

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: P869705

Luminaire Tested: **SMX18RLSFS010-2000LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869705
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS010-2000LM-5000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

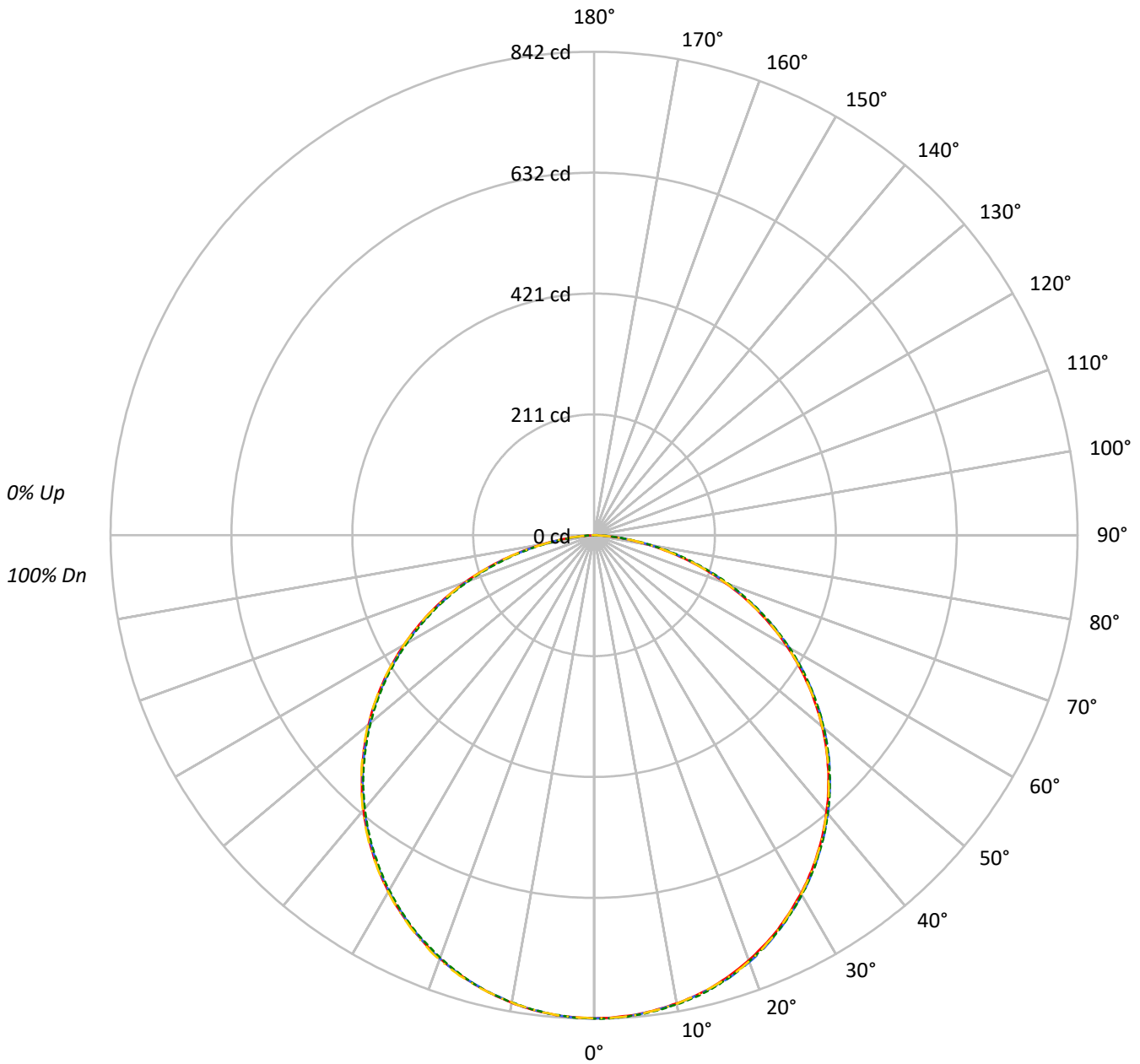
Lumens per Lamp: N/A
 Luminaire Lumens: 2456.6 lumens
 Efficiency: N/A
 Efficacy: 105.9 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5126	5126	5126	5126
5°	5126	5128	5121	5122
10°	5120	5132	5115	5110
15°	5118	5132	5100	5101
20°	5106	5120	5086	5075
25°	5090	5105	5063	5053
30°	5066	5087	5039	5019
35°	5039	5064	5007	4983
40°	5003	5035	4968	4938
45°	4966	4999	4919	4883
50°	4912	4948	4858	4812
55°	4833	4885	4776	4720
60°	4730	4793	4663	4589
65°	4579	4660	4498	4410
70°	4344	4458	4248	4126
75°	3977	4137	3857	3700
80°	3395	3613	3227	3006
85°	2446	2803	2174	1894

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	3.2
10°-20°	228.9	9.3
20°-30°	348.5	14.2
30°-40°	423.2	17.2
40°-50°	443.0	18.0
50°-60°	404.6	16.5
60°-70°	311.2	12.7
70°-80°	176.1	7.2
80°-90°	41.5	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°	657.0	26.7
0°-40°	1080.2	44.0
0°-60°	1927.8	78.5
0°-90°	2456.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	842	842	842	842	842	
5°	838	839	838	838	838	80
15°	812	814	809	809	812	229
25°	757	760	753	752	757	349
35°	678	681	673	670	678	424
45°	576	580	571	567	576	445
55°	455	460	450	444	455	407
65°	318	323	312	306	318	314
75°	169	176	164	157	169	179
85°	35	40	31	27	35	43
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°	841.6	841.6	841.6	841.6	841.6	841.6	841.6	841.6	841.6	841.6	841.6
0.5°	840.9	841.5	841.4	841.5	842.1	842.6	841.5	841.8	840.7	841.4	841.6
1°	840.9	841.6	841.4	841.8	842.2	842.3	840.9	841.4	840.9	841.3	841.4
1.5°	840.9	842.0	841.3	841.3	841.9	841.9	841.4	841.0	840.6	841.3	841.2
2°	840.7	841.5	841.1	840.9	841.5	841.9	841.2	840.8	840.4	840.7	840.5
2.5°	840.1	841.4	840.9	840.8	841.5	841.4	840.7	840.1	840.3	840.7	840.5
3°	839.6	840.9	840.9	840.3	840.9	840.6	840.4	839.8	839.4	840.8	839.8
3.5°	839.2	840.3	840.6	840.3	840.4	840.0	840.3	839.6	839.6	840.2	839.6
4°	839.0	839.9	839.9	839.7	840.4	839.9	839.6	839.2	839.2	839.2	839.1
4.5°	838.5	838.9	839.1	839.5	839.3	839.7	839.2	838.7	838.5	838.5	838.5
5°	838.3	838.2	838.3	838.8	838.7	839.0	838.6	837.6	837.5	837.8	837.9
5.5°	837.1	838.0	838.0	838.5	838.3	838.6	838.1	837.1	836.8	836.9	837.0
6°	836.2	837.2	836.6	837.5	837.7	837.8	837.0	836.6	835.7	835.9	835.3
6.5°	835.5	836.3	836.0	836.5	836.6	837.1	835.9	835.9	835.4	834.7	834.4
7°	834.5	835.1	835.2	835.4	835.6	836.1	834.9	834.5	834.2	834.2	833.8
7.5°	833.5	834.1	834.2	834.8	835.3	834.9	834.4	833.2	833.2	833.1	832.7
8°	832.4	833.1	833.0	833.5	834.2	834.1	833.5	832.6	832.0	831.7	831.6
8.5°	831.3	832.3	832.2	832.4	833.0	833.2	831.8	831.3	831.0	830.6	830.6
9°	830.2	831.3	830.8	831.4	831.7	832.0	830.6	830.2	829.5	829.3	829.1
9.5°	828.8	830.1	829.9	830.4	830.6	831.0	829.8	828.9	828.4	827.8	827.7
10°	827.8	828.7	828.5	828.9	829.8	829.6	828.3	827.2	827.0	826.2	826.0
10.5°	826.9	827.3	827.2	828.1	828.6	828.3	826.6	826.1	825.0	824.8	824.5
11°	825.4	825.8	825.9	826.7	827.1	826.8	825.3	824.6	823.5	823.7	822.7
11.5°	823.6	824.4	824.4	825.4	826.0	825.5	823.9	822.6	821.9	822.4	821.2
12°	822.3	823.1	822.9	824.1	824.3	824.0	822.6	821.1	820.5	820.1	819.7
12.5°	820.5	821.3	821.0	822.4	823.3	822.4	821.1	819.2	818.3	818.3	818.2
13°	819.0	820.0	819.6	821.2	821.7	821.0	819.2	817.4	816.8	816.4	816.2
13.5°	817.1	818.1	818.3	819.2	819.7	819.2	817.5	816.1	814.7	814.3	814.7
14°	816.1	816.4	816.6	818.0	818.0	817.5	815.4	814.2	812.8	812.6	812.8
14.5°	814.0	814.3	814.9	816.2	816.2	815.8	814.0	811.9	811.1	810.2	810.3
15°	811.6	812.3	813.2	813.6	813.9	813.6	812.2	810.1	808.8	808.5	808.5
15.5°	809.5	810.6	811.1	811.9	812.4	811.8	810.1	807.6	806.7	806.4	806.6
16°	807.1	809.0	809.6	809.9	809.7	809.9	808.2	805.4	804.6	804.4	804.5
16.5°	805.4	806.8	807.9	807.7	807.6	807.6	805.7	803.8	802.4	802.1	802.0
17°	803.0	804.4	805.7	805.5	805.6	805.3	803.7	801.5	799.8	799.5	799.3
17.5°	800.3	802.1	803.4	803.4	803.1	803.0	801.8	798.9	798.0	797.0	797.2
18°	798.2	799.7	801.1	800.4	800.6	800.4	800.0	796.6	795.3	794.5	794.9
18.5°	795.5	797.0	798.9	798.1	797.6	797.9	797.2	793.7	792.5	792.1	792.2
19°	792.7	794.7	796.5	795.4	795.2	795.1	795.1	791.5	790.1	789.2	790.0
19.5°	790.3	792.1	793.7	792.7	792.9	792.7	791.9	789.0	787.2	786.3	787.4
20°	787.7	789.7	791.1	789.5	789.8	790.0	789.4	786.0	784.6	783.9	784.5
20.5°	785.0	786.5	788.7	787.1	787.0	786.6	786.4	783.2	782.2	781.1	781.7
21°	782.2	783.4	785.9	784.3	784.4	783.5	784.3	780.4	779.4	778.2	778.9
21.5°	778.8	780.5	783.0	781.6	781.2	781.1	781.0	777.8	776.0	775.0	776.1
22°	775.8	777.6	780.1	778.5	778.5	777.9	778.2	775.0	772.7	771.9	773.1

TEST NUMBER: P869705
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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°	773.0	774.7	777.0	775.4	775.4	774.8	775.0	772.0	769.8	768.5	769.5
23°	770.3	772.0	773.5	772.7	772.3	772.0	771.4	768.5	766.6	765.7	766.1
23.5°	766.9	769.2	770.6	769.7	769.3	769.2	768.5	765.5	763.3	763.0	762.5
24°	763.8	765.9	767.2	766.3	766.2	765.4	765.3	762.7	760.4	759.0	759.1
24.5°	760.7	762.7	763.5	763.0	763.3	761.7	761.7	759.3	756.9	755.7	756.2
25°	757.4	759.2	760.2	759.9	759.6	759.0	758.3	756.2	753.4	752.3	752.0
25.5°	753.3	755.6	756.7	756.8	756.5	756.1	754.7	753.1	750.1	748.9	748.4
26°	750.2	752.5	753.1	753.3	753.0	752.1	751.1	749.5	746.4	745.6	745.4
26.5°	746.1	748.9	749.6	749.5	749.6	748.6	747.4	746.0	743.1	742.0	741.4
27°	742.8	745.6	745.8	746.1	745.5	745.3	743.7	742.3	739.2	738.7	737.7
27.5°	739.2	742.2	742.4	743.1	742.3	741.3	739.7	738.8	735.5	735.2	734.2
28°	735.6	738.2	738.9	739.4	738.8	738.0	735.9	734.9	732.3	731.6	730.4
28.5°	731.5	734.9	734.7	735.4	735.0	734.4	732.7	731.5	728.5	727.6	726.8
29°	727.6	731.4	730.9	731.6	731.4	730.5	728.7	727.8	724.5	723.6	722.8
29.5°	724.1	727.5	727.5	728.0	727.2	726.5	725.0	724.1	720.5	719.6	719.0
30°	720.3	723.6	723.7	724.3	723.2	722.6	721.4	720.0	716.4	715.7	714.5
30.5°	716.4	719.9	719.7	720.3	719.3	718.7	717.5	716.2	712.3	711.9	710.8
31°	712.1	715.8	715.7	716.1	715.7	714.8	713.1	712.1	708.3	707.3	706.8
31.5°	708.5	711.4	711.5	712.2	711.4	710.4	709.2	707.7	704.2	703.1	702.5
32°	704.1	707.0	707.5	708.5	707.0	706.1	704.9	703.5	699.9	699.4	698.0
32.5°	699.8	702.9	703.0	704.3	702.8	702.4	700.5	699.5	695.6	695.2	694.0
33°	695.7	698.7	698.6	699.9	698.9	698.0	696.3	694.9	691.2	691.1	689.5
33.5°	691.4	694.5	694.6	695.5	695.0	693.9	691.8	690.5	686.8	686.6	685.0
34°	686.8	690.4	690.4	691.1	690.4	689.5	687.1	686.7	682.7	682.0	680.3
34.5°	682.3	685.8	685.7	686.7	685.6	685.2	683.0	682.2	678.3	677.4	675.9
35°	677.6	681.4	681.0	682.4	681.0	680.7	678.2	677.2	673.4	672.9	671.3
35.5°	672.7	676.7	676.7	678.0	676.6	676.1	673.8	672.7	668.8	668.5	666.7
36°	668.6	672.3	671.9	673.3	671.8	671.5	669.1	668.0	664.2	663.7	662.0
36.5°	663.9	667.6	667.3	668.5	667.0	666.7	664.4	663.4	659.5	659.3	657.5
37°	659.3	663.0	662.9	663.6	662.7	662.3	659.8	658.7	654.7	654.3	652.2
37.5°	654.6	657.9	657.9	659.1	658.2	657.5	655.1	654.1	649.9	648.9	647.3
38°	649.1	653.0	653.0	654.3	653.1	652.5	650.1	649.3	644.9	644.1	642.5
38.5°	644.3	648.0	648.3	649.6	648.2	647.5	645.3	644.6	639.8	638.6	637.7
39°	639.6	643.4	643.4	644.6	643.4	642.9	640.0	639.4	635.0	634.0	632.7
39.5°	634.7	637.9	638.4	639.5	638.4	637.7	635.2	634.4	629.8	629.1	627.8
40°	629.2	632.8	633.4	634.1	633.2	632.7	630.4	629.1	624.8	623.8	622.5
40.5°	624.2	627.7	628.3	629.2	628.2	627.9	625.7	623.6	619.7	618.2	617.5
41°	619.5	622.6	623.1	624.0	622.9	622.6	620.2	618.1	614.5	613.3	612.0
41.5°	614.4	617.3	618.1	618.8	617.9	617.2	615.3	613.1	609.5	607.9	607.0
42°	608.8	611.8	613.0	613.6	612.7	612.1	609.8	607.6	604.1	602.4	601.5
42.5°	603.6	606.7	607.9	608.1	607.3	606.8	604.7	602.0	598.6	597.3	596.0
43°	598.2	601.1	602.3	602.6	601.9	601.4	599.0	596.8	593.0	592.1	590.8
43.5°	592.7	595.9	596.7	597.4	596.5	595.8	593.3	591.3	587.6	586.7	585.4
44°	587.6	590.7	591.6	591.8	591.2	590.8	587.9	586.0	582.0	581.3	579.8
44.5°	582.4	585.2	586.3	586.5	585.8	585.1	582.5	580.2	576.7	575.7	574.3

TEST NUMBER: P869705
 CATALOG NUMBER: SMX18RLSFS010-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	576.5	579.1	580.9	581.2	580.3	579.6	577.0	574.6	571.0	569.9	568.5
45.5°	570.5	573.9	575.2	575.5	574.4	574.1	571.6	569.1	565.5	563.8	563.1
46°	565.4	568.3	569.4	569.6	568.8	568.3	565.9	563.5	559.7	558.2	557.3
46.5°	559.6	562.5	564.1	563.7	563.2	562.7	560.4	557.5	553.6	552.4	551.7
47°	554.0	556.8	558.2	558.3	557.5	557.0	554.6	552.2	548.1	546.8	545.9
47.5°	547.8	550.9	552.5	552.7	551.9	551.2	548.5	546.6	542.3	540.9	539.7
48°	542.2	545.3	546.5	546.6	545.9	545.7	543.0	540.5	536.6	535.0	533.7
48.5°	536.5	539.5	540.8	540.6	539.9	539.5	537.1	534.2	530.3	529.0	528.1
49°	530.3	533.4	534.6	534.9	534.1	533.6	530.8	528.3	524.8	523.0	521.8
49.5°	524.3	527.2	528.6	529.0	528.1	527.8	525.0	522.3	518.9	517.0	516.1
50°	518.4	521.5	522.5	522.8	522.2	521.8	519.1	516.4	512.7	511.2	509.9
50.5°	512.3	515.6	516.7	516.9	516.3	515.5	512.9	510.3	506.4	504.7	503.8
51°	505.9	509.4	510.5	510.5	510.3	509.4	506.7	504.3	500.1	498.4	497.4
51.5°	499.9	503.3	504.4	504.6	504.0	503.3	500.3	498.2	494.2	492.5	491.2
52°	493.7	497.0	498.2	498.4	497.9	497.0	494.3	492.0	488.2	486.0	485.2
52.5°	487.1	490.7	491.7	491.9	491.4	491.0	488.2	485.9	481.7	479.9	478.7
53°	480.4	484.3	485.5	485.5	484.9	484.7	482.0	479.2	475.2	473.4	472.3
53.5°	474.5	478.0	479.3	479.4	478.9	478.4	475.6	472.9	468.8	467.1	466.1
54°	468.3	471.5	472.8	472.9	472.7	471.8	469.2	466.4	462.8	460.5	459.5
54.5°	462.1	465.0	466.5	466.4	466.4	465.7	462.8	460.1	456.3	453.8	452.8
55°	455.1	458.7	460.0	459.9	460.0	459.0	456.4	453.6	449.7	447.6	446.7
55.5°	448.8	452.1	453.6	453.3	453.4	452.7	449.9	447.6	443.1	441.5	439.8
56°	442.5	445.5	447.0	446.9	447.1	446.0	443.3	440.6	436.5	434.6	433.1
56.5°	435.8	438.9	440.4	440.3	440.6	439.3	436.5	434.3	429.8	427.8	426.4
57°	428.8	432.2	433.9	433.7	434.0	432.8	430.1	427.5	423.5	421.1	419.5
57.5°	422.3	425.6	427.2	426.9	427.4	425.9	423.1	420.8	416.6	414.3	413.0
58°	415.7	419.0	420.5	420.3	420.4	419.4	416.6	413.9	409.9	407.6	406.3
58.5°	409.0	412.5	413.9	413.6	413.7	412.7	409.9	407.3	403.3	400.9	399.5
59°	402.0	405.5	407.0	406.6	407.2	405.7	403.0	400.2	396.4	394.3	392.8
59.5°	395.2	398.5	400.1	399.9	400.4	398.9	396.1	393.4	389.5	386.9	385.7
60°	388.3	391.6	393.1	392.8	393.4	392.0	389.0	386.3	382.8	380.1	378.8
60.5°	381.4	384.6	386.2	386.0	386.6	385.3	382.4	379.7	375.8	373.3	372.0
61°	374.7	377.8	379.3	379.0	379.8	378.2	375.4	372.8	368.9	366.4	365.2
61.5°	367.5	370.7	372.4	372.3	373.0	371.1	368.4	365.9	361.9	359.3	358.0
62°	360.4	363.7	365.5	365.4	366.0	364.4	361.4	358.7	355.1	352.2	350.7
62.5°	353.3	356.8	358.2	358.2	358.9	357.3	354.3	351.5	347.7	345.2	343.6
63°	346.3	349.7	350.9	351.1	351.8	350.2	347.2	344.4	340.7	338.0	336.5
63.5°	339.1	342.3	343.8	344.0	344.9	343.3	340.2	337.5	333.5	330.7	329.3
64°	332.1	335.4	336.7	336.7	337.6	335.8	333.0	330.2	326.4	323.6	322.2
64.5°	324.9	328.4	329.6	329.9	330.6	328.9	325.9	322.9	319.2	316.4	314.7
65°	317.7	321.0	322.4	322.7	323.3	321.7	318.5	315.6	312.1	309.2	307.7
65.5°	310.4	313.7	315.1	315.3	315.9	314.5	311.4	308.4	305.0	302.0	300.6
66°	303.4	306.5	307.8	307.9	308.8	307.1	303.9	300.9	297.4	294.9	293.6
66.5°	295.9	299.2	300.6	300.7	301.7	299.7	296.9	293.7	290.3	287.4	286.0
67°	288.6	291.9	293.3	293.5	294.4	292.8	289.6	286.4	282.9	280.0	278.5

TEST NUMBER: P869705
 CATALOG NUMBER: SMX18RLSFS010-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	281.3	284.4	285.8	286.0	287.2	285.2	282.4	279.1	275.7	272.6	271.2
68°	273.7	276.9	278.3	278.4	279.7	277.7	274.9	271.6	268.3	265.5	263.8
68.5°	266.4	269.8	271.0	271.4	272.8	270.4	267.6	264.1	261.1	258.3	256.6
69°	259.1	262.4	263.4	264.1	265.4	263.1	259.8	256.9	253.5	250.6	249.2
69.5°	251.3	254.8	256.1	256.2	257.7	255.7	252.6	249.6	246.2	243.1	241.5
70°	243.9	247.4	248.6	248.8	250.3	248.2	245.1	241.9	238.5	235.9	234.1
70.5°	236.6	239.7	241.0	241.5	243.1	240.9	237.7	234.5	231.3	228.3	226.6
71°	229.0	232.5	233.6	234.0	235.7	233.7	230.5	227.0	223.8	220.9	219.3
71.5°	221.5	225.0	226.1	226.5	228.1	226.0	222.9	219.4	216.3	213.4	211.9
72°	214.2	217.4	218.6	219.0	220.7	218.7	215.4	212.1	208.7	205.6	204.1
72.5°	206.6	209.7	211.0	211.3	213.3	211.2	208.1	204.3	201.1	198.3	196.8
73°	199.1	202.1	203.4	203.8	205.6	203.4	200.2	196.8	193.8	190.8	189.2
73.5°	191.7	194.7	196.1	196.2	198.3	196.1	192.8	189.2	186.4	183.2	181.8
74°	184.2	187.3	188.5	188.9	190.8	188.7	185.4	181.8	178.8	175.8	174.4
74.5°	176.7	179.9	181.2	181.3	183.2	181.3	178.1	174.3	171.4	168.4	166.8
75°	169.0	172.2	173.5	173.7	175.8	173.8	170.6	166.7	163.9	160.8	159.3
75.5°	161.9	164.8	166.2	166.1	168.5	166.2	163.0	159.7	156.5	153.7	152.1
76°	154.4	157.5	158.9	158.8	160.9	158.9	155.7	152.2	149.2	146.3	144.7
76.5°	147.0	150.0	151.4	151.3	153.6	151.4	148.1	145.0	141.8	138.6	137.2
77°	139.7	142.7	144.2	144.1	146.2	144.1	140.9	137.7	134.4	131.5	129.9
77.5°	132.3	135.4	136.8	136.8	139.0	136.9	133.7	130.3	127.4	124.3	122.9
78°	125.2	128.3	129.4	129.7	131.6	129.7	126.4	123.2	119.8	117.4	115.7
78.5°	117.9	120.9	122.4	122.5	124.5	122.3	119.1	115.7	112.8	109.9	108.6
79°	110.9	113.9	115.3	115.4	117.3	115.2	112.2	108.7	105.7	103.0	101.8
79.5°	103.7	106.6	108.1	108.3	110.1	108.1	105.1	101.6	98.7	96.1	94.7
80°	96.8	99.6	101.0	101.2	103.0	101.4	97.9	94.7	92.0	89.6	88.0
80.5°	90.1	92.8	94.2	94.5	96.2	94.4	91.4	88.2	85.2	82.7	81.4
81°	83.4	86.1	87.4	87.8	89.8	87.9	84.7	81.4	78.7	76.2	75.0
81.5°	76.8	79.3	80.7	80.9	82.7	81.1	78.1	74.8	72.0	69.7	68.7
82°	70.0	72.8	74.0	74.0	76.0	74.4	71.9	68.5	65.5	63.3	62.2
82.5°	63.7	66.3	67.6	67.6	69.7	68.1	65.4	62.2	59.4	57.1	56.1
83°	57.7	60.2	61.3	61.4	63.5	61.8	59.1	56.1	53.4	51.2	50.2
83.5°	51.7	54.1	55.3	55.4	57.3	55.6	53.1	50.0	47.4	45.4	44.4
84°	45.9	48.3	49.3	49.5	51.1	49.7	47.2	44.3	41.6	40.0	38.8
84.5°	40.4	42.7	43.6	43.8	45.4	44.1	41.5	38.8	36.3	34.4	33.6
85°	35.0	37.2	38.1	38.1	40.1	38.6	36.1	33.4	31.1	29.3	28.5
85.5°	30.0	32.1	32.9	32.9	34.4	33.1	30.7	28.3	26.2	24.6	23.7
86°	25.5	27.3	28.0	28.1	29.4	28.0	25.8	23.6	21.9	20.2	19.5
86.5°	21.3	23.0	23.7	23.7	24.4	23.4	21.4	19.2	17.6	16.4	15.9
87°	17.2	19.0	19.5	19.5	20.4	19.1	17.5	15.6	14.1	12.8	12.4
87.5°	13.7	15.2	15.7	15.7	16.3	15.6	14.1	12.2	10.7	9.8	9.2
88°	10.3	11.6	12.2	12.1	13.0	12.0	10.6	9.0	7.7	6.8	6.6
88.5°	6.9	8.2	8.7	8.7	9.7	9.0	7.6	6.2	5.1	4.5	4.0
89°	4.7	5.7	6.1	5.9	6.9	6.1	5.0	3.9	3.0	2.5	2.3
89.5°	3.1	3.8	4.0	3.9	4.4	3.8	2.9	2.0	1.4	1.1	0.9

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



TEST NUMBER: P869705
CATALOG NUMBER: SMX18RLSFS010-2000LM-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: P869705
 CATALOG NUMBER: SMX18RLSFS010-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	841.6	841.6	841.6	841.6	841.6	841.6
0.5°	841.4	841.4	842.2	841.2	841.2	840.9
1°	840.7	840.8	841.7	840.6	841.0	840.9
1.5°	840.7	841.2	841.5	840.5	840.9	840.9
2°	840.3	841.2	841.0	840.2	840.9	840.7
2.5°	840.1	840.5	840.8	840.1	840.7	840.1
3°	839.5	839.8	840.8	839.3	840.6	839.6
3.5°	839.2	839.2	840.1	839.2	839.9	839.2
4°	839.2	838.3	839.3	839.1	839.1	839.0
4.5°	838.2	838.0	838.6	838.0	838.1	838.5
5°	837.7	837.7	838.2	837.1	837.2	838.3
5.5°	836.1	836.4	837.1	836.0	836.7	837.1
6°	835.2	835.5	836.1	835.8	836.4	836.2
6.5°	834.5	834.5	835.4	835.1	835.4	835.5
7°	833.9	833.5	834.4	834.0	834.8	834.5
7.5°	832.1	832.6	832.9	833.0	833.8	833.5
8°	831.3	831.1	831.9	831.7	832.4	832.4
8.5°	830.1	830.0	831.0	830.3	831.3	831.3
9°	828.5	828.5	829.9	829.4	829.9	830.2
9.5°	827.6	827.3	827.8	828.0	828.5	828.8
10°	826.3	826.2	826.4	826.1	827.3	827.8
10.5°	824.7	824.9	824.8	824.3	826.0	826.9
11°	822.9	823.1	823.4	823.3	824.8	825.4
11.5°	821.6	821.6	822.1	821.8	823.7	823.6
12°	819.8	819.7	821.0	820.0	821.9	822.3
12.5°	818.0	818.1	818.6	818.3	820.3	820.5
13°	816.2	816.5	817.3	817.1	818.6	819.0
13.5°	814.7	814.9	815.4	815.1	817.1	817.1
14°	812.5	812.8	813.7	813.5	815.5	816.1
14.5°	810.8	810.9	811.8	811.7	813.9	814.0
15°	808.9	808.9	809.6	809.4	811.8	811.6
15.5°	807.1	806.4	807.5	807.6	809.3	809.5
16°	805.1	804.1	805.6	805.3	807.1	807.1
16.5°	802.6	801.7	803.1	803.6	804.7	805.4
17°	800.4	798.9	800.4	801.8	802.5	803.0
17.5°	797.6	796.3	798.1	799.3	800.2	800.3
18°	795.2	793.9	795.2	796.8	797.6	798.2
18.5°	792.0	791.3	792.0	794.3	794.9	795.5
19°	789.2	788.7	789.3	792.2	792.2	792.7
19.5°	786.5	785.5	786.7	789.2	789.6	790.3
20°	783.7	782.9	784.5	786.4	787.2	787.7
20.5°	780.7	780.2	781.5	784.0	784.1	785.0
21°	777.9	777.2	778.7	781.4	781.2	782.2
21.5°	774.9	773.9	775.7	778.1	777.9	778.8
22°	772.0	770.7	772.1	774.8	774.9	775.8

TEST NUMBER: P869705
 CATALOG NUMBER: SMX18RLSFS010-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	768.8	767.7	769.4	771.8	772.3	773.0
23°	765.9	764.8	766.5	768.6	769.7	770.3
23.5°	762.3	761.7	762.8	765.3	766.1	766.9
24°	759.1	758.4	759.4	761.6	762.4	763.8
24.5°	755.4	755.1	756.0	758.2	759.5	760.7
25°	752.3	751.9	753.4	754.9	756.5	757.4
25.5°	748.9	748.1	749.9	751.4	753.0	753.3
26°	745.2	744.6	746.5	747.8	749.6	750.2
26.5°	741.3	740.4	742.9	744.1	746.0	746.1
27°	737.9	736.9	739.2	740.6	742.2	742.8
27.5°	734.1	732.9	735.4	736.9	738.6	739.2
28°	730.5	729.4	732.0	733.2	735.2	735.6
28.5°	726.5	725.5	727.8	729.0	731.6	731.5
29°	722.9	721.5	723.8	725.3	727.6	727.6
29.5°	718.6	717.3	719.6	721.3	723.5	724.1
30°	714.5	713.6	715.8	717.4	719.6	720.3
30.5°	710.8	709.4	711.5	712.9	715.7	716.4
31°	706.5	705.3	707.5	709.0	712.0	712.1
31.5°	702.1	701.0	703.2	704.9	707.5	708.5
32°	697.8	696.5	699.4	701.0	703.5	704.1
32.5°	693.7	692.2	695.2	696.6	699.2	699.8
33°	689.4	688.2	691.0	692.4	695.4	695.7
33.5°	685.0	683.5	686.2	687.8	691.2	691.4
34°	680.8	678.8	681.8	683.5	686.8	686.8
34.5°	675.7	674.5	677.2	679.1	682.3	682.3
35°	671.0	670.1	672.8	674.2	677.6	677.6
35.5°	666.6	665.3	667.6	669.5	672.8	672.7
36°	661.9	660.8	663.3	665.2	668.5	668.6
36.5°	657.6	655.8	658.6	660.8	664.1	663.9
37°	652.9	651.0	653.7	655.8	659.2	659.3
37.5°	648.0	646.4	648.5	651.2	654.4	654.6
38°	642.5	641.4	643.6	646.0	649.3	649.1
38.5°	638.1	636.2	638.6	641.0	644.3	644.3
39°	633.1	631.4	633.6	636.2	639.4	639.6
39.5°	627.7	626.4	628.3	630.9	634.0	634.7
40°	622.6	621.0	623.7	626.0	628.9	629.2
40.5°	617.3	615.9	618.1	620.9	624.0	624.2
41°	611.8	610.8	612.9	615.3	618.1	619.5
41.5°	606.9	605.2	607.5	610.3	613.1	614.4
42°	601.5	599.9	602.4	605.0	607.5	608.8
42.5°	595.9	594.8	596.7	599.4	602.2	603.6
43°	591.0	589.5	591.5	594.0	596.9	598.2
43.5°	585.5	584.1	585.9	588.9	591.9	592.7
44°	579.5	578.3	580.4	583.5	586.6	587.6
44.5°	574.1	572.7	574.9	577.7	581.0	582.4

TEST NUMBER: P869705
 CATALOG NUMBER: SMX18RLSFS010-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	568.6	566.9	569.3	572.4	575.2	576.5
45.5°	563.2	561.2	563.9	566.8	569.2	570.5
46°	557.0	555.3	558.2	560.8	563.5	565.4
46.5°	551.3	549.8	552.3	555.2	558.0	559.6
47°	545.6	543.7	546.1	549.1	552.3	554.0
47.5°	539.4	537.9	540.5	543.6	546.4	547.8
48°	533.5	531.8	534.3	537.5	540.4	542.2
48.5°	527.6	525.9	528.4	531.7	534.9	536.5
49°	521.5	520.4	522.5	525.6	529.1	530.3
49.5°	515.5	514.1	516.4	519.8	522.8	524.3
50°	509.4	507.8	510.1	513.5	516.9	518.4
50.5°	503.2	501.8	504.0	507.6	510.7	512.3
51°	497.0	495.7	497.8	501.5	504.7	505.9
51.5°	491.0	489.4	491.4	495.1	498.3	499.9
52°	484.5	482.9	485.3	488.6	492.0	493.7
52.5°	478.0	476.8	479.2	482.4	485.5	487.1
53°	472.1	470.3	472.8	476.0	479.5	480.4
53.5°	465.5	463.8	466.4	469.8	472.9	474.5
54°	458.9	457.3	459.8	463.1	466.4	468.3
54.5°	452.4	450.8	453.3	456.7	459.9	462.1
55°	446.3	444.5	447.0	450.3	453.3	455.1
55.5°	439.6	438.0	440.6	443.7	447.3	448.8
56°	432.8	431.5	433.8	437.5	440.7	442.5
56.5°	426.1	424.7	427.2	430.7	433.9	435.8
57°	419.8	417.9	420.4	424.0	427.0	428.8
57.5°	412.9	411.4	413.7	417.0	420.3	422.3
58°	406.0	404.4	407.0	410.3	413.6	415.7
58.5°	399.2	397.5	400.3	403.5	406.9	409.0
59°	392.5	390.7	393.4	396.5	399.9	402.0
59.5°	385.5	383.6	386.3	389.7	392.9	395.2
60°	378.6	376.7	379.5	382.8	386.0	388.3
60.5°	371.8	370.0	372.1	376.0	379.0	381.4
61°	364.7	363.0	365.5	368.9	372.1	374.7
61.5°	357.6	355.9	358.6	362.0	365.3	367.5
62°	350.6	348.9	351.5	354.8	358.2	360.4
62.5°	343.6	341.9	344.3	347.7	351.0	353.3
63°	336.3	334.6	337.1	340.2	343.9	346.3
63.5°	329.3	327.5	329.9	333.1	336.7	339.1
64°	321.9	320.0	322.6	326.2	329.6	332.1
64.5°	314.7	313.0	315.4	318.7	322.3	324.9
65°	307.6	306.0	308.2	311.2	315.2	317.7
65.5°	300.2	298.5	301.1	304.1	307.7	310.4
66°	293.0	291.4	293.6	296.9	300.5	303.4
66.5°	285.7	283.6	286.4	289.4	293.1	295.9
67°	278.1	276.4	278.8	282.0	285.8	288.6

TEST NUMBER: P869705
 CATALOG NUMBER: SMX18RLSFS010-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	271.1	269.2	271.5	274.8	278.5	281.3
68°	263.7	261.4	264.1	267.3	271.3	273.7
68.5°	256.1	254.2	256.5	259.8	263.6	266.4
69°	248.8	246.7	249.0	252.3	256.1	259.1
69.5°	241.2	239.1	241.7	244.8	248.6	251.3
70°	233.9	231.7	234.5	237.5	241.0	243.9
70.5°	226.6	224.3	226.8	229.9	233.8	236.6
71°	219.1	216.8	219.5	222.7	226.3	229.0
71.5°	211.5	209.2	211.7	214.8	218.7	221.5
72°	204.1	202.0	204.1	207.3	211.2	214.2
72.5°	196.4	194.4	196.8	199.9	203.7	206.6
73°	188.9	186.8	189.1	192.4	196.1	199.1
73.5°	181.7	179.4	181.6	184.9	188.7	191.7
74°	174.3	171.8	174.1	177.4	181.0	184.2
74.5°	166.7	164.5	166.6	169.8	173.4	176.7
75°	159.3	157.2	159.3	162.5	165.9	169.0
75.5°	152.2	149.9	151.8	155.2	158.7	161.9
76°	144.7	142.3	144.5	147.7	151.2	154.4
76.5°	137.3	135.1	137.1	140.4	144.1	147.0
77°	129.8	127.8	130.0	133.2	136.7	139.7
77.5°	122.7	120.6	122.8	126.1	129.6	132.3
78°	115.5	113.5	115.7	118.8	122.4	125.2
78.5°	108.5	106.5	108.6	111.6	115.2	117.9
79°	101.5	99.3	101.5	104.6	108.2	110.9
79.5°	94.6	92.4	94.5	97.6	101.1	103.7
80°	87.9	85.7	87.7	90.8	94.1	96.8
80.5°	81.3	79.1	81.1	84.0	87.1	90.1
81°	74.9	72.5	74.4	77.4	80.6	83.4
81.5°	68.3	66.1	67.9	70.9	74.1	76.8
82°	61.9	59.9	61.6	64.6	67.5	70.0
82.5°	55.9	53.8	55.7	58.2	61.3	63.7
83°	50.1	48.0	49.8	52.4	55.3	57.7
83.5°	44.3	42.3	43.8	46.5	49.5	51.7
84°	38.7	36.9	38.5	40.9	43.7	45.9
84.5°	33.5	31.9	33.3	35.7	38.2	40.4
85°	28.3	27.1	28.5	30.7	33.0	35.0
85.5°	23.6	22.8	24.0	25.8	28.2	30.0
86°	19.4	18.5	19.8	21.6	23.8	25.5
86.5°	15.8	14.8	15.8	17.6	19.6	21.3
87°	12.5	11.2	12.3	13.9	15.7	17.2
87.5°	9.2	7.8	9.0	10.5	12.2	13.7
88°	6.4	5.5	6.1	7.3	8.7	10.3
88.5°	4.1	3.5	4.1	5.0	6.1	6.9
89°	2.3	2.1	2.5	3.3	4.0	4.7
89.5°	1.0	1.3	1.7	2.1	2.6	3.1

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869705
CATALOG NUMBER: SMX18RLSFS010-2000LM-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)