

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: P869752

Luminaire Tested: **SMX18SLSFSD2W-2500LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869752
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFSD2W-2500LM-3000K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

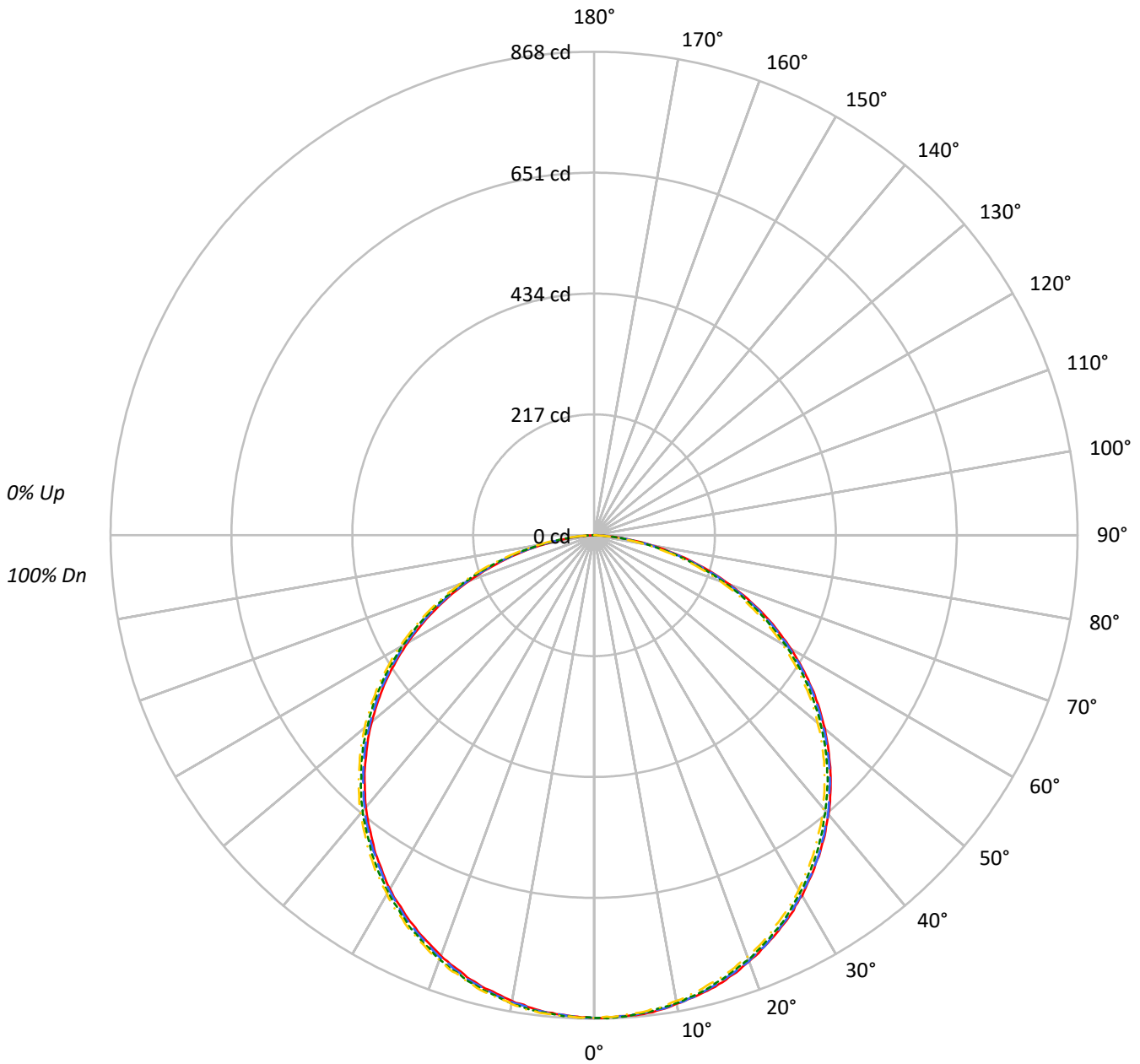
Lumens per Lamp: N/A
 Luminaire Lumens: 2530.0 lumens
 Efficiency: N/A
 Efficacy: 84.3 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 30
 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	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	33	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°	4146	4146	4146	4146
5°	4154	4145	4134	4144
10°	4149	4145	4123	4147
15°	4157	4130	4109	4132
20°	4144	4129	4092	4125
25°	4135	4114	4067	4109
30°	4128	4089	4051	4086
35°	4110	4070	4017	4066
40°	4090	4036	3981	4038
45°	4061	4002	3933	4005
50°	4026	3957	3877	3948
55°	3976	3902	3807	3891
60°	3906	3812	3700	3796
65°	3806	3686	3549	3672
70°	3628	3490	3321	3473
75°	3360	3190	2974	3150
80°	2948	2700	2419	2653
85°	2256	1905	1493	1833

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	3.2
10°-20°	235.6	9.3
20°-30°	358.7	14.2
30°-40°	435.5	17.2
40°-50°	456.1	18.0
50°-60°	417.0	16.5
60°-70°	321.0	12.7
70°-80°	181.5	7.2
80°-90°	42.7	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°	676.3	26.7
0°-40°	1111.8	43.9
0°-60°	1984.8	78.5
0°-90°	2530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2530.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	867	867	867	867	867	
5°	865	863	861	863	865	82
15°	839	834	830	834	839	237
25°	783	779	770	778	783	361
35°	704	697	688	696	704	440
45°	600	592	581	592	600	463
55°	477	468	456	466	477	426
65°	336	326	314	324	336	332
75°	182	173	161	170	182	192
85°	41	35	27	33	41	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°	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7
0.5°	866.5	866.2	866.8	866.1	866.9	867.7	866.1	866.7	866.1	866.5	865.6
1°	867.2	865.7	866.9	866.6	866.5	866.9	865.4	866.0	865.5	866.1	866.7
1.5°	866.4	866.4	866.0	866.6	867.6	866.7	864.8	865.8	865.8	865.4	866.4
2°	865.9	865.4	865.7	866.4	867.2	866.3	866.0	864.8	864.6	864.7	864.7
2.5°	865.8	866.1	865.4	866.4	866.5	866.3	865.0	864.7	864.4	864.4	864.5
3°	864.6	866.3	865.2	865.5	865.7	865.5	863.9	865.3	864.2	863.5	864.6
3.5°	865.1	866.5	864.9	865.4	865.9	864.7	863.9	864.6	863.2	863.3	863.3
4°	864.8	865.5	864.6	865.6	865.4	864.2	862.1	863.9	862.4	863.7	862.4
4.5°	864.7	865.4	863.5	865.4	864.4	864.0	862.1	862.2	862.4	862.8	862.3
5°	865.1	864.6	863.5	864.0	863.1	863.7	861.4	861.7	860.9	860.7	863.0
5.5°	864.5	864.0	862.8	862.5	862.4	862.5	861.0	860.4	860.8	859.7	861.7
6°	864.0	864.0	862.2	862.7	862.4	860.8	860.4	860.1	860.1	858.9	860.1
6.5°	863.2	863.7	861.5	861.2	861.4	861.0	859.1	858.9	858.8	858.2	859.4
7°	862.7	863.0	860.7	860.8	860.4	859.9	856.7	857.3	857.7	856.8	859.3
7.5°	861.2	860.9	859.4	859.2	858.2	859.2	856.6	856.4	856.0	855.7	857.7
8°	860.2	859.2	858.9	858.9	856.9	858.1	855.9	854.9	855.1	854.7	855.2
8.5°	859.3	858.0	858.5	856.8	856.3	857.0	854.5	854.0	852.5	853.8	854.3
9°	858.0	856.6	857.1	856.2	855.2	855.8	852.4	853.0	851.5	852.0	853.0
9.5°	856.0	856.1	855.2	854.3	854.3	854.6	850.1	850.8	851.2	850.9	852.6
10°	854.1	854.2	853.5	853.7	853.2	853.0	849.1	849.2	848.8	850.2	851.1
10.5°	853.1	853.1	853.0	851.5	851.7	850.6	848.0	847.6	847.1	848.3	849.4
11°	851.6	851.6	851.7	850.8	849.8	849.4	846.2	847.1	845.4	845.8	847.4
11.5°	849.7	850.8	849.4	848.4	847.0	848.1	844.6	844.8	842.7	844.8	845.8
12°	849.0	848.6	848.4	846.6	846.2	846.7	842.1	844.0	841.6	842.4	844.8
12.5°	847.5	846.8	847.7	845.1	845.0	845.0	840.2	842.3	839.3	840.7	842.6
13°	845.9	846.4	845.5	843.1	843.1	843.0	838.9	839.7	837.7	839.3	839.9
13.5°	844.2	844.8	842.6	841.5	841.3	840.8	836.6	838.3	836.9	837.6	837.4
14°	842.6	843.0	840.7	840.3	839.5	837.2	833.6	835.9	834.8	836.1	836.3
14.5°	840.7	840.3	838.4	837.5	837.2	835.9	831.4	833.3	832.2	833.4	834.2
15°	839.4	838.0	836.7	836.4	833.8	834.3	830.0	831.2	829.7	830.3	832.7
15.5°	836.6	836.2	834.8	833.6	831.9	831.9	828.4	828.7	828.0	828.0	830.7
16°	835.1	833.8	832.1	831.8	830.5	830.0	826.0	826.4	825.8	826.5	828.4
16.5°	832.5	831.5	829.9	828.9	827.6	827.8	823.5	824.2	822.1	824.2	825.8
17°	829.3	828.7	827.4	827.5	825.1	825.3	821.2	822.2	819.3	820.9	822.4
17.5°	827.5	826.6	825.4	823.9	822.0	822.7	818.9	819.7	816.9	818.1	820.1
18°	825.8	824.5	822.9	821.5	820.3	819.7	816.7	816.6	814.3	815.5	817.8
18.5°	822.8	822.1	820.5	818.8	817.1	817.4	812.8	813.2	812.2	812.8	814.2
19°	819.3	820.0	817.8	816.3	815.4	814.5	810.2	810.5	809.0	810.2	810.7
19.5°	816.6	817.7	815.8	813.6	812.5	812.0	807.9	807.5	806.6	807.5	808.7
20°	814.0	814.2	813.4	811.6	811.1	809.5	805.1	804.6	803.7	804.4	806.7
20.5°	811.0	810.9	809.5	808.2	807.9	806.3	802.5	801.8	799.8	801.4	804.6
21°	809.1	807.8	806.8	805.5	804.4	803.3	799.7	798.6	797.0	799.4	800.9
21.5°	806.2	805.5	804.4	803.6	801.3	800.2	796.5	795.3	793.8	796.6	797.3
22°	802.2	802.1	801.4	800.6	798.4	796.4	794.0	793.7	790.6	792.5	794.5

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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°	799.0	799.0	799.1	797.0	794.8	793.0	790.7	790.0	787.5	789.2	790.8
23°	796.2	795.8	795.6	793.4	791.6	791.0	787.0	787.2	784.4	786.5	788.0
23.5°	793.0	793.3	791.7	790.1	788.9	787.7	783.6	784.1	781.6	783.8	784.6
24°	789.9	790.3	788.4	787.7	785.1	784.1	780.5	779.9	778.3	779.6	781.5
24.5°	786.9	786.6	785.0	783.8	781.9	780.8	775.7	775.8	773.8	775.3	777.7
25°	783.4	782.5	781.9	780.2	779.3	777.2	772.4	773.2	770.5	771.9	773.9
25.5°	779.8	779.3	778.2	776.4	775.6	773.9	769.6	770.1	767.8	768.6	770.4
26°	776.8	776.2	774.7	773.1	772.8	770.3	765.8	766.3	764.0	765.5	768.0
26.5°	773.4	773.2	771.9	769.4	768.3	766.1	762.0	762.7	760.6	761.3	763.8
27°	769.5	769.4	768.4	766.0	765.0	761.9	758.7	758.9	756.1	757.2	759.4
27.5°	766.3	766.5	763.9	762.8	760.8	757.9	755.1	755.0	751.9	753.6	755.3
28°	762.9	761.4	760.2	759.4	755.7	754.2	751.2	750.3	748.9	751.1	751.7
28.5°	757.4	757.6	756.4	755.5	751.5	749.8	747.2	746.6	745.2	747.0	747.2
29°	754.2	754.1	752.2	751.3	748.2	746.8	743.3	742.7	741.8	743.1	743.7
29.5°	749.5	751.0	749.0	747.3	744.1	743.1	739.4	738.4	736.8	738.8	739.7
30°	747.2	746.7	744.5	742.7	740.3	738.0	735.0	734.1	733.3	734.1	735.5
30.5°	742.6	742.0	740.3	738.1	736.7	733.7	730.1	730.0	729.2	729.5	730.6
31°	737.7	737.3	736.2	734.3	732.0	729.2	725.9	725.2	724.8	725.4	727.2
31.5°	733.5	732.7	732.5	729.9	727.6	724.9	720.9	720.4	719.9	720.5	722.4
32°	729.4	729.0	727.4	726.2	723.0	721.5	716.7	716.7	715.4	716.1	718.1
32.5°	725.2	724.9	724.0	721.3	718.3	717.7	712.4	711.4	710.3	712.1	713.1
33°	721.1	720.7	720.2	717.4	714.7	713.0	708.3	707.0	705.9	707.5	709.3
33.5°	716.5	716.3	715.7	712.4	709.9	708.5	703.5	703.7	701.5	702.8	703.9
34°	711.4	712.5	710.9	708.1	706.2	703.4	699.4	699.4	696.8	698.5	699.6
34.5°	706.8	708.1	706.8	703.1	701.5	699.1	695.4	694.2	692.9	693.4	695.2
35°	703.8	703.3	702.3	698.1	696.9	694.5	690.0	689.2	687.9	689.0	690.9
35.5°	699.2	698.5	697.7	694.5	692.0	689.3	684.7	683.8	682.0	685.0	685.9
36°	693.6	693.5	692.9	689.9	687.2	683.5	680.1	680.3	677.3	680.2	681.8
36.5°	688.7	689.0	687.0	685.5	681.7	678.8	674.8	674.9	672.4	674.8	676.0
37°	684.8	684.7	682.4	680.0	676.8	674.1	669.8	670.4	667.2	669.1	670.8
37.5°	680.1	679.0	678.2	674.9	672.4	668.8	665.4	664.6	662.5	664.2	666.2
38°	674.9	674.3	672.8	670.7	667.2	663.9	661.0	658.8	657.9	659.8	661.6
38.5°	669.0	669.5	667.6	664.8	661.3	658.9	655.8	653.8	652.6	655.4	656.9
39°	664.3	664.0	663.4	659.8	656.0	654.5	650.2	649.1	647.4	650.3	651.6
39.5°	659.1	658.8	658.4	654.2	651.2	649.3	645.1	643.7	642.7	643.9	645.8
40°	654.9	653.5	653.4	649.0	646.3	643.7	640.2	638.6	637.5	638.8	640.3
40.5°	649.9	648.9	648.1	643.7	640.6	638.1	634.3	633.8	631.9	633.2	635.2
41°	644.5	643.7	642.1	639.5	635.6	632.7	628.4	627.9	626.8	627.2	629.9
41.5°	639.2	638.4	636.8	634.2	630.2	628.0	623.3	621.9	620.2	622.2	624.4
42°	633.6	632.5	631.4	628.6	625.1	621.7	617.8	616.9	614.8	616.7	618.9
42.5°	628.2	627.7	625.4	623.7	619.7	616.4	612.2	611.0	609.1	611.7	614.2
43°	622.7	622.9	619.9	617.5	614.2	611.9	606.6	605.9	604.0	605.5	607.8
43.5°	616.9	617.2	615.4	611.6	609.3	606.3	601.3	599.6	598.7	600.5	602.5
44°	611.6	611.1	609.6	605.9	603.5	599.8	595.7	594.1	593.3	595.0	596.7
44.5°	606.0	605.7	603.7	600.2	596.7	593.9	590.4	588.5	587.2	589.8	591.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	600.2	599.3	597.8	594.7	591.6	588.3	584.4	583.0	581.4	583.3	585.6
45.5°	594.9	594.1	591.8	589.9	586.3	583.3	578.9	577.0	575.2	577.9	579.6
46°	588.7	588.8	586.1	583.6	580.6	577.4	572.0	570.9	569.0	572.0	574.3
46.5°	582.4	582.0	580.4	577.0	574.9	571.5	566.5	565.0	563.2	566.2	568.3
47°	576.8	576.2	574.1	571.5	569.1	565.5	560.3	559.0	557.5	560.1	562.7
47.5°	571.1	570.3	567.9	565.1	562.8	559.3	554.3	553.0	551.9	553.5	556.2
48°	565.2	564.9	561.7	559.5	556.4	553.5	548.9	547.5	545.7	547.5	549.7
48.5°	558.5	558.5	556.2	553.5	549.8	547.0	542.5	541.5	539.9	541.0	544.3
49°	552.6	552.7	550.4	547.4	543.9	540.7	536.8	535.4	533.4	535.2	537.6
49.5°	546.6	546.8	544.1	541.2	537.6	534.1	530.1	529.0	527.1	529.4	530.8
50°	540.9	540.6	537.4	534.7	531.7	528.5	523.6	523.2	520.9	523.4	525.0
50.5°	534.1	534.1	531.4	528.3	526.1	522.9	517.8	516.8	514.3	516.6	519.0
51°	527.6	527.7	524.9	522.3	519.9	516.0	511.0	509.9	508.0	509.7	512.5
51.5°	521.7	521.5	519.1	515.9	513.8	509.4	505.5	503.3	501.6	503.6	506.0
52°	515.9	514.7	512.8	509.7	506.5	503.8	499.3	497.5	495.0	497.3	499.6
52.5°	509.5	508.6	506.4	503.4	499.6	497.1	493.0	491.2	488.9	490.4	493.0
53°	503.0	502.5	499.7	496.7	493.3	489.7	486.1	484.3	482.1	484.9	486.7
53.5°	496.0	495.8	493.4	490.8	487.1	483.3	479.8	477.0	475.9	478.3	480.1
54°	490.0	489.7	487.4	483.6	480.3	477.4	472.8	470.7	469.0	471.1	473.9
54.5°	483.9	483.1	480.8	476.8	474.5	471.1	465.3	463.7	463.0	464.1	467.1
55°	476.7	476.3	474.6	470.1	467.8	464.3	458.8	457.7	456.4	457.6	460.1
55.5°	469.7	469.1	467.4	464.0	460.8	456.9	452.4	450.5	449.3	450.8	453.0
56°	463.6	462.4	460.1	457.1	453.6	450.0	445.9	443.9	442.7	444.1	446.9
56.5°	456.6	456.1	453.8	450.0	447.0	443.0	438.8	437.8	435.8	437.8	440.1
57°	449.6	449.5	446.6	443.0	440.3	436.5	432.0	430.7	428.5	431.1	433.6
57.5°	442.9	442.6	440.1	436.2	433.7	430.0	424.7	423.0	421.8	423.8	426.4
58°	436.2	435.1	433.3	429.1	426.6	422.6	417.6	416.1	414.8	416.5	419.0
58.5°	429.0	427.9	425.9	422.2	419.3	415.1	410.6	409.3	408.1	409.4	412.0
59°	422.2	421.7	418.7	415.3	412.7	408.5	404.1	402.2	400.5	402.6	404.8
59.5°	415.5	414.4	412.1	408.9	405.8	401.5	396.9	395.4	393.6	395.9	397.7
60°	408.2	407.4	404.6	401.9	398.4	394.4	390.4	388.4	386.7	388.9	391.3
60.5°	401.3	400.0	397.5	394.8	390.6	387.6	383.1	381.3	379.6	381.1	384.2
61°	394.2	392.6	390.3	387.2	383.7	380.4	376.1	373.8	372.5	374.4	377.1
61.5°	386.4	385.4	383.1	379.8	376.6	373.1	369.1	366.2	364.8	367.0	369.8
62°	379.7	378.3	376.0	372.4	369.4	365.8	361.8	359.3	357.6	359.8	362.4
62.5°	372.3	371.1	368.6	365.4	361.9	358.8	354.3	352.0	350.2	352.5	354.8
63°	365.2	363.8	361.3	358.2	354.9	351.4	346.8	345.0	343.1	344.9	347.3
63.5°	358.5	356.3	354.1	350.4	347.9	344.1	339.7	337.4	336.1	337.3	340.5
64°	350.5	349.4	346.8	343.3	340.9	336.6	331.9	330.0	328.6	330.2	333.3
64.5°	343.3	342.0	339.5	335.7	332.9	329.4	324.2	322.5	320.8	322.5	325.7
65°	336.2	335.0	332.1	328.1	325.6	321.9	316.7	315.1	313.5	315.2	318.1
65.5°	328.8	327.3	324.9	320.5	318.2	314.2	309.1	307.7	306.2	307.9	310.7
66°	320.5	319.8	316.8	312.9	310.6	306.7	301.7	299.9	298.9	300.3	303.2
66.5°	312.8	312.1	309.2	305.7	303.0	299.2	294.1	292.5	291.4	292.6	295.3
67°	305.7	304.2	301.6	298.0	295.7	291.6	287.2	284.7	283.9	285.0	287.9

TEST NUMBER: P869752
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	297.9	296.6	293.9	290.0	288.1	284.1	279.6	277.0	276.3	277.3	280.1
68°	290.2	289.1	286.2	282.3	280.6	276.4	271.9	269.8	268.6	270.1	272.8
68.5°	282.5	281.5	278.8	275.1	272.8	268.8	264.1	262.3	260.7	262.2	265.4
69°	275.0	274.2	271.2	267.8	265.6	261.0	256.3	254.2	252.9	254.4	257.7
69.5°	267.6	266.5	263.4	259.3	257.4	252.9	248.6	246.3	245.2	246.5	250.2
70°	259.4	258.7	255.6	251.6	249.5	245.5	240.8	238.9	237.4	238.9	242.0
70.5°	251.7	251.1	247.7	244.0	242.0	238.1	233.6	231.3	230.1	231.5	234.5
71°	244.0	243.3	240.4	236.6	234.4	230.5	225.8	223.7	222.5	223.8	226.7
71.5°	236.5	235.8	232.6	228.3	226.5	222.6	217.9	215.7	214.6	216.1	218.9
72°	228.9	227.7	224.6	220.6	218.9	214.6	210.1	207.9	207.2	208.4	211.5
72.5°	221.2	219.6	216.7	213.1	211.2	207.1	202.6	200.6	199.3	200.8	203.8
73°	213.3	211.7	208.9	205.1	203.5	199.6	195.1	192.6	191.4	193.2	196.1
73.5°	205.3	204.0	201.5	197.4	195.5	191.6	187.4	184.8	183.7	185.9	188.3
74°	197.6	196.2	193.2	189.7	187.8	183.9	179.8	177.3	176.1	178.0	180.6
74.5°	189.8	188.5	185.7	181.6	180.3	176.4	172.1	169.8	168.7	170.3	172.8
75°	181.8	180.6	178.0	173.7	172.6	168.4	164.3	162.2	160.9	162.7	165.2
75.5°	174.2	173.2	170.3	166.3	164.9	160.9	157.1	154.3	153.5	155.4	157.8
76°	166.7	165.6	162.7	158.6	157.2	153.2	149.3	146.7	145.9	147.6	150.2
76.5°	158.9	157.9	155.1	151.0	149.8	145.7	141.7	139.6	138.3	139.9	142.5
77°	151.6	150.0	147.5	143.4	142.1	138.0	134.3	131.9	130.9	132.3	134.9
77.5°	144.1	142.4	140.1	136.0	134.5	130.5	126.9	124.5	123.5	125.1	127.7
78°	136.4	134.9	132.5	128.6	127.1	123.2	119.7	117.0	116.2	117.6	120.2
78.5°	128.9	127.5	125.1	121.2	119.9	115.8	112.1	109.9	108.9	110.3	112.8
79°	121.6	120.1	117.6	113.7	112.4	108.3	104.8	102.6	101.6	103.0	105.5
79.5°	114.3	112.9	110.4	106.5	105.1	101.3	97.8	95.7	94.7	96.3	98.5
80°	107.0	105.3	103.1	99.4	98.0	94.4	90.9	88.8	87.8	89.4	91.8
80.5°	99.9	98.3	96.2	92.4	91.2	87.4	84.1	81.9	80.8	82.6	85.0
81°	92.7	91.2	89.4	85.5	84.4	80.7	77.2	75.1	74.3	75.8	78.2
81.5°	85.7	84.5	82.3	78.7	77.5	73.9	70.5	68.6	67.9	69.0	71.4
82°	78.9	77.7	75.2	71.8	70.8	67.3	64.0	62.0	61.3	62.6	64.9
82.5°	72.0	71.1	68.4	65.0	64.3	60.8	57.9	55.8	55.0	56.3	58.5
83°	65.2	64.0	61.9	58.7	58.1	54.7	51.7	49.8	49.1	50.4	52.6
83.5°	59.1	57.6	55.5	52.7	51.9	48.6	45.6	43.8	43.2	44.4	46.4
84°	52.9	51.6	49.5	46.8	46.0	42.8	39.9	38.1	37.4	38.7	40.8
84.5°	46.9	45.8	43.8	41.0	40.2	37.2	34.5	32.7	32.3	33.4	35.2
85°	41.1	40.0	38.2	35.4	34.7	31.9	29.3	27.6	27.2	28.2	30.1
85.5°	35.5	34.6	32.9	30.3	29.4	26.7	24.2	23.0	22.6	23.4	25.1
86°	30.5	29.5	27.9	25.5	24.7	22.1	20.0	18.6	18.3	19.1	20.7
86.5°	25.6	24.9	23.5	21.3	20.2	18.1	16.3	15.1	14.8	15.8	16.9
87°	21.4	20.7	19.3	17.2	16.5	14.6	12.8	11.8	11.6	12.3	13.6
87.5°	17.3	16.7	15.5	13.6	13.0	11.2	9.5	8.6	8.6	9.3	10.3
88°	13.6	13.1	11.9	10.2	9.7	8.1	6.7	5.9	5.8	6.5	7.4
88.5°	10.2	9.6	8.8	7.2	7.1	5.5	4.3	3.5	3.4	4.0	4.9
89°	7.2	6.9	6.1	5.0	5.0	3.4	2.3	1.8	1.6	1.9	2.7
89.5°	5.0	4.8	4.1	3.1	2.7	1.7	0.8	1.6	1.3	1.8	1.0

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



TEST NUMBER: P869752
CATALOG NUMBER: SMX18SLSFSD2W-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: P869752
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	866.7	866.7	866.7	866.7	866.7	866.7
0.5°	867.4	865.6	867.8	866.1	866.1	866.5
1°	866.6	865.4	868.2	866.4	865.9	867.2
1.5°	866.3	866.4	867.5	866.4	866.1	866.4
2°	865.8	866.2	866.5	866.4	867.4	865.9
2.5°	865.3	864.9	867.5	865.8	865.9	865.8
3°	866.1	864.3	867.4	865.2	866.7	864.6
3.5°	865.4	865.2	866.3	864.7	866.0	865.1
4°	865.2	864.4	866.2	865.0	864.9	864.8
4.5°	865.1	863.5	865.7	864.6	864.7	864.7
5°	864.5	862.9	865.9	863.9	864.2	865.1
5.5°	862.4	862.1	865.5	863.5	864.6	864.5
6°	861.4	861.7	865.6	863.2	863.2	864.0
6.5°	860.5	862.0	864.6	863.1	862.9	863.2
7°	860.1	860.0	863.7	861.6	862.5	862.7
7.5°	859.0	859.8	862.6	861.1	862.3	861.2
8°	857.8	858.8	860.5	860.4	861.1	860.2
8.5°	856.3	857.0	859.3	859.1	858.8	859.3
9°	855.2	856.1	859.1	857.0	858.6	858.0
9.5°	853.1	855.0	857.6	856.0	856.9	856.0
10°	851.9	853.7	855.5	854.4	855.2	854.1
10.5°	850.0	851.8	854.1	851.6	854.8	853.1
11°	848.7	850.0	852.4	850.2	852.5	851.6
11.5°	846.4	847.9	850.7	849.4	850.5	849.7
12°	844.7	845.4	849.7	848.1	849.1	849.0
12.5°	843.0	844.2	846.9	845.8	847.8	847.5
13°	841.7	842.0	844.6	844.8	845.8	845.9
13.5°	839.5	840.8	843.1	843.3	844.0	844.2
14°	838.1	838.6	842.1	841.8	841.4	842.6
14.5°	836.6	837.0	839.1	839.5	840.1	840.7
15°	834.3	834.3	836.7	836.5	839.1	839.4
15.5°	830.7	833.0	835.0	833.7	837.5	836.6
16°	828.4	831.1	832.8	832.5	834.7	835.1
16.5°	826.1	828.1	830.7	830.2	833.2	832.5
17°	824.3	824.7	828.2	826.9	830.6	829.3
17.5°	821.7	822.8	826.9	824.4	828.2	827.5
18°	818.9	821.1	824.3	823.4	825.8	825.8
18.5°	816.4	818.8	821.0	821.1	822.4	822.8
19°	813.5	815.7	817.5	817.6	819.2	819.3
19.5°	810.2	813.0	814.8	814.3	816.7	816.6
20°	807.9	810.3	812.5	811.5	813.8	814.0
20.5°	806.1	807.9	808.9	809.1	811.3	811.0
21°	803.4	804.2	806.2	807.1	808.8	809.1
21.5°	800.1	800.2	803.3	804.6	806.6	806.2
22°	796.7	797.0	800.1	801.1	804.0	802.2

TEST NUMBER: P869752
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	792.4	795.1	796.9	797.3	799.9	799.0
23°	789.7	792.0	794.5	794.4	796.1	796.2
23.5°	786.1	787.8	790.8	792.2	793.0	793.0
24°	783.0	784.6	788.4	787.7	789.8	789.9
24.5°	780.7	782.0	784.7	784.6	786.6	786.9
25°	777.0	778.5	781.1	782.3	784.2	783.4
25.5°	773.1	775.7	777.1	778.8	781.5	779.8
26°	769.7	770.8	773.8	774.9	777.0	776.8
26.5°	766.1	767.0	770.9	770.4	772.8	773.4
27°	761.7	763.1	767.8	767.1	769.6	769.5
27.5°	757.5	758.6	763.4	764.0	767.2	766.3
28°	753.9	754.7	759.1	761.1	763.3	762.9
28.5°	749.5	751.9	754.9	756.8	759.0	757.4
29°	746.4	748.1	752.0	752.8	754.0	754.2
29.5°	742.6	743.8	747.8	748.7	751.1	749.5
30°	739.2	739.7	743.3	743.9	747.5	747.2
30.5°	733.7	736.6	738.4	739.1	742.9	742.6
31°	729.4	730.7	734.8	735.8	738.5	737.7
31.5°	725.0	726.7	731.2	730.9	734.9	733.5
32°	721.6	722.8	727.1	726.8	731.2	729.4
32.5°	717.8	719.0	722.4	722.9	727.4	725.2
33°	713.0	714.5	718.4	719.7	722.5	721.1
33.5°	707.2	709.9	713.7	714.9	718.2	716.5
34°	703.1	705.3	708.8	709.7	713.1	711.4
34.5°	698.0	700.8	704.3	705.3	708.6	706.8
35°	693.6	696.2	699.7	701.1	704.2	703.8
35.5°	689.5	690.8	695.4	696.6	699.2	699.2
36°	684.8	685.5	690.3	691.8	694.1	693.6
36.5°	680.1	680.6	685.5	685.8	689.4	688.7
37°	675.1	675.7	681.2	681.2	684.4	684.8
37.5°	669.5	671.5	676.2	676.0	680.3	680.1
38°	664.2	666.3	671.3	671.6	675.6	674.9
38.5°	659.1	661.4	665.8	666.9	670.8	669.0
39°	653.8	656.9	661.2	661.9	664.4	664.3
39.5°	648.9	652.3	656.0	656.2	659.6	659.1
40°	643.6	646.6	650.9	652.0	654.1	654.9
40.5°	639.1	641.0	645.5	647.0	649.1	649.9
41°	634.2	636.1	640.0	641.8	643.5	644.5
41.5°	628.3	631.2	634.7	636.1	638.5	639.2
42°	623.0	625.3	629.8	630.3	634.0	633.6
42.5°	616.6	619.1	624.0	624.6	628.5	628.2
43°	610.9	614.2	617.7	619.7	623.3	622.7
43.5°	605.0	608.0	611.6	614.6	617.3	616.9
44°	599.9	601.8	605.9	608.5	611.7	611.6
44.5°	594.1	597.1	601.4	601.9	606.1	606.0

TEST NUMBER: P869752
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	588.4	591.9	596.0	596.2	599.7	600.2
45.5°	582.3	586.3	590.0	590.7	593.7	594.9
46°	576.6	580.3	584.4	585.1	588.2	588.7
46.5°	570.7	574.1	578.6	580.3	582.4	582.4
47°	564.7	568.2	572.7	574.1	576.5	576.8
47.5°	558.6	562.6	566.7	568.0	570.4	571.1
48°	552.8	556.4	560.7	562.0	564.8	565.2
48.5°	546.8	549.7	554.4	556.0	558.9	558.5
49°	540.4	543.5	547.9	549.9	552.7	552.6
49.5°	534.4	537.5	541.4	543.8	546.8	546.6
50°	528.1	530.5	534.9	538.1	540.4	540.9
50.5°	521.7	524.5	528.6	531.9	533.8	534.1
51°	515.7	518.9	523.0	525.0	527.8	527.6
51.5°	509.5	512.0	517.0	518.5	521.9	521.7
52°	503.3	505.4	510.8	511.9	515.9	515.9
52.5°	496.5	499.5	504.4	506.4	509.4	509.5
53°	490.0	493.2	498.0	500.2	503.4	503.0
53.5°	484.1	486.7	491.2	492.6	496.6	496.0
54°	477.1	480.0	484.8	486.1	490.0	490.0
54.5°	470.6	473.0	478.2	480.2	482.8	483.9
55°	464.0	466.5	471.3	473.4	476.7	476.7
55.5°	457.5	459.7	464.5	467.0	470.4	469.7
56°	450.8	453.1	457.9	460.2	463.6	463.6
56.5°	443.9	446.2	451.2	453.1	457.0	456.6
57°	436.6	439.1	444.1	446.2	450.0	449.6
57.5°	429.5	432.0	437.1	438.6	442.7	442.9
58°	422.9	425.2	430.0	432.3	436.2	436.2
58.5°	416.4	418.1	422.6	425.8	429.0	429.0
59°	409.5	411.3	415.7	419.0	422.2	422.2
59.5°	402.0	404.3	408.4	411.9	415.1	415.5
60°	395.3	396.7	401.9	404.5	408.2	408.2
60.5°	387.4	389.6	394.3	397.4	401.2	401.3
61°	380.2	382.2	387.4	390.0	393.7	394.2
61.5°	373.2	375.6	380.7	382.7	386.3	386.4
62°	365.9	368.5	373.5	375.5	379.2	379.7
62.5°	358.8	361.2	366.3	368.5	372.0	372.3
63°	351.3	353.4	358.7	360.9	365.1	365.2
63.5°	344.1	346.2	351.6	353.8	357.5	358.5
64°	336.8	339.2	344.1	346.3	349.4	350.5
64.5°	329.4	332.0	337.0	339.4	342.1	343.3
65°	322.0	324.4	329.0	332.0	334.9	336.2
65.5°	314.9	316.9	321.6	324.3	327.4	328.8
66°	307.3	308.9	314.1	316.8	319.9	320.5
66.5°	299.6	301.8	306.6	309.7	312.5	312.8
67°	291.9	294.3	299.0	302.2	305.3	305.7

TEST NUMBER: P869752
 CATALOG NUMBER: SMX18SLSFSD2W-2500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	284.5	286.4	290.8	293.9	297.6	297.9
68°	276.7	278.6	283.4	286.7	290.0	290.2
68.5°	269.4	271.1	275.9	279.1	281.9	282.5
69°	262.2	263.8	267.9	271.1	274.3	275.0
69.5°	254.3	256.2	260.3	263.5	266.7	267.6
70°	246.5	248.3	252.5	256.2	259.0	259.4
70.5°	238.8	240.2	245.0	248.3	251.5	251.7
71°	230.9	232.5	237.3	240.3	243.7	244.0
71.5°	223.0	224.9	229.3	232.9	236.1	236.5
72°	215.2	217.3	221.8	225.1	228.0	228.9
72.5°	207.9	209.2	214.0	217.0	220.1	221.2
73°	200.1	201.2	206.1	209.2	212.3	213.3
73.5°	192.5	193.9	198.8	201.6	204.6	205.3
74°	184.8	185.9	190.7	193.6	197.0	197.6
74.5°	177.3	178.2	182.9	186.2	189.0	189.8
75°	169.4	170.4	175.0	178.5	181.0	181.8
75.5°	161.9	162.9	167.6	170.7	173.4	174.2
76°	154.3	155.2	159.7	162.9	165.8	166.7
76.5°	146.6	147.7	152.2	155.4	158.1	158.9
77°	138.9	139.9	144.5	147.6	150.5	151.6
77.5°	131.4	132.7	137.0	140.5	143.3	144.1
78°	124.0	125.3	129.7	133.0	135.7	136.4
78.5°	116.6	117.9	122.5	125.7	128.3	128.9
79°	109.5	110.7	115.0	118.1	120.7	121.6
79.5°	102.1	103.5	107.7	110.9	113.5	114.3
80°	95.1	96.3	100.3	103.4	106.3	107.0
80.5°	88.4	89.4	93.6	96.4	99.1	99.9
81°	81.7	82.6	86.6	89.6	92.1	92.7
81.5°	75.0	75.7	79.7	82.7	85.0	85.7
82°	68.2	68.9	72.9	75.8	78.2	78.9
82.5°	61.9	62.5	66.2	69.0	71.5	72.0
83°	55.9	56.2	59.6	62.3	64.9	65.2
83.5°	49.6	50.0	53.4	56.0	58.5	59.1
84°	43.8	44.2	47.6	49.9	52.2	52.9
84.5°	38.1	38.6	41.7	44.2	46.4	46.9
85°	32.8	33.4	36.3	38.7	40.5	41.1
85.5°	27.6	28.2	31.1	33.4	35.1	35.5
86°	23.0	23.8	26.1	28.3	30.1	30.5
86.5°	18.8	19.5	21.8	23.8	25.3	25.6
87°	15.4	15.7	17.8	19.4	20.9	21.4
87.5°	12.0	12.3	14.2	15.6	16.9	17.3
88°	9.0	8.8	10.6	12.3	13.3	13.6
88.5°	6.2	6.0	7.2	8.8	9.8	10.2
89°	3.9	4.0	5.0	6.0	6.8	7.2
89.5°	1.9	2.2	3.0	3.8	4.8	5.0

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869752
CATALOG NUMBER: SMX18SLSFSD2W-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)