

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: P869720

Luminaire Tested: **SMX18RLSFSD2W-2000LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-08
 Report Number: P869720
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFSD2W-2000LM-5000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

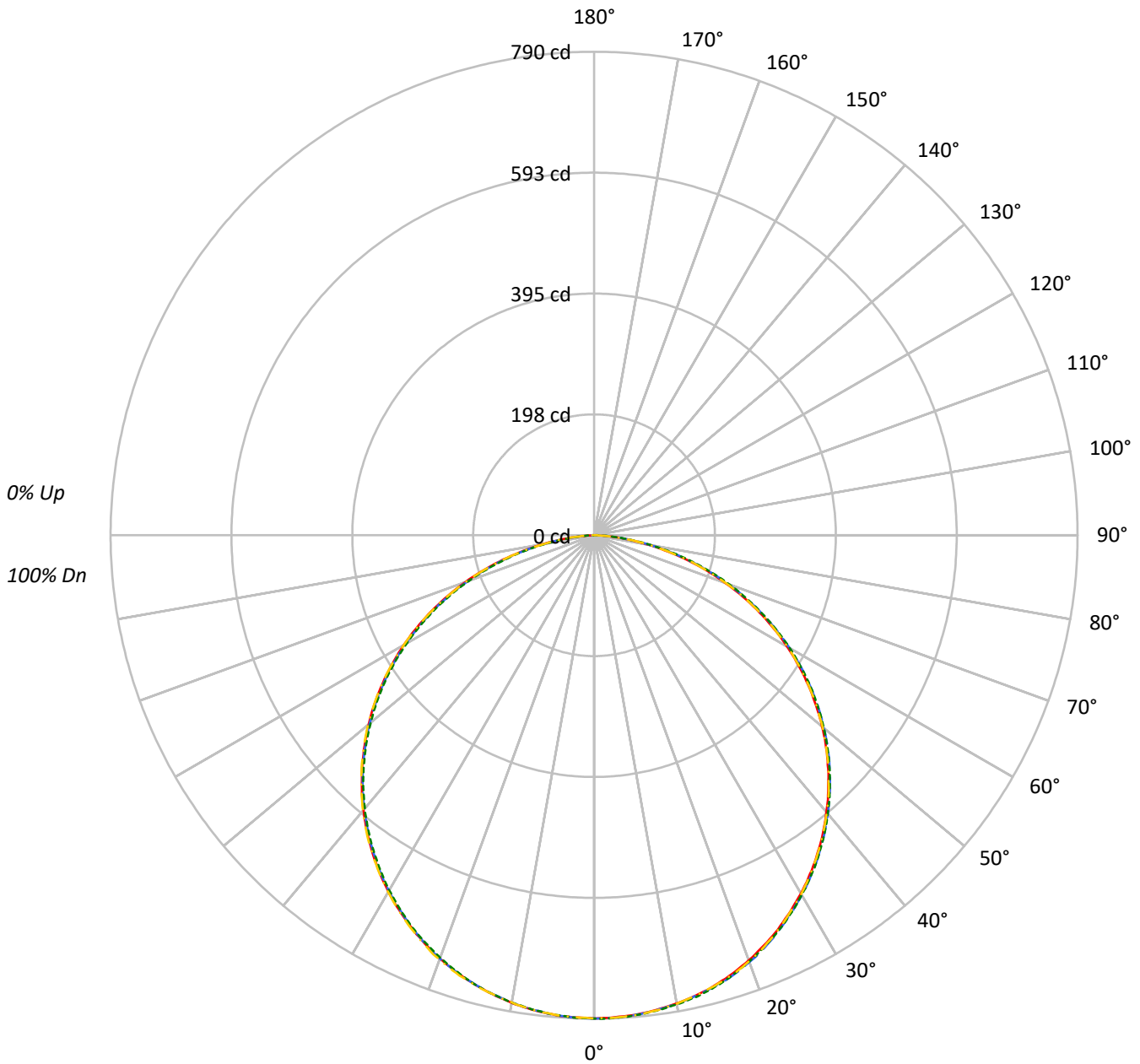
Lumens per Lamp: N/A
 Luminaire Lumens: 2305.1 lumens
 Efficiency: N/A
 Efficacy: 96.4 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 23.9
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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

TEST NUMBER: P869720
CATALOG NUMBER: SMX18RLSFSD2W-2000LM-5000K

Luminous Intensity Polar Plot



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

TEST NUMBER: P869720
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-5000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4810	4810	4810	4810
5°	4810	4812	4805	4806
10°	4805	4816	4800	4795
15°	4802	4816	4786	4786
20°	4791	4804	4772	4762
25°	4776	4790	4752	4742
30°	4754	4773	4728	4710
35°	4728	4752	4699	4675
40°	4695	4724	4662	4634
45°	4660	4690	4615	4583
50°	4609	4643	4558	4515
55°	4535	4584	4480	4429
60°	4438	4496	4376	4305
65°	4296	4371	4222	4138
70°	4077	4182	3986	3872
75°	3733	3881	3620	3471
80°	3185	3392	3027	2820
85°	2299	2628	2041	1775

TEST NUMBER: P869720
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	3.2
10°-20°	214.8	9.3
20°-30°	327.0	14.2
30°-40°	397.1	17.2
40°-50°	415.6	18.0
50°-60°	379.6	16.5
60°-70°	292.0	12.7
70°-80°	165.2	7.2
80°-90°	39.0	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°	616.5	26.7
0°-40°	1013.6	44.0
0°-60°	1808.9	78.5
0°-90°	2305.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2305.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	790	790	790	790	790	
5°	787	787	786	786	787	75
15°	762	764	759	759	762	215
25°	711	713	707	706	711	327
35°	636	639	632	629	636	398
45°	541	544	536	532	541	417
55°	427	432	422	417	427	382
65°	298	303	293	287	298	295
75°	159	165	154	148	159	168
85°	33	38	29	25	33	41
90°	0	0	0	0	0	

TEST NUMBER: P869720
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7	789.7
0.5°	789.1	789.6	789.6	789.6	790.1	790.6	789.6	789.9	788.9	789.6	789.7
1°	789.1	789.7	789.5	789.9	790.3	790.4	789.1	789.5	789.1	789.4	789.5
1.5°	789.1	790.1	789.4	789.4	790.0	790.0	789.5	789.1	788.7	789.4	789.3
2°	788.8	789.6	789.2	789.1	789.6	790.0	789.3	789.0	788.6	788.9	788.6
2.5°	788.3	789.5	789.1	789.0	789.6	789.6	788.9	788.3	788.5	788.8	788.6
3°	787.8	789.1	789.1	788.5	789.1	788.7	788.6	788.0	787.7	789.0	788.0
3.5°	787.5	788.5	788.7	788.5	788.6	788.2	788.5	787.8	787.8	788.4	787.8
4°	787.2	788.1	788.1	787.9	788.6	788.1	787.8	787.5	787.5	787.4	787.3
4.5°	786.8	787.2	787.3	787.7	787.6	787.9	787.5	787.0	786.8	786.8	786.8
5°	786.6	786.5	786.6	787.1	787.0	787.2	786.9	785.9	785.8	786.2	786.3
5.5°	785.5	786.3	786.3	786.8	786.6	786.9	786.4	785.5	785.2	785.3	785.4
6°	784.6	785.6	785.0	785.8	786.0	786.1	785.4	785.0	784.2	784.4	783.8
6.5°	784.0	784.7	784.4	784.9	785.0	785.4	784.4	784.4	783.9	783.2	783.0
7°	783.0	783.6	783.7	783.9	784.0	784.5	783.4	783.0	782.7	782.7	782.4
7.5°	782.1	782.6	782.8	783.3	783.8	783.4	783.0	781.8	781.8	781.7	781.4
8°	781.1	781.7	781.6	782.1	782.7	782.6	782.1	781.2	780.7	780.4	780.3
8.5°	780.1	781.0	780.9	781.1	781.6	781.8	780.5	780.1	779.7	779.4	779.3
9°	779.0	780.0	779.6	780.2	780.4	780.7	779.4	779.0	778.3	778.2	778.0
9.5°	777.7	778.9	778.8	779.2	779.4	779.7	778.6	777.8	777.3	776.8	776.7
10°	776.8	777.6	777.4	777.8	778.6	778.4	777.2	776.2	776.0	775.2	775.0
10.5°	775.9	776.3	776.2	777.0	777.5	777.2	775.6	775.1	774.1	773.9	773.6
11°	774.5	774.9	775.0	775.7	776.1	775.8	774.4	773.7	772.7	772.9	772.0
11.5°	772.8	773.6	773.6	774.5	775.0	774.6	773.1	771.8	771.3	771.7	770.6
12°	771.6	772.3	772.2	773.2	773.5	773.2	771.8	770.4	769.9	769.5	769.1
12.5°	769.9	770.7	770.4	771.7	772.5	771.7	770.4	768.7	767.9	767.8	767.7
13°	768.5	769.4	769.0	770.5	771.0	770.4	768.7	767.0	766.4	766.1	765.9
13.5°	766.7	767.6	767.8	768.7	769.2	768.7	767.1	765.7	764.5	764.1	764.4
14°	765.8	766.1	766.2	767.5	767.5	767.1	765.1	764.0	762.7	762.5	762.7
14.5°	763.8	764.1	764.7	765.9	765.9	765.5	763.8	761.9	761.1	760.2	760.4
15°	761.5	762.2	763.0	763.4	763.7	763.4	762.1	760.1	758.9	758.6	758.6
15.5°	759.6	760.6	761.1	761.9	762.3	761.7	760.1	757.8	756.9	756.7	756.8
16°	757.3	759.1	759.6	760.0	759.8	760.0	758.4	755.8	755.0	754.8	754.9
16.5°	755.8	757.1	758.1	757.9	757.8	757.8	756.0	754.2	752.9	752.6	752.5
17°	753.5	754.8	756.0	755.8	755.9	755.7	754.1	752.1	750.5	750.2	750.0
17.5°	751.0	752.6	753.9	753.9	753.5	753.5	752.4	749.7	748.8	747.8	748.0
18°	749.0	750.4	751.7	751.1	751.2	751.1	750.7	747.4	746.3	745.5	745.9
18.5°	746.4	747.8	749.7	748.8	748.4	748.7	748.0	744.8	743.6	743.2	743.3
19°	743.8	745.7	747.4	746.4	746.1	746.0	746.0	742.7	741.4	740.5	741.3
19.5°	741.6	743.2	744.7	743.8	744.0	743.8	743.1	740.3	738.7	737.8	738.9
20°	739.1	741.0	742.3	740.8	741.1	741.3	740.7	737.5	736.2	735.6	736.1
20.5°	736.6	738.0	740.0	738.5	738.5	738.1	737.9	734.9	734.0	732.9	733.5
21°	733.9	735.1	737.5	735.9	736.1	735.2	735.9	732.3	731.4	730.2	730.9
21.5°	730.8	732.4	734.7	733.4	733.0	732.9	732.8	729.8	728.1	727.2	728.2
22°	728.0	729.6	732.0	730.5	730.5	730.0	730.2	727.2	725.0	724.3	725.4

TEST NUMBER: P869720
 CATALOG NUMBER: SMX18RLSFS2W-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	725.3	726.9	729.1	727.6	727.6	727.0	727.2	724.4	722.3	721.1	722.0
23°	722.8	724.4	725.8	725.0	724.7	724.4	723.9	721.1	719.3	718.5	718.8
23.5°	719.6	721.7	723.1	722.2	721.9	721.7	721.1	718.3	716.2	716.0	715.5
24°	716.7	718.7	719.9	719.1	718.9	718.2	718.1	715.6	713.5	712.2	712.3
24.5°	713.8	715.7	716.4	716.0	716.2	714.7	714.7	712.5	710.3	709.1	709.5
25°	710.7	712.4	713.3	713.1	712.7	712.2	711.5	709.6	707.0	705.9	705.6
25.5°	706.9	709.0	710.0	710.1	709.9	709.4	708.2	706.6	703.8	702.8	702.3
26°	703.9	706.1	706.6	706.8	706.6	705.7	704.8	703.3	700.4	699.6	699.5
26.5°	700.1	702.8	703.3	703.3	703.3	702.4	701.3	700.0	697.2	696.3	695.7
27°	697.0	699.6	699.8	700.1	699.5	699.4	697.8	696.5	693.6	693.1	692.2
27.5°	693.6	696.4	696.6	697.3	696.5	695.6	694.1	693.3	690.2	689.9	688.9
28°	690.2	692.7	693.4	693.8	693.3	692.5	690.6	689.6	687.1	686.4	685.4
28.5°	686.4	689.6	689.4	690.1	689.7	689.1	687.5	686.4	683.6	682.7	682.0
29°	682.7	686.3	685.8	686.4	686.3	685.5	683.8	682.9	679.8	678.9	678.2
29.5°	679.4	682.7	682.7	683.1	682.3	681.7	680.3	679.4	676.1	675.2	674.7
30°	675.9	678.9	679.1	679.6	678.6	678.0	676.9	675.6	672.2	671.6	670.5
30.5°	672.2	675.5	675.3	675.9	674.9	674.4	673.3	672.0	668.4	668.0	667.0
31°	668.2	671.7	671.6	671.9	671.5	670.7	669.1	668.1	664.6	663.7	663.2
31.5°	664.8	667.5	667.6	668.3	667.5	666.6	665.4	664.0	660.8	659.7	659.2
32°	660.6	663.4	663.9	664.8	663.4	662.5	661.4	660.1	656.8	656.3	655.0
32.5°	656.6	659.6	659.7	660.9	659.5	659.1	657.3	656.4	652.7	652.3	651.2
33°	652.8	655.6	655.5	656.8	655.8	655.0	653.4	652.1	648.6	648.4	647.0
33.5°	648.8	651.7	651.7	652.6	652.2	651.1	649.1	647.9	644.4	644.2	642.8
34°	644.5	647.8	647.8	648.5	647.8	647.0	644.7	644.3	640.6	640.0	638.3
34.5°	640.2	643.5	643.4	644.3	643.3	642.9	640.9	640.1	636.5	635.7	634.2
35°	635.8	639.4	639.0	640.3	639.0	638.7	636.4	635.4	631.9	631.4	629.9
35.5°	631.2	635.0	634.9	636.2	634.8	634.4	632.2	631.2	627.6	627.3	625.6
36°	627.3	630.9	630.5	631.8	630.4	630.1	627.8	626.8	623.2	622.7	621.2
36.5°	623.0	626.4	626.2	627.3	625.9	625.6	623.5	622.5	618.9	618.7	617.0
37°	618.7	622.1	622.0	622.6	621.8	621.5	619.1	618.1	614.3	613.9	612.0
37.5°	614.2	617.4	617.4	618.4	617.6	617.0	614.7	613.7	609.8	608.9	607.4
38°	609.0	612.8	612.8	613.9	612.8	612.3	610.0	609.3	605.2	604.3	602.9
38.5°	604.6	608.1	608.3	609.5	608.2	607.6	605.5	604.8	600.4	599.2	598.3
39°	600.1	603.8	603.7	604.8	603.7	603.3	600.6	600.0	595.9	594.9	593.7
39.5°	595.5	598.6	599.0	600.1	599.0	598.3	596.0	595.3	591.0	590.3	589.1
40°	590.4	593.8	594.4	595.0	594.1	593.7	591.5	590.3	586.3	585.3	584.1
40.5°	585.7	589.0	589.5	590.4	589.4	589.2	587.1	585.1	581.5	580.1	579.5
41°	581.3	584.2	584.6	585.6	584.5	584.2	581.9	579.9	576.7	575.5	574.3
41.5°	576.5	579.2	579.9	580.6	579.8	579.1	577.3	575.2	572.0	570.4	569.6
42°	571.3	574.1	575.2	575.7	574.9	574.3	572.2	570.1	566.8	565.3	564.4
42.5°	566.3	569.3	570.4	570.6	569.8	569.4	567.4	564.9	561.7	560.5	559.3
43°	561.3	564.0	565.2	565.4	564.8	564.3	562.1	560.0	556.5	555.5	554.4
43.5°	556.1	559.2	559.9	560.6	559.8	559.1	556.7	554.8	551.3	550.5	549.3
44°	551.3	554.2	555.1	555.3	554.7	554.4	551.7	549.9	546.2	545.5	544.0
44.5°	546.5	549.1	550.1	550.4	549.7	549.0	546.6	544.4	541.1	540.2	538.9

TEST NUMBER: P869720
 CATALOG NUMBER: SMX18RLSFS2W-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	541.0	543.4	545.1	545.3	544.5	543.8	541.5	539.1	535.8	534.8	533.5
45.5°	535.4	538.5	539.7	540.0	539.0	538.7	536.3	534.0	530.7	529.0	528.3
46°	530.6	533.2	534.3	534.4	533.7	533.3	531.0	528.8	525.2	523.8	522.9
46.5°	525.1	527.9	529.3	528.9	528.5	528.0	525.9	523.2	519.4	518.4	517.7
47°	519.9	522.5	523.7	523.9	523.1	522.7	520.4	518.1	514.3	513.1	512.3
47.5°	514.0	517.0	518.5	518.6	517.9	517.2	514.7	512.9	508.8	507.6	506.4
48°	508.7	511.7	512.8	512.9	512.3	512.0	509.5	507.2	503.5	502.0	500.8
48.5°	503.5	506.3	507.4	507.2	506.6	506.3	504.0	501.2	497.6	496.4	495.5
49°	497.6	500.5	501.6	501.9	501.1	500.7	498.1	495.7	492.4	490.8	489.6
49.5°	492.0	494.7	496.0	496.4	495.5	495.3	492.7	490.1	486.9	485.2	484.3
50°	486.4	489.4	490.3	490.5	490.0	489.6	487.1	484.6	481.0	479.7	478.5
50.5°	480.7	483.8	484.8	485.0	484.5	483.8	481.3	478.8	475.2	473.6	472.7
51°	474.7	478.0	479.0	479.1	478.8	478.0	475.4	473.2	469.2	467.7	466.7
51.5°	469.1	472.3	473.3	473.5	472.9	472.3	469.4	467.4	463.7	462.2	460.9
52°	463.2	466.4	467.5	467.7	467.2	466.4	463.8	461.7	458.1	456.1	455.2
52.5°	457.1	460.4	461.4	461.6	461.1	460.8	458.1	455.9	452.0	450.3	449.1
53°	450.8	454.4	455.6	455.6	455.0	454.8	452.3	449.6	445.9	444.2	443.2
53.5°	445.3	448.5	449.7	449.9	449.4	448.9	446.3	443.8	439.9	438.3	437.4
54°	439.4	442.4	443.6	443.7	443.5	442.7	440.2	437.6	434.3	432.1	431.2
54.5°	433.6	436.3	437.8	437.6	437.7	436.9	434.3	431.7	428.2	425.8	424.9
55°	427.0	430.4	431.7	431.5	431.7	430.7	428.3	425.6	421.9	420.0	419.1
55.5°	421.1	424.2	425.6	425.3	425.5	424.7	422.2	420.0	415.8	414.3	412.7
56°	415.2	418.1	419.5	419.3	419.5	418.5	415.9	413.4	409.6	407.8	406.4
56.5°	408.9	411.8	413.2	413.1	413.4	412.2	409.6	407.5	403.3	401.4	400.1
57°	402.4	405.5	407.1	406.9	407.3	406.1	403.6	401.2	397.4	395.1	393.7
57.5°	396.2	399.4	400.8	400.6	401.0	399.7	397.0	394.8	390.9	388.7	387.6
58°	390.0	393.2	394.6	394.4	394.5	393.5	390.9	388.4	384.6	382.5	381.2
58.5°	383.8	387.1	388.4	388.1	388.2	387.2	384.6	382.2	378.4	376.2	374.9
59°	377.2	380.5	381.9	381.5	382.1	380.6	378.2	375.5	372.0	370.0	368.6
59.5°	370.8	374.0	375.4	375.2	375.7	374.3	371.7	369.1	365.5	363.0	361.9
60°	364.3	367.5	368.9	368.6	369.1	367.8	365.0	362.5	359.2	356.7	355.4
60.5°	357.9	360.9	362.3	362.2	362.8	361.5	358.8	356.2	352.6	350.3	349.1
61°	351.6	354.5	355.9	355.7	356.4	354.8	352.2	349.8	346.1	343.8	342.6
61.5°	344.9	347.8	349.4	349.3	350.0	348.2	345.7	343.3	339.6	337.1	336.0
62°	338.2	341.2	343.0	342.9	343.5	341.9	339.1	336.6	333.2	330.4	329.0
62.5°	331.5	334.8	336.1	336.1	336.8	335.2	332.4	329.9	326.2	323.9	322.4
63°	324.9	328.1	329.3	329.5	330.1	328.6	325.7	323.2	319.6	317.2	315.8
63.5°	318.2	321.2	322.6	322.8	323.6	322.1	319.2	316.7	312.9	310.3	309.0
64°	311.7	314.7	315.9	315.9	316.8	315.1	312.5	309.8	306.3	303.7	302.3
64.5°	304.9	308.1	309.3	309.6	310.3	308.6	305.8	303.0	299.5	296.9	295.3
65°	298.1	301.2	302.5	302.8	303.3	301.8	298.9	296.2	292.9	290.1	288.7
65.5°	291.3	294.3	295.7	295.8	296.4	295.1	292.2	289.4	286.2	283.4	282.1
66°	284.7	287.6	288.8	288.9	289.7	288.2	285.2	282.4	279.1	276.7	275.5
66.5°	277.6	280.7	282.1	282.1	283.1	281.2	278.6	275.6	272.4	269.7	268.4
67°	270.8	273.9	275.2	275.4	276.3	274.7	271.8	268.7	265.5	262.8	261.3

TEST NUMBER: P869720
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	263.9	266.9	268.1	268.4	269.5	267.6	265.0	261.9	258.7	255.8	254.4
68°	256.8	259.8	261.1	261.2	262.4	260.5	258.0	254.9	251.7	249.1	247.5
68.5°	250.0	253.1	254.3	254.7	255.9	253.7	251.1	247.9	245.0	242.3	240.8
69°	243.2	246.2	247.2	247.9	249.0	246.9	243.8	241.0	237.9	235.2	233.8
69.5°	235.8	239.1	240.4	240.4	241.8	239.9	237.1	234.3	231.0	228.2	226.6
70°	228.9	232.1	233.3	233.4	234.8	232.9	230.0	227.0	223.8	221.3	219.7
70.5°	222.1	224.9	226.1	226.6	228.1	226.0	223.0	220.1	217.0	214.2	212.7
71°	214.9	218.2	219.2	219.6	221.1	219.3	216.3	213.0	210.0	207.3	205.8
71.5°	207.8	211.1	212.2	212.6	214.1	212.1	209.1	205.9	202.9	200.2	198.8
72°	201.0	204.0	205.1	205.5	207.1	205.2	202.1	199.0	195.8	193.0	191.6
72.5°	193.9	196.8	198.0	198.3	200.1	198.2	195.3	191.7	188.7	186.0	184.6
73°	186.8	189.7	190.9	191.2	192.9	190.9	187.8	184.6	181.8	179.0	177.5
73.5°	179.9	182.7	184.0	184.1	186.1	184.0	180.9	177.5	174.9	171.9	170.6
74°	172.8	175.7	176.9	177.2	179.0	177.1	174.0	170.6	167.8	164.9	163.6
74.5°	165.8	168.8	170.0	170.1	171.9	170.1	167.1	163.5	160.8	158.0	156.5
75°	158.6	161.6	162.8	163.0	164.9	163.0	160.1	156.4	153.8	150.9	149.5
75.5°	151.9	154.6	155.9	155.9	158.1	155.9	153.0	149.9	146.9	144.2	142.8
76°	144.9	147.8	149.1	149.0	151.0	149.1	146.1	142.8	140.0	137.3	135.8
76.5°	138.0	140.8	142.1	141.9	144.2	142.1	139.0	136.1	133.0	130.1	128.7
77°	131.1	133.9	135.3	135.2	137.2	135.3	132.2	129.2	126.1	123.4	121.9
77.5°	124.1	127.0	128.3	128.3	130.4	128.4	125.5	122.2	119.5	116.6	115.3
78°	117.5	120.3	121.4	121.7	123.5	121.7	118.6	115.6	112.4	110.1	108.6
78.5°	110.6	113.4	114.8	115.0	116.8	114.7	111.8	108.6	105.8	103.1	101.9
79°	104.1	106.9	108.2	108.3	110.0	108.1	105.3	102.0	99.2	96.6	95.5
79.5°	97.3	100.1	101.5	101.6	103.3	101.5	98.6	95.4	92.6	90.2	88.9
80°	90.8	93.5	94.8	95.0	96.7	95.1	91.9	88.9	86.3	84.1	82.6
80.5°	84.6	87.1	88.4	88.7	90.3	88.6	85.8	82.8	80.0	77.6	76.4
81°	78.2	80.8	82.0	82.3	84.2	82.5	79.5	76.4	73.9	71.5	70.4
81.5°	72.0	74.4	75.7	75.9	77.6	76.1	73.3	70.2	67.6	65.4	64.5
82°	65.7	68.3	69.4	69.4	71.3	69.8	67.4	64.3	61.5	59.4	58.4
82.5°	59.8	62.2	63.4	63.5	65.4	63.9	61.3	58.4	55.7	53.6	52.7
83°	54.2	56.5	57.5	57.6	59.6	58.0	55.5	52.7	50.1	48.1	47.1
83.5°	48.5	50.8	51.8	52.0	53.7	52.2	49.8	46.9	44.5	42.6	41.6
84°	43.1	45.3	46.2	46.4	48.0	46.7	44.3	41.5	39.1	37.5	36.4
84.5°	37.9	40.1	40.9	41.1	42.6	41.4	38.9	36.4	34.0	32.3	31.5
85°	32.9	34.9	35.8	35.8	37.6	36.2	33.9	31.3	29.2	27.4	26.7
85.5°	28.2	30.1	30.9	30.9	32.3	31.1	28.8	26.5	24.6	23.1	22.3
86°	23.9	25.6	26.3	26.4	27.6	26.3	24.2	22.2	20.5	19.0	18.3
86.5°	20.0	21.6	22.3	22.3	22.9	21.9	20.1	18.1	16.5	15.4	14.9
87°	16.2	17.8	18.3	18.3	19.1	18.0	16.4	14.7	13.2	12.0	11.6
87.5°	12.9	14.3	14.8	14.8	15.3	14.7	13.2	11.5	10.1	9.1	8.7
88°	9.6	10.9	11.5	11.4	12.2	11.3	10.0	8.4	7.3	6.3	6.2
88.5°	6.5	7.7	8.2	8.2	9.1	8.4	7.2	5.9	4.8	4.2	3.8
89°	4.5	5.4	5.7	5.5	6.4	5.8	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: P869720
CATALOG NUMBER: SMX18RLSFSD2W-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: P869720
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	789.7	789.7	789.7	789.7	789.7	789.7
0.5°	789.6	789.5	790.3	789.3	789.3	789.1
1°	788.9	789.0	789.8	788.7	789.1	789.1
1.5°	788.8	789.3	789.6	788.6	789.1	789.1
2°	788.5	789.3	789.1	788.4	789.1	788.8
2.5°	788.3	788.6	789.0	788.3	788.8	788.3
3°	787.7	788.0	789.0	787.6	788.7	787.8
3.5°	787.4	787.4	788.3	787.4	788.1	787.5
4°	787.4	786.6	787.6	787.3	787.3	787.2
4.5°	786.5	786.3	786.9	786.3	786.4	786.8
5°	786.0	786.0	786.5	785.4	785.6	786.6
5.5°	784.5	784.8	785.5	784.4	785.1	785.5
6°	783.7	784.0	784.5	784.3	784.8	784.6
6.5°	783.0	783.0	783.9	783.6	783.9	784.0
7°	782.5	782.1	783.0	782.6	783.3	783.0
7.5°	780.8	781.2	781.6	781.6	782.4	782.1
8°	780.0	779.8	780.6	780.4	781.1	781.1
8.5°	778.9	778.8	779.7	779.1	780.0	780.1
9°	777.4	777.4	778.8	778.3	778.7	779.0
9.5°	776.5	776.3	776.8	776.9	777.4	777.7
10°	775.4	775.3	775.5	775.1	776.3	776.8
10.5°	773.8	774.1	774.0	773.5	775.0	775.9
11°	772.2	772.3	772.7	772.5	774.0	774.5
11.5°	770.9	770.9	771.4	771.1	772.9	772.8
12°	769.3	769.2	770.4	769.4	771.3	771.6
12.5°	767.5	767.6	768.1	767.9	769.7	769.9
13°	765.9	766.1	766.9	766.7	768.1	768.5
13.5°	764.4	764.7	765.1	764.8	766.7	766.7
14°	762.4	762.7	763.5	763.3	765.2	765.8
14.5°	760.8	760.9	761.7	761.6	763.7	763.8
15°	759.0	759.0	759.7	759.5	761.7	761.5
15.5°	757.3	756.7	757.7	757.8	759.4	759.6
16°	755.4	754.5	755.9	755.6	757.3	757.3
16.5°	753.1	752.2	753.5	754.0	755.1	755.8
17°	751.1	749.7	751.1	752.4	753.0	753.5
17.5°	748.4	747.2	748.9	750.0	750.8	751.0
18°	746.1	745.0	746.2	747.7	748.4	749.0
18.5°	743.2	742.5	743.2	745.3	745.9	746.4
19°	740.5	740.0	740.6	743.3	743.3	743.8
19.5°	738.0	737.1	738.2	740.5	740.9	741.6
20°	735.4	734.6	736.1	737.9	738.7	739.1
20.5°	732.6	732.1	733.3	735.6	735.7	736.6
21°	730.0	729.3	730.7	733.2	733.0	733.9
21.5°	727.2	726.2	727.8	730.1	730.0	730.8
22°	724.4	723.2	724.5	727.0	727.1	728.0

TEST NUMBER: P869720
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	721.4	720.4	722.0	724.2	724.7	725.3
23°	718.7	717.6	719.2	721.2	722.2	722.8
23.5°	715.3	714.7	715.8	718.1	718.8	719.6
24°	712.3	711.7	712.6	714.6	715.4	716.7
24.5°	708.9	708.5	709.4	711.4	712.7	713.8
25°	705.9	705.6	707.0	708.4	709.9	710.7
25.5°	702.7	701.9	703.7	705.1	706.6	706.9
26°	699.2	698.6	700.5	701.7	703.4	703.9
26.5°	695.6	694.8	697.1	698.2	700.0	700.1
27°	692.4	691.5	693.6	694.9	696.4	697.0
27.5°	688.8	687.7	690.1	691.5	693.0	693.6
28°	685.5	684.4	686.9	688.0	689.9	690.2
28.5°	681.7	680.8	682.9	684.1	686.4	686.4
29°	678.3	677.0	679.2	680.6	682.7	682.7
29.5°	674.2	673.1	675.2	676.8	678.9	679.4
30°	670.5	669.6	671.7	673.2	675.2	675.9
30.5°	667.0	665.7	667.6	669.0	671.6	672.2
31°	663.0	661.8	663.9	665.3	668.1	668.2
31.5°	658.8	657.8	659.8	661.4	663.9	664.8
32°	654.8	653.6	656.3	657.8	660.1	660.6
32.5°	650.9	649.5	652.3	653.6	656.1	656.6
33°	646.9	645.8	648.4	649.7	652.5	652.8
33.5°	642.8	641.4	643.9	645.4	648.6	648.8
34°	638.8	637.0	639.8	641.4	644.4	644.5
34.5°	634.0	632.9	635.4	637.2	640.2	640.2
35°	629.7	628.7	631.3	632.6	635.8	635.8
35.5°	625.4	624.3	626.4	628.2	631.3	631.2
36°	621.1	620.0	622.4	624.2	627.3	627.3
36.5°	617.0	615.4	617.9	620.0	623.1	623.0
37°	612.7	610.9	613.4	615.4	618.5	618.7
37.5°	608.1	606.6	608.5	611.0	614.1	614.2
38°	602.9	601.9	603.9	606.2	609.3	609.0
38.5°	598.7	597.0	599.2	601.5	604.6	604.6
39°	594.0	592.5	594.5	597.0	600.0	600.1
39.5°	589.0	587.8	589.5	592.0	594.9	595.5
40°	584.2	582.8	585.2	587.4	590.1	590.4
40.5°	579.2	577.9	580.0	582.6	585.6	585.7
41°	574.1	573.1	575.1	577.3	579.9	581.3
41.5°	569.5	567.9	570.1	572.7	575.2	576.5
42°	564.4	562.9	565.3	567.7	570.1	571.3
42.5°	559.2	558.1	559.9	562.4	565.1	566.3
43°	554.6	553.2	555.1	557.4	560.1	561.3
43.5°	549.4	548.0	549.8	552.6	555.4	556.1
44°	543.8	542.6	544.6	547.5	550.4	551.3
44.5°	538.7	537.4	539.5	542.0	545.2	546.5

TEST NUMBER: P869720
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	533.5	532.0	534.2	537.1	539.7	541.0
45.5°	528.5	526.6	529.1	531.9	534.1	535.4
46°	522.7	521.1	523.7	526.2	528.8	530.6
46.5°	517.3	515.9	518.2	520.9	523.6	525.1
47°	511.9	510.1	512.4	515.2	518.2	519.9
47.5°	506.1	504.8	507.2	510.1	512.7	514.0
48°	500.6	499.0	501.3	504.4	507.1	508.7
48.5°	495.0	493.5	495.8	498.9	501.9	503.5
49°	489.4	488.3	490.3	493.2	496.5	497.6
49.5°	483.7	482.4	484.6	487.7	490.6	492.0
50°	478.0	476.5	478.6	481.9	485.0	486.4
50.5°	472.1	470.8	473.0	476.3	479.2	480.7
51°	466.4	465.1	467.1	470.6	473.5	474.7
51.5°	460.7	459.2	461.1	464.6	467.6	469.1
52°	454.6	453.1	455.4	458.5	461.7	463.2
52.5°	448.5	447.4	449.6	452.7	455.6	457.1
53°	443.0	441.3	443.6	446.7	450.0	450.8
53.5°	436.8	435.2	437.6	440.8	443.8	445.3
54°	430.6	429.1	431.4	434.5	437.6	439.4
54.5°	424.5	423.0	425.3	428.5	431.6	433.6
55°	418.8	417.1	419.5	422.5	425.3	427.0
55.5°	412.5	411.0	413.4	416.3	419.7	421.1
56°	406.1	404.9	407.0	410.5	413.5	415.2
56.5°	399.8	398.5	400.8	404.1	407.2	408.9
57°	393.9	392.1	394.5	397.9	400.7	402.4
57.5°	387.4	386.0	388.2	391.3	394.4	396.2
58°	381.0	379.5	381.9	385.0	388.1	390.0
58.5°	374.6	373.0	375.6	378.7	381.8	383.8
59°	368.3	366.6	369.1	372.1	375.3	377.2
59.5°	361.7	360.0	362.5	365.6	368.7	370.8
60°	355.3	353.4	356.1	359.2	362.2	364.3
60.5°	348.8	347.2	349.2	352.8	355.7	357.9
61°	342.2	340.6	343.0	346.1	349.2	351.6
61.5°	335.6	334.0	336.5	339.7	342.8	344.9
62°	329.0	327.4	329.8	332.9	336.1	338.2
62.5°	322.4	320.8	323.1	326.2	329.4	331.5
63°	315.6	314.0	316.3	319.2	322.7	324.9
63.5°	309.0	307.3	309.6	312.6	315.9	318.2
64°	302.1	300.3	302.7	306.0	309.3	311.7
64.5°	295.2	293.7	296.0	299.0	302.4	304.9
65°	288.7	287.1	289.1	292.0	295.7	298.1
65.5°	281.7	280.1	282.6	285.4	288.7	291.3
66°	274.9	273.4	275.5	278.6	282.0	284.7
66.5°	268.0	266.1	268.7	271.6	275.1	277.6
67°	261.0	259.4	261.6	264.6	268.2	270.8

TEST NUMBER: P869720
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	254.4	252.6	254.8	257.8	261.4	263.9
68°	247.4	245.3	247.9	250.8	254.5	256.8
68.5°	240.4	238.5	240.7	243.7	247.4	250.0
69°	233.4	231.5	233.7	236.7	240.4	243.2
69.5°	226.3	224.4	226.8	229.7	233.3	235.8
70°	219.5	217.4	220.0	222.9	226.2	228.9
70.5°	212.7	210.4	212.8	215.7	219.4	222.1
71°	205.6	203.4	206.0	208.9	212.3	214.9
71.5°	198.5	196.3	198.6	201.5	205.2	207.8
72°	191.5	189.5	191.5	194.5	198.2	201.0
72.5°	184.3	182.4	184.6	187.6	191.1	193.9
73°	177.3	175.3	177.5	180.5	184.0	186.8
73.5°	170.5	168.3	170.4	173.5	177.1	179.9
74°	163.5	161.2	163.4	166.5	169.8	172.8
74.5°	156.4	154.4	156.4	159.3	162.7	165.8
75°	149.5	147.5	149.5	152.5	155.7	158.6
75.5°	142.8	140.6	142.4	145.6	148.9	151.9
76°	135.8	133.5	135.6	138.6	141.9	144.9
76.5°	128.8	126.8	128.7	131.7	135.2	138.0
77°	121.8	119.9	122.0	125.0	128.3	131.1
77.5°	115.1	113.2	115.2	118.4	121.6	124.1
78°	108.4	106.5	108.6	111.4	114.8	117.5
78.5°	101.8	99.9	101.9	104.7	108.1	110.6
79°	95.3	93.1	95.3	98.2	101.5	104.1
79.5°	88.8	86.7	88.7	91.6	94.9	97.3
80°	82.5	80.4	82.3	85.2	88.3	90.8
80.5°	76.3	74.2	76.1	78.8	81.8	84.6
81°	70.3	68.0	69.8	72.6	75.6	78.2
81.5°	64.1	62.0	63.7	66.5	69.6	72.0
82°	58.1	56.2	57.8	60.6	63.3	65.7
82.5°	52.4	50.5	52.3	54.6	57.5	59.8
83°	47.0	45.0	46.7	49.2	51.9	54.2
83.5°	41.5	39.7	41.1	43.6	46.4	48.5
84°	36.3	34.6	36.1	38.4	41.0	43.1
84.5°	31.4	29.9	31.2	33.5	35.9	37.9
85°	26.5	25.4	26.7	28.8	31.0	32.9
85.5°	22.2	21.3	22.5	24.2	26.5	28.2
86°	18.2	17.4	18.5	20.3	22.3	23.9
86.5°	14.8	13.8	14.8	16.5	18.4	20.0
87°	11.7	10.6	11.5	13.0	14.8	16.2
87.5°	8.7	7.3	8.4	9.9	11.5	12.9
88°	6.0	5.2	5.7	6.8	8.2	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	4.5
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: P869720
CATALOG NUMBER: SMX18RLSFSD2W-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)