

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: P869749

Luminaire Tested: **SMX18SLSFSD2W-2000LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869749
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFSD2W-2000LM-4000K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

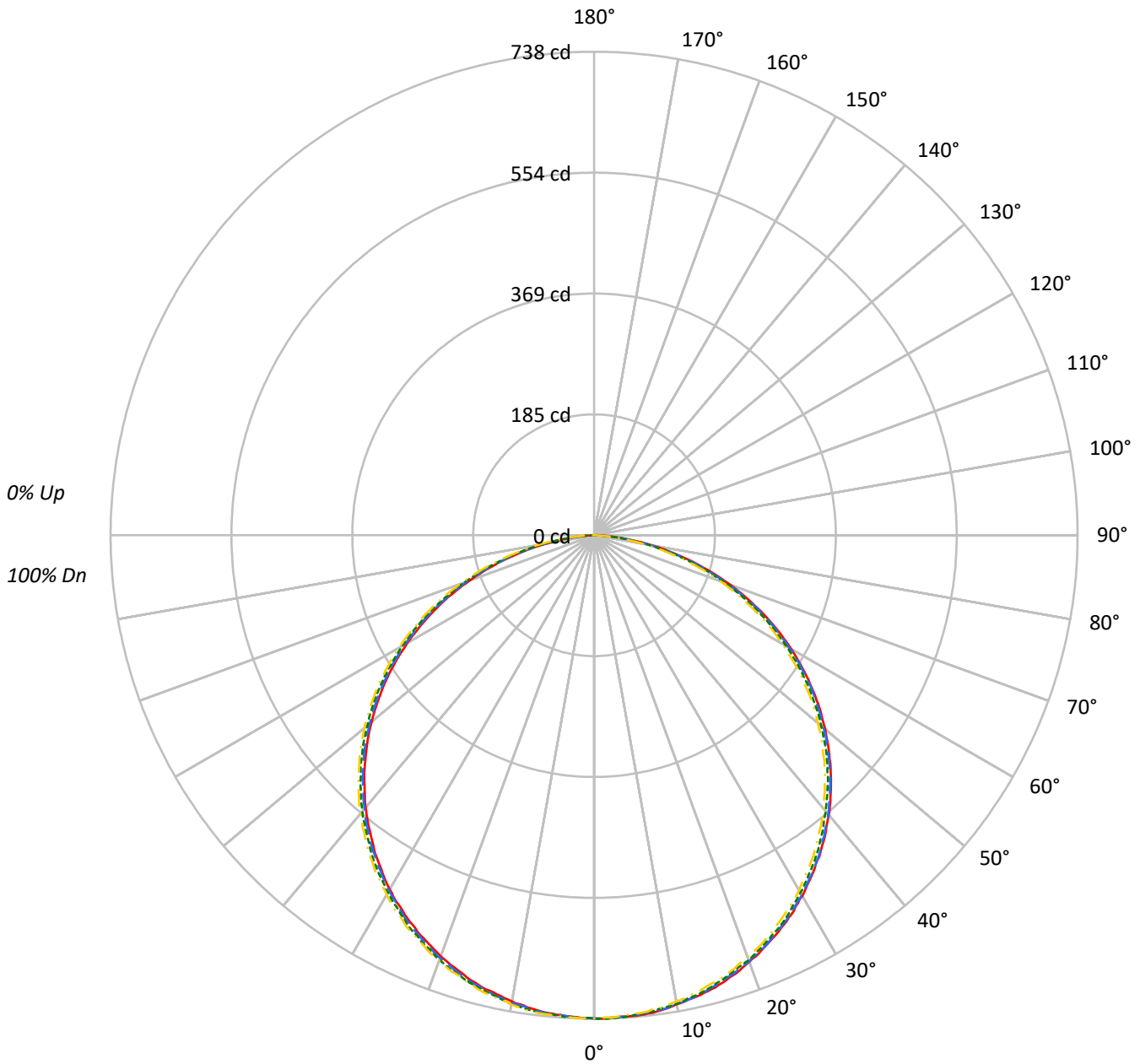
Lumens per Lamp: N/A
 Luminaire Lumens: 2153.6 lumens
 Efficiency: N/A
 Efficacy: 90.9 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 23.7
 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	102	100	100	100	100	96	96	96	96	96	84	
	1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	84	84	84	84	84	84	84	84	84	84	84
	2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	72	69	69	69	69	69	69	69	69	69	69	69
	3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	60	58	58	58	58	58	58	58	58	58	58	58
	4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	52	50	50	50	50	50	50	50	50	50	50	50
	5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	43	43	43	43	43	43	43	43	43	43	43
	6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	37	37	37	37	37	37	37	37	37	37	37
	7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	33	33	33	33	33	33	33	33	33	33	33
	8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	29	29	29	29	29	29	29	29	29	29	29
	9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	26	26	26	26	26	26	26	26	26	26	26
	10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	24	24	24	24	24	24	24	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3529	3529	3529	3529
5°	3536	3528	3520	3527
10°	3532	3528	3510	3530
15°	3539	3515	3498	3517
20°	3528	3515	3483	3511
25°	3520	3502	3462	3498
30°	3513	3481	3448	3478
35°	3499	3464	3420	3461
40°	3481	3435	3389	3437
45°	3457	3407	3348	3409
50°	3427	3368	3300	3361
55°	3384	3321	3240	3312
60°	3325	3244	3149	3231
65°	3240	3137	3020	3127
70°	3088	2971	2827	2957
75°	2861	2715	2532	2682
80°	2510	2300	2058	2256
85°	1921	1619	1273	1559

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.2
10°-20°	200.5	9.3
20°-30°	305.3	14.2
30°-40°	370.7	17.2
40°-50°	388.2	18.0
50°-60°	355.0	16.5
60°-70°	273.2	12.7
70°-80°	154.5	7.2
80°-90°	36.4	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°	575.7	26.7
0°-40°	946.4	43.9
0°-60°	1689.6	78.5
0°-90°	2153.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2153.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	738	738	738	738	738	
5°	736	735	733	734	736	70
15°	714	710	706	710	714	201
25°	667	663	656	663	667	307
35°	599	593	586	593	599	374
45°	511	504	495	504	511	394
55°	406	398	388	397	406	362
65°	286	277	267	276	286	282
75°	155	147	137	145	155	164
85°	35	30	23	28	35	42
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°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7
0.5°	737.6	737.4	737.8	737.2	738.0	738.6	737.2	737.7	737.2	737.6	736.8
1°	738.2	736.9	737.9	737.7	737.6	737.9	736.7	737.1	736.8	737.3	737.7
1.5°	737.5	737.5	737.1	737.7	738.5	737.7	736.2	737.0	737.0	736.7	737.5
2°	737.1	736.6	736.9	737.5	738.2	737.4	737.1	736.2	736.0	736.1	736.1
2.5°	737.0	737.3	736.7	737.5	737.6	737.4	736.3	736.1	735.8	735.8	735.9
3°	735.9	737.4	736.5	736.8	736.9	736.8	735.3	736.5	735.6	735.0	736.0
3.5°	736.4	737.6	736.2	736.7	737.1	736.1	735.3	736.0	734.8	734.9	734.9
4°	736.2	736.8	736.0	736.8	736.6	735.6	733.8	735.3	734.1	735.2	734.1
4.5°	736.1	736.7	735.0	736.6	735.8	735.5	733.8	733.9	734.1	734.4	734.0
5°	736.4	736.0	735.0	735.5	734.7	735.2	733.2	733.5	732.9	732.6	734.6
5.5°	735.9	735.5	734.4	734.2	734.1	734.2	732.9	732.4	732.7	731.8	733.5
6°	735.5	735.5	733.9	734.4	734.1	732.7	732.4	732.2	732.1	731.1	732.2
6.5°	734.8	735.2	733.3	733.1	733.2	732.9	731.3	731.1	731.0	730.5	731.6
7°	734.4	734.6	732.6	732.8	732.4	732.0	729.2	729.8	730.1	729.3	731.5
7.5°	733.1	732.9	731.6	731.4	730.5	731.4	729.2	729.0	728.6	728.4	730.1
8°	732.3	731.4	731.1	731.1	729.4	730.4	728.6	727.7	727.9	727.5	728.0
8.5°	731.4	730.4	730.8	729.3	728.9	729.5	727.4	727.0	725.7	726.8	727.2
9°	730.4	729.2	729.6	728.9	728.0	728.5	725.6	726.1	724.8	725.3	726.1
9.5°	728.6	728.7	728.0	727.2	727.2	727.4	723.7	724.2	724.6	724.3	725.8
10°	727.1	727.1	726.5	726.7	726.3	726.1	722.8	722.8	722.5	723.8	724.5
10.5°	726.2	726.2	726.1	724.8	725.0	724.1	721.9	721.5	721.0	722.1	723.0
11°	724.9	724.9	725.0	724.2	723.4	723.0	720.3	721.0	719.6	720.0	721.3
11.5°	723.3	724.2	723.1	722.2	721.0	721.9	718.9	719.2	717.4	719.1	720.0
12°	722.7	722.3	722.2	720.7	720.3	720.7	716.8	718.5	716.4	717.1	719.2
12.5°	721.4	720.8	721.6	719.4	719.3	719.3	715.2	717.0	714.4	715.6	717.3
13°	720.1	720.5	719.7	717.7	717.7	717.6	714.1	714.8	713.1	714.4	714.9
13.5°	718.6	719.2	717.3	716.3	716.1	715.7	712.2	713.6	712.4	713.0	712.8
14°	717.3	717.6	715.6	715.3	714.6	712.6	709.6	711.6	710.6	711.7	711.9
14.5°	715.6	715.3	713.7	712.9	712.6	711.6	707.7	709.3	708.4	709.5	710.1
15°	714.5	713.4	712.2	711.9	709.8	710.2	706.5	707.6	706.3	706.7	708.9
15.5°	712.2	711.8	710.6	709.6	708.2	708.1	705.2	705.4	704.8	704.8	707.1
16°	710.9	709.8	708.3	708.0	707.0	706.5	703.1	703.4	702.9	703.5	705.2
16.5°	708.6	707.8	706.4	705.6	704.5	704.6	701.0	701.6	699.8	701.6	703.0
17°	705.9	705.4	704.3	704.4	702.4	702.5	699.0	699.9	697.4	698.8	700.0
17.5°	704.4	703.7	702.6	701.3	699.7	700.3	697.1	697.8	695.4	696.4	698.1
18°	702.9	701.9	700.5	699.3	698.2	697.8	695.2	695.1	693.1	694.2	696.1
18.5°	700.4	699.8	698.5	697.0	695.5	695.8	691.8	692.2	691.4	691.9	693.0
19°	697.4	698.0	696.1	694.9	694.1	693.3	689.7	690.0	688.6	689.7	690.1
19.5°	695.2	696.1	694.5	692.5	691.6	691.2	687.7	687.4	686.6	687.3	688.4
20°	692.9	693.0	692.4	690.9	690.4	689.1	685.3	684.9	684.1	684.8	686.7
20.5°	690.3	690.3	689.1	687.9	687.7	686.4	683.1	682.5	680.9	682.2	684.9
21°	688.8	687.6	686.8	685.7	684.8	683.8	680.7	679.8	678.4	680.5	681.8
21.5°	686.3	685.7	684.8	684.0	682.1	681.2	678.0	676.9	675.7	678.1	678.7
22°	682.9	682.8	682.2	681.5	679.7	677.9	675.9	675.7	673.0	674.6	676.3

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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°	680.1	680.1	680.2	678.4	676.6	675.1	673.1	672.5	670.3	671.8	673.2
23°	677.8	677.4	677.2	675.4	673.9	673.3	669.9	670.1	667.7	669.5	670.8
23.5°	675.0	675.3	673.9	672.6	671.5	670.5	667.0	667.5	665.4	667.2	667.9
24°	672.4	672.7	671.1	670.5	668.3	667.5	664.4	663.9	662.5	663.6	665.2
24.5°	669.8	669.6	668.2	667.2	665.6	664.6	660.3	660.4	658.7	659.9	662.0
25°	666.9	666.1	665.6	664.2	663.4	661.6	657.5	658.1	655.9	657.1	658.7
25.5°	663.8	663.4	662.4	660.9	660.2	658.7	655.1	655.6	653.5	654.2	655.8
26°	661.2	660.8	659.5	658.1	657.8	655.7	651.9	652.3	650.4	651.6	653.8
26.5°	658.4	658.1	657.1	654.9	654.0	652.1	648.7	649.3	647.4	648.0	650.2
27°	655.0	655.0	654.1	652.0	651.2	648.6	645.9	646.0	643.6	644.5	646.4
27.5°	652.3	652.5	650.2	649.3	647.6	645.1	642.8	642.7	640.1	641.5	642.9
28°	649.4	648.1	647.1	646.4	643.3	642.0	639.5	638.7	637.5	639.3	639.8
28.5°	644.7	644.9	643.8	643.1	639.7	638.3	636.0	635.6	634.4	635.9	636.0
29°	642.0	642.0	640.3	639.5	636.9	635.7	632.7	632.2	631.4	632.5	633.1
29.5°	638.0	639.2	637.6	636.2	633.4	632.5	629.4	628.6	627.2	628.9	629.7
30°	636.0	635.6	633.8	632.2	630.1	628.2	625.6	624.9	624.2	624.9	626.1
30.5°	632.1	631.6	630.1	628.3	627.1	624.6	621.5	621.4	620.7	621.0	621.9
31°	628.0	627.6	626.7	625.0	623.1	620.7	617.9	617.3	617.0	617.5	619.0
31.5°	624.4	623.7	623.5	621.3	619.4	617.0	613.7	613.2	612.8	613.3	614.9
32°	620.9	620.6	619.2	618.2	615.5	614.2	610.0	610.0	609.0	609.6	611.3
32.5°	617.3	617.0	616.3	614.0	611.5	611.0	606.4	605.6	604.6	606.1	607.0
33°	613.8	613.5	613.1	610.7	608.4	607.0	602.9	601.8	600.9	602.2	603.8
33.5°	609.9	609.7	609.2	606.4	604.3	603.1	598.8	599.0	597.1	598.2	599.2
34°	605.5	606.5	605.2	602.7	601.2	598.8	595.4	595.4	593.1	594.5	595.5
34.5°	601.6	602.7	601.6	598.5	597.1	595.1	591.9	590.9	589.8	590.3	591.8
35°	599.1	598.7	597.8	594.2	593.2	591.2	587.3	586.6	585.6	586.5	588.2
35.5°	595.1	594.6	593.9	591.2	589.1	586.7	582.8	582.1	580.6	583.1	583.9
36°	590.4	590.3	589.8	587.2	585.0	581.8	578.9	579.1	576.6	579.0	580.4
36.5°	586.3	586.5	584.8	583.6	580.3	577.8	574.4	574.5	572.3	574.4	575.4
37°	582.9	582.8	580.9	578.8	576.1	573.9	570.2	570.7	568.0	569.6	571.0
37.5°	578.9	578.0	577.3	574.5	572.3	569.3	566.4	565.7	563.9	565.3	567.1
38°	574.5	574.0	572.7	570.9	567.9	565.1	562.6	560.8	560.0	561.7	563.2
38.5°	569.5	569.9	568.3	565.9	562.9	560.8	558.3	556.5	555.5	557.9	559.2
39°	565.5	565.2	564.7	561.7	558.4	557.1	553.5	552.6	551.1	553.5	554.7
39.5°	561.1	560.8	560.5	556.8	554.4	552.7	549.1	548.0	547.1	548.1	549.7
40°	557.4	556.2	556.2	552.5	550.1	548.0	545.0	543.6	542.6	543.8	545.0
40.5°	553.2	552.3	551.7	548.0	545.3	543.2	539.9	539.5	537.9	539.0	540.7
41°	548.6	548.0	546.6	544.4	541.0	538.6	534.9	534.5	533.5	533.9	536.2
41.5°	544.1	543.5	542.0	539.8	536.5	534.6	530.6	529.4	528.0	529.6	531.5
42°	539.3	538.4	537.5	535.1	532.1	529.2	525.9	525.1	523.4	524.9	526.8
42.5°	534.7	534.3	532.4	530.9	527.5	524.7	521.1	520.1	518.5	520.7	522.8
43°	530.1	530.2	527.6	525.6	522.8	520.9	516.4	515.8	514.1	515.5	517.4
43.5°	525.2	525.4	523.8	520.6	518.6	516.1	511.8	510.4	509.7	511.2	512.8
44°	520.6	520.2	518.9	515.8	513.7	510.6	507.1	505.8	505.0	506.5	507.9
44.5°	515.8	515.6	513.9	510.9	507.9	505.5	502.6	500.9	499.9	502.1	503.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	510.9	510.1	508.8	506.2	503.6	500.8	497.5	496.3	494.9	496.5	498.5
45.5°	506.4	505.8	503.7	502.1	499.1	496.5	492.8	491.2	489.6	491.9	493.4
46°	501.2	501.2	498.9	496.8	494.2	491.5	486.9	486.0	484.4	486.9	488.9
46.5°	495.7	495.4	494.1	491.2	489.3	486.5	482.2	480.9	479.4	482.0	483.8
47°	491.0	490.5	488.7	486.5	484.5	481.4	476.9	475.9	474.5	476.8	479.0
47.5°	486.1	485.4	483.4	481.1	479.0	476.1	471.8	470.8	469.8	471.1	473.5
48°	481.1	480.8	478.1	476.3	473.6	471.1	467.2	466.0	464.5	466.0	467.9
48.5°	475.4	475.4	473.5	471.1	468.0	465.6	461.8	461.0	459.5	460.5	463.3
49°	470.4	470.5	468.5	465.9	463.0	460.2	456.9	455.7	454.1	455.6	457.6
49.5°	465.3	465.5	463.2	460.7	457.6	454.7	451.3	450.3	448.7	450.7	451.8
50°	460.5	460.2	457.4	455.2	452.6	449.8	445.7	445.3	443.4	445.6	446.9
50.5°	454.7	454.7	452.3	449.7	447.8	445.1	440.7	439.9	437.8	439.8	441.8
51°	449.1	449.2	446.8	444.6	442.5	439.2	434.9	434.0	432.5	433.9	436.3
51.5°	444.0	443.9	441.9	439.2	437.4	433.6	430.3	428.4	427.0	428.7	430.7
52°	439.2	438.1	436.5	433.9	431.2	428.8	425.0	423.5	421.4	423.4	425.2
52.5°	433.7	432.9	431.0	428.5	425.2	423.1	419.7	418.1	416.2	417.4	419.7
53°	428.2	427.7	425.4	422.8	419.9	416.9	413.8	412.3	410.4	412.7	414.3
53.5°	422.2	422.0	420.0	417.8	414.6	411.4	408.5	406.0	405.1	407.2	408.7
54°	417.1	416.9	414.9	411.7	408.8	406.3	402.4	400.7	399.2	401.0	403.4
54.5°	411.9	411.2	409.3	405.9	403.9	401.0	396.0	394.8	394.2	395.1	397.6
55°	405.7	405.4	404.0	400.2	398.2	395.2	390.5	389.6	388.5	389.5	391.7
55.5°	399.8	399.3	397.8	395.0	392.3	389.0	385.1	383.5	382.5	383.8	385.6
56°	394.6	393.6	391.7	389.1	386.1	383.0	379.6	377.8	376.8	378.1	380.4
56.5°	388.7	388.3	386.3	383.0	380.5	377.1	373.5	372.6	371.0	372.7	374.7
57°	382.7	382.6	380.2	377.1	374.8	371.6	367.7	366.6	364.7	367.0	369.1
57.5°	377.0	376.8	374.7	371.3	369.2	366.0	361.5	360.1	359.0	360.7	363.0
58°	371.3	370.4	368.8	365.3	363.2	359.8	355.5	354.2	353.1	354.6	356.7
58.5°	365.2	364.3	362.6	359.4	356.9	353.4	349.5	348.4	347.4	348.5	350.7
59°	359.4	358.9	356.4	353.5	351.3	347.7	344.0	342.4	341.0	342.7	344.6
59.5°	353.7	352.8	350.8	348.1	345.4	341.8	337.9	336.6	335.0	337.0	338.5
60°	347.5	346.7	344.4	342.1	339.1	335.8	332.3	330.6	329.1	331.0	333.1
60.5°	341.6	340.5	338.4	336.1	332.5	330.0	326.1	324.6	323.1	324.4	327.0
61°	335.5	334.2	332.2	329.6	326.7	323.8	320.2	318.2	317.1	318.7	321.0
61.5°	328.9	328.1	326.1	323.3	320.6	317.6	314.2	311.8	310.6	312.4	314.8
62°	323.2	322.0	320.0	317.0	314.5	311.4	308.0	305.9	304.4	306.3	308.5
62.5°	316.9	315.9	313.8	311.0	308.1	305.4	301.6	299.6	298.1	300.0	302.1
63°	310.9	309.7	307.5	304.9	302.1	299.1	295.2	293.7	292.0	293.6	295.7
63.5°	305.1	303.3	301.4	298.3	296.2	292.9	289.2	287.2	286.1	287.2	289.9
64°	298.4	297.4	295.2	292.3	290.2	286.6	282.5	280.9	279.7	281.1	283.7
64.5°	292.3	291.1	289.0	285.7	283.4	280.4	275.9	274.5	273.1	274.5	277.2
65°	286.2	285.1	282.7	279.3	277.1	274.0	269.6	268.2	266.8	268.3	270.7
65.5°	279.9	278.6	276.5	272.8	270.9	267.4	263.1	261.9	260.7	262.1	264.5
66°	272.9	272.3	269.7	266.4	264.4	261.0	256.8	255.2	254.4	255.6	258.1
66.5°	266.2	265.6	263.2	260.2	258.0	254.7	250.4	249.0	248.0	249.1	251.4
67°	260.2	258.9	256.8	253.7	251.7	248.2	244.5	242.4	241.6	242.6	245.1

TEST NUMBER: P869749
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	253.6	252.5	250.2	246.9	245.2	241.9	238.0	235.8	235.2	236.1	238.4
68°	247.0	246.1	243.7	240.3	238.8	235.3	231.5	229.7	228.6	229.9	232.2
68.5°	240.5	239.6	237.3	234.2	232.2	228.8	224.8	223.3	221.9	223.2	225.9
69°	234.1	233.4	230.9	227.9	226.0	222.1	218.1	216.4	215.3	216.6	219.4
69.5°	227.8	226.9	224.2	220.7	219.1	215.3	211.6	209.6	208.7	209.8	213.0
70°	220.8	220.3	217.5	214.2	212.4	209.0	205.0	203.3	202.1	203.3	206.0
70.5°	214.2	213.7	210.8	207.7	206.0	202.6	198.8	196.9	195.9	197.1	199.6
71°	207.7	207.1	204.7	201.4	199.6	196.2	192.2	190.5	189.4	190.5	192.9
71.5°	201.3	200.7	198.0	194.3	192.8	189.5	185.5	183.6	182.7	184.0	186.3
72°	194.8	193.8	191.2	187.8	186.3	182.7	178.9	177.0	176.4	177.4	180.0
72.5°	188.3	186.9	184.4	181.4	179.8	176.3	172.5	170.7	169.7	171.0	173.5
73°	181.6	180.2	177.8	174.6	173.2	169.9	166.1	164.0	162.9	164.4	166.9
73.5°	174.7	173.7	171.5	168.0	166.5	163.1	159.5	157.3	156.4	158.2	160.3
74°	168.2	167.1	164.5	161.5	159.8	156.5	153.1	151.0	149.9	151.5	153.7
74.5°	161.6	160.4	158.1	154.6	153.5	150.1	146.5	144.6	143.6	144.9	147.1
75°	154.8	153.7	151.5	147.9	146.9	143.4	139.9	138.1	137.0	138.5	140.6
75.5°	148.3	147.4	144.9	141.5	140.3	137.0	133.7	131.4	130.6	132.3	134.3
76°	141.9	140.9	138.5	135.0	133.8	130.4	127.1	124.9	124.2	125.7	127.8
76.5°	135.3	134.4	132.0	128.5	127.5	124.0	120.6	118.8	117.8	119.1	121.3
77°	129.1	127.7	125.6	122.1	121.0	117.5	114.3	112.3	111.4	112.6	114.8
77.5°	122.7	121.2	119.3	115.7	114.5	111.1	108.0	106.0	105.1	106.5	108.7
78°	116.1	114.8	112.8	109.5	108.2	104.9	101.9	99.6	98.9	100.1	102.3
78.5°	109.7	108.5	106.5	103.2	102.0	98.6	95.4	93.5	92.7	93.9	96.0
79°	103.5	102.3	100.1	96.8	95.6	92.2	89.2	87.4	86.5	87.7	89.8
79.5°	97.3	96.1	94.0	90.7	89.5	86.2	83.2	81.5	80.6	81.9	83.8
80°	91.1	89.6	87.7	84.6	83.5	80.4	77.4	75.6	74.7	76.1	78.1
80.5°	85.0	83.7	81.9	78.6	77.7	74.4	71.6	69.8	68.8	70.3	72.4
81°	78.9	77.7	76.1	72.8	71.9	68.7	65.7	64.0	63.2	64.6	66.6
81.5°	73.0	71.9	70.1	67.0	66.0	62.9	60.0	58.4	57.8	58.8	60.8
82°	67.1	66.1	64.0	61.1	60.3	57.3	54.5	52.7	52.1	53.3	55.2
82.5°	61.3	60.5	58.2	55.3	54.7	51.8	49.3	47.5	46.8	47.9	49.8
83°	55.5	54.5	52.7	50.0	49.4	46.6	44.0	42.4	41.8	42.9	44.8
83.5°	50.3	49.1	47.3	44.8	44.2	41.4	38.8	37.3	36.8	37.8	39.5
84°	45.0	43.9	42.1	39.8	39.1	36.4	33.9	32.4	31.8	33.0	34.7
84.5°	40.0	39.0	37.3	34.9	34.2	31.7	29.3	27.8	27.5	28.4	29.9
85°	35.0	34.1	32.5	30.2	29.5	27.2	24.9	23.5	23.2	24.0	25.6
85.5°	30.3	29.4	28.0	25.8	25.1	22.7	20.6	19.6	19.3	19.9	21.4
86°	26.0	25.1	23.8	21.7	21.0	18.8	17.0	15.8	15.6	16.3	17.6
86.5°	21.8	21.2	20.0	18.1	17.2	15.4	13.8	12.9	12.6	13.5	14.4
87°	18.2	17.6	16.4	14.7	14.1	12.4	10.9	10.0	9.9	10.5	11.6
87.5°	14.7	14.2	13.2	11.6	11.1	9.6	8.1	7.3	7.3	7.9	8.8
88°	11.6	11.1	10.2	8.7	8.3	6.9	5.7	5.0	5.0	5.5	6.3
88.5°	8.7	8.2	7.4	6.2	6.0	4.7	3.7	3.0	2.9	3.4	4.1
89°	6.2	5.9	5.2	4.2	4.2	2.9	2.0	1.5	1.4	1.7	2.3
89.5°	4.3	4.1	3.5	2.6	2.3	1.4	0.7	1.4	1.1	1.5	0.8

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



TEST NUMBER: P869749
CATALOG NUMBER: SMX18SLSFSD2W-2000LM-4000K

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: P869749
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	737.7	737.7	737.7	737.7	737.7	737.7
0.5°	738.3	736.8	738.7	737.3	737.2	737.6
1°	737.7	736.7	739.0	737.5	737.1	738.2
1.5°	737.4	737.5	738.4	737.5	737.3	737.5
2°	737.0	737.4	737.6	737.5	738.3	737.1
2.5°	736.5	736.2	738.4	737.0	737.1	737.0
3°	737.3	735.7	738.3	736.5	737.7	735.9
3.5°	736.7	736.5	737.4	736.1	737.1	736.4
4°	736.5	735.8	737.4	736.3	736.2	736.2
4.5°	736.4	735.0	736.9	735.9	736.1	736.1
5°	735.9	734.5	737.1	735.3	735.6	736.4
5.5°	734.1	733.8	736.8	735.0	736.0	735.9
6°	733.2	733.5	736.8	734.8	734.8	735.5
6.5°	732.5	733.8	735.9	734.7	734.5	734.8
7°	732.1	732.0	735.2	733.5	734.2	734.4
7.5°	731.2	731.9	734.3	733.0	734.1	733.1
8°	730.1	731.0	732.5	732.4	733.0	732.3
8.5°	728.9	729.5	731.5	731.3	731.0	731.4
9°	728.0	728.7	731.3	729.5	730.9	730.4
9.5°	726.2	727.8	730.0	728.6	729.4	728.6
10°	725.2	726.7	728.3	727.3	728.0	727.1
10.5°	723.5	725.1	727.1	724.9	727.7	726.2
11°	722.5	723.5	725.6	723.8	725.7	724.9
11.5°	720.5	721.7	724.1	723.0	724.0	723.3
12°	719.0	719.6	723.3	721.9	722.8	722.7
12.5°	717.6	718.6	720.9	720.0	721.6	721.4
13°	716.5	716.8	718.9	719.1	720.0	720.1
13.5°	714.6	715.7	717.7	717.8	718.4	718.6
14°	713.4	713.8	716.8	716.5	716.2	717.3
14.5°	712.2	712.5	714.3	714.6	715.1	715.6
15°	710.2	710.2	712.2	712.1	714.3	714.5
15.5°	707.1	709.1	710.8	709.7	712.9	712.2
16°	705.2	707.4	708.9	708.6	710.5	710.9
16.5°	703.2	704.9	707.1	706.7	709.2	708.6
17°	701.7	702.0	705.0	703.9	707.0	705.9
17.5°	699.4	700.4	703.9	701.8	705.0	704.4
18°	697.0	698.9	701.7	700.9	702.9	702.9
18.5°	694.9	697.0	698.8	698.9	700.0	700.4
19°	692.4	694.3	695.9	696.0	697.3	697.4
19.5°	689.7	692.1	693.6	693.2	695.2	695.2
20°	687.7	689.7	691.6	690.8	692.7	692.9
20.5°	686.2	687.7	688.5	688.8	690.6	690.3
21°	683.9	684.5	686.3	687.0	688.5	688.8
21.5°	681.1	681.2	683.8	684.9	686.6	686.3
22°	678.1	678.4	681.1	681.9	684.4	682.9

TEST NUMBER: P869749
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	674.5	676.8	678.4	678.7	680.9	680.1
23°	672.2	674.2	676.3	676.2	677.7	677.8
23.5°	669.1	670.6	673.2	674.3	675.1	675.0
24°	666.5	667.8	671.1	670.5	672.3	672.4
24.5°	664.5	665.7	668.0	667.9	669.6	669.8
25°	661.4	662.7	664.9	665.9	667.5	666.9
25.5°	658.1	660.3	661.5	662.9	665.2	663.8
26°	655.2	656.1	658.7	659.6	661.4	661.2
26.5°	652.1	652.9	656.2	655.8	657.8	658.4
27°	648.4	649.6	653.5	653.0	655.1	655.0
27.5°	644.8	645.7	649.9	650.4	653.1	652.3
28°	641.7	642.4	646.2	647.9	649.7	649.4
28.5°	638.0	640.1	642.6	644.2	646.1	644.7
29°	635.3	636.8	640.1	640.8	641.8	642.0
29.5°	632.1	633.1	636.5	637.3	639.4	638.0
30°	629.2	629.7	632.7	633.2	636.3	636.0
30.5°	624.6	627.1	628.6	629.2	632.4	632.1
31°	620.9	622.0	625.5	626.3	628.6	628.0
31.5°	617.1	618.6	622.4	622.2	625.5	624.4
32°	614.3	615.2	618.9	618.7	622.4	620.9
32.5°	611.0	612.0	614.9	615.4	619.2	617.3
33°	607.0	608.2	611.6	612.6	615.0	613.8
33.5°	602.0	604.3	607.6	608.5	611.3	609.9
34°	598.5	600.3	603.4	604.1	607.0	605.5
34.5°	594.2	596.6	599.5	600.3	603.2	601.6
35°	590.4	592.6	595.6	596.8	599.4	599.1
35.5°	586.9	588.0	592.0	593.0	595.1	595.1
36°	582.9	583.5	587.6	588.9	590.9	590.4
36.5°	578.9	579.3	583.5	583.8	586.9	586.3
37°	574.7	575.2	579.9	579.9	582.6	582.9
37.5°	569.9	571.6	575.6	575.4	579.1	578.9
38°	565.3	567.2	571.4	571.7	575.1	574.5
38.5°	561.1	563.0	566.8	567.7	571.0	569.5
39°	556.5	559.2	562.9	563.4	565.6	565.5
39.5°	552.4	555.3	558.4	558.6	561.4	561.1
40°	547.8	550.4	554.1	555.0	556.8	557.4
40.5°	544.1	545.6	549.5	550.8	552.6	553.2
41°	539.8	541.5	544.8	546.3	547.7	548.6
41.5°	534.8	537.3	540.3	541.5	543.5	544.1
42°	530.3	532.3	536.1	536.5	539.7	539.3
42.5°	524.9	527.0	531.2	531.7	535.0	534.7
43°	520.0	522.8	525.8	527.5	530.6	530.1
43.5°	515.0	517.6	520.7	523.1	525.5	525.2
44°	510.6	512.3	515.8	517.9	520.7	520.6
44.5°	505.8	508.3	511.9	512.4	515.9	515.8

TEST NUMBER: P869749
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	500.9	503.9	507.3	507.5	510.5	510.9
45.5°	495.7	499.1	502.2	502.8	505.4	506.4
46°	490.9	493.9	497.5	498.1	500.7	501.2
46.5°	485.8	488.7	492.5	493.9	495.7	495.7
47°	480.7	483.7	487.5	488.7	490.8	491.0
47.5°	475.5	478.9	482.4	483.5	485.5	486.1
48°	470.5	473.6	477.3	478.4	480.8	481.1
48.5°	465.4	467.9	472.0	473.3	475.7	475.4
49°	460.0	462.6	466.4	468.1	470.5	470.4
49.5°	454.9	457.5	460.8	462.9	465.4	465.3
50°	449.5	451.6	455.3	458.0	460.0	460.5
50.5°	444.0	446.5	450.0	452.8	454.4	454.7
51°	439.0	441.7	445.2	446.9	449.2	449.1
51.5°	433.7	435.8	440.1	441.3	444.3	444.0
52°	428.4	430.2	434.8	435.8	439.2	439.2
52.5°	422.7	425.2	429.4	431.0	433.6	433.7
53°	417.1	419.8	424.0	425.8	428.5	428.2
53.5°	412.1	414.3	418.2	419.3	422.8	422.2
54°	406.1	408.6	412.7	413.8	417.1	417.1
54.5°	400.6	402.7	407.0	408.8	411.0	411.9
55°	395.0	397.1	401.2	403.0	405.8	405.7
55.5°	389.4	391.3	395.4	397.5	400.4	399.8
56°	383.7	385.7	389.8	391.7	394.6	394.6
56.5°	377.8	379.8	384.1	385.7	389.0	388.7
57°	371.7	373.8	378.1	379.9	383.1	382.7
57.5°	365.6	367.7	372.1	373.3	376.8	377.0
58°	360.0	362.0	366.0	368.0	371.3	371.3
58.5°	354.4	355.9	359.7	362.5	365.2	365.2
59°	348.6	350.1	353.8	356.7	359.4	359.4
59.5°	342.2	344.1	347.7	350.6	353.4	353.7
60°	336.5	337.7	342.1	344.3	347.5	347.5
60.5°	329.7	331.6	335.6	338.2	341.5	341.6
61°	323.6	325.4	329.7	332.0	335.2	335.5
61.5°	317.7	319.7	324.0	325.8	328.8	328.9
62°	311.5	313.6	317.9	319.7	322.8	323.2
62.5°	305.4	307.5	311.8	313.7	316.7	316.9
63°	299.0	300.8	305.4	307.2	310.8	310.9
63.5°	292.9	294.7	299.3	301.1	304.3	305.1
64°	286.7	288.7	292.9	294.8	297.5	298.4
64.5°	280.4	282.6	286.9	288.9	291.2	292.3
65°	274.1	276.2	280.1	282.6	285.0	286.2
65.5°	268.0	269.8	273.8	276.0	278.7	279.9
66°	261.6	262.9	267.4	269.7	272.3	272.9
66.5°	255.0	256.9	261.0	263.6	266.0	266.2
67°	248.5	250.5	254.5	257.2	259.9	260.2

TEST NUMBER: P869749
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	242.2	243.8	247.6	250.2	253.4	253.6
68°	235.5	237.1	241.3	244.0	246.9	247.0
68.5°	229.3	230.8	234.9	237.6	240.0	240.5
69°	223.2	224.5	228.0	230.8	233.5	234.1
69.5°	216.5	218.1	221.5	224.3	227.0	227.8
70°	209.8	211.4	214.9	218.1	220.5	220.8
70.5°	203.2	204.5	208.6	211.4	214.1	214.2
71°	196.6	197.9	202.0	204.5	207.5	207.7
71.5°	189.9	191.4	195.2	198.3	201.0	201.3
72°	183.2	185.0	188.8	191.6	194.1	194.8
72.5°	177.0	178.1	182.2	184.7	187.4	188.3
73°	170.4	171.3	175.4	178.0	180.7	181.6
73.5°	163.9	165.0	169.2	171.6	174.2	174.7
74°	157.3	158.2	162.3	164.8	167.7	168.2
74.5°	151.0	151.7	155.7	158.5	160.9	161.6
75°	144.2	145.1	149.0	151.9	154.1	154.8
75.5°	137.8	138.7	142.7	145.3	147.6	148.3
76°	131.3	132.1	136.0	138.7	141.1	141.9
76.5°	124.8	125.7	129.6	132.3	134.5	135.3
77°	118.2	119.1	123.0	125.7	128.1	129.1
77.5°	111.8	112.9	116.6	119.6	122.0	122.7
78°	105.6	106.6	110.4	113.2	115.5	116.1
78.5°	99.3	100.4	104.3	107.0	109.2	109.7
79°	93.2	94.2	97.9	100.5	102.7	103.5
79.5°	86.9	88.1	91.7	94.4	96.6	97.3
80°	81.0	81.9	85.4	88.0	90.4	91.1
80.5°	75.2	76.1	79.7	82.1	84.4	85.0
81°	69.5	70.3	73.7	76.3	78.4	78.9
81.5°	63.8	64.4	67.9	70.4	72.4	73.0
82°	58.1	58.6	62.1	64.6	66.6	67.1
82.5°	52.7	53.2	56.4	58.7	60.9	61.3
83°	47.6	47.9	50.7	53.1	55.2	55.5
83.5°	42.2	42.6	45.5	47.7	49.8	50.3
84°	37.2	37.6	40.5	42.5	44.4	45.0
84.5°	32.4	32.9	35.5	37.6	39.5	40.0
85°	27.9	28.4	30.9	33.0	34.5	35.0
85.5°	23.5	24.0	26.5	28.4	29.9	30.3
86°	19.6	20.2	22.2	24.1	25.7	26.0
86.5°	16.0	16.6	18.6	20.2	21.5	21.8
87°	13.1	13.4	15.1	16.6	17.8	18.2
87.5°	10.2	10.5	12.1	13.3	14.4	14.7
88°	7.7	7.5	9.0	10.5	11.4	11.6
88.5°	5.3	5.1	6.2	7.4	8.4	8.7
89°	3.3	3.4	4.2	5.1	5.8	6.2
89.5°	1.6	1.9	2.6	3.2	4.1	4.3

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



TEST NUMBER: P869749
CATALOG NUMBER: SMX18SLSFSD2W-2000LM-4000K

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)