

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: P869723

Luminaire Tested: **SMX18RLSFSD2W-2500LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869723
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS2W-2500LM-3500K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

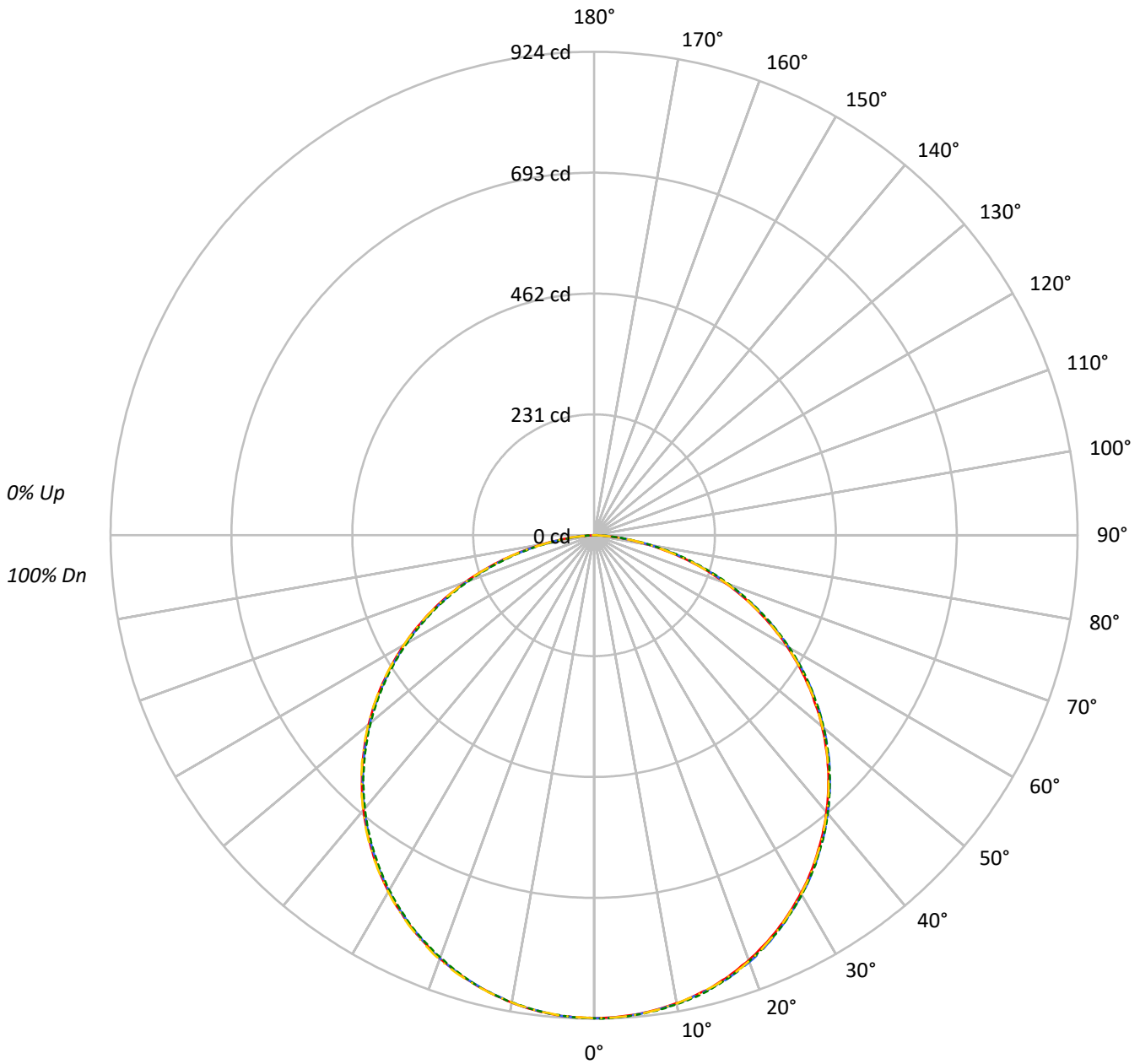
Lumens per Lamp: N/A
 Luminaire Lumens: 2695.0 lumens
 Efficiency: N/A
 Efficacy: 88.7 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

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	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°	5624	5624	5624	5624
5°	5623	5626	5618	5619
10°	5617	5630	5611	5606
15°	5614	5630	5595	5596
20°	5601	5616	5580	5567
25°	5584	5600	5555	5544
30°	5558	5580	5528	5506
35°	5528	5555	5494	5466
40°	5489	5523	5451	5417
45°	5448	5484	5396	5358
50°	5389	5429	5329	5279
55°	5302	5360	5239	5178
60°	5188	5257	5117	5034
65°	5024	5111	4935	4837
70°	4766	4890	4659	4527
75°	4363	4537	4231	4057
80°	3725	3964	3539	3301
85°	2691	3068	2383	2076

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.2
10°-20°	251.1	9.3
20°-30°	382.3	14.2
30°-40°	464.3	17.2
40°-50°	486.0	18.0
50°-60°	443.9	16.5
60°-70°	341.4	12.7
70°-80°	193.1	7.2
80°-90°	45.5	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°	720.8	26.7
0°-40°	1185.1	44.0
0°-60°	2114.9	78.5
0°-90°	2695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2695.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	923	923	923	923	923	
5°	920	920	919	919	920	87
15°	890	893	887	887	890	251
25°	831	833	826	825	831	383
35°	743	747	739	735	743	465
45°	632	637	626	622	632	488
55°	499	505	493	488	499	446
65°	349	355	342	336	349	344
75°	185	193	180	172	185	196
85°	38	44	34	30	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°	923.3	923.3	923.3	923.3	923.3	923.3	923.3	923.3	923.3	923.3	923.3
0.5°	922.5	923.2	923.1	923.2	923.8	924.4	923.2	923.5	922.3	923.1	923.3
1°	922.5	923.3	923.0	923.5	924.0	924.1	922.5	923.0	922.5	922.9	923.0
1.5°	922.5	923.7	922.9	922.9	923.6	923.6	923.0	922.6	922.1	922.9	922.8
2°	922.2	923.2	922.7	922.5	923.2	923.6	922.8	922.4	921.9	922.3	922.0
2.5°	921.7	923.0	922.5	922.4	923.2	923.1	922.3	921.7	921.9	922.2	922.0
3°	921.1	922.5	922.5	921.9	922.5	922.1	921.9	921.3	920.9	922.4	921.3
3.5°	920.7	921.9	922.1	921.9	921.9	921.6	921.9	921.1	921.1	921.8	921.1
4°	920.4	921.4	921.4	921.2	921.9	921.4	921.1	920.7	920.7	920.6	920.5
4.5°	919.9	920.3	920.5	921.0	920.8	921.2	920.7	920.1	919.8	919.9	919.8
5°	919.6	919.5	919.6	920.2	920.1	920.4	920.0	918.9	918.8	919.2	919.2
5.5°	918.4	919.3	919.3	919.8	919.6	920.0	919.4	918.4	918.0	918.1	918.2
6°	917.3	918.5	917.8	918.8	919.0	919.1	918.2	917.8	916.8	917.0	916.4
6.5°	916.6	917.4	917.1	917.7	917.8	918.3	917.0	917.0	916.5	915.7	915.4
7°	915.5	916.2	916.3	916.5	916.6	917.2	915.9	915.5	915.1	915.1	914.7
7.5°	914.3	915.0	915.2	915.8	916.4	915.9	915.4	914.0	914.0	913.9	913.6
8°	913.2	913.9	913.9	914.3	915.1	915.0	914.4	913.4	912.7	912.4	912.3
8.5°	912.0	913.1	913.0	913.2	913.9	914.0	912.5	912.0	911.6	911.3	911.2
9°	910.8	911.9	911.4	912.1	912.4	912.8	911.3	910.8	910.0	909.8	909.6
9.5°	909.2	910.7	910.5	911.0	911.3	911.6	910.3	909.3	908.7	908.2	908.1
10°	908.2	909.1	908.9	909.3	910.3	910.1	908.6	907.5	907.2	906.3	906.1
10.5°	907.1	907.6	907.5	908.5	909.0	908.6	906.8	906.2	905.1	904.8	904.5
11°	905.5	906.0	906.0	906.9	907.4	907.0	905.4	904.6	903.4	903.6	902.6
11.5°	903.5	904.4	904.4	905.5	906.1	905.7	903.8	902.4	901.7	902.2	900.9
12°	902.1	903.0	902.8	904.0	904.3	903.9	902.4	900.7	900.2	899.7	899.2
12.5°	900.2	901.0	900.7	902.2	903.2	902.2	900.7	898.7	897.8	897.7	897.6
13°	898.4	899.6	899.1	900.8	901.4	900.7	898.7	896.7	896.0	895.6	895.4
13.5°	896.4	897.5	897.7	898.7	899.3	898.7	896.8	895.3	893.8	893.3	893.7
14°	895.3	895.6	895.8	897.4	897.4	896.8	894.5	893.2	891.7	891.5	891.7
14.5°	893.0	893.3	894.0	895.4	895.4	895.0	892.9	890.7	889.9	888.8	889.0
15°	890.3	891.1	892.1	892.6	892.8	892.6	891.0	888.7	887.3	887.0	887.0
15.5°	888.0	889.3	889.9	890.7	891.2	890.5	888.7	886.0	884.9	884.7	884.8
16°	885.4	887.5	888.1	888.5	888.3	888.5	886.7	883.6	882.7	882.4	882.5
16.5°	883.6	885.1	886.3	886.1	886.0	886.0	883.9	881.8	880.2	879.9	879.8
17°	880.9	882.4	883.9	883.7	883.8	883.5	881.7	879.3	877.4	877.1	876.8
17.5°	878.0	879.9	881.4	881.4	881.0	880.9	879.6	876.5	875.4	874.3	874.5
18°	875.7	877.3	878.9	878.1	878.3	878.1	877.6	873.9	872.5	871.6	872.0
18.5°	872.7	874.3	876.5	875.5	875.0	875.3	874.5	870.8	869.4	868.9	869.0
19°	869.6	871.8	873.8	872.6	872.3	872.2	872.2	868.3	866.8	865.8	866.6
19.5°	867.0	868.9	870.7	869.6	869.8	869.6	868.8	865.6	863.6	862.6	863.8
20°	864.1	866.3	867.9	866.2	866.4	866.6	866.0	862.3	860.8	860.0	860.7
20.5°	861.1	862.8	865.2	863.5	863.4	863.0	862.7	859.2	858.2	856.9	857.6
21°	858.1	859.4	862.2	860.4	860.6	859.5	860.4	856.1	855.1	853.7	854.5
21.5°	854.4	856.2	859.0	857.5	857.0	856.9	856.8	853.2	851.3	850.3	851.4
22°	851.1	853.0	855.8	854.0	854.0	853.4	853.7	850.3	847.6	846.8	848.1

TEST NUMBER: P869723
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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°	848.0	849.9	852.4	850.6	850.6	850.0	850.3	846.9	844.5	843.1	844.2
23°	845.0	846.9	848.5	847.6	847.3	847.0	846.3	843.1	841.0	840.0	840.4
23.5°	841.3	843.8	845.4	844.4	844.0	843.8	843.1	839.8	837.3	837.0	836.5
24°	837.9	840.2	841.7	840.7	840.5	839.6	839.6	836.7	834.2	832.7	832.8
24.5°	834.5	836.8	837.6	837.0	837.3	835.6	835.6	833.0	830.4	829.0	829.5
25°	830.9	832.9	834.0	833.7	833.3	832.6	831.8	829.6	826.5	825.3	825.0
25.5°	826.4	829.0	830.1	830.2	829.9	829.4	828.0	826.2	822.9	821.6	821.1
26°	823.0	825.6	826.2	826.4	826.1	825.1	824.0	822.2	818.8	818.0	817.8
26.5°	818.5	821.6	822.3	822.2	822.3	821.2	819.9	818.4	815.2	814.0	813.3
27°	814.9	818.0	818.2	818.5	817.9	817.7	815.8	814.3	810.9	810.4	809.3
27.5°	810.9	814.2	814.4	815.3	814.3	813.2	811.5	810.5	806.9	806.6	805.4
28°	807.0	809.9	810.6	811.1	810.5	809.6	807.4	806.2	803.3	802.5	801.3
28.5°	802.5	806.2	806.0	806.8	806.3	805.6	803.8	802.5	799.2	798.2	797.3
29°	798.2	802.4	801.8	802.5	802.4	801.4	799.5	798.4	794.8	793.8	792.9
29.5°	794.4	798.1	798.1	798.7	797.7	797.0	795.3	794.4	790.4	789.4	788.8
30°	790.2	793.8	794.0	794.5	793.4	792.7	791.4	789.8	785.9	785.2	783.9
30.5°	785.9	789.7	789.5	790.2	789.1	788.5	787.1	785.7	781.4	781.0	779.8
31°	781.3	785.3	785.2	785.6	785.1	784.1	782.3	781.2	777.0	776.0	775.4
31.5°	777.2	780.4	780.6	781.3	780.4	779.3	778.0	776.3	772.6	771.3	770.7
32°	772.4	775.6	776.1	777.2	775.7	774.6	773.3	771.8	767.9	767.3	765.7
32.5°	767.7	771.1	771.2	772.7	771.0	770.6	768.4	767.4	763.1	762.7	761.3
33°	763.2	766.5	766.4	767.9	766.7	765.7	763.9	762.4	758.3	758.1	756.4
33.5°	758.5	761.9	762.0	762.9	762.5	761.2	758.9	757.5	753.4	753.2	751.5
34°	753.5	757.4	757.4	758.2	757.4	756.4	753.8	753.3	749.0	748.2	746.3
34.5°	748.5	752.3	752.2	753.3	752.1	751.7	749.3	748.4	744.1	743.2	741.5
35°	743.4	747.5	747.0	748.6	747.0	746.8	744.1	742.9	738.8	738.2	736.4
35.5°	738.0	742.4	742.3	743.8	742.2	741.7	739.1	738.0	733.7	733.4	731.4
36°	733.5	737.6	737.1	738.7	737.0	736.6	734.0	732.8	728.6	728.1	726.2
36.5°	728.3	732.4	732.1	733.4	731.7	731.4	728.9	727.8	723.5	723.3	721.3
37°	723.3	727.4	727.2	728.0	727.0	726.6	723.8	722.7	718.2	717.7	715.5
37.5°	718.1	721.8	721.8	723.0	722.1	721.3	718.7	717.6	712.9	711.9	710.1
38°	712.1	716.4	716.4	717.7	716.5	715.8	713.2	712.3	707.5	706.6	704.8
38.5°	706.9	710.9	711.2	712.6	711.1	710.3	707.9	707.1	701.9	700.6	699.5
39°	701.7	705.9	705.8	707.1	705.8	705.3	702.1	701.5	696.6	695.6	694.1
39.5°	696.3	699.8	700.3	701.6	700.3	699.5	696.8	696.0	691.0	690.2	688.7
40°	690.3	694.2	694.9	695.7	694.6	694.1	691.5	690.2	685.5	684.3	682.9
40.5°	684.8	688.6	689.2	690.3	689.1	688.8	686.4	684.1	679.9	678.2	677.5
41°	679.6	683.1	683.5	684.6	683.3	683.1	680.4	678.0	674.2	672.8	671.4
41.5°	674.0	677.2	678.0	678.8	677.8	677.1	675.0	672.5	668.7	666.9	665.9
42°	667.9	671.2	672.5	673.1	672.2	671.5	669.0	666.6	662.7	660.9	659.8
42.5°	662.1	665.6	666.9	667.2	666.2	665.7	663.4	660.4	656.7	655.3	653.9
43°	656.3	659.4	660.8	661.1	660.3	659.7	657.1	654.7	650.6	649.5	648.2
43.5°	650.2	653.8	654.6	655.4	654.4	653.7	650.9	648.6	644.6	643.6	642.2
44°	644.6	648.0	649.0	649.2	648.6	648.2	645.0	642.9	638.5	637.8	636.0
44.5°	638.9	642.0	643.2	643.4	642.7	641.9	639.0	636.5	632.7	631.6	630.1

TEST NUMBER: P869723
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	632.5	635.4	637.3	637.6	636.6	635.8	633.0	630.3	626.4	625.2	623.7
45.5°	625.9	629.6	631.0	631.3	630.1	629.8	627.1	624.4	620.4	618.5	617.7
46°	620.3	623.4	624.7	624.8	624.0	623.5	620.8	618.2	614.1	612.4	611.4
46.5°	613.9	617.1	618.9	618.4	617.9	617.3	614.8	611.6	607.3	606.1	605.3
47°	607.8	610.9	612.3	612.5	611.5	611.1	608.4	605.8	601.3	599.9	598.9
47.5°	600.9	604.4	606.2	606.3	605.5	604.7	601.7	599.7	594.9	593.4	592.1
48°	594.8	598.2	599.5	599.7	598.9	598.6	595.6	592.9	588.7	586.9	585.5
48.5°	588.6	591.9	593.2	593.0	592.3	591.9	589.2	586.0	581.8	580.3	579.4
49°	581.8	585.1	586.5	586.8	585.9	585.4	582.3	579.6	575.7	573.8	572.4
49.5°	575.2	578.4	579.9	580.3	579.4	579.1	576.0	573.0	569.2	567.2	566.2
50°	568.7	572.1	573.2	573.5	572.9	572.4	569.4	566.5	562.4	560.9	559.4
50.5°	562.0	565.7	566.8	567.0	566.4	565.6	562.7	559.8	555.6	553.7	552.7
51°	555.0	558.8	560.0	560.1	559.8	558.8	555.8	553.2	548.6	546.8	545.6
51.5°	548.4	552.2	553.3	553.5	552.9	552.2	548.8	546.5	542.2	540.3	538.9
52°	541.6	545.2	546.6	546.8	546.2	545.2	542.3	539.8	535.6	533.2	532.2
52.5°	534.4	538.3	539.5	539.7	539.1	538.7	535.6	533.0	528.5	526.5	525.1
53°	527.0	531.3	532.6	532.6	531.9	531.8	528.8	525.7	521.3	519.3	518.2
53.5°	520.6	524.3	525.8	526.0	525.4	524.8	521.7	518.8	514.3	512.4	511.3
54°	513.7	517.2	518.6	518.7	518.6	517.6	514.7	511.6	507.8	505.2	504.1
54.5°	506.9	510.1	511.8	511.6	511.7	510.8	507.8	504.8	500.6	497.8	496.8
55°	499.3	503.2	504.7	504.5	504.7	503.5	500.7	497.6	493.3	491.0	490.0
55.5°	492.3	496.0	497.6	497.3	497.4	496.6	493.6	491.0	486.1	484.3	482.5
56°	485.4	488.8	490.4	490.2	490.5	489.3	486.3	483.4	478.8	476.8	475.1
56.5°	478.1	481.5	483.1	483.0	483.4	481.9	478.8	476.4	471.5	469.3	467.8
57°	470.5	474.1	476.0	475.8	476.2	474.8	471.8	469.0	464.6	462.0	460.3
57.5°	463.2	466.9	468.6	468.3	468.8	467.3	464.2	461.6	457.0	454.5	453.1
58°	456.0	459.7	461.3	461.1	461.2	460.1	457.0	454.1	449.7	447.1	445.7
58.5°	448.7	452.5	454.1	453.7	453.9	452.7	449.7	446.9	442.4	439.8	438.3
59°	441.0	444.8	446.5	446.1	446.8	445.0	442.1	439.1	434.9	432.6	431.0
59.5°	433.6	437.2	439.0	438.7	439.2	437.6	434.5	431.5	427.3	424.4	423.1
60°	425.9	429.6	431.2	431.0	431.5	430.0	426.7	423.8	420.0	417.0	415.5
60.5°	418.4	421.9	423.6	423.4	424.1	422.7	419.5	416.5	412.3	409.6	408.1
61°	411.1	414.5	416.1	415.8	416.7	414.9	411.8	409.0	404.6	401.9	400.6
61.5°	403.2	406.7	408.5	408.4	409.2	407.2	404.2	401.4	397.0	394.1	392.8
62°	395.4	399.0	401.0	400.9	401.6	399.7	396.5	393.6	389.5	386.3	384.7
62.5°	387.6	391.4	393.0	393.0	393.8	391.9	388.6	385.7	381.4	378.7	377.0
63°	379.9	383.6	385.0	385.2	386.0	384.2	380.8	377.9	373.7	370.8	369.2
63.5°	372.0	375.5	377.2	377.4	378.3	376.6	373.2	370.2	365.8	362.8	361.3
64°	364.4	367.9	369.4	369.4	370.3	368.4	365.3	362.2	358.1	355.0	353.5
64.5°	356.5	360.2	361.6	362.0	362.7	360.8	357.5	354.2	350.2	347.1	345.3
65°	348.6	352.1	353.7	354.1	354.6	352.9	349.4	346.2	342.4	339.2	337.6
65.5°	340.6	344.1	345.7	345.9	346.5	345.0	341.6	338.3	334.6	331.3	329.8
66°	332.9	336.2	337.7	337.8	338.7	336.9	333.4	330.2	326.3	323.5	322.1
66.5°	324.6	328.2	329.8	329.9	331.0	328.8	325.7	322.3	318.5	315.3	313.8
67°	316.6	320.2	321.8	322.0	323.0	321.2	317.7	314.2	310.4	307.2	305.5

TEST NUMBER: P869723
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	308.6	312.0	313.5	313.8	315.1	312.9	309.8	306.2	302.4	299.0	297.5
68°	300.3	303.8	305.3	305.4	306.8	304.6	301.6	298.0	294.3	291.2	289.4
68.5°	292.3	295.9	297.3	297.8	299.2	296.6	293.5	289.8	286.4	283.3	281.5
69°	284.3	287.8	289.0	289.8	291.1	288.6	285.1	281.8	278.1	274.9	273.4
69.5°	275.7	279.6	281.0	281.1	282.7	280.5	277.2	273.9	270.1	266.7	264.9
70°	267.6	271.4	272.7	272.9	274.6	272.3	268.9	265.4	261.6	258.7	256.8
70.5°	259.6	263.0	264.3	264.9	266.6	264.2	260.8	257.3	253.7	250.5	248.6
71°	251.2	255.1	256.2	256.7	258.6	256.3	252.9	249.0	245.5	242.4	240.6
71.5°	242.9	246.8	248.0	248.5	250.3	248.0	244.5	240.7	237.3	234.1	232.4
72°	234.9	238.5	239.8	240.2	242.2	240.0	236.3	232.6	229.0	225.6	224.0
72.5°	226.7	230.0	231.5	231.9	234.0	231.7	228.3	224.2	220.6	217.5	215.9
73°	218.4	221.7	223.2	223.6	225.5	223.2	219.6	215.9	212.6	209.3	207.6
73.5°	210.3	213.6	215.1	215.3	217.6	215.1	211.5	207.6	204.5	201.0	199.5
74°	202.1	205.5	206.8	207.2	209.3	207.0	203.4	199.5	196.2	192.8	191.3
74.5°	193.9	197.4	198.8	198.9	201.0	198.9	195.3	191.2	188.0	184.7	183.0
75°	185.4	188.9	190.3	190.5	192.8	190.6	187.1	182.9	179.8	176.4	174.8
75.5°	177.6	180.8	182.3	182.2	184.8	182.3	178.9	175.2	171.7	168.6	166.9
76°	169.4	172.8	174.3	174.2	176.5	174.3	170.8	167.0	163.7	160.5	158.7
76.5°	161.3	164.6	166.1	165.9	168.5	166.1	162.5	159.1	155.5	152.1	150.5
77°	153.2	156.6	158.2	158.0	160.4	158.1	154.6	151.1	147.4	144.3	142.5
77.5°	145.1	148.5	150.0	150.0	152.5	150.1	146.7	142.9	139.7	136.4	134.8
78°	137.3	140.7	141.9	142.2	144.4	142.2	138.7	135.1	131.4	128.7	126.9
78.5°	129.3	132.6	134.2	134.4	136.6	134.1	130.7	126.9	123.7	120.6	119.1
79°	121.7	125.0	126.5	126.6	128.7	126.3	123.1	119.3	115.9	112.9	111.7
79.5°	113.8	117.0	118.6	118.8	120.7	118.6	115.3	111.5	108.3	105.4	103.9
80°	106.2	109.3	110.8	111.0	113.0	111.2	107.4	103.9	100.9	98.3	96.6
80.5°	98.9	101.9	103.3	103.7	105.5	103.6	100.3	96.8	93.5	90.8	89.3
81°	91.5	94.4	95.9	96.3	98.5	96.5	92.9	89.3	86.3	83.6	82.3
81.5°	84.2	87.0	88.6	88.8	90.7	88.9	85.7	82.1	79.0	76.5	75.4
82°	76.8	79.9	81.1	81.1	83.4	81.6	78.8	75.2	71.9	69.5	68.2
82.5°	69.9	72.8	74.1	74.2	76.4	74.7	71.7	68.2	65.1	62.6	61.6
83°	63.3	66.0	67.3	67.4	69.7	67.8	64.9	61.6	58.6	56.2	55.1
83.5°	56.7	59.4	60.6	60.8	62.8	61.0	58.2	54.8	52.0	49.8	48.7
84°	50.4	53.0	54.1	54.3	56.1	54.5	51.7	48.6	45.7	43.8	42.6
84.5°	44.3	46.8	47.8	48.1	49.8	48.4	45.5	42.6	39.8	37.8	36.8
85°	38.5	40.9	41.8	41.8	43.9	42.3	39.6	36.6	34.1	32.1	31.2
85.5°	33.0	35.2	36.1	36.1	37.8	36.3	33.7	31.0	28.7	27.0	26.0
86°	27.9	30.0	30.7	30.8	32.3	30.7	28.3	25.9	24.0	22.2	21.4
86.5°	23.4	25.2	26.0	26.0	26.8	25.6	23.5	21.1	19.3	18.0	17.4
87°	18.9	20.8	21.4	21.4	22.4	21.0	19.2	17.2	15.4	14.1	13.6
87.5°	15.0	16.7	17.2	17.2	17.9	17.2	15.4	13.4	11.8	10.7	10.1
88°	11.3	12.7	13.4	13.3	14.3	13.2	11.7	9.8	8.5	7.4	7.2
88.5°	7.6	9.0	9.5	9.5	10.6	9.8	8.4	6.8	5.6	4.9	4.4
89°	5.2	6.3	6.6	6.5	7.5	6.7	5.5	4.2	3.3	2.7	2.5
89.5°	3.4	4.1	4.4	4.2	4.8	4.1	3.2	2.2	1.5	1.2	1.0

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



TEST NUMBER: P869723
CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3500K

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: P869723
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	923.3	923.3	923.3	923.3	923.3	923.3
0.5°	923.1	923.0	924.0	922.8	922.8	922.5
1°	922.3	922.4	923.4	922.1	922.6	922.5
1.5°	922.2	922.8	923.2	922.0	922.5	922.5
2°	921.9	922.8	922.6	921.8	922.5	922.2
2.5°	921.7	922.0	922.4	921.7	922.2	921.7
3°	921.0	921.3	922.4	920.8	922.1	921.1
3.5°	920.6	920.6	921.7	920.6	921.4	920.7
4°	920.6	919.6	920.8	920.5	920.5	920.4
4.5°	919.5	919.3	920.0	919.3	919.4	919.9
5°	919.0	919.0	919.5	918.3	918.5	919.6
5.5°	917.2	917.5	918.4	917.1	917.9	918.4
6°	916.3	916.6	917.2	916.9	917.5	917.3
6.5°	915.5	915.5	916.5	916.2	916.5	916.6
7°	914.8	914.3	915.4	914.9	915.8	915.5
7.5°	912.9	913.4	913.8	913.9	914.7	914.3
8°	911.9	911.7	912.6	912.4	913.2	913.2
8.5°	910.7	910.6	911.6	910.9	911.9	912.0
9°	908.9	908.9	910.5	909.9	910.4	910.8
9.5°	907.9	907.6	908.2	908.4	908.9	909.2
10°	906.5	906.4	906.6	906.2	907.6	908.2
10.5°	904.7	905.0	904.9	904.3	906.1	907.1
11°	902.8	903.0	903.3	903.2	904.9	905.5
11.5°	901.3	901.3	901.9	901.5	903.6	903.5
12°	899.4	899.3	900.7	899.6	901.7	902.1
12.5°	897.4	897.5	898.0	897.8	899.9	900.2
13°	895.4	895.7	896.6	896.4	898.0	898.4
13.5°	893.7	894.0	894.5	894.2	896.4	896.4
14°	891.3	891.7	892.7	892.5	894.7	895.3
14.5°	889.5	889.6	890.5	890.4	892.8	893.0
15°	887.4	887.4	888.2	887.9	890.5	890.3
15.5°	885.4	884.7	885.9	886.0	887.8	888.0
16°	883.2	882.1	883.8	883.4	885.4	885.4
16.5°	880.5	879.4	881.0	881.6	882.8	883.6
17°	878.1	876.5	878.1	879.6	880.4	880.9
17.5°	875.0	873.6	875.6	876.8	877.8	878.0
18°	872.3	871.0	872.4	874.1	875.0	875.7
18.5°	868.8	868.1	868.8	871.4	872.0	872.7
19°	865.8	865.2	865.9	869.0	869.0	869.6
19.5°	862.8	861.7	863.1	865.8	866.2	867.0
20°	859.8	858.8	860.7	862.7	863.6	864.1
20.5°	856.5	855.9	857.4	860.1	860.2	861.1
21°	853.4	852.7	854.3	857.2	857.0	858.1
21.5°	850.2	849.0	850.9	853.6	853.4	854.4
22°	847.0	845.5	847.1	850.0	850.1	851.1

TEST NUMBER: P869723
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	843.4	842.3	844.1	846.7	847.3	848.0
23°	840.2	839.0	840.9	843.2	844.4	845.0
23.5°	836.3	835.6	836.9	839.6	840.4	841.3
24°	832.8	832.0	833.1	835.5	836.4	837.9
24.5°	828.8	828.4	829.3	831.7	833.2	834.5
25°	825.3	824.9	826.5	828.2	829.9	830.9
25.5°	821.5	820.7	822.7	824.3	826.1	826.4
26°	817.5	816.8	818.9	820.4	822.4	823.0
26.5°	813.2	812.3	815.0	816.3	818.4	818.5
27°	809.5	808.4	810.9	812.5	814.2	814.9
27.5°	805.3	804.0	806.8	808.4	810.3	810.9
28°	801.4	800.1	803.0	804.4	806.6	807.0
28.5°	797.0	795.9	798.4	799.8	802.5	802.5
29°	793.0	791.5	794.1	795.7	798.2	798.2
29.5°	788.3	786.9	789.4	791.3	793.7	794.4
30°	783.9	782.9	785.3	787.0	789.4	790.2
30.5°	779.8	778.3	780.6	782.1	785.2	785.9
31°	775.1	773.7	776.1	777.8	781.1	781.3
31.5°	770.3	769.0	771.4	773.3	776.1	777.2
32°	765.5	764.1	767.3	769.0	771.8	772.4
32.5°	761.0	759.4	762.7	764.2	767.1	767.7
33°	756.3	755.0	758.0	759.6	762.8	763.2
33.5°	751.5	749.8	752.8	754.6	758.3	758.5
34°	746.8	744.7	748.0	749.8	753.4	753.5
34.5°	741.3	739.9	742.9	745.0	748.5	748.5
35°	736.2	735.1	738.1	739.6	743.4	743.4
35.5°	731.2	729.9	732.4	734.5	738.1	738.0
36°	726.1	724.9	727.7	729.8	733.4	733.5
36.5°	721.4	719.5	722.5	724.9	728.5	728.3
37°	716.3	714.2	717.2	719.5	723.1	723.3
37.5°	710.9	709.2	711.5	714.4	717.9	718.1
38°	704.8	703.7	706.1	708.7	712.3	712.1
38.5°	700.0	698.0	700.6	703.2	706.9	706.9
39°	694.5	692.7	695.1	698.0	701.5	701.7
39.5°	688.6	687.2	689.2	692.1	695.6	696.3
40°	683.1	681.3	684.2	686.7	689.9	690.3
40.5°	677.2	675.6	678.1	681.1	684.6	684.8
41°	671.2	670.0	672.4	675.0	678.0	679.6
41.5°	665.8	664.0	666.5	669.6	672.5	674.0
42°	659.8	658.1	660.9	663.7	666.5	667.9
42.5°	653.8	652.5	654.6	657.5	660.7	662.1
43°	648.4	646.7	648.9	651.6	654.8	656.3
43.5°	642.3	640.7	642.8	646.0	649.3	650.2
44°	635.7	634.4	636.7	640.1	643.5	644.6
44.5°	629.9	628.3	630.7	633.7	637.4	638.9

TEST NUMBER: P869723
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	623.8	622.0	624.6	627.9	631.0	632.5
45.5°	617.9	615.7	618.6	621.9	624.5	625.9
46°	611.1	609.2	612.3	615.2	618.2	620.3
46.5°	604.8	603.2	605.9	609.0	612.1	613.9
47°	598.5	596.4	599.1	602.4	605.9	607.8
47.5°	591.7	590.2	592.9	596.3	599.4	600.9
48°	585.2	583.4	586.1	589.7	592.9	594.8
48.5°	578.8	577.0	579.7	583.3	586.8	588.6
49°	572.1	570.9	573.2	576.6	580.4	581.8
49.5°	565.5	564.0	566.5	570.2	573.6	575.2
50°	558.8	557.1	559.6	563.4	567.0	568.7
50.5°	552.0	550.5	553.0	556.9	560.3	562.0
51°	545.2	543.8	546.1	550.2	553.6	555.0
51.5°	538.6	536.9	539.1	543.1	546.7	548.4
52°	531.5	529.7	532.4	536.0	539.8	541.6
52.5°	524.3	523.1	525.7	529.3	532.6	534.4
53°	517.9	516.0	518.6	522.2	526.1	527.0
53.5°	510.7	508.8	511.6	515.4	518.8	520.6
54°	503.4	501.7	504.4	508.0	511.6	513.7
54.5°	496.3	494.6	497.3	501.0	504.6	506.9
55°	489.6	487.6	490.4	494.0	497.3	499.3
55.5°	482.2	480.5	483.4	486.8	490.7	492.3
56°	474.8	473.4	475.9	479.9	483.5	485.4
56.5°	467.5	465.9	468.6	472.5	476.1	478.1
57°	460.5	458.4	461.2	465.2	468.4	470.5
57.5°	452.9	451.3	453.9	457.5	461.1	463.2
58°	445.4	443.7	446.5	450.1	453.7	456.0
58.5°	438.0	436.1	439.1	442.7	446.4	448.7
59°	430.6	428.6	431.5	435.0	438.8	441.0
59.5°	422.9	420.8	423.8	427.5	431.1	433.6
60°	415.3	413.2	416.3	420.0	423.4	425.9
60.5°	407.8	405.9	408.2	412.5	415.8	418.4
61°	400.1	398.2	401.0	404.6	408.2	411.1
61.5°	392.3	390.5	393.4	397.1	400.8	403.2
62°	384.6	382.8	385.6	389.2	393.0	395.4
62.5°	377.0	375.1	377.8	381.4	385.1	387.6
63°	369.0	367.1	369.8	373.2	377.3	379.9
63.5°	361.3	359.3	362.0	365.4	369.4	372.0
64°	353.2	351.1	353.9	357.8	361.6	364.4
64.5°	345.2	343.4	346.1	349.6	353.6	356.5
65°	337.5	335.6	338.1	341.4	345.8	348.6
65.5°	329.4	327.5	330.3	333.6	337.6	340.6
66°	321.4	319.7	322.1	325.7	329.7	332.9
66.5°	313.4	311.1	314.2	317.5	321.6	324.6
67°	305.1	303.3	305.9	309.3	313.6	316.6

TEST NUMBER: P869723
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	297.4	295.3	297.9	301.4	305.6	308.6
68°	289.3	286.8	289.8	293.2	297.6	300.3
68.5°	281.0	278.9	281.4	285.0	289.2	292.3
69°	272.9	270.6	273.2	276.8	281.0	284.3
69.5°	264.6	262.3	265.1	268.6	272.7	275.7
70°	256.6	254.2	257.2	260.6	264.4	267.6
70.5°	248.6	246.0	248.8	252.2	256.5	259.6
71°	240.3	237.8	240.8	244.3	248.2	251.2
71.5°	232.1	229.5	232.2	235.6	240.0	242.9
72°	223.9	221.5	223.9	227.4	231.7	234.9
72.5°	215.5	213.3	215.9	219.3	223.5	226.7
73°	207.3	205.0	207.5	211.0	215.1	218.4
73.5°	199.3	196.8	199.2	202.9	207.0	210.3
74°	191.2	188.5	191.0	194.7	198.5	202.1
74.5°	182.9	180.5	182.8	186.3	190.2	193.9
75°	174.8	172.4	174.8	178.3	182.0	185.4
75.5°	167.0	164.4	166.5	170.3	174.1	177.6
76°	158.7	156.1	158.5	162.0	165.8	169.4
76.5°	150.6	148.2	150.4	154.0	158.0	161.3
77°	142.4	140.2	142.6	146.1	149.9	153.2
77.5°	134.6	132.3	134.7	138.4	142.1	145.1
78°	126.7	124.5	126.9	130.3	134.2	137.3
78.5°	119.0	116.8	119.1	122.4	126.4	129.3
79°	111.4	108.9	111.4	114.8	118.7	121.7
79.5°	103.8	101.4	103.7	107.1	110.9	113.8
80°	96.5	94.1	96.2	99.6	103.2	106.2
80.5°	89.2	86.7	88.9	92.1	95.6	98.9
81°	82.2	79.5	81.6	84.9	88.4	91.5
81.5°	75.0	72.5	74.5	77.8	81.3	84.2
82°	67.9	65.7	67.6	70.8	74.0	76.8
82.5°	61.3	59.1	61.1	63.9	67.3	69.9
83°	54.9	52.6	54.6	57.5	60.7	63.3
83.5°	48.6	46.4	48.1	51.0	54.3	56.7
84°	42.5	40.5	42.2	44.9	47.9	50.4
84.5°	36.7	35.0	36.5	39.1	41.9	44.3
85°	31.0	29.7	31.2	33.6	36.2	38.5
85.5°	25.9	25.0	26.3	28.3	30.9	33.0
86°	21.3	20.3	21.7	23.7	26.1	27.9
86.5°	17.3	16.2	17.3	19.3	21.5	23.4
87°	13.7	12.3	13.5	15.2	17.2	18.9
87.5°	10.1	8.6	9.8	11.6	13.4	15.0
88°	7.0	6.1	6.6	8.0	9.5	11.3
88.5°	4.5	3.9	4.5	5.5	6.6	7.6
89°	2.5	2.3	2.8	3.7	4.4	5.2
89.5°	1.1	1.4	1.8	2.3	2.9	3.4

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869723
CATALOG NUMBER: SMX18RLSFSD2W-2500LM-3500K

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)