

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: P869722

Luminaire Tested: **SMX18RLSFSD2W-2500LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869722
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFSD2W-2500LM-3000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

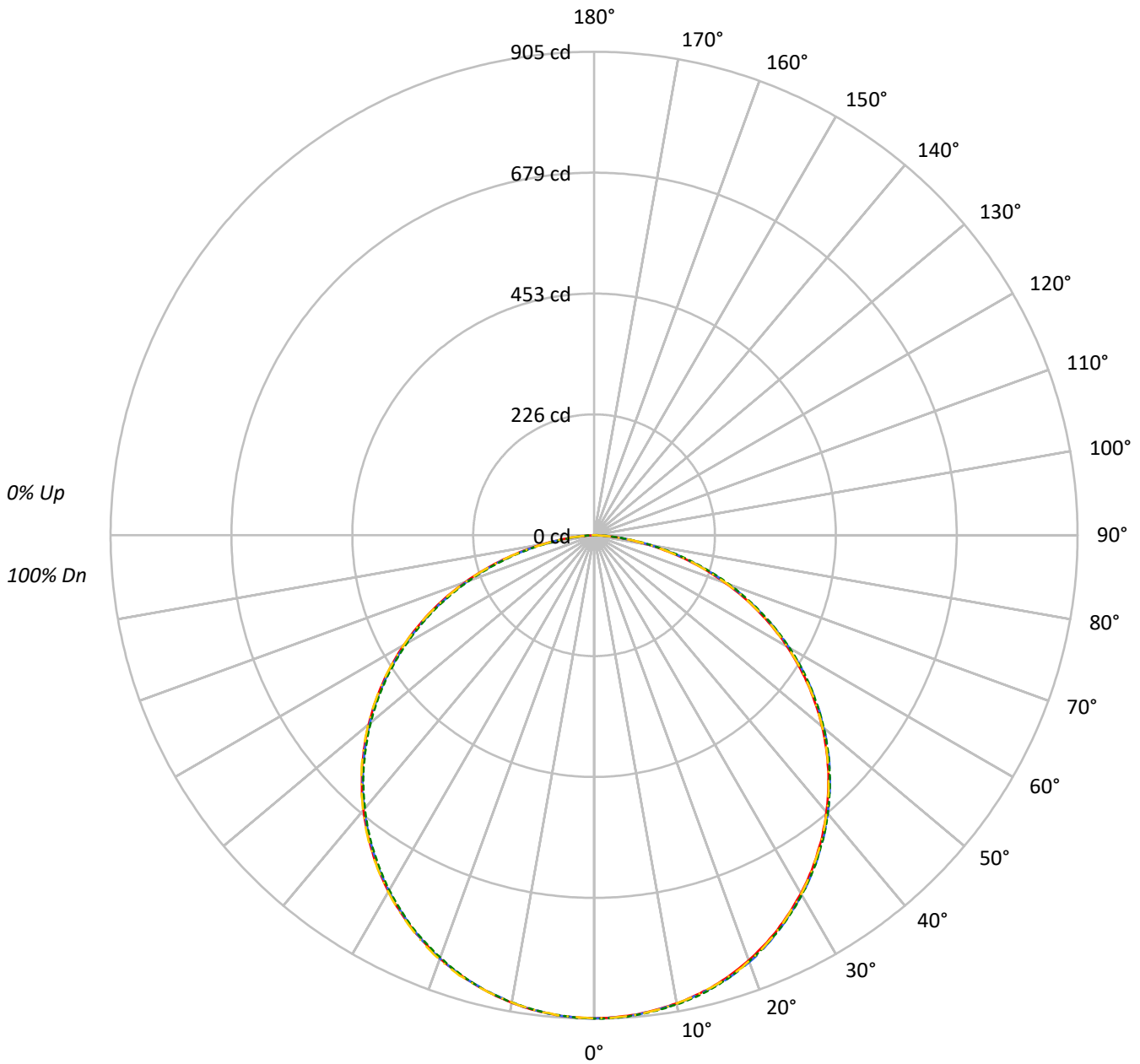
Lumens per Lamp: N/A
 Luminaire Lumens: 2640.0 lumens
 Efficiency: N/A
 Efficacy: 86.8 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 30.4
 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°	5509	5509	5509	5509
5°	5508	5511	5503	5504
10°	5502	5515	5497	5492
15°	5500	5515	5481	5481
20°	5487	5502	5466	5453
25°	5470	5486	5442	5431
30°	5445	5466	5414	5394
35°	5415	5442	5381	5355
40°	5377	5410	5339	5307
45°	5337	5372	5286	5249
50°	5279	5318	5220	5171
55°	5194	5250	5131	5073
60°	5084	5149	5012	4931
65°	4921	5007	4834	4739
70°	4670	4789	4565	4435
75°	4274	4446	4147	3975
80°	3648	3883	3466	3231
85°	2635	3005	2334	2034

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	3.2
10°-20°	246.0	9.3
20°-30°	374.5	14.2
30°-40°	454.8	17.2
40°-50°	476.0	18.0
50°-60°	434.8	16.5
60°-70°	334.5	12.7
70°-80°	189.2	7.2
80°-90°	44.6	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°	706.1	26.7
0°-40°	1160.9	44.0
0°-60°	2071.7	78.5
0°-90°	2640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2640.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	904	904	904	904	904	
5°	901	901	900	900	901	86
15°	872	875	869	869	872	246
25°	814	816	810	808	814	375
35°	728	732	724	720	728	456
45°	620	624	614	609	620	478
55°	489	494	483	478	489	437
65°	341	347	335	329	341	337
75°	182	189	176	169	182	192
85°	38	43	33	29	38	47
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°	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5	904.5
0.5°	903.7	904.4	904.3	904.4	904.9	905.5	904.4	904.6	903.5	904.3	904.5
1°	903.7	904.5	904.2	904.6	905.1	905.2	903.7	904.2	903.7	904.1	904.2
1.5°	903.7	904.8	904.1	904.1	904.7	904.7	904.2	903.8	903.3	904.1	904.0
2°	903.4	904.4	903.9	903.7	904.4	904.7	904.0	903.6	903.1	903.5	903.2
2.5°	902.8	904.2	903.7	903.6	904.4	904.3	903.5	902.8	903.0	903.4	903.2
3°	902.3	903.7	903.7	903.0	903.7	903.3	903.1	902.5	902.1	903.6	902.5
3.5°	901.9	903.0	903.3	903.0	903.1	902.8	903.0	902.3	902.3	902.9	902.3
4°	901.6	902.6	902.6	902.4	903.1	902.6	902.3	901.9	901.9	901.8	901.7
4.5°	901.1	901.5	901.7	902.2	902.0	902.4	901.9	901.3	901.1	901.1	901.1
5°	900.9	900.8	900.9	901.4	901.3	901.6	901.2	900.1	900.0	900.4	900.5
5.5°	899.6	900.6	900.6	901.1	900.9	901.2	900.7	899.6	899.3	899.4	899.5
6°	898.6	899.7	899.1	900.0	900.2	900.3	899.5	899.1	898.1	898.3	897.7
6.5°	897.8	898.7	898.4	899.0	899.1	899.5	898.3	898.3	897.8	897.0	896.7
7°	896.8	897.5	897.6	897.8	897.9	898.5	897.2	896.8	896.4	896.4	896.1
7.5°	895.7	896.3	896.5	897.1	897.7	897.2	896.7	895.4	895.4	895.3	894.9
8°	894.5	895.3	895.2	895.7	896.4	896.3	895.8	894.7	894.1	893.8	893.7
8.5°	893.4	894.4	894.4	894.5	895.2	895.4	893.9	893.4	893.0	892.7	892.6
9°	892.2	893.3	892.8	893.5	893.8	894.2	892.7	892.2	891.4	891.2	891.0
9.5°	890.7	892.1	891.9	892.4	892.7	893.0	891.7	890.8	890.2	889.6	889.5
10°	889.6	890.6	890.4	890.8	891.7	891.5	890.1	889.0	888.7	887.8	887.7
10.5°	888.6	889.1	889.0	889.9	890.5	890.1	888.3	887.7	886.6	886.3	886.0
11°	887.0	887.5	887.6	888.4	888.9	888.5	886.9	886.1	885.0	885.2	884.2
11.5°	885.1	886.0	886.0	887.0	887.7	887.2	885.4	884.0	883.3	883.8	882.6
12°	883.7	884.5	884.3	885.6	885.9	885.5	884.0	882.4	881.8	881.3	880.9
12.5°	881.8	882.6	882.3	883.8	884.7	883.8	882.4	880.4	879.4	879.3	879.2
13°	880.1	881.2	880.8	882.5	883.0	882.3	880.4	878.4	877.7	877.4	877.2
13.5°	878.1	879.2	879.3	880.4	880.9	880.4	878.5	877.0	875.6	875.1	875.5
14°	877.1	877.4	877.5	879.1	879.1	878.5	876.2	875.0	873.5	873.3	873.5
14.5°	874.8	875.1	875.8	877.2	877.2	876.7	874.7	872.5	871.7	870.7	870.8
15°	872.2	872.9	873.9	874.3	874.6	874.3	872.8	870.6	869.1	868.9	868.9
15.5°	869.9	871.1	871.7	872.5	873.0	872.4	870.6	867.9	866.9	866.6	866.8
16°	867.4	869.4	870.0	870.4	870.2	870.4	868.6	865.6	864.7	864.4	864.5
16.5°	865.6	867.1	868.2	868.0	867.9	867.9	865.8	863.8	862.3	862.0	861.9
17°	862.9	864.4	865.8	865.7	865.7	865.5	863.7	861.3	859.5	859.2	859.0
17.5°	860.1	862.0	863.4	863.4	863.0	862.9	861.7	858.6	857.5	856.5	856.7
18°	857.8	859.4	860.9	860.2	860.4	860.2	859.7	856.0	854.7	853.9	854.2
18.5°	854.9	856.5	858.6	857.6	857.2	857.4	856.7	853.0	851.7	851.2	851.3
19°	851.9	854.0	855.9	854.8	854.5	854.4	854.4	850.6	849.1	848.1	848.9
19.5°	849.3	851.2	852.9	851.9	852.1	851.9	851.0	847.9	846.0	845.0	846.2
20°	846.5	848.7	850.2	848.5	848.8	848.9	848.3	844.7	843.2	842.4	843.1
20.5°	843.6	845.2	847.5	845.8	845.7	845.4	845.1	841.7	840.6	839.4	840.1
21°	840.5	841.9	844.6	842.8	843.0	842.0	842.8	838.7	837.6	836.3	837.1
21.5°	837.0	838.8	841.5	840.0	839.5	839.4	839.3	835.8	833.9	832.9	834.0
22°	833.7	835.6	838.4	836.6	836.6	836.0	836.3	832.9	830.3	829.5	830.8

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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°	830.7	832.5	835.0	833.3	833.3	832.6	832.9	829.6	827.2	825.9	827.0
23°	827.8	829.6	831.2	830.3	830.0	829.7	829.0	825.9	823.8	822.9	823.3
23.5°	824.1	826.6	828.2	827.1	826.8	826.6	825.9	822.7	820.2	820.0	819.4
24°	820.8	823.1	824.5	823.6	823.4	822.5	822.4	819.6	817.1	815.7	815.8
24.5°	817.5	819.7	820.5	820.0	820.2	818.5	818.5	816.0	813.5	812.1	812.6
25°	813.9	815.9	816.9	816.7	816.3	815.6	814.9	812.7	809.7	808.4	808.2
25.5°	809.6	812.0	813.2	813.3	813.0	812.5	811.1	809.3	806.1	804.9	804.3
26°	806.2	808.7	809.3	809.5	809.2	808.3	807.2	805.4	802.1	801.3	801.1
26.5°	801.8	804.9	805.5	805.4	805.5	804.5	803.2	801.7	798.5	797.4	796.7
27°	798.3	801.3	801.5	801.8	801.2	801.0	799.2	797.7	794.4	793.8	792.8
27.5°	794.4	797.6	797.8	798.6	797.7	796.6	794.9	794.0	790.4	790.1	789.0
28°	790.5	793.3	794.1	794.6	794.0	793.1	790.9	789.8	786.9	786.2	784.9
28.5°	786.1	789.8	789.6	790.3	789.9	789.2	787.4	786.1	782.9	781.9	781.1
29°	781.9	786.0	785.4	786.2	786.0	785.0	783.1	782.1	778.6	777.6	776.7
29.5°	778.1	781.8	781.8	782.4	781.4	780.7	779.1	778.1	774.3	773.3	772.7
30°	774.1	777.6	777.8	778.3	777.2	776.5	775.2	773.7	769.8	769.2	767.9
30.5°	769.8	773.6	773.4	774.1	773.0	772.4	771.1	769.6	765.5	765.0	763.9
31°	765.3	769.3	769.2	769.6	769.1	768.1	766.3	765.2	761.2	760.1	759.5
31.5°	761.3	764.5	764.6	765.4	764.5	763.4	762.1	760.5	756.8	755.6	754.9
32°	756.6	759.7	760.3	761.3	759.8	758.8	757.5	756.1	752.2	751.6	750.1
32.5°	752.0	755.4	755.5	756.9	755.3	754.8	752.8	751.7	747.6	747.1	745.8
33°	747.7	750.9	750.8	752.2	751.1	750.1	748.3	746.8	742.8	742.7	741.0
33.5°	743.0	746.3	746.4	747.4	746.9	745.7	743.4	742.1	738.0	737.8	736.1
34°	738.1	741.9	741.9	742.7	741.9	741.0	738.4	737.9	733.7	732.9	731.0
34.5°	733.2	737.0	736.9	737.9	736.8	736.3	734.0	733.1	729.0	728.0	726.3
35°	728.2	732.3	731.8	733.3	731.8	731.5	728.9	727.7	723.7	723.1	721.4
35.5°	722.9	727.3	727.2	728.6	727.1	726.6	724.1	722.9	718.8	718.4	716.5
36°	718.5	722.5	722.1	723.6	722.0	721.6	719.1	717.8	713.8	713.2	711.4
36.5°	713.5	717.4	717.2	718.4	716.8	716.5	714.0	712.9	708.8	708.6	706.6
37°	708.6	712.5	712.3	713.1	712.2	711.8	709.0	707.9	703.6	703.1	700.9
37.5°	703.5	707.1	707.1	708.3	707.3	706.6	704.0	702.9	698.4	697.3	695.6
38°	697.5	701.8	701.8	703.1	701.9	701.2	698.7	697.8	693.1	692.1	690.4
38.5°	692.4	696.4	696.7	698.1	696.6	695.8	693.5	692.7	687.6	686.3	685.3
39°	687.3	691.5	691.4	692.7	691.4	690.9	687.8	687.1	682.4	681.4	680.0
39.5°	682.0	685.5	686.0	687.2	686.0	685.3	682.6	681.8	676.9	676.1	674.7
40°	676.2	680.1	680.7	681.5	680.4	680.0	677.4	676.1	671.5	670.3	668.9
40.5°	670.8	674.6	675.2	676.2	675.1	674.8	672.4	670.2	666.0	664.4	663.6
41°	665.7	669.1	669.6	670.6	669.4	669.1	666.5	664.2	660.4	659.1	657.7
41.5°	660.2	663.4	664.2	665.0	664.0	663.3	661.2	658.8	655.0	653.3	652.3
42°	654.3	657.5	658.7	659.4	658.4	657.8	655.3	653.0	649.2	647.4	646.4
42.5°	648.6	652.0	653.3	653.5	652.6	652.1	649.9	646.9	643.3	641.9	640.5
43°	642.9	646.0	647.3	647.6	646.8	646.3	643.7	641.4	637.3	636.3	634.9
43.5°	636.9	640.4	641.3	642.0	641.1	640.3	637.6	635.4	631.4	630.5	629.1
44°	631.4	634.8	635.8	636.0	635.3	634.9	631.8	629.7	625.5	624.7	623.0
44.5°	625.9	628.9	630.0	630.3	629.6	628.8	626.0	623.5	619.7	618.7	617.2

TEST NUMBER: P869722
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	619.6	622.4	624.3	624.6	623.6	622.9	620.1	617.5	613.6	612.5	611.0
45.5°	613.1	616.7	618.1	618.4	617.3	616.9	614.3	611.6	607.8	605.9	605.1
46°	607.7	610.7	611.9	612.1	611.2	610.8	608.1	605.6	601.5	599.9	598.9
46.5°	601.3	604.5	606.2	605.8	605.3	604.7	602.3	599.2	594.9	593.7	592.9
47°	595.4	598.4	599.8	600.0	599.1	598.6	596.0	593.4	589.1	587.6	586.7
47.5°	588.7	592.1	593.8	594.0	593.1	592.4	589.4	587.5	582.7	581.3	580.0
48°	582.6	586.0	587.3	587.5	586.7	586.4	583.5	580.8	576.7	574.9	573.6
48.5°	576.6	579.8	581.1	580.9	580.2	579.8	577.2	574.1	569.9	568.5	567.5
49°	569.9	573.2	574.5	574.8	574.0	573.5	570.5	567.7	564.0	562.1	560.7
49.5°	563.5	566.6	568.1	568.5	567.5	567.3	564.2	561.3	557.6	555.6	554.6
50°	557.1	560.5	561.5	561.8	561.2	560.7	557.8	555.0	550.9	549.4	548.0
50.5°	550.5	554.1	555.3	555.5	554.9	554.0	551.2	548.4	544.2	542.4	541.4
51°	543.7	547.4	548.6	548.7	548.4	547.4	544.5	542.0	537.4	535.6	534.5
51.5°	537.2	540.9	542.0	542.2	541.6	540.9	537.6	535.3	531.1	529.3	527.9
52°	530.5	534.1	535.4	535.6	535.1	534.1	531.2	528.7	524.7	522.3	521.4
52.5°	523.5	527.3	528.5	528.6	528.1	527.7	524.7	522.1	517.7	515.7	514.4
53°	516.3	520.4	521.8	521.8	521.1	520.9	518.0	515.0	510.7	508.7	507.6
53.5°	510.0	513.6	515.1	515.2	514.7	514.1	511.1	508.3	503.8	501.9	500.9
54°	503.3	506.6	508.1	508.2	508.0	507.0	504.2	501.2	497.4	494.8	493.8
54.5°	496.5	499.7	501.4	501.2	501.3	500.4	497.4	494.5	490.4	487.7	486.6
55°	489.1	493.0	494.4	494.2	494.4	493.2	490.5	487.5	483.2	481.0	480.0
55.5°	482.3	485.9	487.5	487.1	487.3	486.4	483.5	481.0	476.2	474.5	472.7
56°	475.5	478.8	480.4	480.2	480.5	479.3	476.3	473.5	469.1	467.1	465.4
56.5°	468.3	471.6	473.2	473.1	473.5	472.1	469.1	466.7	461.9	459.7	458.2
57°	460.9	464.5	466.2	466.1	466.4	465.1	462.2	459.4	455.1	452.6	450.9
57.5°	453.8	457.4	459.1	458.8	459.3	457.7	454.7	452.2	447.6	445.2	443.9
58°	446.7	450.3	451.9	451.7	451.8	450.7	447.6	444.8	440.5	438.0	436.6
58.5°	439.5	443.3	444.8	444.4	444.6	443.5	440.5	437.7	433.4	430.8	429.3
59°	432.0	435.8	437.4	437.0	437.6	435.9	433.1	430.1	426.0	423.8	422.2
59.5°	424.7	428.3	430.0	429.7	430.3	428.7	425.7	422.7	418.6	415.7	414.5
60°	417.3	420.8	422.4	422.2	422.7	421.2	418.0	415.2	411.4	408.5	407.1
60.5°	409.9	413.3	415.0	414.8	415.5	414.0	410.9	408.0	403.8	401.2	399.8
61°	402.7	406.0	407.6	407.3	408.2	406.4	403.4	400.6	396.4	393.7	392.4
61.5°	395.0	398.4	400.2	400.1	400.8	398.8	395.9	393.2	388.9	386.1	384.8
62°	387.3	390.8	392.8	392.7	393.4	391.6	388.4	385.5	381.6	378.5	376.8
62.5°	379.7	383.5	385.0	385.0	385.7	383.9	380.7	377.8	373.6	371.0	369.3
63°	372.1	375.8	377.1	377.3	378.1	376.4	373.1	370.1	366.1	363.3	361.6
63.5°	364.4	367.9	369.5	369.7	370.6	368.9	365.6	362.7	358.3	355.4	353.9
64°	356.9	360.4	361.8	361.8	362.8	360.9	357.9	354.9	350.8	347.8	346.3
64.5°	349.2	352.9	354.2	354.6	355.3	353.4	350.2	347.0	343.1	340.0	338.2
65°	341.4	344.9	346.5	346.8	347.4	345.7	342.3	339.2	335.4	332.3	330.7
65.5°	333.6	337.1	338.6	338.8	339.5	338.0	334.7	331.4	327.8	324.5	323.0
66°	326.1	329.4	330.8	330.9	331.8	330.0	326.6	323.4	319.6	316.9	315.5
66.5°	317.9	321.5	323.0	323.1	324.3	322.1	319.1	315.7	312.0	308.9	307.4
67°	310.1	313.7	315.2	315.4	316.4	314.6	311.2	307.7	304.1	300.9	299.3

TEST NUMBER: P869722
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	302.3	305.7	307.1	307.4	308.7	306.5	303.5	299.9	296.2	292.9	291.4
68°	294.2	297.6	299.1	299.2	300.6	298.4	295.5	291.9	288.3	285.3	283.5
68.5°	286.3	289.9	291.2	291.7	293.1	290.6	287.5	283.9	280.6	277.5	275.7
69°	278.5	282.0	283.1	283.9	285.2	282.7	279.2	276.0	272.4	269.3	267.8
69.5°	270.1	273.9	275.3	275.4	277.0	274.8	271.5	268.3	264.6	261.3	259.5
70°	262.2	265.8	267.2	267.3	268.9	266.8	263.4	260.0	256.3	253.5	251.6
70.5°	254.3	257.6	258.9	259.5	261.2	258.8	255.4	252.1	248.6	245.3	243.6
71°	246.1	249.9	251.0	251.5	253.3	251.1	247.7	243.9	240.5	237.4	235.7
71.5°	238.0	241.8	243.0	243.5	245.2	242.9	239.5	235.8	232.4	229.3	227.7
72°	230.1	233.6	234.9	235.3	237.2	235.1	231.5	227.9	224.3	221.0	219.4
72.5°	222.0	225.3	226.8	227.1	229.2	226.9	223.6	219.6	216.1	213.1	211.5
73°	213.9	217.2	218.6	219.0	220.9	218.6	215.1	211.5	208.2	205.0	203.3
73.5°	206.0	209.2	210.7	210.9	213.2	210.7	207.2	203.3	200.3	196.9	195.4
74°	198.0	201.3	202.6	203.0	205.0	202.8	199.3	195.4	192.2	188.9	187.4
74.5°	189.9	193.3	194.7	194.8	196.9	194.8	191.4	187.3	184.2	181.0	179.3
75°	181.6	185.0	186.4	186.6	188.9	186.7	183.3	179.2	176.2	172.8	171.2
75.5°	174.0	177.1	178.6	178.5	181.1	178.6	175.2	171.6	168.2	165.2	163.5
76°	166.0	169.3	170.8	170.7	172.9	170.8	167.3	163.6	160.4	157.3	155.5
76.5°	158.0	161.2	162.7	162.6	165.1	162.7	159.2	155.9	152.4	149.0	147.5
77°	150.1	153.4	155.0	154.8	157.1	154.9	151.4	148.0	144.4	141.3	139.6
77.5°	142.2	145.5	147.0	147.0	149.3	147.1	143.7	140.0	136.9	133.6	132.1
78°	134.5	137.8	139.1	139.3	141.4	139.3	135.8	132.3	128.8	126.1	124.3
78.5°	126.7	129.9	131.5	131.7	133.8	131.4	128.0	124.3	121.2	118.1	116.7
79°	119.2	122.4	123.9	124.0	126.0	123.8	120.5	116.9	113.6	110.6	109.4
79.5°	111.5	114.6	116.2	116.4	118.3	116.2	112.9	109.2	106.1	103.3	101.8
80°	104.0	107.1	108.6	108.7	110.7	108.9	105.3	101.8	98.8	96.3	94.6
80.5°	96.9	99.8	101.2	101.6	103.4	101.5	98.3	94.8	91.6	88.9	87.5
81°	89.6	92.5	93.9	94.3	96.5	94.5	91.0	87.5	84.6	81.8	80.6
81.5°	82.5	85.2	86.8	86.9	88.8	87.1	83.9	80.4	77.4	75.0	73.8
82°	75.2	78.3	79.5	79.5	81.7	80.0	77.2	73.6	70.4	68.1	66.8
82.5°	68.4	71.3	72.6	72.7	74.9	73.2	70.2	66.8	63.8	61.4	60.3
83°	62.0	64.7	65.9	66.0	68.3	66.5	63.5	60.3	57.4	55.0	54.0
83.5°	55.5	58.2	59.4	59.6	61.5	59.8	57.0	53.7	51.0	48.8	47.7
84°	49.4	51.9	53.0	53.1	54.9	53.4	50.7	47.6	44.7	43.0	41.7
84.5°	43.4	45.9	46.8	47.1	48.8	47.4	44.6	41.7	39.0	37.0	36.1
85°	37.7	40.0	41.0	41.0	43.0	41.4	38.8	35.9	33.4	31.4	30.6
85.5°	32.3	34.5	35.4	35.4	37.0	35.6	33.0	30.4	28.1	26.4	25.5
86°	27.4	29.4	30.1	30.2	31.6	30.1	27.8	25.4	23.5	21.7	21.0
86.5°	22.9	24.7	25.5	25.5	26.2	25.1	23.0	20.7	18.9	17.7	17.1
87°	18.5	20.4	21.0	21.0	21.9	20.6	18.8	16.8	15.1	13.8	13.3
87.5°	14.7	16.3	16.9	16.9	17.6	16.8	15.1	13.1	11.5	10.5	9.9
88°	11.0	12.5	13.1	13.0	14.0	12.9	11.4	9.6	8.3	7.3	7.1
88.5°	7.5	8.8	9.3	9.3	10.4	9.6	8.2	6.7	5.5	4.8	4.3
89°	5.1	6.1	6.5	6.3	7.4	6.6	5.4	4.2	3.2	2.6	2.5
89.5°	3.3	4.1	4.3	4.2	4.7	4.1	3.1	2.2	1.5	1.1	0.9

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



TEST NUMBER: P869722
CATALOG NUMBER: SMX18RLSFSD2W-2500LM-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: P869722
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	904.5	904.5	904.5	904.5	904.5	904.5
0.5°	904.3	904.2	905.1	904.0	904.0	903.7
1°	903.5	903.6	904.5	903.3	903.8	903.7
1.5°	903.4	904.0	904.4	903.2	903.7	903.7
2°	903.0	904.0	903.8	902.9	903.7	903.4
2.5°	902.8	903.2	903.6	902.8	903.4	902.8
3°	902.2	902.5	903.6	902.0	903.3	902.3
3.5°	901.8	901.8	902.8	901.8	902.6	901.9
4°	901.8	900.9	902.0	901.7	901.7	901.6
4.5°	900.8	900.6	901.2	900.6	900.7	901.1
5°	900.2	900.2	900.8	899.5	899.7	900.9
5.5°	898.5	898.8	899.6	898.4	899.2	899.6
6°	897.6	897.8	898.5	898.2	898.8	898.6
6.5°	896.8	896.8	897.8	897.5	897.8	897.8
7°	896.1	895.7	896.7	896.2	897.1	896.8
7.5°	894.3	894.7	895.1	895.2	896.1	895.7
8°	893.3	893.1	894.0	893.8	894.5	894.5
8.5°	892.1	892.0	893.0	892.3	893.3	893.4
9°	890.4	890.4	891.9	891.3	891.8	892.2
9.5°	889.3	889.1	889.6	889.8	890.4	890.7
10°	888.0	887.9	888.1	887.7	889.1	889.6
10.5°	886.2	886.5	886.4	885.9	887.7	888.6
11°	884.3	884.5	884.9	884.7	886.4	887.0
11.5°	882.9	882.9	883.5	883.1	885.2	885.1
12°	881.0	880.9	882.3	881.2	883.3	883.7
12.5°	879.1	879.2	879.7	879.4	881.5	881.8
13°	877.2	877.5	878.3	878.1	879.7	880.1
13.5°	875.5	875.8	876.2	875.9	878.1	878.1
14°	873.1	873.5	874.4	874.2	876.4	877.1
14.5°	871.3	871.4	872.4	872.3	874.6	874.8
15°	869.2	869.2	870.1	869.8	872.4	872.2
15.5°	867.4	866.6	867.8	867.9	869.7	869.9
16°	865.2	864.1	865.7	865.4	867.4	867.4
16.5°	862.5	861.5	863.0	863.6	864.8	865.6
17°	860.2	858.6	860.2	861.7	862.4	862.9
17.5°	857.2	855.7	857.7	859.0	859.9	860.1
18°	854.5	853.2	854.6	856.3	857.2	857.8
18.5°	851.1	850.4	851.1	853.6	854.2	854.9
19°	848.1	847.5	848.2	851.3	851.3	851.9
19.5°	845.2	844.1	845.5	848.1	848.6	849.3
20°	842.2	841.3	843.1	845.1	846.0	846.5
20.5°	839.0	838.5	839.9	842.5	842.6	843.6
21°	836.0	835.3	836.9	839.7	839.5	840.5
21.5°	832.8	831.7	833.6	836.2	836.0	837.0
22°	829.7	828.3	829.8	832.6	832.7	833.7

TEST NUMBER: P869722
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	826.2	825.1	826.9	829.4	830.0	830.7
23°	823.1	821.9	823.7	826.0	827.1	827.8
23.5°	819.2	818.5	819.8	822.4	823.3	824.1
24°	815.8	815.1	816.1	818.5	819.3	820.8
24.5°	811.8	811.5	812.4	814.8	816.2	817.5
25°	808.4	808.1	809.7	811.3	813.0	813.9
25.5°	804.8	803.9	805.9	807.5	809.2	809.6
26°	800.8	800.1	802.2	803.6	805.6	806.2
26.5°	796.6	795.7	798.3	799.7	801.7	801.8
27°	793.0	791.9	794.4	795.9	797.6	798.3
27.5°	788.9	787.6	790.3	791.9	793.7	794.4
28°	785.0	783.8	786.6	788.0	790.1	790.5
28.5°	780.7	779.7	782.1	783.4	786.2	786.1
29°	776.8	775.3	777.9	779.5	781.9	781.9
29.5°	772.2	770.9	773.3	775.1	777.5	778.1
30°	767.9	766.9	769.3	771.0	773.3	774.1
30.5°	763.9	762.4	764.6	766.2	769.2	769.8
31°	759.3	757.9	760.3	761.9	765.1	765.3
31.5°	754.5	753.3	755.7	757.5	760.3	761.3
32°	749.9	748.5	751.6	753.3	756.1	756.6
32.5°	745.5	743.9	747.1	748.6	751.4	752.0
33°	740.9	739.6	742.6	744.1	747.3	747.7
33.5°	736.1	734.5	737.5	739.2	742.8	743.0
34°	731.6	729.5	732.7	734.5	738.0	738.1
34.5°	726.1	724.8	727.7	729.8	733.2	733.2
35°	721.1	720.1	723.0	724.5	728.2	728.2
35.5°	716.3	715.0	717.4	719.5	723.0	722.9
36°	711.3	710.1	712.8	714.9	718.4	718.5
36.5°	706.7	704.8	707.7	710.1	713.7	713.5
37°	701.7	699.6	702.5	704.8	708.4	708.6
37.5°	696.4	694.7	697.0	699.8	703.3	703.5
38°	690.4	689.3	691.7	694.2	697.8	697.5
38.5°	685.7	683.7	686.3	688.8	692.4	692.4
39°	680.3	678.6	680.9	683.7	687.1	687.3
39.5°	674.6	673.2	675.2	678.0	681.4	682.0
40°	669.1	667.4	670.2	672.7	675.8	676.2
40.5°	663.4	661.8	664.3	667.2	670.6	670.8
41°	657.5	656.4	658.6	661.2	664.2	665.7
41.5°	652.2	650.4	652.9	655.9	658.8	660.2
42°	646.4	644.7	647.4	650.1	652.9	654.3
42.5°	640.4	639.2	641.3	644.1	647.2	648.6
43°	635.1	633.5	635.7	638.3	641.5	642.9
43.5°	629.2	627.7	629.7	632.9	636.1	636.9
44°	622.8	621.4	623.7	627.0	630.4	631.4
44.5°	617.0	615.5	617.9	620.8	624.4	625.9

TEST NUMBER: P869722

CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	611.1	609.3	611.8	615.1	618.1	619.6
45.5°	605.3	603.1	606.0	609.2	611.7	613.1
46°	598.6	596.8	599.8	602.7	605.6	607.7
46.5°	592.5	590.9	593.5	596.6	599.6	601.3
47°	586.3	584.2	586.9	590.1	593.5	595.4
47.5°	579.6	578.1	580.8	584.2	587.2	588.7
48°	573.3	571.5	574.1	577.6	580.8	582.6
48.5°	567.0	565.2	567.8	571.4	574.8	576.6
49°	560.5	559.2	561.5	564.8	568.6	569.9
49.5°	553.9	552.5	555.0	558.6	561.9	563.5
50°	547.4	545.7	548.2	551.9	555.5	557.1
50.5°	540.7	539.2	541.7	545.5	548.8	550.5
51°	534.1	532.7	535.0	538.9	542.3	543.7
51.5°	527.6	525.9	528.1	532.0	535.5	537.2
52°	520.6	518.9	521.6	525.1	528.7	530.5
52.5°	513.6	512.4	515.0	518.4	521.8	523.5
53°	507.3	505.4	508.1	511.6	515.3	516.3
53.5°	500.2	498.4	501.2	504.9	508.3	510.0
54°	493.1	491.5	494.1	497.7	501.2	503.3
54.5°	486.2	484.5	487.1	490.8	494.3	496.5
55°	479.7	477.7	480.4	483.9	487.1	489.1
55.5°	472.4	470.7	473.5	476.8	480.7	482.3
56°	465.1	463.7	466.2	470.1	473.6	475.5
56.5°	457.9	456.4	459.1	462.8	466.3	468.3
57°	451.1	449.1	451.8	455.7	458.9	460.9
57.5°	443.7	442.1	444.6	448.1	451.7	453.8
58°	436.3	434.6	437.4	440.9	444.4	446.7
58.5°	429.1	427.2	430.2	433.7	437.3	439.5
59°	421.8	419.9	422.7	426.1	429.8	432.0
59.5°	414.2	412.2	415.2	418.8	422.3	424.7
60°	406.9	404.8	407.8	411.4	414.8	417.3
60.5°	399.5	397.6	399.9	404.0	407.3	409.9
61°	392.0	390.1	392.8	396.4	399.9	402.7
61.5°	384.3	382.5	385.3	389.0	392.6	395.0
62°	376.8	375.0	377.7	381.3	385.0	387.3
62.5°	369.3	367.4	370.1	373.6	377.2	379.7
63°	361.5	359.6	362.2	365.6	369.6	372.1
63.5°	353.9	351.9	354.6	358.0	361.8	364.4
64°	346.0	343.9	346.6	350.5	354.2	356.9
64.5°	338.1	336.3	339.0	342.5	346.4	349.2
65°	330.6	328.8	331.2	334.5	338.7	341.4
65.5°	322.7	320.8	323.6	326.8	330.7	333.6
66°	314.8	313.1	315.5	319.1	322.9	326.1
66.5°	307.0	304.7	307.7	311.1	315.0	317.9
67°	298.9	297.1	299.6	303.0	307.2	310.1

TEST NUMBER: P869722
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	291.3	289.2	291.8	295.3	299.3	302.3
68°	283.4	280.9	283.9	287.3	291.5	294.2
68.5°	275.3	273.2	275.7	279.1	283.3	286.3
69°	267.3	265.1	267.6	271.1	275.3	278.5
69.5°	259.2	257.0	259.7	263.1	267.2	270.1
70°	251.4	249.0	252.0	255.3	259.0	262.2
70.5°	243.6	241.0	243.7	247.0	251.3	254.3
71°	235.4	233.0	235.9	239.3	243.2	246.1
71.5°	227.3	224.9	227.5	230.8	235.1	238.0
72°	219.3	217.0	219.3	222.8	226.9	230.1
72.5°	211.1	208.9	211.5	214.9	218.9	222.0
73°	203.1	200.8	203.2	206.7	210.7	213.9
73.5°	195.2	192.8	195.1	198.7	202.8	206.0
74°	187.3	184.6	187.1	190.7	194.5	198.0
74.5°	179.2	176.8	179.1	182.5	186.3	189.9
75°	171.2	168.9	171.2	174.6	178.3	181.6
75.5°	163.6	161.0	163.1	166.8	170.6	174.0
76°	155.5	152.9	155.3	158.7	162.5	166.0
76.5°	147.5	145.2	147.4	150.9	154.8	158.0
77°	139.5	137.4	139.7	143.1	146.9	150.1
77.5°	131.9	129.6	132.0	135.6	139.2	142.2
78°	124.1	122.0	124.3	127.6	131.5	134.5
78.5°	116.6	114.4	116.7	119.9	123.9	126.7
79°	109.1	106.7	109.1	112.4	116.3	119.2
79.5°	101.7	99.3	101.6	104.9	108.7	111.5
80°	94.5	92.1	94.2	97.6	101.1	104.0
80.5°	87.4	85.0	87.1	90.2	93.6	96.9
81°	80.5	77.9	80.0	83.2	86.6	89.6
81.5°	73.4	71.0	73.0	76.2	79.7	82.5
82°	66.6	64.4	66.2	69.4	72.5	75.2
82.5°	60.0	57.9	59.9	62.6	65.9	68.4
83°	53.8	51.5	53.5	56.4	59.5	62.0
83.5°	47.6	45.5	47.1	49.9	53.1	55.5
84°	41.6	39.6	41.3	44.0	46.9	49.4
84.5°	36.0	34.3	35.8	38.3	41.1	43.4
85°	30.4	29.1	30.6	32.9	35.5	37.7
85.5°	25.4	24.4	25.8	27.8	30.3	32.3
86°	20.9	19.9	21.2	23.2	25.6	27.4
86.5°	17.0	15.9	17.0	18.9	21.1	22.9
87°	13.4	12.1	13.2	14.9	16.9	18.5
87.5°	9.9	8.4	9.6	11.3	13.1	14.7
88°	6.9	5.9	6.5	7.8	9.3	11.0
88.5°	4.4	3.8	4.4	5.4	6.5	7.5
89°	2.5	2.3	2.7	3.6	4.3	5.1
89.5°	1.0	1.4	1.8	2.3	2.8	3.3

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



TEST NUMBER: P869722
CATALOG NUMBER: SMX18RLSFSD2W-2500LM-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)