	649.8	648.8	646.8	645.6	642.1	642.0	640.5
34°	642.2	645.5	645.5	646.2	645.5	644.7	642.4	642.0	638.3	637.7	636.0
34.5°	637.9	641.2	641.1	642.0	641.0	640.6	638.6	637.8	634.2	633.4	631.9
35°	633.6	637.1	636.7	638.0	636.7	636.4	634.1	633.2	629.6	629.1	627.7
35.5°	629.0	632.8	632.7	633.9	632.6	632.2	630.0	629.0	625.4	625.0	623.4
36°	625.1	628.6	628.2	629.5	628.2	627.8	625.6	624.5	621.0	620.5	619.0
36.5°	620.8	624.2	624.0	625.0	623.6	623.4	621.3	620.3	616.7	616.5	614.8
37°	616.5	619.9	619.8	620.4	619.6	619.3	616.9	615.9	612.1	611.7	609.8
37.5°	612.1	615.2	615.2	616.2	615.4	614.8	612.5	611.6	607.6	606.7	605.2
38°	606.9	610.6	610.6	611.7	610.7	610.1	607.9	607.1	603.0	602.2	600.7
38.5°	602.4	605.9	606.1	607.4	606.1	605.4	603.3	602.7	598.3	597.1	596.2
39°	598.0	601.6	601.5	602.7	601.5	601.1	598.4	597.8	593.7	592.8	591.6
39.5°	593.4	596.4	596.9	597.9	596.9	596.2	593.9	593.2	588.9	588.2	587.0
40°	588.3	591.7	592.3	592.9	592.0	591.6	589.4	588.2	584.2	583.2	582.0
40.5°	583.6	586.9	587.4	588.3	587.3	587.1	585.0	583.1	579.4	578.1	577.4
41°	579.2	582.2	582.6	583.5	582.4	582.2	579.9	577.9	574.6	573.5	572.2
41.5°	574.4	577.1	577.9	578.5	577.7	577.1	575.3	573.2	569.9	568.4	567.5
42°	569.3	572.1	573.1	573.7	572.9	572.3	570.2	568.1	564.8	563.3	562.4
42.5°	564.3	567.3	568.4	568.6	567.8	567.4	565.4	562.9	559.7	558.5	557.3
43°	559.3	562.0	563.2	563.4	562.8	562.3	560.1	558.0	554.5	553.6	552.4
43.5°	554.2	557.2	557.9	558.6	557.8	557.1	554.7	552.8	549.4	548.6	547.3
44°	549.4	552.3	553.2	553.3	552.8	552.4	549.7	547.9	544.2	543.6	542.1
44.5°	544.5	547.2	548.2	548.4	547.7	547.1	544.6	542.5	539.2	538.3	537.0

TEST NUMBER: P869702
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	539.0	541.5	543.1	543.4	542.6	541.9	539.5	537.2	533.9	532.9	531.6
45.5°	533.5	536.6	537.8	538.1	537.1	536.7	534.4	532.1	528.8	527.1	526.5
46°	528.7	531.3	532.4	532.6	531.8	531.4	529.1	526.9	523.4	522.0	521.1
46.5°	523.2	526.0	527.5	527.0	526.6	526.1	524.0	521.3	517.6	516.5	515.9
47°	518.0	520.6	521.9	522.0	521.2	520.8	518.5	516.3	512.5	511.3	510.5
47.5°	512.2	515.1	516.6	516.8	516.0	515.4	512.8	511.1	507.0	505.8	504.6
48°	506.9	509.9	510.9	511.1	510.5	510.2	507.7	505.4	501.8	500.2	499.0
48.5°	501.7	504.5	505.6	505.4	504.8	504.5	502.2	499.5	495.8	494.6	493.8
49°	495.8	498.7	499.9	500.1	499.4	499.0	496.3	493.9	490.7	489.0	487.9
49.5°	490.3	493.0	494.3	494.6	493.8	493.5	490.9	488.4	485.2	483.4	482.5
50°	484.7	487.6	488.5	488.8	488.3	487.9	485.3	482.9	479.3	478.0	476.8
50.5°	479.0	482.1	483.1	483.3	482.8	482.0	479.6	477.1	473.5	471.9	471.0
51°	473.0	476.3	477.3	477.4	477.1	476.3	473.7	471.5	467.6	466.0	465.0
51.5°	467.4	470.6	471.6	471.8	471.2	470.6	467.7	465.8	462.1	460.5	459.3
52°	461.6	464.7	465.9	466.0	465.5	464.7	462.2	460.0	456.5	454.4	453.6
52.5°	455.4	458.8	459.8	459.9	459.5	459.1	456.5	454.3	450.4	448.7	447.5
53°	449.2	452.8	453.9	453.9	453.4	453.2	450.7	448.0	444.3	442.6	441.6
53.5°	443.7	446.9	448.1	448.3	447.8	447.3	444.7	442.2	438.3	436.7	435.8
54°	437.9	440.8	442.0	442.1	442.0	441.1	438.7	436.0	432.8	430.5	429.6
54.5°	432.0	434.7	436.2	436.0	436.1	435.4	432.8	430.2	426.7	424.3	423.4
55°	425.5	428.9	430.1	430.0	430.1	429.1	426.8	424.1	420.4	418.5	417.6
55.5°	419.6	422.7	424.1	423.8	424.0	423.2	420.7	418.5	414.3	412.8	411.2
56°	413.7	416.6	418.0	417.8	418.1	417.0	414.4	412.0	408.1	406.4	404.9
56.5°	407.5	410.3	411.7	411.7	412.0	410.7	408.1	406.1	401.9	400.0	398.7
57°	401.0	404.1	405.7	405.5	405.8	404.7	402.1	399.7	396.0	393.7	392.3
57.5°	394.8	397.9	399.4	399.2	399.6	398.3	395.6	393.4	389.5	387.3	386.2
58°	388.7	391.8	393.2	393.0	393.1	392.1	389.5	387.0	383.2	381.1	379.9
58.5°	382.4	385.7	387.0	386.7	386.8	385.9	383.2	380.9	377.1	374.9	373.5
59°	375.8	379.1	380.5	380.2	380.8	379.3	376.8	374.2	370.7	368.7	367.3
59.5°	369.5	372.6	374.1	373.9	374.4	373.0	370.3	367.8	364.2	361.7	360.6
60°	363.0	366.1	367.5	367.3	367.8	366.5	363.7	361.2	357.9	355.4	354.2
60.5°	356.6	359.6	361.1	360.9	361.5	360.2	357.5	355.0	351.4	349.1	347.8
61°	350.4	353.3	354.7	354.4	355.1	353.6	351.0	348.6	344.9	342.6	341.4
61.5°	343.6	346.6	348.2	348.1	348.7	347.0	344.5	342.1	338.4	335.9	334.8
62°	337.0	340.0	341.8	341.7	342.2	340.7	337.9	335.4	332.0	329.3	327.9
62.5°	330.3	333.6	334.9	334.9	335.6	334.0	331.2	328.7	325.1	322.8	321.3
63°	323.8	327.0	328.1	328.3	328.9	327.5	324.6	322.0	318.5	316.0	314.7
63.5°	317.0	320.1	321.5	321.6	322.5	321.0	318.1	315.6	311.8	309.2	307.9
64°	310.5	313.6	314.8	314.8	315.6	314.0	311.4	308.7	305.2	302.6	301.3
64.5°	303.8	307.0	308.2	308.5	309.1	307.5	304.7	301.9	298.5	295.8	294.3
65°	297.1	300.1	301.4	301.8	302.2	300.8	297.8	295.1	291.8	289.1	287.7
65.5°	290.3	293.3	294.6	294.8	295.4	294.0	291.2	288.4	285.2	282.4	281.1
66°	283.7	286.6	287.8	287.9	288.7	287.1	284.2	281.4	278.1	275.7	274.5
66.5°	276.6	279.7	281.1	281.1	282.1	280.2	277.6	274.7	271.4	268.7	267.4
67°	269.8	272.9	274.2	274.4	275.3	273.7	270.8	267.8	264.6	261.8	260.4

TEST NUMBER: P869702
 CATALOG NUMBER: SMX18RLSFS010-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	263.0	265.9	267.2	267.4	268.6	266.7	264.1	260.9	257.7	254.9	253.5
68°	255.9	258.9	260.2	260.3	261.5	259.6	257.1	254.0	250.8	248.2	246.6
68.5°	249.1	252.2	253.4	253.8	255.0	252.8	250.2	247.0	244.1	241.5	239.9
69°	242.3	245.3	246.3	247.0	248.1	246.0	242.9	240.2	237.0	234.3	233.0
69.5°	235.0	238.3	239.5	239.6	241.0	239.1	236.2	233.4	230.2	227.3	225.8
70°	228.1	231.3	232.4	232.6	234.0	232.1	229.2	226.2	223.0	220.5	218.9
70.5°	221.3	224.1	225.3	225.8	227.3	225.2	222.3	219.3	216.3	213.5	211.9
71°	214.1	217.4	218.4	218.8	220.4	218.5	215.5	212.2	209.3	206.6	205.1
71.5°	207.1	210.3	211.4	211.8	213.3	211.3	208.4	205.2	202.2	199.5	198.1
72°	200.2	203.3	204.3	204.8	206.4	204.5	201.4	198.3	195.1	192.3	190.9
72.5°	193.2	196.1	197.3	197.6	199.4	197.4	194.6	191.0	188.0	185.4	184.0
73°	186.1	189.0	190.2	190.5	192.2	190.2	187.2	184.0	181.2	178.4	176.9
73.5°	179.2	182.0	183.3	183.5	185.5	183.3	180.3	176.9	174.3	171.3	170.0
74°	172.2	175.1	176.3	176.6	178.4	176.4	173.4	170.0	167.2	164.3	163.0
74.5°	165.3	168.2	169.4	169.5	171.3	169.5	166.5	163.0	160.2	157.4	156.0
75°	158.0	161.0	162.2	162.4	164.3	162.5	159.5	155.9	153.3	150.4	149.0
75.5°	151.4	154.1	155.4	155.3	157.5	155.4	152.4	149.3	146.4	143.7	142.3
76°	144.4	147.3	148.6	148.5	150.5	148.6	145.5	142.3	139.5	136.8	135.3
76.5°	137.5	140.3	141.6	141.4	143.7	141.6	138.5	135.6	132.6	129.6	128.3
77°	130.6	133.5	134.9	134.7	136.7	134.8	131.7	128.8	125.7	123.0	121.5
77.5°	123.7	126.6	127.9	127.9	129.9	128.0	125.0	121.8	119.1	116.2	114.9
78°	117.0	119.9	121.0	121.2	123.0	121.2	118.2	115.2	112.0	109.7	108.2
78.5°	110.2	113.0	114.4	114.6	116.4	114.3	111.4	108.2	105.5	102.7	101.5
79°	103.7	106.5	107.8	107.9	109.6	107.7	104.9	101.7	98.8	96.3	95.2
79.5°	97.0	99.7	101.1	101.3	102.9	101.1	98.2	95.0	92.3	89.9	88.5
80°	90.5	93.1	94.5	94.6	96.3	94.8	91.6	88.5	86.0	83.8	82.3
80.5°	84.3	86.8	88.0	88.4	89.9	88.3	85.5	82.5	79.7	77.4	76.1
81°	77.9	80.5	81.7	82.1	83.9	82.2	79.2	76.1	73.6	71.2	70.1
81.5°	71.8	74.2	75.5	75.6	77.3	75.8	73.0	70.0	67.3	65.2	64.2
82°	65.5	68.1	69.2	69.2	71.0	69.6	67.2	64.1	61.3	59.2	58.2
82.5°	59.5	62.0	63.2	63.2	65.1	63.7	61.1	58.2	55.5	53.4	52.5
83°	54.0	56.3	57.3	57.4	59.4	57.8	55.3	52.5	49.9	47.9	47.0
83.5°	48.3	50.6	51.7	51.8	53.6	52.0	49.6	46.7	44.4	42.5	41.5
84°	43.0	45.2	46.1	46.2	47.8	46.5	44.1	41.4	38.9	37.4	36.3
84.5°	37.8	39.9	40.7	41.0	42.5	41.2	38.8	36.3	33.9	32.2	31.4
85°	32.8	34.8	35.6	35.6	37.5	36.1	33.8	31.2	29.1	27.4	26.6
85.5°	28.1	30.0	30.8	30.8	32.2	31.0	28.7	26.4	24.5	23.0	22.2
86°	23.8	25.5	26.2	26.3	27.5	26.2	24.1	22.1	20.5	18.9	18.2
86.5°	20.0	21.5	22.2	22.2	22.8	21.8	20.0	18.0	16.4	15.4	14.9
87°	16.1	17.7	18.2	18.2	19.1	17.9	16.3	14.6	13.1	12.0	11.6
87.5°	12.8	14.2	14.7	14.7	15.3	14.6	13.1	11.4	10.0	9.1	8.6
88°	9.6	10.8	11.4	11.3	12.2	11.3	9.9	8.4	7.2	6.3	6.2
88.5°	6.5	7.6	8.1	8.1	9.0	8.4	7.1	5.8	4.8	4.2	3.8
89°	4.4	5.3	5.7	5.5	6.4	5.7	4.7	3.6	2.8	2.3	2.1
89.5°	2.9	3.5	3.8	3.6	4.1	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: P869702
CATALOG NUMBER: SMX18RLSFS010-2000LM-3000K

CANDELA DISTRIBUTION (continued):

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

TEST NUMBER: P869702
 CATALOG NUMBER: SMX18RLSFS010-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	786.9	786.9	786.9	786.9	786.9	786.9
0.5°	786.8	786.7	787.5	786.5	786.5	786.3
1°	786.1	786.2	787.0	785.9	786.3	786.3
1.5°	786.0	786.5	786.8	785.8	786.3	786.3
2°	785.7	786.5	786.3	785.6	786.3	786.0
2.5°	785.5	785.8	786.2	785.5	786.0	785.5
3°	784.9	785.2	786.2	784.8	785.9	785.0
3.5°	784.6	784.6	785.5	784.6	785.3	784.7
4°	784.6	783.8	784.8	784.5	784.5	784.5
4.5°	783.7	783.5	784.1	783.5	783.6	784.0
5°	783.2	783.2	783.7	782.6	782.8	783.8
5.5°	781.7	782.0	782.7	781.7	782.3	782.7
6°	780.9	781.2	781.7	781.5	782.0	781.8
6.5°	780.3	780.3	781.1	780.8	781.1	781.2
7°	779.7	779.3	780.2	779.8	780.5	780.3
7.5°	778.0	778.5	778.8	778.9	779.6	779.3
8°	777.2	777.1	777.8	777.6	778.3	778.3
8.5°	776.2	776.1	777.0	776.3	777.2	777.3
9°	774.7	774.7	776.0	775.5	775.9	776.2
9.5°	773.8	773.5	774.0	774.2	774.7	774.9
10°	772.6	772.5	772.7	772.4	773.5	774.0
10.5°	771.1	771.3	771.2	770.7	772.3	773.1
11°	769.4	769.6	769.9	769.8	771.2	771.7
11.5°	768.2	768.2	768.7	768.4	770.2	770.1
12°	766.5	766.5	767.6	766.7	768.5	768.8
12.5°	764.8	764.9	765.4	765.2	767.0	767.2
13°	763.2	763.4	764.2	764.0	765.4	765.7
13.5°	761.7	761.9	762.4	762.1	764.0	764.0
14°	759.6	760.0	760.8	760.6	762.5	763.1
14.5°	758.1	758.2	759.0	758.9	761.0	761.1
15°	756.3	756.3	757.0	756.8	759.0	758.8
15.5°	754.6	754.0	755.0	755.1	756.7	756.9
16°	752.7	751.8	753.2	752.9	754.6	754.6
16.5°	750.4	749.5	750.9	751.4	752.4	753.1
17°	748.4	747.0	748.4	749.7	750.4	750.8
17.5°	745.8	744.5	746.3	747.3	748.1	748.3
18°	743.5	742.3	743.5	745.0	745.8	746.3
18.5°	740.5	739.9	740.5	742.6	743.2	743.8
19°	737.9	737.4	738.0	740.7	740.7	741.2
19.5°	735.3	734.4	735.6	737.9	738.3	739.0
20°	732.8	732.0	733.5	735.3	736.1	736.5
20.5°	730.0	729.5	730.7	733.0	733.1	733.9
21°	727.4	726.7	728.1	730.6	730.4	731.3
21.5°	724.6	723.6	725.2	727.5	727.4	728.2
22°	721.9	720.6	721.9	724.4	724.5	725.4

TEST NUMBER: P869702
 CATALOG NUMBER: SMX18RLSFS010-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	718.8	717.8	719.4	721.6	722.1	722.8
23°	716.1	715.0	716.7	718.7	719.6	720.2
23.5°	712.7	712.2	713.2	715.5	716.3	717.0
24°	709.8	709.1	710.0	712.1	712.8	714.1
24.5°	706.3	706.0	706.8	708.9	710.1	711.3
25°	703.4	703.1	704.5	705.9	707.3	708.2
25.5°	700.2	699.4	701.2	702.6	704.0	704.4
26°	696.7	696.2	698.0	699.2	700.9	701.4
26.5°	693.1	692.3	694.6	695.7	697.5	697.6
27°	689.9	689.0	691.1	692.5	693.9	694.5
27.5°	686.4	685.2	687.6	689.0	690.6	691.1
28°	683.0	681.9	684.4	685.6	687.5	687.8
28.5°	679.2	678.3	680.5	681.6	684.0	683.9
29°	675.9	674.6	676.8	678.2	680.3	680.3
29.5°	671.8	670.7	672.8	674.4	676.4	677.0
30°	668.1	667.2	669.3	670.8	672.8	673.5
30.5°	664.6	663.3	665.3	666.6	669.2	669.8
31°	660.6	659.4	661.5	662.9	665.7	665.9
31.5°	656.5	655.4	657.5	659.0	661.5	662.4
32°	652.5	651.2	653.9	655.4	657.8	658.3
32.5°	648.6	647.2	650.0	651.3	653.8	654.3
33°	644.6	643.5	646.1	647.4	650.2	650.5
33.5°	640.5	639.1	641.6	643.1	646.3	646.5
34°	636.5	634.7	637.5	639.1	642.1	642.2
34.5°	631.8	630.6	633.2	635.0	637.9	637.9
35°	627.4	626.5	629.1	630.4	633.6	633.6
35.5°	623.2	622.1	624.2	626.0	629.1	629.0
36°	618.9	617.8	620.2	622.0	625.0	625.1
36.5°	614.8	613.2	615.8	617.8	620.9	620.8
37°	610.5	608.7	611.2	613.2	616.3	616.5
37.5°	605.9	604.4	606.4	608.9	611.9	612.1
38°	600.7	599.7	601.8	604.0	607.1	606.9
38.5°	596.6	594.9	597.1	599.3	602.4	602.4
39°	591.9	590.4	592.4	594.9	597.8	598.0
39.5°	586.9	585.7	587.4	589.9	592.8	593.4
40°	582.2	580.7	583.1	585.3	588.0	588.3
40.5°	577.1	575.8	578.0	580.5	583.5	583.6
41°	572.1	571.1	573.0	575.3	577.9	579.2
41.5°	567.5	565.9	568.0	570.7	573.2	574.4
42°	562.4	560.9	563.3	565.6	568.0	569.3
42.5°	557.2	556.1	557.9	560.4	563.1	564.3
43°	552.6	551.2	553.1	555.4	558.1	559.3
43.5°	547.4	546.1	547.8	550.6	553.4	554.2
44°	541.8	540.7	542.7	545.5	548.5	549.4
44.5°	536.8	535.5	537.6	540.1	543.2	544.5

TEST NUMBER: P869702
 CATALOG NUMBER: SMX18RLSFS010-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	531.6	530.1	532.3	535.2	537.8	539.0
45.5°	526.6	524.7	527.2	530.0	532.2	533.5
46°	520.8	519.2	521.9	524.3	526.9	528.7
46.5°	515.5	514.1	516.4	519.1	521.7	523.2
47°	510.1	508.3	510.6	513.4	516.4	518.0
47.5°	504.3	503.0	505.4	508.2	510.9	512.2
48°	498.8	497.2	499.5	502.6	505.3	506.9
48.5°	493.3	491.7	494.0	497.2	500.1	501.7
49°	487.6	486.6	488.5	491.4	494.7	495.8
49.5°	482.0	480.7	482.9	486.0	488.9	490.3
50°	476.3	474.8	476.9	480.1	483.3	484.7
50.5°	470.5	469.1	471.3	474.6	477.5	479.0
51°	464.7	463.5	465.4	468.9	471.9	473.0
51.5°	459.0	457.6	459.5	462.9	465.9	467.4
52°	453.0	451.5	453.8	456.8	460.0	461.6
52.5°	446.9	445.8	448.0	451.1	453.9	455.4
53°	441.4	439.7	442.0	445.1	448.4	449.2
53.5°	435.2	433.7	436.0	439.2	442.2	443.7
54°	429.1	427.6	429.9	433.0	436.0	437.9
54.5°	423.0	421.5	423.8	427.0	430.0	432.0
55°	417.3	415.6	418.0	421.0	423.8	425.5
55.5°	411.0	409.5	412.0	414.9	418.2	419.6
56°	404.7	403.4	405.6	409.0	412.1	413.7
56.5°	398.4	397.1	399.4	402.7	405.7	407.5
57°	392.5	390.7	393.1	396.5	399.2	401.0
57.5°	386.0	384.6	386.8	389.9	393.0	394.8
58°	379.6	378.1	380.5	383.6	386.7	388.7
58.5°	373.3	371.7	374.3	377.3	380.4	382.4
59°	367.0	365.3	367.8	370.7	374.0	375.8
59.5°	360.4	358.7	361.2	364.3	367.4	369.5
60°	354.0	352.2	354.8	357.9	360.9	363.0
60.5°	347.6	345.9	347.9	351.5	354.4	356.6
61°	341.0	339.4	341.8	344.9	347.9	350.4
61.5°	334.4	332.8	335.3	338.5	341.6	343.6
62°	327.8	326.2	328.6	331.7	334.9	337.0
62.5°	321.3	319.7	322.0	325.1	328.2	330.3
63°	314.5	312.8	315.1	318.1	321.6	323.8
63.5°	307.9	306.2	308.5	311.4	314.8	317.0
64°	301.0	299.2	301.6	305.0	308.2	310.5
64.5°	294.2	292.6	294.9	298.0	301.3	303.8
65°	287.6	286.1	288.1	291.0	294.7	297.1
65.5°	280.7	279.1	281.6	284.3	287.7	290.3
66°	273.9	272.4	274.5	277.6	281.0	283.7
66.5°	267.1	265.1	267.8	270.6	274.1	276.6
67°	260.0	258.5	260.7	263.6	267.3	269.8

TEST NUMBER: P869702
 CATALOG NUMBER: SMX18RLSFS010-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	253.5	251.7	253.9	256.9	260.4	263.0
68°	246.6	244.4	247.0	249.9	253.6	255.9
68.5°	239.5	237.7	239.8	242.9	246.5	249.1
69°	232.6	230.6	232.8	235.9	239.5	242.3
69.5°	225.5	223.6	225.9	228.9	232.4	235.0
70°	218.7	216.7	219.2	222.1	225.4	228.1
70.5°	211.9	209.7	212.1	214.9	218.6	221.3
71°	204.8	202.7	205.3	208.2	211.6	214.1
71.5°	197.8	195.6	197.9	200.8	204.5	207.1
72°	190.8	188.8	190.8	193.8	197.4	200.2
72.5°	183.6	181.8	184.0	186.9	190.5	193.2
73°	176.7	174.7	176.8	179.9	183.3	186.1
73.5°	169.9	167.7	169.8	172.9	176.4	179.2
74°	163.0	160.7	162.8	165.9	169.2	172.2
74.5°	155.9	153.8	155.8	158.8	162.1	165.3
75°	149.0	146.9	149.0	151.9	155.1	158.0
75.5°	142.3	140.1	141.9	145.1	148.4	151.4
76°	135.3	133.1	135.1	138.1	141.4	144.4
76.5°	128.4	126.3	128.2	131.2	134.7	137.5
77°	121.4	119.5	121.6	124.5	127.8	130.6
77.5°	114.7	112.8	114.8	117.9	121.1	123.7
78°	108.0	106.1	108.2	111.0	114.4	117.0
78.5°	101.4	99.5	101.5	104.3	107.8	110.2
79°	94.9	92.8	94.9	97.8	101.2	103.7
79.5°	88.5	86.4	88.4	91.2	94.5	97.0
80°	82.2	80.2	82.0	84.9	88.0	90.5
80.5°	76.1	73.9	75.8	78.5	81.5	84.3
81°	70.1	67.8	69.6	72.4	75.3	77.9
81.5°	63.9	61.8	63.5	66.3	69.3	71.8
82°	57.9	56.0	57.6	60.4	63.1	65.5
82.5°	52.2	50.3	52.1	54.5	57.3	59.5
83°	46.8	44.8	46.6	49.0	51.7	54.0
83.5°	41.4	39.6	41.0	43.4	46.2	48.3
84°	36.2	34.5	36.0	38.3	40.8	43.0
84.5°	31.3	29.8	31.1	33.3	35.7	37.8
85°	26.4	25.3	26.6	28.7	30.9	32.8
85.5°	22.1	21.3	22.4	24.1	26.4	28.1
86°	18.2	17.3	18.5	20.2	22.3	23.8
86.5°	14.8	13.8	14.8	16.4	18.3	20.0
87°	11.7	10.5	11.5	13.0	14.7	16.1
87.5°	8.6	7.3	8.4	9.9	11.4	12.8
88°	6.0	5.2	5.7	6.8	8.1	9.6
88.5°	3.9	3.3	3.9	4.7	5.7	6.5
89°	2.1	2.0	2.4	3.1	3.8	4.4
89.5°	0.9	1.2	1.6	2.0	2.5	2.9

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



TEST NUMBER: P869702
CATALOG NUMBER: SMX18RLSFS010-2000LM-3000K

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)