

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: P869716

Luminaire Tested: **SMX18RLSFSD2W-2000LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869716
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFSD2W-2000LM-2700K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

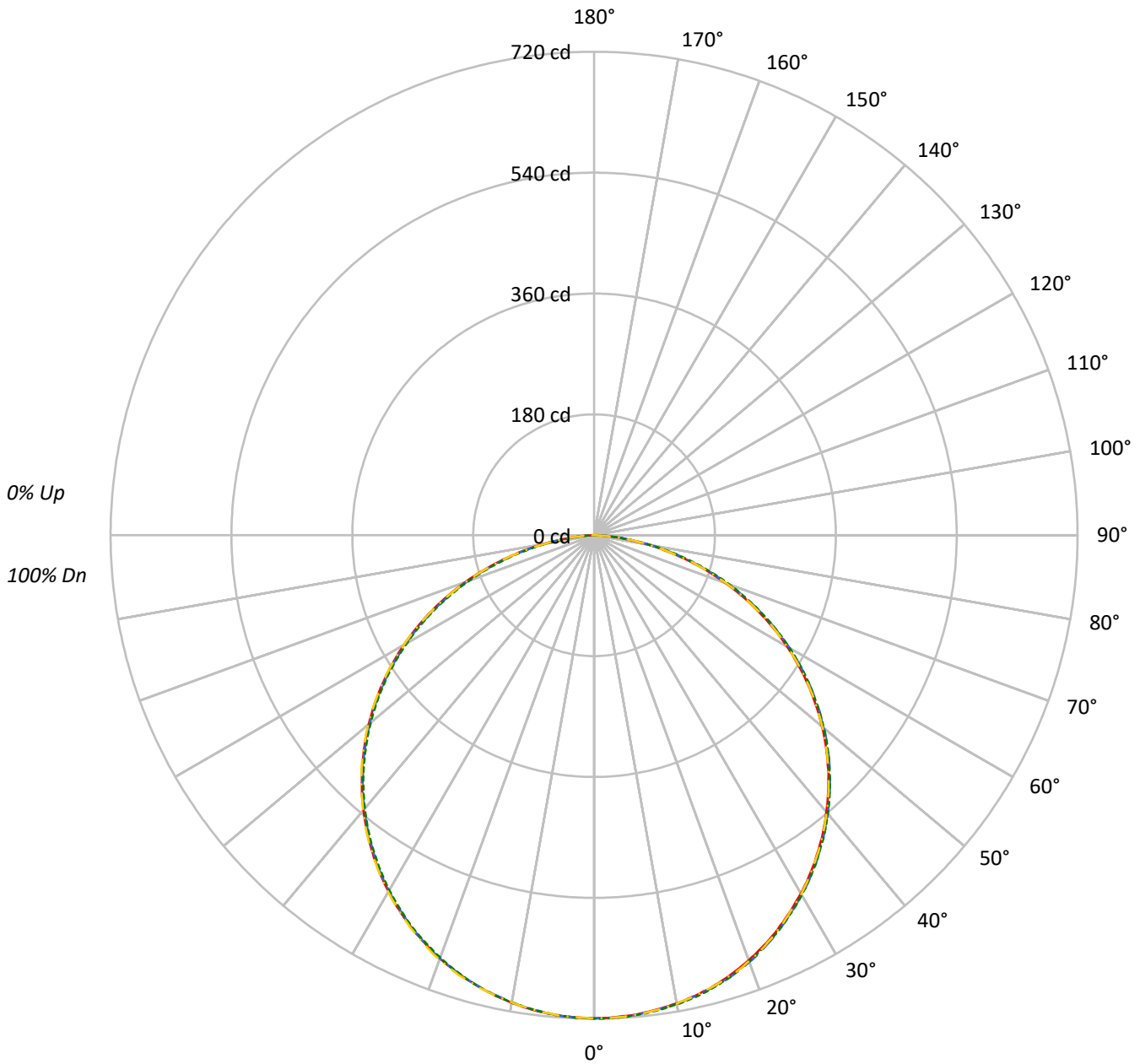
Lumens per Lamp: N/A
 Luminaire Lumens: 2100.4 lumens
 Efficiency: N/A
 Efficacy: 87.5 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 24
 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°	4383	4383	4383	4383
5°	4382	4385	4379	4379
10°	4378	4388	4373	4369
15°	4376	4388	4361	4361
20°	4366	4377	4348	4338
25°	4352	4364	4330	4321
30°	4332	4349	4308	4292
35°	4308	4329	4282	4260
40°	4278	4305	4248	4222
45°	4246	4273	4205	4175
50°	4200	4231	4153	4115
55°	4132	4177	4083	4035
60°	4045	4097	3987	3924
65°	3916	3984	3845	3770
70°	3715	3811	3631	3528
75°	3401	3537	3297	3163
80°	2904	3090	2757	2571
85°	2097	2390	1859	1614

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	3.2
10°-20°	195.7	9.3
20°-30°	298.0	14.2
30°-40°	361.8	17.2
40°-50°	378.7	18.0
50°-60°	345.9	16.5
60°-70°	266.1	12.7
70°-80°	150.5	7.2
80°-90°	35.5	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°	561.8	26.7
0°-40°	923.6	44.0
0°-60°	1648.3	78.5
0°-90°	2100.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	720	720	720	720	720	
5°	717	717	716	716	717	68
15°	694	696	692	692	694	196
25°	648	649	644	643	648	298
35°	579	582	576	573	579	363
45°	493	496	488	485	493	380
55°	389	393	384	380	389	348
65°	272	276	267	262	272	268
75°	144	150	140	134	144	153
85°	30	34	27	23	30	37
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°	719.6	719.6	719.6	719.6	719.6	719.6	719.6	719.6	719.6	719.6	719.6
0.5°	719.0	719.5	719.4	719.5	720.0	720.4	719.5	719.7	718.8	719.4	719.6
1°	719.0	719.6	719.4	719.7	720.1	720.2	719.0	719.4	719.0	719.3	719.4
1.5°	719.0	719.9	719.3	719.3	719.8	719.8	719.4	719.1	718.7	719.3	719.2
2°	718.8	719.5	719.1	719.0	719.5	719.8	719.2	718.9	718.5	718.8	718.6
2.5°	718.3	719.4	719.0	718.9	719.5	719.4	718.8	718.3	718.5	718.8	718.6
3°	717.9	719.0	719.0	718.5	719.0	718.7	718.5	718.0	717.7	718.9	718.0
3.5°	717.6	718.5	718.7	718.5	718.5	718.2	718.5	717.9	717.9	718.4	717.9
4°	717.3	718.1	718.1	717.9	718.5	718.1	717.9	717.6	717.6	717.5	717.4
4.5°	717.0	717.3	717.4	717.8	717.6	717.9	717.6	717.1	716.9	717.0	716.9
5°	716.7	716.7	716.7	717.2	717.1	717.3	717.0	716.1	716.1	716.4	716.4
5.5°	715.8	716.5	716.5	716.9	716.7	717.0	716.6	715.8	715.5	715.5	715.6
6°	714.9	715.8	715.3	716.1	716.2	716.3	715.6	715.3	714.6	714.7	714.2
6.5°	714.3	715.0	714.8	715.2	715.3	715.7	714.7	714.7	714.3	713.7	713.4
7°	713.5	714.0	714.1	714.3	714.4	714.9	713.8	713.5	713.2	713.2	712.9
7.5°	712.6	713.1	713.3	713.7	714.2	713.8	713.4	712.4	712.4	712.3	712.0
8°	711.7	712.3	712.2	712.6	713.2	713.1	712.7	711.9	711.3	711.1	711.0
8.5°	710.8	711.6	711.5	711.7	712.2	712.4	711.2	710.8	710.5	710.2	710.1
9°	709.8	710.7	710.3	710.9	711.1	711.4	710.2	709.8	709.2	709.1	708.9
9.5°	708.6	709.7	709.6	710.0	710.2	710.5	709.4	708.7	708.2	707.8	707.7
10°	707.8	708.5	708.4	708.7	709.4	709.3	708.2	707.3	707.0	706.4	706.2
10.5°	707.0	707.3	707.3	708.0	708.5	708.2	706.7	706.3	705.4	705.2	704.9
11°	705.7	706.1	706.1	706.8	707.2	706.9	705.6	705.0	704.1	704.3	703.4
11.5°	704.2	704.9	704.9	705.7	706.2	705.8	704.4	703.3	702.8	703.1	702.2
12°	703.1	703.7	703.6	704.6	704.8	704.5	703.3	702.0	701.6	701.2	700.8
12.5°	701.6	702.2	701.9	703.1	703.9	703.1	702.0	700.4	699.7	699.6	699.5
13°	700.2	701.1	700.7	702.1	702.5	701.9	700.4	698.9	698.3	698.0	697.9
13.5°	698.6	699.5	699.6	700.4	700.9	700.4	698.9	697.7	696.6	696.2	696.5
14°	697.8	698.0	698.2	699.4	699.4	698.9	697.1	696.2	695.0	694.8	695.0
14.5°	696.0	696.2	696.8	697.9	697.9	697.5	695.9	694.2	693.5	692.7	692.8
15°	693.9	694.5	695.3	695.6	695.9	695.6	694.4	692.6	691.5	691.3	691.3
15.5°	692.1	693.1	693.5	694.2	694.6	694.1	692.6	690.5	689.7	689.5	689.6
16°	690.1	691.7	692.2	692.5	692.3	692.5	691.0	688.6	688.0	687.7	687.8
16.5°	688.6	689.8	690.7	690.6	690.5	690.5	688.9	687.2	686.0	685.8	685.7
17°	686.5	687.7	688.9	688.7	688.8	688.6	687.1	685.3	683.8	683.6	683.4
17.5°	684.3	685.8	686.9	686.9	686.6	686.5	685.6	683.1	682.3	681.4	681.6
18°	682.5	683.8	685.0	684.4	684.5	684.4	684.0	681.1	680.0	679.3	679.6
18.5°	680.2	681.4	683.1	682.3	682.0	682.2	681.6	678.7	677.6	677.2	677.3
19°	677.8	679.5	681.0	680.1	679.9	679.8	679.8	676.7	675.6	674.7	675.4
19.5°	675.7	677.2	678.6	677.8	677.9	677.8	677.1	674.6	673.1	672.3	673.2
20°	673.5	675.2	676.4	675.0	675.3	675.4	674.9	672.0	670.8	670.2	670.8
20.5°	671.1	672.4	674.3	672.9	672.9	672.6	672.3	669.6	668.8	667.8	668.4
21°	668.7	669.8	672.0	670.5	670.7	669.9	670.5	667.2	666.4	665.4	666.0
21.5°	665.9	667.3	669.5	668.3	667.9	667.8	667.8	665.0	663.5	662.7	663.6
22°	663.3	664.8	667.0	665.6	665.6	665.1	665.4	662.7	660.6	660.0	661.0

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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°	660.9	662.4	664.3	663.0	663.0	662.4	662.7	660.0	658.1	657.1	657.9
23°	658.6	660.0	661.3	660.6	660.3	660.1	659.6	657.1	655.4	654.7	655.0
23.5°	655.7	657.6	658.9	658.1	657.8	657.6	657.1	654.5	652.6	652.4	651.9
24°	653.0	654.8	656.0	655.2	655.1	654.4	654.3	652.1	650.1	649.0	649.1
24.5°	650.4	652.1	652.8	652.4	652.6	651.2	651.2	649.2	647.2	646.1	646.5
25°	647.6	649.1	650.0	649.7	649.4	648.9	648.3	646.6	644.2	643.2	643.0
25.5°	644.1	646.1	647.0	647.0	646.8	646.4	645.3	643.9	641.3	640.3	639.9
26°	641.4	643.4	643.9	644.0	643.8	643.1	642.2	640.8	638.2	637.5	637.3
26.5°	637.9	640.3	640.9	640.8	640.9	640.0	639.0	637.8	635.3	634.4	633.9
27°	635.1	637.5	637.6	637.9	637.4	637.3	635.8	634.6	632.0	631.6	630.7
27.5°	632.0	634.6	634.7	635.4	634.6	633.8	632.5	631.7	628.9	628.6	627.7
28°	628.9	631.2	631.8	632.2	631.7	631.0	629.2	628.3	626.1	625.5	624.5
28.5°	625.4	628.3	628.2	628.8	628.4	627.9	626.5	625.4	622.9	622.1	621.4
29°	622.1	625.3	624.9	625.5	625.3	624.6	623.1	622.2	619.5	618.6	618.0
29.5°	619.1	622.0	622.0	622.5	621.7	621.1	619.8	619.1	616.0	615.3	614.7
30°	615.9	618.6	618.8	619.2	618.3	617.8	616.8	615.6	612.5	612.0	610.9
30.5°	612.5	615.5	615.3	615.9	615.0	614.5	613.5	612.3	609.0	608.7	607.8
31°	608.9	612.0	612.0	612.3	611.9	611.1	609.7	608.8	605.6	604.7	604.3
31.5°	605.7	608.2	608.4	609.0	608.2	607.4	606.3	605.1	602.1	601.1	600.6
32°	602.0	604.4	604.9	605.7	604.5	603.7	602.6	601.5	598.4	598.0	596.8
32.5°	598.3	601.0	601.1	602.2	600.9	600.5	598.9	598.1	594.8	594.4	593.3
33°	594.8	597.4	597.3	598.4	597.5	596.8	595.4	594.2	591.0	590.9	589.5
33.5°	591.2	593.8	593.9	594.6	594.2	593.3	591.5	590.4	587.2	587.0	585.7
34°	587.3	590.3	590.3	590.9	590.3	589.5	587.5	587.1	583.7	583.1	581.6
34.5°	583.3	586.3	586.3	587.1	586.2	585.8	583.9	583.3	580.0	579.2	577.9
35°	579.4	582.6	582.2	583.4	582.2	582.0	579.9	579.0	575.8	575.3	574.0
35.5°	575.2	578.6	578.5	579.7	578.5	578.1	576.1	575.2	571.9	571.6	570.1
36°	571.6	574.9	574.5	575.7	574.4	574.1	572.1	571.1	567.9	567.4	566.0
36.5°	567.6	570.8	570.6	571.6	570.3	570.1	568.1	567.2	563.9	563.7	562.2
37°	563.7	566.9	566.7	567.3	566.6	566.3	564.1	563.2	559.8	559.4	557.7
37.5°	559.7	562.5	562.5	563.5	562.8	562.2	560.1	559.2	555.6	554.8	553.5
38°	555.0	558.3	558.3	559.4	558.4	557.9	555.9	555.2	551.4	550.7	549.3
38.5°	550.9	554.1	554.3	555.4	554.2	553.6	551.7	551.1	547.1	546.0	545.2
39°	546.8	550.1	550.1	551.1	550.1	549.7	547.2	546.7	542.9	542.1	541.0
39.5°	542.6	545.4	545.8	546.8	545.8	545.2	543.1	542.4	538.5	537.9	536.8
40°	538.0	541.1	541.6	542.2	541.4	541.0	539.0	537.9	534.2	533.3	532.2
40.5°	533.7	536.7	537.2	538.0	537.1	536.9	535.0	533.2	529.9	528.6	528.0
41°	529.6	532.3	532.7	533.5	532.6	532.3	530.2	528.4	525.4	524.4	523.3
41.5°	525.3	527.8	528.4	529.0	528.3	527.7	526.0	524.2	521.2	519.7	519.0
42°	520.6	523.1	524.1	524.6	523.9	523.3	521.4	519.5	516.5	515.1	514.2
42.5°	516.1	518.8	519.7	520.0	519.2	518.8	517.0	514.7	511.8	510.7	509.6
43°	511.5	513.9	515.0	515.2	514.6	514.2	512.1	510.3	507.0	506.2	505.2
43.5°	506.7	509.5	510.2	510.8	510.0	509.4	507.3	505.5	502.4	501.6	500.5
44°	502.4	505.0	505.8	506.0	505.5	505.2	502.7	501.0	497.6	497.0	495.7
44.5°	497.9	500.4	501.3	501.5	500.9	500.3	498.0	496.1	493.1	492.2	491.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	492.9	495.2	496.7	496.9	496.1	495.5	493.4	491.3	488.2	487.3	486.1
45.5°	487.8	490.7	491.8	492.0	491.1	490.8	488.7	486.6	483.5	482.0	481.4
46°	483.5	485.9	486.8	487.0	486.3	485.9	483.8	481.8	478.6	477.3	476.5
46.5°	478.4	481.0	482.3	482.0	481.6	481.1	479.2	476.7	473.3	472.3	471.7
47°	473.7	476.1	477.2	477.4	476.6	476.2	474.1	472.1	468.7	467.5	466.8
47.5°	468.4	471.1	472.4	472.6	471.9	471.3	469.0	467.4	463.6	462.5	461.4
48°	463.6	466.3	467.2	467.4	466.8	466.6	464.2	462.1	458.8	457.4	456.3
48.5°	458.7	461.3	462.3	462.2	461.6	461.3	459.2	456.7	453.4	452.3	451.5
49°	453.4	456.0	457.1	457.3	456.6	456.3	453.9	451.7	448.7	447.2	446.1
49.5°	448.3	450.8	452.0	452.3	451.5	451.3	448.9	446.6	443.6	442.1	441.2
50°	443.2	445.9	446.7	447.0	446.5	446.1	443.8	441.5	438.3	437.1	436.0
50.5°	438.0	440.9	441.8	441.9	441.5	440.8	438.5	436.3	433.0	431.6	430.7
51°	432.5	435.5	436.4	436.5	436.3	435.5	433.2	431.2	427.6	426.1	425.2
51.5°	427.4	430.4	431.3	431.4	430.9	430.4	427.7	425.9	422.5	421.1	420.0
52°	422.1	424.9	426.0	426.1	425.7	424.9	422.6	420.7	417.4	415.6	414.8
52.5°	416.5	419.5	420.4	420.6	420.1	419.8	417.4	415.4	411.9	410.3	409.3
53°	410.8	414.1	415.1	415.1	414.6	414.4	412.1	409.7	406.3	404.7	403.8
53.5°	405.7	408.6	409.8	409.9	409.5	409.0	406.6	404.4	400.8	399.3	398.5
54°	400.4	403.1	404.2	404.3	404.1	403.4	401.1	398.7	395.7	393.7	392.9
54.5°	395.1	397.5	398.9	398.7	398.8	398.1	395.7	393.4	390.2	388.0	387.2
55°	389.1	392.2	393.3	393.2	393.3	392.4	390.2	387.8	384.5	382.7	381.9
55.5°	383.7	386.6	387.8	387.5	387.7	387.0	384.7	382.7	378.8	377.5	376.1
56°	378.3	380.9	382.2	382.1	382.3	381.3	379.0	376.7	373.2	371.6	370.3
56.5°	372.6	375.2	376.5	376.4	376.7	375.6	373.2	371.3	367.5	365.8	364.6
57°	366.7	369.5	370.9	370.8	371.1	370.0	367.7	365.5	362.1	360.1	358.7
57.5°	361.0	363.9	365.2	365.0	365.4	364.2	361.8	359.8	356.2	354.2	353.1
58°	355.4	358.3	359.5	359.4	359.5	358.6	356.2	353.9	350.4	348.5	347.4
58.5°	349.7	352.7	353.9	353.6	353.7	352.8	350.4	348.3	344.8	342.8	341.6
59°	343.7	346.7	348.0	347.7	348.2	346.8	344.6	342.2	339.0	337.1	335.9
59.5°	337.9	340.8	342.1	341.9	342.3	341.1	338.7	336.3	333.0	330.8	329.8
60°	332.0	334.8	336.1	335.9	336.3	335.1	332.6	330.3	327.3	325.0	323.9
60.5°	326.1	328.8	330.2	330.0	330.5	329.4	326.9	324.6	321.3	319.2	318.1
61°	320.4	323.0	324.3	324.1	324.8	323.3	320.9	318.7	315.4	313.3	312.2
61.5°	314.2	316.9	318.4	318.3	318.9	317.3	315.0	312.8	309.4	307.2	306.1
62°	308.2	310.9	312.5	312.4	313.0	311.5	309.0	306.7	303.6	301.1	299.8
62.5°	302.1	305.1	306.3	306.3	306.9	305.5	302.9	300.6	297.3	295.2	293.8
63°	296.1	299.0	300.0	300.2	300.8	299.4	296.8	294.5	291.3	289.0	287.7
63.5°	289.9	292.7	294.0	294.1	294.9	293.5	290.9	288.6	285.1	282.8	281.6
64°	284.0	286.8	287.9	287.9	288.6	287.1	284.7	282.3	279.1	276.7	275.5
64.5°	277.8	280.7	281.8	282.1	282.7	281.2	278.6	276.1	272.9	270.5	269.1
65°	271.7	274.4	275.6	275.9	276.4	275.0	272.3	269.9	266.8	264.4	263.1
65.5°	265.4	268.2	269.4	269.6	270.1	268.9	266.2	263.7	260.8	258.2	257.0
66°	259.4	262.0	263.2	263.2	264.0	262.6	259.9	257.3	254.3	252.1	251.0
66.5°	253.0	255.8	257.0	257.1	258.0	256.3	253.9	251.2	248.2	245.7	244.5
67°	246.7	249.6	250.8	250.9	251.8	250.3	247.6	244.8	241.9	239.4	238.1

TEST NUMBER: P869716
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	240.5	243.2	244.3	244.5	245.6	243.9	241.5	238.6	235.7	233.1	231.9
68°	234.0	236.7	237.9	238.0	239.1	237.4	235.1	232.2	229.4	227.0	225.5
68.5°	227.8	230.6	231.7	232.1	233.2	231.2	228.8	225.8	223.2	220.8	219.4
69°	221.6	224.3	225.2	225.8	226.9	224.9	222.2	219.6	216.8	214.3	213.1
69.5°	214.9	217.9	219.0	219.1	220.4	218.6	216.0	213.4	210.5	207.9	206.5
70°	208.6	211.5	212.5	212.7	214.0	212.2	209.5	206.8	203.9	201.7	200.2
70.5°	202.3	205.0	206.0	206.5	207.8	205.9	203.2	200.5	197.8	195.2	193.8
71°	195.8	198.8	199.7	200.1	201.5	199.8	197.1	194.1	191.4	188.9	187.5
71.5°	189.3	192.3	193.3	193.7	195.0	193.2	190.5	187.6	184.9	182.4	181.2
72°	183.1	185.9	186.9	187.2	188.7	187.0	184.2	181.3	178.5	175.8	174.5
72.5°	176.6	179.3	180.4	180.7	182.4	180.6	177.9	174.7	171.9	169.5	168.2
73°	170.2	172.8	173.9	174.2	175.7	173.9	171.2	168.2	165.7	163.1	161.8
73.5°	163.9	166.4	167.6	167.8	169.6	167.6	164.9	161.8	159.4	156.7	155.5
74°	157.5	160.1	161.2	161.5	163.1	161.3	158.5	155.5	152.9	150.3	149.1
74.5°	151.1	153.8	154.9	155.0	156.7	155.0	152.2	149.0	146.5	144.0	142.6
75°	144.5	147.2	148.3	148.5	150.3	148.6	145.9	142.6	140.1	137.5	136.2
75.5°	138.4	140.9	142.1	142.0	144.1	142.1	139.4	136.5	133.8	131.4	130.1
76°	132.0	134.7	135.9	135.8	137.6	135.9	133.1	130.2	127.6	125.1	123.7
76.5°	125.7	128.3	129.5	129.3	131.4	129.5	126.6	124.0	121.2	118.5	117.3
77°	119.4	122.0	123.3	123.2	125.0	123.2	120.5	117.8	114.9	112.4	111.1
77.5°	113.1	115.7	116.9	116.9	118.8	117.0	114.3	111.4	108.9	106.3	105.1
78°	107.0	109.7	110.6	110.9	112.5	110.9	108.1	105.3	102.4	100.3	98.9
78.5°	100.8	103.3	104.6	104.8	106.4	104.5	101.8	98.9	96.4	94.0	92.8
79°	94.9	97.4	98.6	98.7	100.3	98.5	95.9	93.0	90.4	88.0	87.0
79.5°	88.7	91.2	92.5	92.6	94.1	92.5	89.8	86.9	84.4	82.2	81.0
80°	82.8	85.2	86.4	86.5	88.1	86.7	83.7	81.0	78.6	76.6	75.3
80.5°	77.1	79.4	80.5	80.8	82.2	80.7	78.2	75.4	72.9	70.7	69.6
81°	71.3	73.6	74.7	75.0	76.8	75.2	72.4	69.6	67.3	65.1	64.1
81.5°	65.6	67.8	69.0	69.2	70.7	69.3	66.8	64.0	61.6	59.6	58.7
82°	59.9	62.3	63.2	63.2	65.0	63.6	61.4	58.6	56.0	54.2	53.2
82.5°	54.5	56.7	57.8	57.8	59.6	58.2	55.9	53.2	50.8	48.8	48.0
83°	49.3	51.4	52.4	52.5	54.3	52.9	50.5	48.0	45.7	43.8	43.0
83.5°	44.2	46.3	47.2	47.4	49.0	47.5	45.4	42.7	40.6	38.8	37.9
84°	39.3	41.3	42.1	42.3	43.7	42.5	40.3	37.9	35.6	34.2	33.2
84.5°	34.5	36.5	37.3	37.5	38.8	37.7	35.4	33.2	31.0	29.4	28.7
85°	30.0	31.8	32.6	32.6	34.2	33.0	30.9	28.5	26.6	25.0	24.3
85.5°	25.7	27.4	28.2	28.2	29.4	28.3	26.3	24.2	22.4	21.0	20.3
86°	21.8	23.4	24.0	24.0	25.2	24.0	22.1	20.2	18.7	17.3	16.7
86.5°	18.3	19.7	20.3	20.3	20.9	20.0	18.3	16.4	15.0	14.0	13.6
87°	14.7	16.2	16.7	16.7	17.4	16.4	14.9	13.4	12.0	11.0	10.6
87.5°	11.7	13.0	13.4	13.4	14.0	13.4	12.0	10.4	9.2	8.3	7.9
88°	8.8	9.9	10.4	10.4	11.1	10.3	9.1	7.7	6.6	5.8	5.6
88.5°	5.9	7.0	7.4	7.4	8.3	7.7	6.5	5.3	4.4	3.8	3.5
89°	4.1	4.9	5.2	5.0	5.9	5.3	4.3	3.3	2.6	2.1	2.0
89.5°	2.6	3.2	3.5	3.3	3.8	3.2	2.5	1.7	1.2	0.9	0.8

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



TEST NUMBER: P869716
CATALOG NUMBER: SMX18RLSFSD2W-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: P869716
 CATALOG NUMBER: SMX18RLSFS2W-2000LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	719.6	719.6	719.6	719.6	719.6	719.6
0.5°	719.4	719.4	720.1	719.2	719.2	719.0
1°	718.8	718.9	719.7	718.7	719.1	719.0
1.5°	718.8	719.2	719.5	718.6	719.0	719.0
2°	718.5	719.2	719.1	718.4	719.0	718.8
2.5°	718.3	718.6	718.9	718.3	718.8	718.3
3°	717.8	718.0	718.9	717.6	718.7	717.9
3.5°	717.5	717.5	718.3	717.5	718.1	717.6
4°	717.5	716.7	717.6	717.4	717.4	717.3
4.5°	716.7	716.5	717.0	716.5	716.6	717.0
5°	716.2	716.2	716.7	715.7	715.8	716.7
5.5°	714.9	715.1	715.8	714.8	715.4	715.8
6°	714.1	714.3	714.9	714.6	715.1	714.9
6.5°	713.5	713.5	714.3	714.0	714.3	714.3
7°	713.0	712.6	713.4	713.1	713.7	713.5
7.5°	711.5	711.9	712.2	712.2	712.9	712.6
8°	710.7	710.6	711.2	711.1	711.7	711.7
8.5°	709.7	709.7	710.5	709.9	710.7	710.8
9°	708.4	708.4	709.6	709.1	709.5	709.8
9.5°	707.6	707.3	707.8	707.9	708.4	708.6
10°	706.5	706.4	706.6	706.3	707.3	707.8
10.5°	705.1	705.3	705.2	704.8	706.2	707.0
11°	703.6	703.7	704.0	703.9	705.2	705.7
11.5°	702.5	702.5	702.9	702.6	704.3	704.2
12°	701.0	700.9	701.9	701.1	702.8	703.1
12.5°	699.4	699.5	699.9	699.7	701.3	701.6
13°	697.9	698.1	698.8	698.6	699.9	700.2
13.5°	696.5	696.8	697.1	696.9	698.6	698.6
14°	694.7	695.0	695.7	695.6	697.3	697.8
14.5°	693.2	693.3	694.1	694.0	695.9	696.0
15°	691.6	691.6	692.2	692.0	694.1	693.9
15.5°	690.1	689.5	690.4	690.5	691.9	692.1
16°	688.3	687.5	688.8	688.5	690.1	690.1
16.5°	686.2	685.4	686.6	687.1	688.0	688.6
17°	684.4	683.1	684.4	685.6	686.2	686.5
17.5°	682.0	680.8	682.4	683.4	684.1	684.3
18°	679.9	678.8	679.9	681.3	682.0	682.5
18.5°	677.2	676.6	677.2	679.1	679.6	680.2
19°	674.7	674.3	674.8	677.3	677.3	677.8
19.5°	672.4	671.6	672.6	674.7	675.1	675.7
20°	670.1	669.3	670.8	672.3	673.1	673.5
20.5°	667.5	667.1	668.2	670.3	670.4	671.1
21°	665.1	664.5	665.8	668.1	667.9	668.7
21.5°	662.6	661.7	663.2	665.3	665.1	665.9
22°	660.1	659.0	660.2	662.4	662.5	663.3

TEST NUMBER: P869716
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	657.3	656.4	657.8	659.9	660.3	660.9
23°	654.8	653.9	655.4	657.2	658.1	658.6
23.5°	651.8	651.2	652.2	654.3	655.0	655.7
24°	649.1	648.5	649.3	651.2	651.8	653.0
24.5°	645.9	645.6	646.4	648.2	649.4	650.4
25°	643.2	642.9	644.2	645.5	646.8	647.6
25.5°	640.3	639.6	641.2	642.5	643.8	644.1
26°	637.1	636.6	638.2	639.4	641.0	641.4
26.5°	633.8	633.1	635.2	636.2	637.8	637.9
27°	630.9	630.1	632.0	633.2	634.6	635.1
27.5°	627.7	626.6	628.8	630.1	631.5	632.0
28°	624.6	623.6	625.9	626.9	628.6	628.9
28.5°	621.1	620.3	622.2	623.3	625.5	625.4
29°	618.0	616.8	618.9	620.1	622.1	622.1
29.5°	614.4	613.3	615.3	616.7	618.6	619.1
30°	610.9	610.2	612.0	613.4	615.3	615.9
30.5°	607.8	606.6	608.4	609.6	612.0	612.5
31°	604.1	603.0	604.9	606.2	608.7	608.9
31.5°	600.3	599.3	601.2	602.6	604.9	605.7
32°	596.6	595.5	598.0	599.3	601.5	602.0
32.5°	593.1	591.8	594.4	595.6	597.8	598.3
33°	589.4	588.5	590.8	592.0	594.5	594.8
33.5°	585.7	584.4	586.7	588.1	591.0	591.2
34°	582.1	580.4	583.0	584.4	587.2	587.3
34.5°	577.7	576.7	579.0	580.6	583.3	583.3
35°	573.7	572.9	575.2	576.4	579.4	579.4
35.5°	569.9	568.8	570.8	572.5	575.2	575.2
36°	565.9	564.9	567.1	568.8	571.6	571.6
36.5°	562.2	560.7	563.1	564.9	567.8	567.6
37°	558.3	556.6	558.9	560.7	563.6	563.7
37.5°	554.1	552.7	554.5	556.8	559.5	559.7
38°	549.3	548.4	550.3	552.3	555.2	555.0
38.5°	545.6	544.0	546.0	548.0	550.9	550.9
39°	541.3	539.9	541.7	544.0	546.7	546.8
39.5°	536.7	535.6	537.2	539.4	542.1	542.6
40°	532.3	531.0	533.2	535.2	537.7	538.0
40.5°	527.8	526.6	528.5	530.8	533.5	533.7
41°	523.1	522.2	524.0	526.0	528.4	529.6
41.5°	518.9	517.5	519.4	521.8	524.2	525.3
42°	514.2	512.9	515.1	517.3	519.4	520.6
42.5°	509.5	508.5	510.2	512.4	514.9	516.1
43°	505.3	504.0	505.8	507.9	510.3	511.5
43.5°	500.6	499.4	501.0	503.5	506.1	506.7
44°	495.5	494.4	496.2	498.9	501.6	502.4
44.5°	490.9	489.7	491.6	493.9	496.7	497.9

TEST NUMBER: P869716
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	486.2	484.7	486.8	489.4	491.8	492.9
45.5°	481.6	479.8	482.1	484.7	486.7	487.8
46°	476.2	474.8	477.2	479.5	481.8	483.5
46.5°	471.4	470.1	472.2	474.7	477.1	478.4
47°	466.5	464.8	466.9	469.5	472.2	473.7
47.5°	461.1	459.9	462.1	464.8	467.2	468.4
48°	456.1	454.7	456.8	459.6	462.0	463.6
48.5°	451.1	449.7	451.8	454.6	457.3	458.7
49°	445.9	444.9	446.7	449.4	452.4	453.4
49.5°	440.7	439.6	441.5	444.4	447.0	448.3
50°	435.5	434.2	436.1	439.1	441.9	443.2
50.5°	430.2	429.0	431.0	434.0	436.7	438.0
51°	424.9	423.8	425.6	428.8	431.5	432.5
51.5°	419.8	418.4	420.1	423.3	426.1	427.4
52°	414.2	412.9	415.0	417.7	420.7	422.1
52.5°	408.6	407.7	409.7	412.5	415.1	416.5
53°	403.6	402.1	404.2	407.0	410.0	410.8
53.5°	398.0	396.6	398.7	401.7	404.4	405.7
54°	392.4	391.0	393.1	396.0	398.7	400.4
54.5°	386.8	385.4	387.5	390.5	393.3	395.1
55°	381.6	380.0	382.2	385.0	387.5	389.1
55.5°	375.8	374.5	376.7	379.4	382.4	383.7
56°	370.0	368.9	370.9	374.0	376.8	378.3
56.5°	364.3	363.1	365.2	368.2	371.0	372.6
57°	358.9	357.3	359.5	362.5	365.1	366.7
57.5°	353.0	351.7	353.7	356.5	359.4	361.0
58°	347.1	345.8	348.0	350.8	353.6	355.4
58.5°	341.4	339.9	342.3	345.0	347.9	349.7
59°	335.6	334.1	336.3	339.0	342.0	343.7
59.5°	329.6	328.0	330.3	333.2	335.9	337.9
60°	323.7	322.1	324.5	327.3	330.0	332.0
60.5°	317.8	316.3	318.1	321.5	324.1	326.1
61°	311.8	310.3	312.5	315.4	318.1	320.4
61.5°	305.8	304.3	306.6	309.5	312.4	314.2
62°	299.7	298.3	300.5	303.4	306.3	308.2
62.5°	293.8	292.3	294.4	297.3	300.1	302.1
63°	287.6	286.1	288.2	290.9	294.0	296.1
63.5°	281.6	280.0	282.1	284.8	287.9	289.9
64°	275.3	273.6	275.8	278.9	281.8	284.0
64.5°	269.0	267.6	269.7	272.5	275.6	277.8
65°	263.0	261.6	263.5	266.1	269.5	271.7
65.5°	256.7	255.2	257.5	260.0	263.1	265.4
66°	250.5	249.1	251.0	253.9	256.9	259.4
66.5°	244.2	242.4	244.8	247.5	250.6	253.0
67°	237.8	236.4	238.4	241.1	244.4	246.7

TEST NUMBER: P869716
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	231.8	230.1	232.2	234.9	238.2	240.5
68°	225.5	223.5	225.8	228.5	231.9	234.0
68.5°	219.0	217.4	219.3	222.1	225.4	227.8
69°	212.7	210.9	212.9	215.7	219.0	221.6
69.5°	206.2	204.4	206.6	209.3	212.5	214.9
70°	200.0	198.1	200.5	203.1	206.1	208.6
70.5°	193.8	191.7	193.9	196.6	199.9	202.3
71°	187.3	185.4	187.7	190.4	193.5	195.8
71.5°	180.9	178.9	181.0	183.6	187.0	189.3
72°	174.5	172.7	174.5	177.2	180.6	183.1
72.5°	167.9	166.2	168.2	170.9	174.2	176.6
73°	161.6	159.7	161.7	164.5	167.6	170.2
73.5°	155.3	153.4	155.2	158.1	161.3	163.9
74°	149.0	146.9	148.9	151.7	154.7	157.5
74.5°	142.6	140.7	142.5	145.2	148.3	151.1
75°	136.2	134.4	136.2	138.9	141.9	144.5
75.5°	130.2	128.1	129.8	132.7	135.7	138.4
76°	123.7	121.7	123.5	126.3	129.3	132.0
76.5°	117.4	115.5	117.2	120.0	123.2	125.7
77°	111.0	109.3	111.2	113.9	116.9	119.4
77.5°	104.9	103.1	105.0	107.9	110.8	113.1
78°	98.8	97.0	98.9	101.5	104.6	107.0
78.5°	92.8	91.0	92.8	95.4	98.5	100.8
79°	86.8	84.9	86.8	89.5	92.5	94.9
79.5°	80.9	79.0	80.8	83.4	86.4	88.7
80°	75.2	73.3	75.0	77.7	80.4	82.8
80.5°	69.5	67.6	69.3	71.8	74.5	77.1
81°	64.1	62.0	63.6	66.2	68.9	71.3
81.5°	58.4	56.5	58.1	60.6	63.4	65.6
82°	52.9	51.2	52.6	55.2	57.7	59.9
82.5°	47.8	46.0	47.6	49.8	52.4	54.5
83°	42.8	41.0	42.6	44.8	47.3	49.3
83.5°	37.9	36.2	37.5	39.7	42.3	44.2
84°	33.1	31.5	32.9	35.0	37.3	39.3
84.5°	28.6	27.3	28.5	30.5	32.7	34.5
85°	24.2	23.1	24.3	26.2	28.2	30.0
85.5°	20.2	19.5	20.5	22.1	24.1	25.7
86°	16.6	15.8	16.9	18.5	20.4	21.8
86.5°	13.5	12.6	13.5	15.0	16.7	18.3
87°	10.7	9.6	10.5	11.9	13.4	14.7
87.5°	7.9	6.7	7.7	9.0	10.4	11.7
88°	5.5	4.7	5.2	6.2	7.4	8.8
88.5°	3.5	3.0	3.5	4.3	5.2	5.9
89°	2.0	1.8	2.2	2.9	3.5	4.1
89.5°	0.8	1.1	1.4	1.8	2.3	2.6

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



TEST NUMBER: P869716
CATALOG NUMBER: SMX18RLSFSD2W-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)