

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: P869712

Luminaire Tested: **SMX18RLSFSD2W-1500LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869712
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFSD2W-1500LM-3000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

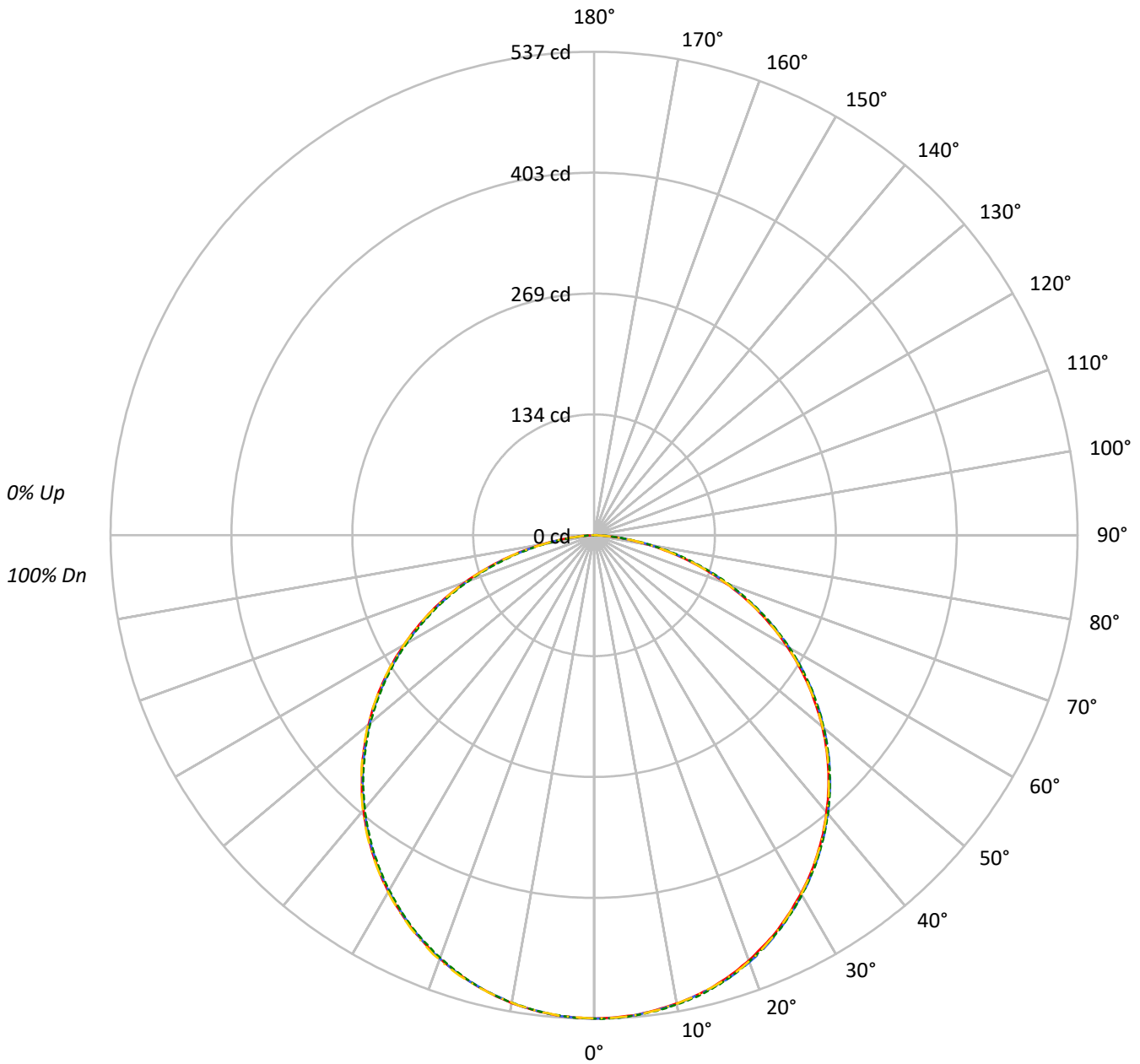
Lumens per Lamp: N/A
 Luminaire Lumens: 1567.2 lumens
 Efficiency: N/A
 Efficacy: 92.7 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 16.9
 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	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°	3270	3270	3270	3270
5°	3270	3272	3267	3268
10°	3266	3274	3263	3260
15°	3265	3274	3254	3254
20°	3257	3266	3244	3237
25°	3247	3257	3230	3224
30°	3232	3245	3214	3202
35°	3215	3230	3194	3179
40°	3192	3212	3169	3150
45°	3168	3189	3138	3116
50°	3134	3157	3099	3070
55°	3083	3117	3047	3012
60°	3018	3057	2975	2927
65°	2921	2972	2870	2813
70°	2771	2844	2709	2632
75°	2537	2638	2462	2360
80°	2168	2305	2059	1919
85°	1565	1789	1384	1209

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	3.2
10°-20°	146.0	9.3
20°-30°	222.3	14.2
30°-40°	270.0	17.2
40°-50°	282.6	18.0
50°-60°	258.1	16.5
60°-70°	198.6	12.7
70°-80°	112.3	7.2
80°-90°	26.5	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°	419.2	26.7
0°-40°	689.1	44.0
0°-60°	1229.8	78.5
0°-90°	1567.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1567.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	537	537	537	537	537	
5°	535	535	534	534	535	51
15°	518	519	516	516	518	146
25°	483	485	481	480	483	223
35°	432	434	430	428	432	270
45°	368	370	364	362	368	284
55°	290	294	287	284	290	259
65°	203	206	199	195	203	200
75°	108	112	105	100	108	114
85°	22	26	20	17	22	28
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°	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9	536.9
0.5°	536.5	536.9	536.8	536.9	537.2	537.5	536.9	537.0	536.4	536.8	536.9
1°	536.5	536.9	536.7	537.0	537.3	537.4	536.5	536.7	536.5	536.7	536.7
1.5°	536.5	537.1	536.7	536.7	537.1	537.1	536.7	536.5	536.2	536.7	536.6
2°	536.3	536.9	536.6	536.5	536.9	537.1	536.6	536.4	536.1	536.4	536.2
2.5°	536.0	536.7	536.5	536.4	536.9	536.8	536.4	536.0	536.1	536.3	536.2
3°	535.6	536.5	536.5	536.1	536.5	536.2	536.1	535.7	535.5	536.4	535.7
3.5°	535.4	536.1	536.2	536.1	536.1	535.9	536.1	535.6	535.6	536.0	535.6
4°	535.2	535.8	535.8	535.7	536.1	535.8	535.6	535.4	535.4	535.3	535.3
4.5°	535.0	535.2	535.3	535.6	535.5	535.7	535.4	535.1	534.9	535.0	534.9
5°	534.8	534.7	534.8	535.1	535.1	535.2	535.0	534.3	534.3	534.5	534.6
5.5°	534.1	534.6	534.6	534.9	534.8	535.0	534.7	534.1	533.8	533.9	533.9
6°	533.4	534.1	533.7	534.3	534.4	534.4	533.9	533.7	533.2	533.3	532.9
6.5°	533.0	533.5	533.3	533.7	533.7	534.0	533.3	533.3	532.9	532.5	532.3
7°	532.4	532.8	532.8	532.9	533.0	533.4	532.6	532.4	532.1	532.1	531.9
7.5°	531.7	532.1	532.2	532.5	532.9	532.6	532.3	531.5	531.5	531.5	531.3
8°	531.0	531.5	531.4	531.7	532.1	532.1	531.8	531.1	530.7	530.6	530.5
8.5°	530.4	531.0	530.9	531.0	531.4	531.5	530.6	530.4	530.1	529.9	529.9
9°	529.6	530.3	530.0	530.4	530.6	530.8	529.9	529.6	529.2	529.1	529.0
9.5°	528.7	529.6	529.5	529.7	529.9	530.1	529.3	528.8	528.4	528.1	528.1
10°	528.1	528.7	528.6	528.8	529.3	529.2	528.4	527.7	527.6	527.0	526.9
10.5°	527.5	527.8	527.7	528.3	528.6	528.4	527.3	527.0	526.3	526.2	526.0
11°	526.5	526.8	526.9	527.4	527.7	527.4	526.5	526.0	525.4	525.5	524.9
11.5°	525.4	525.9	525.9	526.5	526.9	526.7	525.6	524.8	524.4	524.6	523.9
12°	524.6	525.1	525.0	525.7	525.9	525.6	524.8	523.8	523.5	523.2	522.9
12.5°	523.5	524.0	523.7	524.6	525.2	524.6	523.8	522.6	522.1	522.0	521.9
13°	522.5	523.1	522.8	523.9	524.2	523.7	522.6	521.4	521.1	520.8	520.7
13.5°	521.3	521.9	522.0	522.6	523.0	522.6	521.5	520.6	519.8	519.5	519.7
14°	520.7	520.8	520.9	521.8	521.8	521.5	520.2	519.4	518.5	518.4	518.5
14.5°	519.3	519.5	519.9	520.7	520.7	520.4	519.3	518.0	517.5	516.8	517.0
15°	517.7	518.2	518.8	519.0	519.2	519.0	518.1	516.8	516.0	515.8	515.8
15.5°	516.4	517.1	517.5	518.0	518.3	517.9	516.8	515.2	514.6	514.4	514.6
16°	514.9	516.1	516.5	516.7	516.6	516.7	515.6	513.8	513.3	513.2	513.2
16.5°	513.8	514.7	515.4	515.3	515.2	515.2	514.0	512.8	511.9	511.7	511.6
17°	512.3	513.2	514.0	513.9	513.9	513.8	512.7	511.3	510.2	510.1	509.9
17.5°	510.6	511.7	512.5	512.5	512.3	512.3	511.5	509.7	509.1	508.4	508.6
18°	509.2	510.2	511.1	510.6	510.7	510.6	510.3	508.2	507.4	506.9	507.1
18.5°	507.5	508.4	509.7	509.1	508.8	509.0	508.6	506.4	505.6	505.3	505.4
19°	505.7	507.0	508.1	507.4	507.3	507.2	507.2	504.9	504.1	503.5	504.0
19.5°	504.2	505.3	506.3	505.7	505.8	505.7	505.2	503.3	502.2	501.6	502.3
20°	502.5	503.8	504.7	503.7	503.8	504.0	503.6	501.4	500.5	500.1	500.5
20.5°	500.8	501.7	503.1	502.1	502.1	501.8	501.7	499.6	499.0	498.3	498.7
21°	499.0	499.8	501.4	500.3	500.4	499.8	500.3	497.9	497.2	496.5	496.9
21.5°	496.8	497.9	499.5	498.6	498.4	498.3	498.2	496.2	495.1	494.4	495.1
22°	494.9	496.1	497.7	496.6	496.6	496.3	496.5	494.4	492.9	492.4	493.2

TEST NUMBER: P869712
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	493.1	494.2	495.7	494.7	494.7	494.3	494.4	492.5	491.1	490.3	490.9
23°	491.4	492.5	493.4	492.9	492.7	492.5	492.1	490.3	489.1	488.5	488.7
23.5°	489.2	490.7	491.6	491.0	490.8	490.7	490.3	488.4	486.9	486.8	486.4
24°	487.3	488.6	489.4	488.9	488.8	488.3	488.2	486.5	485.1	484.2	484.3
24.5°	485.3	486.6	487.1	486.8	486.9	485.9	485.9	484.4	482.9	482.1	482.4
25°	483.2	484.3	485.0	484.8	484.6	484.2	483.7	482.4	480.6	479.9	479.8
25.5°	480.6	482.0	482.7	482.8	482.6	482.3	481.5	480.4	478.5	477.8	477.5
26°	478.6	480.1	480.4	480.5	480.4	479.8	479.2	478.1	476.2	475.7	475.5
26.5°	476.0	477.8	478.2	478.1	478.2	477.6	476.8	475.9	474.0	473.4	473.0
27°	473.9	475.7	475.8	476.0	475.6	475.5	474.4	473.5	471.6	471.2	470.6
27.5°	471.6	473.5	473.6	474.1	473.5	472.9	471.9	471.3	469.2	469.0	468.4
28°	469.3	471.0	471.4	471.7	471.3	470.8	469.5	468.8	467.1	466.7	466.0
28.5°	466.6	468.8	468.7	469.2	468.9	468.5	467.4	466.6	464.7	464.2	463.7
29°	464.2	466.6	466.2	466.7	466.6	466.0	464.9	464.3	462.2	461.6	461.1
29.5°	461.9	464.1	464.1	464.5	463.9	463.4	462.5	461.9	459.6	459.1	458.7
30°	459.5	461.6	461.7	462.0	461.4	461.0	460.2	459.3	457.0	456.6	455.8
30.5°	457.0	459.2	459.1	459.5	458.8	458.5	457.7	456.9	454.4	454.1	453.5
31°	454.3	456.7	456.6	456.8	456.6	456.0	454.9	454.3	451.8	451.2	450.9
31.5°	452.0	453.8	453.9	454.4	453.8	453.2	452.4	451.5	449.3	448.5	448.1
32°	449.2	451.0	451.3	452.0	451.1	450.4	449.7	448.8	446.5	446.2	445.3
32.5°	446.4	448.4	448.5	449.3	448.4	448.1	446.9	446.2	443.8	443.5	442.7
33°	443.8	445.7	445.7	446.5	445.8	445.3	444.2	443.3	441.0	440.9	439.9
33.5°	441.1	443.0	443.1	443.7	443.4	442.7	441.3	440.5	438.1	438.0	437.0
34°	438.2	440.4	440.4	440.9	440.4	439.9	438.3	438.1	435.5	435.1	434.0
34.5°	435.3	437.5	437.4	438.1	437.4	437.1	435.7	435.2	432.7	432.2	431.2
35°	432.3	434.7	434.4	435.3	434.4	434.2	432.7	432.0	429.6	429.3	428.3
35.5°	429.1	431.7	431.7	432.5	431.6	431.3	429.8	429.1	426.7	426.5	425.3
36°	426.5	428.9	428.6	429.5	428.6	428.4	426.9	426.1	423.7	423.4	422.3
36.5°	423.5	425.9	425.7	426.5	425.5	425.3	423.9	423.2	420.7	420.6	419.5
37°	420.6	423.0	422.9	423.3	422.8	422.5	420.9	420.2	417.7	417.4	416.1
37.5°	417.6	419.7	419.7	420.5	419.9	419.5	417.9	417.3	414.6	414.0	413.0
38°	414.1	416.6	416.6	417.4	416.7	416.3	414.7	414.2	411.4	410.9	409.9
38.5°	411.0	413.4	413.6	414.4	413.5	413.1	411.7	411.2	408.2	407.4	406.8
39°	408.0	410.5	410.4	411.2	410.4	410.2	408.3	407.9	405.1	404.5	403.7
39.5°	404.9	407.0	407.2	408.0	407.2	406.8	405.2	404.7	401.8	401.4	400.5
40°	401.4	403.7	404.1	404.5	403.9	403.7	402.1	401.4	398.6	397.9	397.1
40.5°	398.2	400.5	400.8	401.4	400.7	400.6	399.2	397.8	395.4	394.4	394.0
41°	395.2	397.2	397.5	398.1	397.4	397.2	395.6	394.3	392.1	391.3	390.4
41.5°	391.9	393.8	394.3	394.7	394.2	393.7	392.5	391.1	388.9	387.8	387.2
42°	388.4	390.3	391.0	391.4	390.9	390.5	389.0	387.6	385.4	384.3	383.7
42.5°	385.0	387.1	387.8	388.0	387.4	387.1	385.8	384.0	381.9	381.1	380.2
43°	381.6	383.5	384.3	384.4	384.0	383.6	382.1	380.7	378.3	377.7	376.9
43.5°	378.1	380.2	380.7	381.1	380.6	380.1	378.5	377.2	374.8	374.3	373.4
44°	374.8	376.8	377.4	377.5	377.1	376.9	375.1	373.8	371.3	370.9	369.9
44.5°	371.5	373.3	374.0	374.2	373.7	373.3	371.6	370.1	367.9	367.3	366.4

TEST NUMBER: P869712
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	367.8	369.5	370.6	370.8	370.2	369.7	368.1	366.6	364.3	363.6	362.7
45.5°	364.0	366.1	366.9	367.1	366.4	366.2	364.6	363.1	360.8	359.7	359.2
46°	360.7	362.5	363.2	363.4	362.9	362.6	361.0	359.5	357.1	356.1	355.5
46.5°	357.0	358.9	359.9	359.6	359.3	359.0	357.5	355.7	353.2	352.4	352.0
47°	353.4	355.2	356.1	356.2	355.6	355.3	353.8	352.3	349.7	348.8	348.3
47.5°	349.5	351.5	352.5	352.6	352.1	351.6	349.9	348.7	345.9	345.1	344.3
48°	345.9	347.9	348.6	348.7	348.3	348.1	346.4	344.8	342.3	341.3	340.5
48.5°	342.3	344.2	345.0	344.9	344.4	344.2	342.6	340.8	338.3	337.5	336.9
49°	338.3	340.3	341.1	341.2	340.7	340.4	338.6	337.0	334.8	333.7	332.9
49.5°	334.5	336.3	337.2	337.5	336.9	336.7	334.9	333.2	331.0	329.8	329.2
50°	330.7	332.7	333.3	333.5	333.2	332.9	331.1	329.5	327.0	326.1	325.3
50.5°	326.8	329.0	329.6	329.7	329.4	328.9	327.2	325.5	323.1	322.0	321.4
51°	322.7	325.0	325.6	325.7	325.5	325.0	323.2	321.7	319.0	318.0	317.3
51.5°	318.9	321.1	321.8	321.9	321.5	321.1	319.1	317.8	315.3	314.2	313.4
52°	314.9	317.1	317.9	318.0	317.6	317.1	315.3	313.9	311.5	310.1	309.5
52.5°	310.7	313.0	313.7	313.8	313.5	313.3	311.5	310.0	307.3	306.1	305.4
53°	306.5	308.9	309.7	309.7	309.3	309.2	307.5	305.7	303.2	302.0	301.3
53.5°	302.7	304.9	305.7	305.9	305.5	305.2	303.4	301.7	299.1	298.0	297.3
54°	298.7	300.8	301.6	301.7	301.5	301.0	299.3	297.5	295.3	293.8	293.1
54.5°	294.8	296.6	297.6	297.5	297.6	297.1	295.3	293.5	291.1	289.5	288.9
55°	290.3	292.6	293.5	293.4	293.5	292.8	291.2	289.4	286.9	285.5	285.0
55.5°	286.3	288.4	289.4	289.2	289.3	288.8	287.0	285.5	282.7	281.7	280.6
56°	282.3	284.2	285.2	285.1	285.2	284.5	282.8	281.1	278.5	277.3	276.3
56.5°	278.0	280.0	280.9	280.9	281.1	280.3	278.5	277.1	274.2	272.9	272.0
57°	273.6	275.7	276.8	276.7	276.9	276.1	274.4	272.7	270.2	268.7	267.6
57.5°	269.4	271.5	272.5	272.4	272.6	271.7	269.9	268.4	265.7	264.3	263.5
58°	265.2	267.3	268.3	268.1	268.2	267.5	265.7	264.1	261.5	260.0	259.2
58.5°	260.9	263.2	264.1	263.8	263.9	263.3	261.5	259.9	257.3	255.8	254.9
59°	256.4	258.7	259.6	259.4	259.8	258.8	257.1	255.3	252.9	251.6	250.6
59.5°	252.1	254.2	255.3	255.1	255.4	254.5	252.7	250.9	248.5	246.8	246.1
60°	247.7	249.8	250.8	250.6	250.9	250.0	248.1	246.5	244.2	242.5	241.6
60.5°	243.3	245.3	246.3	246.2	246.6	245.8	243.9	242.2	239.7	238.2	237.3
61°	239.1	241.0	242.0	241.8	242.3	241.2	239.5	237.8	235.3	233.7	233.0
61.5°	234.5	236.5	237.6	237.5	237.9	236.8	235.0	233.4	230.9	229.2	228.4
62°	229.9	232.0	233.2	233.1	233.5	232.5	230.5	228.9	226.5	224.7	223.7
62.5°	225.4	227.6	228.5	228.5	229.0	227.9	226.0	224.3	221.8	220.2	219.2
63°	220.9	223.1	223.9	224.0	224.4	223.4	221.5	219.7	217.3	215.6	214.7
63.5°	216.3	218.4	219.3	219.4	220.0	219.0	217.0	215.3	212.7	211.0	210.1
64°	211.9	214.0	214.8	214.8	215.4	214.2	212.4	210.7	208.2	206.4	205.6
64.5°	207.3	209.5	210.3	210.5	210.9	209.8	207.9	206.0	203.6	201.9	200.8
65°	202.7	204.8	205.7	205.9	206.2	205.2	203.2	201.3	199.1	197.3	196.3
65.5°	198.0	200.1	201.0	201.1	201.5	200.6	198.7	196.8	194.6	192.7	191.8
66°	193.6	195.5	196.4	196.4	197.0	195.9	193.9	192.0	189.7	188.1	187.3
66.5°	188.7	190.9	191.8	191.8	192.5	191.2	189.4	187.4	185.2	183.4	182.5
67°	184.1	186.2	187.1	187.2	187.8	186.8	184.8	182.7	180.5	178.7	177.6

TEST NUMBER: P869712
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	179.4	181.5	182.3	182.5	183.2	182.0	180.2	178.0	175.9	173.9	173.0
68°	174.6	176.6	177.5	177.6	178.4	177.1	175.4	173.3	171.1	169.4	168.3
68.5°	170.0	172.1	172.9	173.2	174.0	172.5	170.7	168.5	166.5	164.8	163.7
69°	165.3	167.4	168.1	168.5	169.3	167.8	165.8	163.9	161.7	159.9	159.0
69.5°	160.3	162.6	163.4	163.5	164.4	163.1	161.2	159.3	157.1	155.1	154.1
70°	155.6	157.8	158.6	158.7	159.7	158.4	156.3	154.3	152.1	150.5	149.3
70.5°	151.0	152.9	153.7	154.1	155.1	153.7	151.6	149.6	147.6	145.6	144.6
71°	146.1	148.3	149.0	149.3	150.4	149.1	147.0	144.8	142.8	140.9	139.9
71.5°	141.3	143.5	144.2	144.5	145.5	144.2	142.2	140.0	138.0	136.1	135.2
72°	136.6	138.7	139.4	139.7	140.8	139.5	137.4	135.3	133.1	131.2	130.2
72.5°	131.8	133.8	134.6	134.8	136.1	134.7	132.8	130.3	128.3	126.5	125.5
73°	127.0	128.9	129.8	130.0	131.1	129.8	127.7	125.5	123.6	121.7	120.7
73.5°	122.3	124.2	125.1	125.2	126.5	125.1	123.0	120.7	118.9	116.9	116.0
74°	117.5	119.5	120.3	120.5	121.7	120.4	118.3	116.0	114.1	112.1	111.2
74.5°	112.8	114.8	115.6	115.7	116.9	115.7	113.6	111.2	109.3	107.4	106.4
75°	107.8	109.8	110.7	110.8	112.1	110.8	108.8	106.4	104.6	102.6	101.7
75.5°	103.3	105.1	106.0	106.0	107.5	106.0	104.0	101.9	99.9	98.1	97.1
76°	98.5	100.5	101.4	101.3	102.7	101.4	99.3	97.1	95.2	93.4	92.3
76.5°	93.8	95.7	96.6	96.5	98.0	96.6	94.5	92.5	90.4	88.4	87.5
77°	89.1	91.1	92.0	91.9	93.2	92.0	89.9	87.9	85.7	83.9	82.9
77.5°	84.4	86.4	87.3	87.3	88.7	87.3	85.3	83.1	81.3	79.3	78.4
78°	79.9	81.8	82.5	82.7	83.9	82.7	80.6	78.6	76.4	74.9	73.8
78.5°	75.2	77.1	78.1	78.2	79.4	78.0	76.0	73.8	72.0	70.1	69.3
79°	70.8	72.7	73.6	73.6	74.8	73.5	71.6	69.4	67.4	65.7	64.9
79.5°	66.2	68.0	69.0	69.1	70.2	69.0	67.0	64.8	63.0	61.3	60.4
80°	61.8	63.5	64.4	64.6	65.7	64.7	62.5	60.4	58.7	57.2	56.2
80.5°	57.5	59.2	60.1	60.3	61.4	60.2	58.3	56.3	54.4	52.8	51.9
81°	53.2	54.9	55.8	56.0	57.3	56.1	54.0	51.9	50.2	48.6	47.9
81.5°	49.0	50.6	51.5	51.6	52.7	51.7	49.8	47.7	46.0	44.5	43.8
82°	44.7	46.5	47.2	47.2	48.5	47.5	45.8	43.7	41.8	40.4	39.7
82.5°	40.6	42.3	43.1	43.2	44.4	43.4	41.7	39.7	37.9	36.4	35.8
83°	36.8	38.4	39.1	39.2	40.5	39.5	37.7	35.8	34.1	32.7	32.1
83.5°	33.0	34.5	35.2	35.4	36.5	35.5	33.8	31.9	30.3	29.0	28.3
84°	29.3	30.8	31.4	31.6	32.6	31.7	30.1	28.2	26.6	25.5	24.8
84.5°	25.8	27.2	27.8	28.0	29.0	28.1	26.5	24.8	23.1	22.0	21.4
85°	22.4	23.8	24.3	24.3	25.6	24.6	23.0	21.3	19.8	18.7	18.2
85.5°	19.2	20.5	21.0	21.0	22.0	21.1	19.6	18.0	16.7	15.7	15.1
86°	16.3	17.4	17.9	17.9	18.8	17.9	16.5	15.1	14.0	12.9	12.4
86.5°	13.6	14.7	15.1	15.1	15.6	14.9	13.7	12.3	11.2	10.5	10.1
87°	11.0	12.1	12.4	12.4	13.0	12.2	11.2	10.0	9.0	8.2	7.9
87.5°	8.7	9.7	10.0	10.0	10.4	10.0	9.0	7.8	6.8	6.2	5.9
88°	6.6	7.4	7.8	7.7	8.3	7.7	6.8	5.7	4.9	4.3	4.2
88.5°	4.4	5.2	5.5	5.5	6.2	5.7	4.9	4.0	3.3	2.9	2.6
89°	3.0	3.6	3.9	3.8	4.4	3.9	3.2	2.5	1.9	1.6	1.5
89.5°	2.0	2.4	2.6	2.5	2.8	2.4	1.8	1.3	0.9	0.7	0.6

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



TEST NUMBER: P869712
CATALOG NUMBER: SMX18RLSFSD2W-1500LM-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: P869712
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	536.9	536.9	536.9	536.9	536.9	536.9
0.5°	536.8	536.7	537.3	536.6	536.6	536.5
1°	536.4	536.4	537.0	536.2	536.5	536.5
1.5°	536.3	536.6	536.9	536.2	536.5	536.5
2°	536.1	536.6	536.5	536.0	536.5	536.3
2.5°	536.0	536.2	536.4	536.0	536.3	536.0
3°	535.6	535.7	536.4	535.5	536.2	535.6
3.5°	535.3	535.3	536.0	535.3	535.8	535.4
4°	535.3	534.8	535.5	535.3	535.3	535.2
4.5°	534.7	534.6	535.0	534.6	534.7	535.0
5°	534.4	534.4	534.7	534.0	534.1	534.8
5.5°	533.4	533.5	534.1	533.3	533.8	534.1
6°	532.8	533.0	533.4	533.2	533.5	533.4
6.5°	532.4	532.4	532.9	532.8	532.9	533.0
7°	532.0	531.7	532.3	532.0	532.5	532.4
7.5°	530.9	531.1	531.4	531.4	531.9	531.7
8°	530.3	530.2	530.7	530.6	531.0	531.0
8.5°	529.6	529.5	530.1	529.7	530.3	530.4
9°	528.6	528.6	529.5	529.1	529.4	529.6
9.5°	527.9	527.8	528.1	528.2	528.6	528.7
10°	527.2	527.1	527.2	527.0	527.8	528.1
10.5°	526.1	526.3	526.2	525.9	526.9	527.5
11°	525.0	525.1	525.3	525.2	526.2	526.5
11.5°	524.1	524.1	524.5	524.2	525.5	525.4
12°	523.0	523.0	523.7	523.1	524.4	524.6
12.5°	521.8	521.9	522.2	522.1	523.3	523.5
13°	520.7	520.9	521.4	521.3	522.2	522.5
13.5°	519.7	519.9	520.2	520.0	521.3	521.3
14°	518.3	518.5	519.1	519.0	520.3	520.7
14.5°	517.2	517.3	517.9	517.8	519.2	519.3
15°	516.0	516.0	516.5	516.3	517.9	517.7
15.5°	514.9	514.4	515.2	515.2	516.3	516.4
16°	513.6	513.0	513.9	513.7	514.9	514.9
16.5°	512.0	511.4	512.3	512.6	513.4	513.8
17°	510.6	509.7	510.6	511.5	512.0	512.3
17.5°	508.8	508.0	509.2	509.9	510.5	510.6
18°	507.3	506.5	507.3	508.3	508.8	509.2
18.5°	505.2	504.8	505.2	506.7	507.1	507.5
19°	503.5	503.1	503.5	505.4	505.4	505.7
19.5°	501.7	501.1	501.9	503.5	503.7	504.2
20°	500.0	499.4	500.5	501.7	502.2	502.5
20.5°	498.1	497.7	498.6	500.1	500.2	500.8
21°	496.3	495.8	496.8	498.5	498.4	499.0
21.5°	494.4	493.7	494.8	496.4	496.3	496.8
22°	492.5	491.7	492.6	494.3	494.3	494.9

TEST NUMBER: P869712
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	490.5	489.8	490.8	492.4	492.7	493.1
23°	488.6	487.9	489.0	490.3	491.0	491.4
23.5°	486.3	485.9	486.6	488.2	488.7	489.2
24°	484.3	483.8	484.5	485.9	486.4	487.3
24.5°	481.9	481.7	482.3	483.7	484.5	485.3
25°	479.9	479.7	480.6	481.6	482.6	483.2
25.5°	477.7	477.2	478.4	479.4	480.4	480.6
26°	475.4	475.0	476.2	477.1	478.2	478.6
26.5°	472.9	472.4	473.9	474.7	475.9	476.0
27°	470.7	470.1	471.6	472.5	473.5	473.9
27.5°	468.3	467.5	469.2	470.1	471.2	471.6
28°	466.0	465.3	467.0	467.8	469.0	469.3
28.5°	463.4	462.8	464.3	465.1	466.7	466.6
29°	461.1	460.2	461.8	462.7	464.2	464.2
29.5°	458.4	457.6	459.1	460.1	461.5	461.9
30°	455.8	455.3	456.7	457.7	459.1	459.5
30.5°	453.5	452.6	453.9	454.8	456.6	457.0
31°	450.7	449.9	451.3	452.3	454.2	454.3
31.5°	447.9	447.2	448.6	449.7	451.3	452.0
32°	445.2	444.3	446.2	447.2	448.8	449.2
32.5°	442.5	441.6	443.5	444.4	446.1	446.4
33°	439.8	439.1	440.8	441.7	443.6	443.8
33.5°	437.0	436.0	437.8	438.8	441.0	441.1
34°	434.3	433.1	435.0	436.0	438.1	438.2
34.5°	431.1	430.3	432.0	433.2	435.3	435.3
35°	428.1	427.5	429.2	430.1	432.3	432.3
35.5°	425.2	424.4	425.9	427.1	429.2	429.1
36°	422.3	421.5	423.2	424.4	426.5	426.5
36.5°	419.5	418.4	420.1	421.5	423.7	423.5
37°	416.5	415.3	417.0	418.4	420.5	420.6
37.5°	413.4	412.4	413.7	415.4	417.5	417.6
38°	409.9	409.2	410.6	412.1	414.2	414.1
38.5°	407.1	405.9	407.4	408.9	411.0	411.0
39°	403.9	402.8	404.2	405.9	407.9	408.0
39.5°	400.5	399.6	400.8	402.5	404.5	404.9
40°	397.2	396.2	397.9	399.3	401.2	401.4
40.5°	393.8	392.9	394.3	396.1	398.1	398.2
41°	390.3	389.6	391.0	392.5	394.3	395.2
41.5°	387.2	386.1	387.6	389.4	391.1	391.9
42°	383.7	382.7	384.3	385.9	387.6	388.4
42.5°	380.2	379.4	380.7	382.4	384.2	385.0
43°	377.0	376.1	377.4	378.9	380.8	381.6
43.5°	373.5	372.6	373.8	375.7	377.6	378.1
44°	369.7	368.9	370.3	372.2	374.2	374.8
44.5°	366.3	365.4	366.8	368.5	370.6	371.5

TEST NUMBER: P869712
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	362.7	361.7	363.2	365.2	366.9	367.8
45.5°	359.3	358.0	359.7	361.6	363.1	364.0
46°	355.3	354.3	356.1	357.8	359.5	360.7
46.5°	351.7	350.7	352.3	354.2	356.0	357.0
47°	348.1	346.8	348.4	350.3	352.3	353.4
47.5°	344.1	343.2	344.8	346.8	348.6	349.5
48°	340.3	339.3	340.8	342.9	344.8	345.9
48.5°	336.6	335.5	337.1	339.2	341.2	342.3
49°	332.7	332.0	333.3	335.3	337.5	338.3
49.5°	328.8	328.0	329.5	331.6	333.5	334.5
50°	325.0	324.0	325.4	327.6	329.7	330.7
50.5°	321.0	320.1	321.6	323.9	325.8	326.8
51°	317.1	316.2	317.6	319.9	321.9	322.7
51.5°	313.2	312.2	313.5	315.8	317.9	318.9
52°	309.1	308.0	309.6	311.7	313.9	314.9
52.5°	304.9	304.2	305.7	307.8	309.7	310.7
53°	301.2	300.0	301.6	303.7	305.9	306.5
53.5°	297.0	295.9	297.5	299.7	301.7	302.7
54°	292.7	291.7	293.3	295.4	297.5	298.7
54.5°	288.6	287.6	289.2	291.3	293.4	294.8
55°	284.7	283.6	285.2	287.3	289.2	290.3
55.5°	280.4	279.4	281.1	283.1	285.4	286.3
56°	276.1	275.3	276.7	279.1	281.1	282.3
56.5°	271.8	270.9	272.5	274.8	276.8	278.0
57°	267.8	266.6	268.2	270.5	272.4	273.6
57.5°	263.4	262.4	263.9	266.0	268.1	269.4
58°	259.0	258.0	259.6	261.8	263.8	265.2
58.5°	254.7	253.6	255.4	257.4	259.6	260.9
59°	250.4	249.3	250.9	253.0	255.1	256.4
59.5°	245.9	244.7	246.5	248.6	250.7	252.1
60°	241.5	240.3	242.1	244.2	246.2	247.7
60.5°	237.2	236.0	237.4	239.8	241.8	243.3
61°	232.7	231.6	233.2	235.3	237.4	239.1
61.5°	228.1	227.1	228.8	230.9	233.1	234.5
62°	223.7	222.6	224.2	226.3	228.5	229.9
62.5°	219.2	218.1	219.7	221.8	223.9	225.4
63°	214.6	213.5	215.0	217.0	219.4	220.9
63.5°	210.1	208.9	210.5	212.5	214.8	216.3
64°	205.4	204.2	205.8	208.1	210.3	211.9
64.5°	200.7	199.7	201.2	203.3	205.6	207.3
65°	196.2	195.2	196.6	198.5	201.1	202.7
65.5°	191.5	190.4	192.1	194.0	196.3	198.0
66°	186.9	185.9	187.3	189.4	191.7	193.6
66.5°	182.2	180.9	182.7	184.6	187.0	188.7
67°	177.4	176.4	177.9	179.9	182.4	184.1

TEST NUMBER: P869712
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	172.9	171.7	173.2	175.3	177.7	179.4
68°	168.2	166.8	168.5	170.5	173.0	174.6
68.5°	163.4	162.2	163.6	165.7	168.2	170.0
69°	158.7	157.4	158.9	160.9	163.4	165.3
69.5°	153.9	152.5	154.2	156.2	158.6	160.3
70°	149.2	147.8	149.6	151.5	153.8	155.6
70.5°	144.6	143.1	144.7	146.7	149.2	151.0
71°	139.8	138.3	140.0	142.1	144.4	146.1
71.5°	134.9	133.5	135.1	137.0	139.5	141.3
72°	130.2	128.8	130.2	132.3	134.7	136.6
72.5°	125.3	124.0	125.5	127.5	130.0	131.8
73°	120.5	119.2	120.7	122.7	125.1	127.0
73.5°	115.9	114.4	115.8	118.0	120.4	122.3
74°	111.2	109.6	111.1	113.2	115.4	117.5
74.5°	106.4	105.0	106.3	108.3	110.6	112.8
75°	101.7	100.3	101.7	103.7	105.9	107.8
75.5°	97.1	95.6	96.8	99.0	101.3	103.3
76°	92.3	90.8	92.2	94.2	96.4	98.5
76.5°	87.6	86.2	87.5	89.6	91.9	93.8
77°	82.8	81.5	82.9	85.0	87.2	89.1
77.5°	78.3	76.9	78.3	80.5	82.7	84.4
78°	73.7	72.4	73.8	75.8	78.1	79.9
78.5°	69.2	67.9	69.3	71.2	73.5	75.2
79°	64.8	63.3	64.8	66.7	69.0	70.8
79.5°	60.4	59.0	60.3	62.3	64.5	66.2
80°	56.1	54.7	55.9	57.9	60.0	61.8
80.5°	51.9	50.4	51.7	53.6	55.6	57.5
81°	47.8	46.2	47.5	49.4	51.4	53.2
81.5°	43.6	42.1	43.3	45.2	47.3	49.0
82°	39.5	38.2	39.3	41.2	43.0	44.7
82.5°	35.6	34.4	35.5	37.2	39.1	40.6
83°	31.9	30.6	31.8	33.5	35.3	36.8
83.5°	28.2	27.0	28.0	29.6	31.6	33.0
84°	24.7	23.5	24.5	26.1	27.9	29.3
84.5°	21.4	20.3	21.2	22.8	24.4	25.8
85°	18.0	17.3	18.2	19.6	21.1	22.4
85.5°	15.1	14.5	15.3	16.5	18.0	19.2
86°	12.4	11.8	12.6	13.8	15.2	16.3
86.5°	10.1	9.4	10.1	11.2	12.5	13.6
87°	8.0	7.2	7.8	8.9	10.0	11.0
87.5°	5.9	5.0	5.7	6.7	7.8	8.7
88°	4.1	3.5	3.9	4.7	5.5	6.6
88.5°	2.6	2.2	2.6	3.2	3.9	4.4
89°	1.5	1.3	1.6	2.1	2.6	3.0
89.5°	0.6	0.8	1.1	1.3	1.7	2.0

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



TEST NUMBER: P869712
CATALOG NUMBER: SMX18RLSFSD2W-1500LM-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)