

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: P869725

Luminaire Tested: **SMX18RLSFSD2W-2500LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869725
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFSD2W-2500LM-5000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

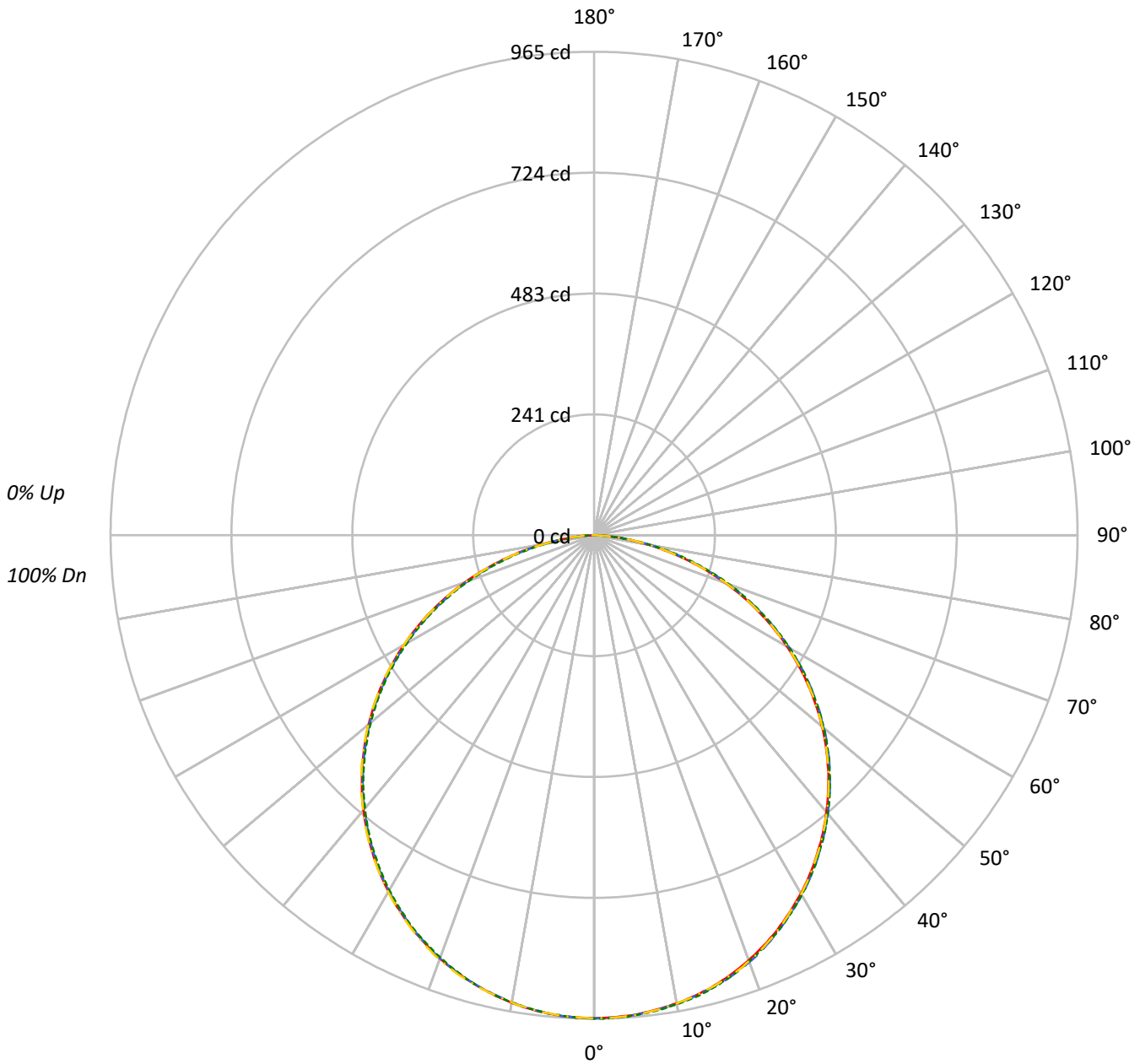
Lumens per Lamp: N/A
 Luminaire Lumens: 2815.0 lumens
 Efficiency: N/A
 Efficacy: 93.2 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 30.2
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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

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Luminous Intensity Polar Plot



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

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					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	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												
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84												
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69												
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58												
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50												
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43												
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37												
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33												
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29												
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26												
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5874	5874	5874	5874
5°	5873	5877	5868	5869
10°	5867	5881	5861	5856
15°	5865	5881	5844	5845
20°	5851	5866	5828	5815
25°	5833	5850	5802	5791
30°	5805	5829	5774	5751
35°	5774	5802	5738	5709
40°	5733	5769	5693	5659
45°	5691	5728	5636	5596
50°	5629	5671	5566	5514
55°	5538	5598	5472	5409
60°	5420	5491	5344	5258
65°	5248	5339	5154	5053
70°	4978	5108	4867	4728
75°	4559	4740	4420	4239
80°	3890	4143	3697	3445
85°	2809	3208	2488	2167

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	3.2
10°-20°	262.3	9.3
20°-30°	399.3	14.2
30°-40°	484.9	17.2
40°-50°	507.6	18.0
50°-60°	463.6	16.5
60°-70°	356.6	12.7
70°-80°	201.7	7.2
80°-90°	47.6	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°	752.9	26.7
0°-40°	1237.8	44.0
0°-60°	2209.0	78.5
0°-90°	2815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2815.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	964	964	964	964	964	
5°	961	961	960	960	961	91
15°	930	933	927	927	930	262
25°	868	870	863	862	868	400
35°	776	780	772	768	776	486
45°	661	665	654	650	661	509
55°	522	527	515	509	522	466
65°	364	370	358	351	364	360
75°	194	201	188	180	194	205
85°	40	46	36	31	40	50
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°	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4
0.5°	963.6	964.3	964.2	964.3	964.9	965.5	964.3	964.6	963.4	964.2	964.4
1°	963.6	964.4	964.1	964.6	965.1	965.2	963.6	964.1	963.6	964.0	964.1
1.5°	963.6	964.8	964.0	964.0	964.7	964.7	964.1	963.7	963.2	964.0	963.9
2°	963.3	964.3	963.8	963.6	964.3	964.7	963.9	963.5	963.0	963.4	963.1
2.5°	962.7	964.1	963.6	963.5	964.3	964.2	963.4	962.7	962.9	963.3	963.1
3°	962.1	963.6	963.6	962.9	963.6	963.2	963.0	962.3	961.9	963.5	962.3
3.5°	961.7	962.9	963.2	962.9	963.0	962.6	962.9	962.1	962.1	962.8	962.1
4°	961.4	962.4	962.4	962.2	963.0	962.4	962.1	961.7	961.7	961.6	961.5
4.5°	960.9	961.3	961.5	962.0	961.8	962.2	961.7	961.1	960.8	960.9	960.8
5°	960.6	960.5	960.6	961.2	961.1	961.4	961.0	959.8	959.7	960.1	960.2
5.5°	959.3	960.3	960.3	960.8	960.6	961.0	960.4	959.3	958.9	959.0	959.1
6°	958.2	959.4	958.7	959.7	959.9	960.0	959.1	958.7	957.7	957.9	957.2
6.5°	957.4	958.3	958.0	958.6	958.7	959.2	957.9	957.9	957.3	956.5	956.2
7°	956.3	957.0	957.1	957.3	957.5	958.1	956.7	956.3	955.9	955.9	955.4
7.5°	955.0	955.8	956.0	956.6	957.2	956.7	956.2	954.7	954.7	954.6	954.2
8°	953.8	954.6	954.5	955.0	955.9	955.8	955.1	954.0	953.3	953.0	952.9
8.5°	952.6	953.7	953.6	953.8	954.5	954.7	953.1	952.6	952.2	951.8	951.7
9°	951.3	952.5	952.0	952.7	953.0	953.4	951.8	951.3	950.5	950.3	950.1
9.5°	949.7	951.2	951.0	951.5	951.8	952.2	950.8	949.8	949.2	948.6	948.5
10°	948.6	949.6	949.4	949.8	950.8	950.6	949.1	947.9	947.6	946.7	946.5
10.5°	947.5	948.0	947.9	948.9	949.5	949.1	947.2	946.6	945.4	945.1	944.8
11°	945.8	946.3	946.4	947.3	947.8	947.4	945.7	944.9	943.7	943.9	942.8
11.5°	943.8	944.7	944.7	945.8	946.5	946.0	944.1	942.6	941.9	942.4	941.1
12°	942.3	943.2	943.0	944.3	944.6	944.2	942.6	940.9	940.3	939.7	939.2
12.5°	940.3	941.2	940.8	942.4	943.4	942.4	940.9	938.7	937.7	937.6	937.5
13°	938.4	939.6	939.1	941.0	941.6	940.8	938.7	936.6	935.9	935.5	935.3
13.5°	936.3	937.4	937.6	938.7	939.3	938.7	936.7	935.1	933.6	933.1	933.5
14°	935.2	935.5	935.7	937.3	937.3	936.7	934.3	933.0	931.4	931.2	931.4
14.5°	932.8	933.1	933.8	935.3	935.3	934.8	932.7	930.4	929.5	928.4	928.6
15°	930.0	930.8	931.8	932.3	932.6	932.3	930.7	928.3	926.8	926.5	926.5
15.5°	927.6	928.9	929.5	930.4	930.9	930.2	928.3	925.5	924.3	924.0	924.2
16°	924.8	927.1	927.7	928.1	927.9	928.1	926.2	922.9	922.0	921.7	921.8
16.5°	922.9	924.5	925.8	925.6	925.5	925.5	923.2	921.0	919.4	919.1	919.0
17°	920.1	921.7	923.2	923.0	923.1	922.8	920.9	918.4	916.5	916.2	915.9
17.5°	917.1	919.1	920.6	920.6	920.2	920.1	918.8	915.5	914.4	913.3	913.5
18°	914.7	916.4	918.0	917.2	917.4	917.2	916.7	912.8	911.4	910.5	910.9
18.5°	911.6	913.3	915.5	914.5	914.0	914.3	913.5	909.5	908.1	907.6	907.7
19°	908.3	910.7	912.7	911.5	911.2	911.1	911.1	906.9	905.4	904.3	905.2
19.5°	905.6	907.6	909.4	908.3	908.5	908.3	907.4	904.1	902.1	901.0	902.3
20°	902.6	904.9	906.5	904.7	905.0	905.2	904.5	900.7	899.1	898.3	899.0
20.5°	899.5	901.2	903.7	901.9	901.8	901.4	901.1	897.5	896.4	895.1	895.8
21°	896.3	897.7	900.6	898.7	898.9	897.8	898.7	894.2	893.1	891.7	892.5
21.5°	892.4	894.3	897.3	895.7	895.2	895.1	895.0	891.2	889.2	888.1	889.3
22°	889.0	891.0	893.9	892.0	892.0	891.4	891.7	888.1	885.4	884.5	885.9

TEST NUMBER: P869725
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	885.8	887.7	890.3	888.5	888.5	887.8	888.1	884.6	882.1	880.7	881.8
23°	882.7	884.6	886.3	885.4	885.0	884.7	884.0	880.7	878.4	877.4	877.8
23.5°	878.7	881.4	883.1	882.0	881.6	881.4	880.7	877.2	874.6	874.3	873.7
24°	875.2	877.6	879.2	878.1	877.9	877.0	876.9	873.9	871.3	869.8	869.9
24.5°	871.7	874.0	874.9	874.3	874.6	872.8	872.8	870.1	867.4	866.0	866.5
25°	867.9	870.0	871.1	870.8	870.4	869.7	868.9	866.6	863.3	862.0	861.7
25.5°	863.2	865.9	867.1	867.2	866.9	866.4	864.9	862.9	859.5	858.2	857.6
26°	859.6	862.3	862.9	863.1	862.8	861.8	860.7	858.8	855.3	854.4	854.2
26.5°	855.0	858.2	858.9	858.8	858.9	857.8	856.4	854.8	851.5	850.3	849.6
27°	851.2	854.4	854.6	855.0	854.3	854.1	852.2	850.6	847.0	846.4	845.3
27.5°	847.0	850.5	850.7	851.6	850.6	849.5	847.6	846.6	842.8	842.5	841.3
28°	842.9	845.9	846.7	847.2	846.6	845.6	843.3	842.1	839.1	838.3	837.0
28.5°	838.2	842.1	841.9	842.7	842.2	841.5	839.6	838.2	834.8	833.8	832.8
29°	833.8	838.1	837.5	838.3	838.1	837.1	835.1	834.0	830.2	829.1	828.2
29.5°	829.7	833.7	833.7	834.3	833.3	832.4	830.7	829.7	825.6	824.6	823.9
30°	825.4	829.1	829.3	829.9	828.7	828.0	826.6	825.0	820.9	820.2	818.8
30.5°	820.9	824.9	824.7	825.4	824.2	823.6	822.2	820.7	816.2	815.7	814.5
31°	816.0	820.3	820.2	820.6	820.1	819.1	817.1	815.9	811.6	810.5	809.9
31.5°	811.8	815.1	815.3	816.1	815.1	814.0	812.6	810.9	807.0	805.7	805.0
32°	806.8	810.1	810.7	811.8	810.2	809.1	807.7	806.2	802.0	801.4	799.8
32.5°	801.8	805.5	805.6	807.1	805.4	804.9	802.7	801.5	797.1	796.6	795.2
33°	797.2	800.6	800.5	802.0	800.8	799.8	797.9	796.3	792.1	791.9	790.1
33.5°	792.3	795.8	795.9	796.9	796.4	795.1	792.7	791.3	786.9	786.7	784.9
34°	787.0	791.1	791.1	792.0	791.1	790.1	787.3	786.8	782.3	781.5	779.5
34.5°	781.8	785.8	785.7	786.8	785.6	785.1	782.6	781.7	777.3	776.3	774.5
35°	776.5	780.8	780.3	781.9	780.3	780.0	777.2	776.0	771.6	771.0	769.2
35.5°	770.8	775.5	775.4	776.9	775.3	774.8	772.0	770.8	766.4	766.0	764.0
36°	766.1	770.4	769.9	771.5	769.8	769.4	766.7	765.4	761.1	760.5	758.6
36.5°	760.8	765.0	764.7	766.0	764.3	764.0	761.4	760.2	755.7	755.5	753.4
37°	755.5	759.8	759.6	760.4	759.4	759.0	756.0	754.8	750.2	749.7	747.4
37.5°	750.1	753.9	753.9	755.2	754.2	753.4	750.7	749.5	744.7	743.6	741.8
38°	743.8	748.3	748.3	749.7	748.4	747.7	745.0	744.1	739.0	738.0	736.2
38.5°	738.3	742.6	742.9	744.4	742.8	742.0	739.4	738.6	733.2	731.8	730.7
39°	732.9	737.3	737.2	738.6	737.2	736.7	733.4	732.7	727.7	726.6	725.0
39.5°	727.3	731.0	731.5	732.8	731.5	730.7	727.9	727.0	721.7	720.9	719.4
40°	721.0	725.1	725.8	726.7	725.5	725.0	722.3	720.9	716.0	714.8	713.3
40.5°	715.3	719.3	719.9	721.0	719.8	719.5	717.0	714.6	710.1	708.4	707.6
41°	709.8	713.5	714.0	715.1	713.8	713.5	710.6	708.2	704.2	702.8	701.3
41.5°	704.0	707.3	708.2	709.0	708.0	707.2	705.0	702.5	698.5	696.6	695.5
42°	697.7	701.1	702.4	703.1	702.1	701.4	698.8	696.3	692.2	690.3	689.2
42.5°	691.6	695.2	696.6	696.9	695.9	695.3	692.9	689.8	686.0	684.5	683.0
43°	685.5	688.8	690.2	690.5	689.7	689.1	686.4	683.9	679.5	678.4	677.0
43.5°	679.1	682.9	683.8	684.6	683.6	682.8	679.8	677.5	673.3	672.3	670.8
44°	673.3	676.8	677.9	678.1	677.4	677.0	673.7	671.5	667.0	666.2	664.3
44.5°	667.4	670.6	671.8	672.1	671.3	670.5	667.5	664.8	660.8	659.7	658.1

TEST NUMBER: P869725
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	660.6	663.6	665.7	666.0	664.9	664.1	661.2	658.4	654.3	653.1	651.5
45.5°	653.8	657.6	659.1	659.4	658.2	657.8	655.0	652.2	648.0	646.0	645.2
46°	647.9	651.2	652.5	652.7	651.8	651.3	648.4	645.7	641.4	639.7	638.6
46.5°	641.2	644.6	646.4	645.9	645.4	644.8	642.2	638.9	634.3	633.0	632.2
47°	634.9	638.1	639.6	639.8	638.8	638.3	635.5	632.7	628.1	626.6	625.6
47.5°	627.7	631.3	633.1	633.3	632.4	631.6	628.5	626.4	621.4	619.9	618.4
48°	621.3	624.9	626.2	626.4	625.6	625.3	622.2	619.4	614.9	613.0	611.6
48.5°	614.8	618.2	619.7	619.5	618.6	618.2	615.4	612.1	607.7	606.2	605.2
49°	607.7	611.2	612.6	612.9	612.0	611.5	608.3	605.4	601.3	599.3	597.9
49.5°	600.8	604.2	605.8	606.2	605.2	604.9	601.6	598.5	594.6	592.5	591.4
50°	594.0	597.6	598.7	599.0	598.4	597.9	594.8	591.8	587.4	585.8	584.3
50.5°	587.0	590.9	592.1	592.3	591.7	590.8	587.7	584.7	580.3	578.4	577.3
51°	579.7	583.7	584.9	585.0	584.7	583.7	580.6	577.9	573.0	571.1	569.9
51.5°	572.8	576.8	578.0	578.2	577.5	576.8	573.2	570.8	566.3	564.4	562.9
52°	565.7	569.5	570.9	571.1	570.5	569.5	566.4	563.8	559.5	556.9	555.9
52.5°	558.2	562.3	563.5	563.7	563.1	562.7	559.5	556.7	552.0	549.9	548.5
53°	550.5	554.9	556.3	556.3	555.6	555.4	552.3	549.1	544.6	542.4	541.2
53.5°	543.8	547.7	549.2	549.4	548.8	548.2	545.0	541.9	537.2	535.2	534.1
54°	536.6	540.2	541.7	541.8	541.6	540.6	537.6	534.4	530.4	527.7	526.5
54.5°	529.5	532.8	534.6	534.4	534.5	533.6	530.4	527.2	522.9	520.0	518.9
55°	521.5	525.6	527.1	526.9	527.1	525.9	523.0	519.8	515.3	512.9	511.8
55.5°	514.3	518.1	519.8	519.4	519.6	518.7	515.6	512.9	507.7	505.9	504.0
56°	507.0	510.5	512.3	512.0	512.4	511.0	507.9	504.9	500.2	498.1	496.2
56.5°	499.4	502.9	504.6	504.5	504.9	503.4	500.2	497.7	492.5	490.2	488.6
57°	491.4	495.2	497.2	497.0	497.4	495.9	492.8	489.9	485.3	482.6	480.7
57.5°	483.9	487.7	489.5	489.2	489.7	488.1	484.9	482.2	477.3	474.7	473.3
58°	476.3	480.1	481.9	481.7	481.8	480.5	477.3	474.3	469.7	467.1	465.5
58.5°	468.7	472.7	474.3	473.9	474.1	472.9	469.7	466.8	462.1	459.4	457.8
59°	460.6	464.6	466.4	465.9	466.7	464.8	461.8	458.6	454.3	451.9	450.1
59.5°	452.9	456.7	458.5	458.2	458.8	457.1	453.9	450.7	446.3	443.3	442.0
60°	444.9	448.7	450.4	450.1	450.7	449.1	445.7	442.7	438.7	435.5	434.0
60.5°	437.1	440.7	442.5	442.3	443.0	441.5	438.2	435.0	430.6	427.8	426.3
61°	429.4	432.9	434.6	434.3	435.2	433.3	430.1	427.2	422.7	419.8	418.4
61.5°	421.2	424.8	426.7	426.6	427.4	425.3	422.2	419.2	414.7	411.7	410.3
62°	413.0	416.7	418.8	418.7	419.4	417.5	414.1	411.1	406.9	403.5	401.8
62.5°	404.8	408.9	410.5	410.5	411.3	409.4	406.0	402.8	398.4	395.6	393.8
63°	396.8	400.7	402.1	402.3	403.1	401.3	397.8	394.7	390.4	387.3	385.6
63.5°	388.5	392.3	394.0	394.2	395.2	393.4	389.8	386.7	382.1	379.0	377.4
64°	380.6	384.3	385.8	385.8	386.8	384.8	381.6	378.4	374.0	370.8	369.2
64.5°	372.3	376.3	377.7	378.1	378.9	376.9	373.4	370.0	365.8	362.6	360.7
65°	364.1	367.8	369.4	369.8	370.4	368.6	365.0	361.7	357.6	354.3	352.6
65.5°	355.7	359.5	361.1	361.3	362.0	360.4	356.8	353.4	349.5	346.1	344.5
66°	347.7	351.2	352.7	352.8	353.8	351.9	348.3	344.9	340.8	337.9	336.4
66.5°	339.0	342.8	344.5	344.6	345.8	343.4	340.2	336.6	332.7	329.4	327.7
67°	330.7	334.5	336.1	336.3	337.4	335.5	331.9	328.1	324.2	320.9	319.1

TEST NUMBER: P869725
 CATALOG NUMBER: SMX18RLSFS2W-2500LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	322.3	325.9	327.4	327.7	329.2	326.8	323.6	319.8	315.9	312.3	310.7
68°	313.7	317.3	318.9	319.0	320.5	318.2	315.1	311.2	307.4	304.2	302.3
68.5°	305.3	309.1	310.5	311.0	312.5	309.8	306.6	302.7	299.2	295.9	294.0
69°	296.9	300.7	301.9	302.7	304.1	301.5	297.7	294.3	290.5	287.2	285.6
69.5°	288.0	292.0	293.5	293.6	295.3	293.0	289.5	286.1	282.1	278.6	276.7
70°	279.5	283.5	284.9	285.1	286.8	284.5	280.8	277.2	273.3	270.3	268.3
70.5°	271.2	274.7	276.1	276.7	278.5	276.0	272.4	268.8	265.0	261.6	259.7
71°	262.4	266.4	267.7	268.2	270.1	267.8	264.1	260.1	256.5	253.2	251.3
71.5°	253.8	257.8	259.1	259.6	261.4	259.0	255.4	251.4	247.8	244.5	242.8
72°	245.4	249.1	250.4	250.9	253.0	250.6	246.8	243.0	239.2	235.6	233.9
72.5°	236.7	240.3	241.8	242.2	244.4	242.0	238.5	234.1	230.4	227.2	225.5
73°	228.1	231.6	233.1	233.5	235.5	233.1	229.4	225.5	222.1	218.6	216.8
73.5°	219.6	223.1	224.7	224.9	227.3	224.7	220.9	216.8	213.6	210.0	208.4
74°	211.1	214.6	216.0	216.4	218.6	216.2	212.5	208.4	204.9	201.4	199.8
74.5°	202.5	206.1	207.7	207.8	210.0	207.8	204.0	199.7	196.4	193.0	191.2
75°	193.7	197.3	198.8	199.0	201.4	199.1	195.5	191.0	187.8	184.3	182.6
75.5°	185.5	188.8	190.4	190.3	193.1	190.4	186.8	183.0	179.4	176.2	174.3
76°	177.0	180.5	182.1	182.0	184.4	182.1	178.4	174.4	171.0	167.7	165.8
76.5°	168.5	171.9	173.5	173.3	176.1	173.5	169.7	166.2	162.5	158.8	157.2
77°	160.0	163.6	165.3	165.1	167.5	165.2	161.5	157.8	154.0	150.7	148.9
77.5°	151.6	155.1	156.7	156.7	159.2	156.8	153.2	149.3	146.0	142.4	140.8
78°	143.4	147.0	148.3	148.6	150.8	148.6	144.8	141.1	137.3	134.5	132.6
78.5°	135.1	138.5	140.2	140.4	142.6	140.1	136.5	132.6	129.2	125.9	124.4
79°	127.1	130.6	132.2	132.3	134.4	132.0	128.5	124.6	121.1	118.0	116.7
79.5°	118.9	122.2	123.9	124.1	126.1	123.9	120.4	116.5	113.1	110.1	108.5
80°	110.9	114.1	115.8	116.0	118.1	116.2	112.2	108.5	105.4	102.7	100.9
80.5°	103.3	106.4	107.9	108.3	110.2	108.2	104.8	101.1	97.6	94.8	93.3
81°	95.5	98.6	100.2	100.6	102.9	100.8	97.0	93.3	90.2	87.3	86.0
81.5°	88.0	90.9	92.5	92.7	94.7	92.9	89.5	85.8	82.5	79.9	78.7
82°	80.2	83.4	84.8	84.8	87.1	85.3	82.3	78.5	75.1	72.6	71.3
82.5°	73.0	76.0	77.4	77.5	79.8	78.0	74.9	71.3	68.0	65.4	64.3
83°	66.1	69.0	70.3	70.4	72.8	70.9	67.7	64.3	61.2	58.7	57.6
83.5°	59.2	62.0	63.3	63.5	65.6	63.7	60.8	57.3	54.4	52.0	50.8
84°	52.6	55.4	56.5	56.7	58.6	57.0	54.1	50.7	47.7	45.8	44.5
84.5°	46.3	48.9	49.9	50.2	52.0	50.5	47.5	44.5	41.6	39.5	38.5
85°	40.2	42.7	43.7	43.7	45.9	44.2	41.4	38.3	35.6	33.5	32.6
85.5°	34.4	36.7	37.7	37.7	39.5	37.9	35.2	32.4	30.0	28.2	27.2
86°	29.2	31.3	32.1	32.2	33.7	32.1	29.6	27.1	25.1	23.2	22.3
86.5°	24.5	26.4	27.2	27.2	28.0	26.8	24.6	22.0	20.1	18.8	18.2
87°	19.7	21.7	22.3	22.3	23.4	21.9	20.0	17.9	16.1	14.7	14.2
87.5°	15.7	17.4	18.0	18.0	18.7	17.9	16.1	14.0	12.3	11.2	10.6
88°	11.8	13.3	14.0	13.9	14.9	13.8	12.2	10.3	8.9	7.8	7.5
88.5°	8.0	9.4	10.0	10.0	11.1	10.3	8.8	7.1	5.8	5.1	4.6
89°	5.4	6.5	6.9	6.7	7.9	7.0	5.7	4.4	3.4	2.8	2.6
89.5°	3.5	4.3	4.6	4.4	5.0	4.3	3.3	2.3	1.6	1.2	1.0

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



TEST NUMBER: P869725
CATALOG NUMBER: SMX18RLSFSD2W-2500LM-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: P869725
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	964.4	964.4	964.4	964.4	964.4	964.4
0.5°	964.2	964.1	965.1	963.9	963.9	963.6
1°	963.4	963.5	964.5	963.2	963.7	963.6
1.5°	963.3	963.9	964.3	963.1	963.6	963.6
2°	962.9	963.9	963.7	962.8	963.6	963.3
2.5°	962.7	963.1	963.5	962.7	963.3	962.7
3°	962.0	962.3	963.5	961.8	963.2	962.1
3.5°	961.6	961.6	962.7	961.6	962.4	961.7
4°	961.6	960.6	961.8	961.5	961.5	961.4
4.5°	960.5	960.3	961.0	960.3	960.4	960.9
5°	959.9	959.9	960.5	959.2	959.4	960.6
5.5°	958.1	958.4	959.3	958.0	958.8	959.3
6°	957.1	957.4	958.1	957.8	958.4	958.2
6.5°	956.3	956.3	957.3	957.0	957.3	957.4
7°	955.6	955.0	956.2	955.7	956.6	956.3
7.5°	953.5	954.0	954.4	954.5	955.4	955.0
8°	952.5	952.3	953.2	953.0	953.8	953.8
8.5°	951.2	951.1	952.2	951.4	952.5	952.6
9°	949.4	949.4	951.0	950.4	950.9	951.3
9.5°	948.3	948.0	948.6	948.8	949.4	949.7
10°	946.9	946.8	947.0	946.6	948.0	948.6
10.5°	945.0	945.3	945.2	944.6	946.5	947.5
11°	943.0	943.2	943.6	943.4	945.2	945.8
11.5°	941.5	941.5	942.1	941.7	943.9	943.8
12°	939.4	939.3	940.8	939.6	941.9	942.3
12.5°	937.3	937.4	938.0	937.7	939.9	940.3
13°	935.3	935.6	936.5	936.3	938.0	938.4
13.5°	933.5	933.8	934.3	934.0	936.3	936.3
14°	931.0	931.4	932.4	932.2	934.5	935.2
14.5°	929.1	929.2	930.2	930.1	932.6	932.8
15°	926.9	926.9	927.8	927.5	930.2	930.0
15.5°	924.8	924.0	925.4	925.5	927.4	927.6
16°	922.5	921.4	923.1	922.7	924.8	924.8
16.5°	919.7	918.6	920.2	920.8	922.1	922.9
17°	917.2	915.5	917.2	918.8	919.6	920.1
17.5°	914.0	912.5	914.6	915.9	916.9	917.1
18°	911.2	909.8	911.3	913.1	914.0	914.7
18.5°	907.5	906.7	907.5	910.2	910.9	911.6
19°	904.3	903.7	904.4	907.7	907.7	908.3
19.5°	901.2	900.1	901.5	904.3	904.8	905.6
20°	898.1	897.1	899.0	901.1	902.1	902.6
20.5°	894.7	894.0	895.6	898.4	898.5	899.5
21°	891.4	890.6	892.3	895.4	895.2	896.3
21.5°	888.0	886.8	888.8	891.6	891.4	892.4
22°	884.7	883.2	884.8	887.8	887.9	889.0

TEST NUMBER: P869725
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	881.0	879.8	881.7	884.4	885.0	885.8
23°	877.6	876.3	878.3	880.8	882.0	882.7
23.5°	873.5	872.8	874.1	876.9	877.8	878.7
24°	869.9	869.1	870.2	872.7	873.6	875.2
24.5°	865.7	865.3	866.3	868.8	870.3	871.7
25°	862.0	861.6	863.3	865.1	866.9	867.9
25.5°	858.1	857.2	859.3	861.0	862.8	863.2
26°	853.9	853.2	855.4	856.9	859.0	859.6
26.5°	849.5	848.4	851.3	852.7	854.8	855.0
27°	845.5	844.4	847.0	848.7	850.5	851.2
27.5°	841.2	839.8	842.7	844.4	846.3	847.0
28°	837.1	835.8	838.8	840.2	842.5	842.9
28.5°	832.4	831.3	834.0	835.4	838.3	838.2
29°	828.3	826.7	829.4	831.1	833.8	833.8
29.5°	823.4	822.0	824.6	826.5	829.0	829.7
30°	818.8	817.7	820.3	822.1	824.6	825.4
30.5°	814.5	812.9	815.3	816.9	820.2	820.9
31°	809.6	808.2	810.7	812.4	815.8	816.0
31.5°	804.6	803.3	805.8	807.7	810.7	811.8
32°	799.6	798.1	801.4	803.3	806.2	806.8
32.5°	794.9	793.2	796.6	798.2	801.2	801.8
33°	790.0	788.7	791.8	793.4	796.8	797.2
33.5°	784.9	783.2	786.3	788.2	792.1	792.3
34°	780.1	777.9	781.3	783.2	786.9	787.0
34.5°	774.3	772.9	776.0	778.2	781.8	781.8
35°	768.9	767.8	770.9	772.6	776.5	776.5
35.5°	763.8	762.4	765.0	767.2	770.9	770.8
36°	758.5	757.2	760.1	762.3	766.0	766.1
36.5°	753.5	751.5	754.6	757.2	761.0	760.8
37°	748.2	746.0	749.1	751.5	755.3	755.5
37.5°	742.6	740.7	743.2	746.2	749.9	750.1
38°	736.2	735.0	737.5	740.2	744.1	743.8
38.5°	731.2	729.1	731.8	734.5	738.3	738.3
39°	725.4	723.5	726.0	729.1	732.7	732.9
39.5°	719.3	717.8	719.9	722.9	726.6	727.3
40°	713.5	711.7	714.7	717.3	720.6	721.0
40.5°	707.3	705.7	708.3	711.5	715.1	715.3
41°	701.1	699.9	702.3	705.0	708.2	709.8
41.5°	695.4	693.5	696.2	699.4	702.5	704.0
42°	689.2	687.4	690.3	693.2	696.2	697.7
42.5°	682.9	681.6	683.8	686.8	690.1	691.6
43°	677.2	675.5	677.8	680.7	684.0	685.5
43.5°	670.9	669.3	671.4	674.8	678.2	679.1
44°	664.0	662.6	665.1	668.6	672.2	673.3
44.5°	657.9	656.3	658.8	661.9	665.8	667.4

TEST NUMBER: P869725
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	651.6	649.6	652.4	655.9	659.1	660.6
45.5°	645.4	643.1	646.1	649.5	652.3	653.8
46°	638.3	636.4	639.6	642.6	645.7	647.9
46.5°	631.7	630.0	632.8	636.2	639.4	641.2
47°	625.2	623.0	625.8	629.2	632.8	634.9
47.5°	618.0	616.4	619.4	622.9	626.1	627.7
48°	611.3	609.4	612.2	615.9	619.3	621.3
48.5°	604.6	602.6	605.5	609.3	612.9	614.8
49°	597.6	596.3	598.7	602.2	606.3	607.7
49.5°	590.7	589.2	591.8	595.6	599.1	600.8
50°	583.7	581.9	584.5	588.4	592.3	594.0
50.5°	576.6	575.0	577.6	581.7	585.2	587.0
51°	569.5	568.0	570.4	574.7	578.3	579.7
51.5°	562.6	560.8	563.1	567.3	571.0	572.8
52°	555.1	553.3	556.1	559.9	563.8	565.7
52.5°	547.7	546.4	549.1	552.8	556.3	558.2
53°	540.9	538.9	541.7	545.5	549.5	550.5
53.5°	533.4	531.5	534.4	538.3	541.9	543.8
54°	525.8	524.0	526.8	530.7	534.4	536.6
54.5°	518.4	516.6	519.4	523.3	527.0	529.5
55°	511.4	509.3	512.3	516.0	519.4	521.5
55.5°	503.7	501.9	504.9	508.4	512.6	514.3
56°	495.9	494.4	497.1	501.3	505.0	507.0
56.5°	488.3	486.7	489.5	493.5	497.3	499.4
57°	481.0	478.8	481.8	485.9	489.3	491.4
57.5°	473.1	471.4	474.1	477.8	481.7	483.9
58°	465.2	463.4	466.4	470.2	473.9	476.3
58.5°	457.5	455.5	458.7	462.4	466.2	468.7
59°	449.7	447.7	450.7	454.4	458.3	460.6
59.5°	441.7	439.6	442.7	446.5	450.2	452.9
60°	433.8	431.6	434.8	438.7	442.3	444.9
60.5°	426.0	424.0	426.4	430.8	434.3	437.1
61°	417.9	415.9	418.8	422.7	426.4	429.4
61.5°	409.8	407.9	410.9	414.8	418.6	421.2
62°	401.7	399.8	402.7	406.6	410.5	413.0
62.5°	393.8	391.8	394.6	398.4	402.2	404.8
63°	385.4	383.4	386.2	389.8	394.1	396.8
63.5°	377.4	375.3	378.1	381.7	385.8	388.5
64°	368.9	366.7	369.6	373.7	377.7	380.6
64.5°	360.6	358.6	361.5	365.2	369.3	372.3
65°	352.5	350.6	353.1	356.6	361.2	364.1
65.5°	344.1	342.0	345.1	348.5	352.6	355.7
66°	335.7	333.9	336.4	340.2	344.4	347.7
66.5°	327.3	324.9	328.1	331.7	335.9	339.0
67°	318.7	316.8	319.5	323.1	327.5	330.7

TEST NUMBER: P869725
 CATALOG NUMBER: SMX18RLSFSD2W-2500LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	310.6	308.4	311.1	314.9	319.2	322.3
68°	302.2	299.6	302.7	306.3	310.8	313.7
68.5°	293.5	291.3	293.9	297.6	302.1	305.3
69°	285.1	282.6	285.4	289.1	293.5	296.9
69.5°	276.4	274.0	276.9	280.5	284.9	288.0
70°	268.1	265.5	268.7	272.2	276.2	279.5
70.5°	259.7	257.0	259.9	263.4	268.0	271.2
71°	251.0	248.4	251.5	255.2	259.3	262.4
71.5°	242.4	239.8	242.6	246.1	250.6	253.8
72°	233.8	231.4	233.8	237.6	242.0	245.4
72.5°	225.1	222.8	225.5	229.1	233.4	236.7
73°	216.5	214.1	216.7	220.4	224.7	228.1
73.5°	208.2	205.5	208.1	211.9	216.2	219.6
74°	199.7	196.9	199.5	203.3	207.4	211.1
74.5°	191.0	188.5	190.9	194.6	198.7	202.5
75°	182.6	180.1	182.6	186.2	190.1	193.7
75.5°	174.4	171.7	173.9	177.9	181.9	185.5
76°	165.8	163.1	165.6	169.2	173.2	177.0
76.5°	157.3	154.8	157.1	160.9	165.1	168.5
77°	148.8	146.5	149.0	152.6	156.6	160.0
77.5°	140.6	138.2	140.7	144.5	148.5	151.6
78°	132.4	130.1	132.6	136.1	140.2	143.4
78.5°	124.3	122.0	124.4	127.8	132.1	135.1
79°	116.4	113.7	116.4	119.9	124.0	127.1
79.5°	108.4	105.9	108.3	111.8	115.9	118.9
80°	100.8	98.2	100.5	104.1	107.8	110.9
80.5°	93.2	90.6	92.9	96.2	99.9	103.3
81°	85.9	83.0	85.3	88.7	92.3	95.5
81.5°	78.3	75.7	77.8	81.2	85.0	88.0
82°	71.0	68.6	70.6	74.0	77.3	80.2
82.5°	64.0	61.7	63.8	66.7	70.3	73.0
83°	57.4	55.0	57.1	60.1	63.4	66.1
83.5°	50.7	48.5	50.2	53.2	56.7	59.2
84°	44.4	42.3	44.1	46.9	50.0	52.6
84.5°	38.4	36.5	38.1	40.9	43.8	46.3
85°	32.4	31.0	32.6	35.1	37.8	40.2
85.5°	27.1	26.1	27.5	29.6	32.3	34.4
86°	22.2	21.2	22.6	24.8	27.3	29.2
86.5°	18.1	16.9	18.1	20.1	22.4	24.5
87°	14.3	12.9	14.1	15.9	18.0	19.7
87.5°	10.6	9.0	10.3	12.1	14.0	15.7
88°	7.3	6.3	6.9	8.4	10.0	11.8
88.5°	4.7	4.0	4.7	5.7	6.9	8.0
89°	2.6	2.4	2.9	3.8	4.6	5.4
89.5°	1.1	1.5	1.9	2.4	3.0	3.5

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869725
CATALOG NUMBER: SMX18RLSFSD2W-2500LM-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)