

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: P869698

Luminaire Tested: **SMX18RLSFS010-1500LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869698
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS010-1500LM-3500K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

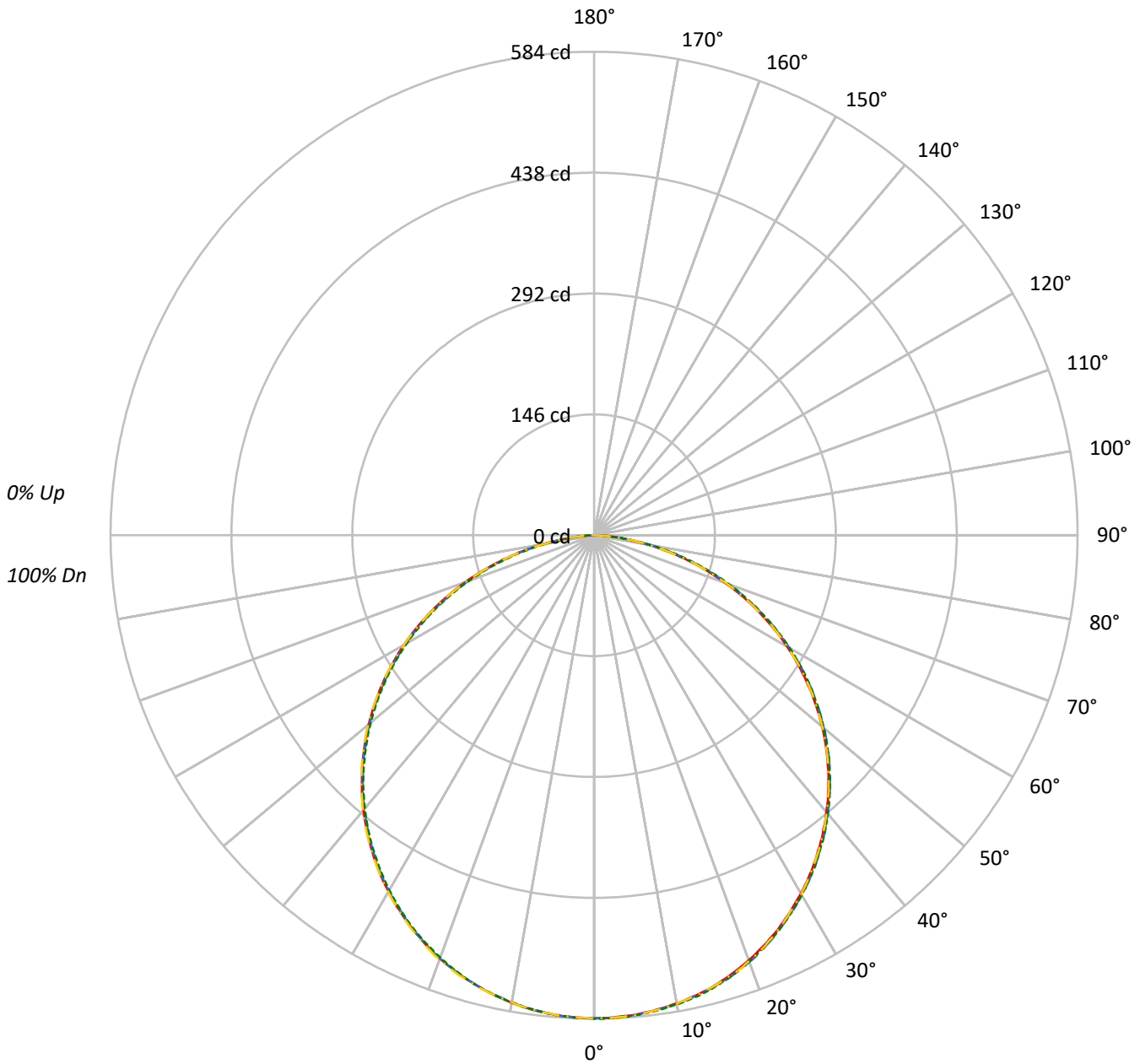
Lumens per Lamp: N/A
 Luminaire Lumens: 1703.7 lumens
 Efficiency: N/A
 Efficacy: 104.5 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 16.3
 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°	3555	3555	3555	3555
5°	3555	3557	3551	3552
10°	3551	3560	3547	3544
15°	3550	3559	3537	3538
20°	3541	3550	3528	3519
25°	3530	3541	3512	3505
30°	3514	3528	3494	3481
35°	3494	3512	3473	3455
40°	3470	3491	3445	3425
45°	3444	3466	3411	3387
50°	3407	3432	3369	3337
55°	3352	3388	3312	3274
60°	3281	3323	3234	3182
65°	3177	3231	3120	3058
70°	3013	3092	2946	2862
75°	2758	2869	2676	2565
80°	2354	2508	2238	2087
85°	1698	1943	1510	1314

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	3.2
10°-20°	158.7	9.3
20°-30°	241.7	14.2
30°-40°	293.5	17.2
40°-50°	307.2	18.0
50°-60°	280.6	16.5
60°-70°	215.8	12.7
70°-80°	122.1	7.2
80°-90°	28.8	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°	455.7	26.7
0°-40°	749.2	44.0
0°-60°	1337.0	78.5
0°-90°	1703.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1703.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	584	584	584	584	584	
5°	581	582	581	581	581	55
15°	563	564	561	561	563	159
25°	525	527	522	522	525	242
35°	470	472	467	465	470	294
45°	400	402	396	393	400	308
55°	316	319	312	308	316	282
65°	220	224	216	212	220	218
75°	117	122	114	109	117	124
85°	24	28	22	19	24	30
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°	583.7	583.7	583.7	583.7	583.7	583.7	583.7	583.7	583.7	583.7	583.7
0.5°	583.2	583.6	583.6	583.6	584.0	584.4	583.6	583.8	583.1	583.6	583.7
1°	583.2	583.7	583.5	583.8	584.1	584.2	583.2	583.5	583.2	583.4	583.5
1.5°	583.2	583.9	583.4	583.4	583.9	583.9	583.5	583.3	583.0	583.4	583.4
2°	583.0	583.6	583.3	583.2	583.6	583.9	583.4	583.1	582.8	583.1	582.9
2.5°	582.7	583.5	583.2	583.1	583.6	583.6	583.1	582.7	582.8	583.0	582.9
3°	582.3	583.2	583.2	582.8	583.2	583.0	582.8	582.4	582.2	583.1	582.4
3.5°	582.0	582.8	583.0	582.8	582.8	582.6	582.8	582.3	582.3	582.7	582.3
4°	581.9	582.5	582.5	582.3	582.8	582.5	582.3	582.0	582.0	582.0	581.9
4.5°	581.6	581.8	581.9	582.2	582.1	582.3	582.0	581.7	581.5	581.6	581.5
5°	581.4	581.3	581.4	581.7	581.7	581.9	581.6	580.9	580.8	581.1	581.1
5.5°	580.6	581.2	581.2	581.5	581.4	581.6	581.3	580.6	580.3	580.4	580.5
6°	579.9	580.6	580.2	580.8	580.9	581.0	580.5	580.2	579.6	579.7	579.3
6.5°	579.4	580.0	579.8	580.2	580.2	580.5	579.7	579.7	579.4	578.9	578.7
7°	578.8	579.2	579.2	579.4	579.5	579.8	579.0	578.8	578.5	578.5	578.3
7.5°	578.0	578.4	578.6	578.9	579.3	579.0	578.7	577.8	577.8	577.8	577.5
8°	577.3	577.8	577.7	578.0	578.5	578.4	578.1	577.4	577.0	576.8	576.7
8.5°	576.6	577.2	577.2	577.3	577.7	577.8	576.9	576.6	576.3	576.1	576.0
9°	575.8	576.5	576.2	576.6	576.8	577.0	576.1	575.8	575.3	575.2	575.0
9.5°	574.8	575.7	575.6	575.9	576.1	576.3	575.5	574.9	574.5	574.1	574.1
10°	574.1	574.7	574.6	574.9	575.5	575.3	574.4	573.7	573.5	573.0	572.8
10.5°	573.5	573.8	573.7	574.3	574.7	574.4	573.3	572.9	572.2	572.0	571.8
11°	572.4	572.7	572.8	573.3	573.6	573.4	572.4	571.9	571.1	571.3	570.6
11.5°	571.2	571.7	571.7	572.4	572.8	572.5	571.4	570.5	570.0	570.3	569.6
12°	570.3	570.8	570.7	571.5	571.7	571.4	570.5	569.4	569.1	568.8	568.5
12.5°	569.1	569.6	569.4	570.3	571.0	570.3	569.4	568.2	567.5	567.5	567.4
13°	568.0	568.7	568.4	569.5	569.9	569.4	568.2	566.9	566.4	566.2	566.1
13.5°	566.7	567.4	567.5	568.2	568.5	568.2	566.9	566.0	565.0	564.7	565.0
14°	566.0	566.2	566.3	567.3	567.3	566.9	565.5	564.7	563.7	563.6	563.7
14.5°	564.6	564.7	565.2	566.1	566.1	565.8	564.5	563.1	562.5	561.9	562.0
15°	562.9	563.3	563.9	564.3	564.4	564.3	563.3	561.8	560.9	560.7	560.7
15.5°	561.4	562.2	562.5	563.1	563.4	563.0	561.8	560.1	559.4	559.3	559.4
16°	559.7	561.1	561.5	561.7	561.6	561.7	560.5	558.6	558.0	557.9	557.9
16.5°	558.6	559.6	560.3	560.2	560.1	560.1	558.8	557.4	556.5	556.3	556.2
17°	556.9	557.9	558.8	558.6	558.7	558.5	557.4	555.8	554.7	554.5	554.3
17.5°	555.1	556.3	557.2	557.2	556.9	556.9	556.1	554.1	553.4	552.7	552.9
18°	553.6	554.6	555.6	555.1	555.2	555.1	554.8	552.4	551.6	551.0	551.3
18.5°	551.7	552.7	554.1	553.5	553.2	553.3	552.9	550.5	549.6	549.3	549.4
19°	549.8	551.2	552.4	551.6	551.5	551.4	551.4	548.9	548.0	547.3	547.9
19.5°	548.1	549.3	550.4	549.8	549.9	549.8	549.2	547.2	546.0	545.3	546.1
20°	546.3	547.7	548.7	547.6	547.7	547.9	547.4	545.1	544.2	543.7	544.1
20.5°	544.4	545.4	547.0	545.9	545.8	545.6	545.4	543.2	542.5	541.7	542.1
21°	542.4	543.3	545.1	543.9	544.0	543.4	543.9	541.2	540.6	539.7	540.2
21.5°	540.1	541.3	543.1	542.1	541.8	541.7	541.7	539.4	538.2	537.5	538.2
22°	538.1	539.3	541.0	539.9	539.9	539.5	539.7	537.5	535.9	535.3	536.2

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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°	536.1	537.3	538.8	537.8	537.8	537.3	537.5	535.4	533.9	533.0	533.7
23°	534.2	535.4	536.4	535.9	535.6	535.4	535.0	533.0	531.7	531.1	531.3
23.5°	531.8	533.4	534.5	533.8	533.5	533.4	533.0	530.9	529.3	529.2	528.8
24°	529.7	531.2	532.1	531.5	531.4	530.8	530.7	528.9	527.3	526.4	526.5
24.5°	527.6	529.0	529.5	529.2	529.3	528.2	528.2	526.6	525.0	524.1	524.4
25°	525.3	526.5	527.2	527.0	526.8	526.4	525.9	524.5	522.5	521.7	521.5
25.5°	522.5	524.0	524.8	524.8	524.7	524.4	523.4	522.3	520.2	519.4	519.1
26°	520.3	521.9	522.3	522.4	522.2	521.6	520.9	519.8	517.6	517.1	517.0
26.5°	517.5	519.4	519.8	519.8	519.8	519.2	518.3	517.3	515.3	514.6	514.2
27°	515.2	517.1	517.2	517.5	517.0	516.9	515.8	514.8	512.7	512.3	511.6
27.5°	512.7	514.7	514.8	515.4	514.8	514.1	513.0	512.4	510.1	509.9	509.2
28°	510.2	512.0	512.5	512.8	512.4	511.8	510.4	509.7	507.8	507.4	506.6
28.5°	507.3	509.7	509.5	510.0	509.7	509.3	508.1	507.3	505.2	504.6	504.1
29°	504.6	507.2	506.9	507.4	507.2	506.6	505.4	504.7	502.5	501.8	501.3
29.5°	502.2	504.6	504.6	504.9	504.3	503.8	502.8	502.2	499.7	499.1	498.6
30°	499.6	501.8	501.9	502.3	501.6	501.1	500.3	499.3	496.8	496.4	495.5
30.5°	496.8	499.3	499.1	499.6	498.8	498.5	497.6	496.7	494.0	493.7	493.0
31°	493.9	496.4	496.4	496.6	496.3	495.7	494.6	493.8	491.2	490.5	490.2
31.5°	491.3	493.3	493.5	494.0	493.3	492.7	491.8	490.8	488.4	487.6	487.2
32°	488.3	490.3	490.7	491.3	490.4	489.7	488.8	487.9	485.4	485.1	484.1
32.5°	485.3	487.5	487.6	488.5	487.4	487.1	485.8	485.1	482.4	482.1	481.3
33°	482.5	484.6	484.5	485.4	484.7	484.1	482.9	481.9	479.4	479.3	478.2
33.5°	479.5	481.6	481.7	482.3	482.0	481.2	479.8	478.9	476.3	476.2	475.1
34°	476.3	478.8	478.8	479.3	478.8	478.2	476.5	476.2	473.5	473.0	471.8
34.5°	473.2	475.6	475.6	476.2	475.5	475.2	473.7	473.1	470.4	469.8	468.7
35°	469.9	472.6	472.3	473.2	472.3	472.1	470.4	469.6	467.0	466.7	465.6
35.5°	466.5	469.3	469.3	470.2	469.2	468.9	467.3	466.5	463.9	463.6	462.4
36°	463.7	466.3	466.0	467.0	465.9	465.7	464.0	463.2	460.6	460.3	459.1
36.5°	460.4	463.0	462.8	463.6	462.6	462.4	460.8	460.1	457.4	457.3	456.0
37°	457.3	459.8	459.7	460.2	459.6	459.3	457.6	456.8	454.0	453.7	452.3
37.5°	454.0	456.3	456.3	457.1	456.5	456.0	454.4	453.6	450.7	450.0	448.9
38°	450.1	452.9	452.9	453.7	453.0	452.5	450.9	450.3	447.3	446.7	445.6
38.5°	446.9	449.4	449.6	450.5	449.5	449.1	447.5	447.0	443.8	442.9	442.2
39°	443.6	446.2	446.2	447.0	446.2	445.9	443.9	443.4	440.4	439.7	438.8
39.5°	440.2	442.4	442.7	443.5	442.7	442.2	440.5	440.0	436.8	436.3	435.4
40°	436.4	438.9	439.3	439.8	439.1	438.8	437.2	436.3	433.3	432.6	431.7
40.5°	432.9	435.3	435.7	436.4	435.6	435.5	433.9	432.5	429.8	428.8	428.3
41°	429.6	431.8	432.1	432.8	432.0	431.8	430.1	428.6	426.2	425.4	424.4
41.5°	426.1	428.1	428.6	429.1	428.5	428.0	426.7	425.2	422.7	421.6	421.0
42°	422.2	424.3	425.1	425.5	424.9	424.5	422.9	421.4	419.0	417.8	417.1
42.5°	418.6	420.8	421.6	421.8	421.1	420.8	419.4	417.5	415.2	414.3	413.4
43°	414.9	416.9	417.7	417.9	417.4	417.1	415.4	413.9	411.3	410.6	409.8
43.5°	411.0	413.3	413.8	414.3	413.7	413.2	411.5	410.1	407.5	406.9	406.0
44°	407.5	409.6	410.3	410.4	410.0	409.8	407.7	406.4	403.7	403.2	402.1
44.5°	403.9	405.9	406.6	406.8	406.3	405.8	404.0	402.4	399.9	399.3	398.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	399.8	401.7	402.9	403.1	402.4	402.0	400.2	398.5	396.0	395.3	394.3
45.5°	395.7	398.0	398.9	399.1	398.4	398.1	396.4	394.7	392.2	391.0	390.5
46°	392.2	394.1	394.9	395.0	394.5	394.2	392.5	390.8	388.2	387.2	386.5
46.5°	388.1	390.1	391.2	390.9	390.6	390.3	388.7	386.7	383.9	383.1	382.6
47°	384.2	386.2	387.1	387.2	386.6	386.3	384.6	383.0	380.1	379.2	378.6
47.5°	379.9	382.1	383.2	383.3	382.8	382.3	380.4	379.1	376.1	375.2	374.3
48°	376.0	378.2	379.0	379.1	378.6	378.4	376.6	374.8	372.2	371.0	370.2
48.5°	372.1	374.2	375.0	374.9	374.4	374.2	372.5	370.5	367.8	366.9	366.3
49°	367.8	369.9	370.8	371.0	370.4	370.1	368.1	366.4	363.9	362.7	361.9
49.5°	363.6	365.7	366.6	366.9	366.3	366.1	364.1	362.2	359.9	358.6	357.9
50°	359.5	361.7	362.4	362.5	362.2	361.9	360.0	358.2	355.5	354.6	353.6
50.5°	355.3	357.6	358.3	358.5	358.1	357.5	355.7	353.9	351.2	350.1	349.4
51°	350.8	353.3	354.0	354.1	353.9	353.3	351.4	349.7	346.8	345.7	344.9
51.5°	346.7	349.1	349.8	349.9	349.5	349.1	346.9	345.5	342.7	341.6	340.7
52°	342.4	344.7	345.5	345.7	345.3	344.7	342.8	341.2	338.6	337.1	336.5
52.5°	337.8	340.3	341.0	341.2	340.8	340.6	338.6	337.0	334.1	332.8	332.0
53°	333.2	335.9	336.7	336.7	336.3	336.2	334.3	332.3	329.6	328.3	327.6
53.5°	329.1	331.5	332.4	332.5	332.1	331.8	329.8	328.0	325.1	323.9	323.2
54°	324.8	327.0	327.9	327.9	327.8	327.2	325.4	323.4	321.0	319.4	318.7
54.5°	320.4	322.5	323.6	323.4	323.5	322.9	321.0	319.1	316.5	314.7	314.0
55°	315.6	318.1	319.0	318.9	319.0	318.3	316.5	314.6	311.9	310.4	309.8
55.5°	311.2	313.6	314.6	314.4	314.5	313.9	312.0	310.4	307.3	306.2	305.0
56°	306.9	309.0	310.0	309.9	310.1	309.3	307.4	305.6	302.7	301.4	300.3
56.5°	302.2	304.4	305.4	305.3	305.6	304.7	302.7	301.2	298.1	296.7	295.7
57°	297.4	299.7	300.9	300.8	301.0	300.2	298.3	296.5	293.7	292.1	291.0
57.5°	292.8	295.2	296.3	296.1	296.4	295.4	293.5	291.8	288.9	287.3	286.5
58°	288.3	290.6	291.6	291.5	291.6	290.8	288.9	287.1	284.3	282.7	281.8
58.5°	283.7	286.1	287.1	286.8	286.9	286.2	284.3	282.5	279.7	278.0	277.1
59°	278.8	281.2	282.2	282.0	282.4	281.3	279.5	277.6	274.9	273.5	272.4
59.5°	274.1	276.4	277.5	277.3	277.7	276.6	274.7	272.8	270.1	268.3	267.5
60°	269.3	271.6	272.6	272.4	272.8	271.8	269.8	267.9	265.5	263.6	262.7
60.5°	264.5	266.7	267.8	267.7	268.1	267.2	265.2	263.3	260.6	258.9	258.0
61°	259.9	262.0	263.1	262.9	263.4	262.3	260.3	258.6	255.8	254.1	253.3
61.5°	254.9	257.1	258.2	258.2	258.7	257.4	255.5	253.7	251.0	249.2	248.3
62°	250.0	252.2	253.5	253.4	253.9	252.7	250.6	248.8	246.2	244.2	243.2
62.5°	245.0	247.5	248.4	248.4	248.9	247.8	245.7	243.8	241.1	239.4	238.3
63°	240.2	242.5	243.4	243.5	244.0	242.9	240.8	238.9	236.3	234.4	233.4
63.5°	235.2	237.4	238.4	238.6	239.2	238.1	235.9	234.1	231.3	229.4	228.4
64°	230.3	232.6	233.5	233.5	234.1	232.9	231.0	229.0	226.4	224.4	223.5
64.5°	225.3	227.7	228.6	228.8	229.3	228.1	226.0	223.9	221.4	219.4	218.3
65°	220.4	222.6	223.6	223.8	224.2	223.1	220.9	218.9	216.5	214.4	213.4
65.5°	215.3	217.6	218.5	218.6	219.1	218.1	216.0	213.9	211.5	209.4	208.5
66°	210.4	212.6	213.5	213.5	214.1	213.0	210.8	208.7	206.3	204.5	203.6
66.5°	205.2	207.5	208.5	208.5	209.3	207.9	205.9	203.7	201.3	199.3	198.4
67°	200.1	202.4	203.4	203.5	204.2	203.1	200.9	198.6	196.2	194.2	193.1

TEST NUMBER: P869698
 CATALOG NUMBER: SMX18RLSFS010-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	195.1	197.3	198.2	198.4	199.2	197.8	195.9	193.5	191.2	189.0	188.1
68°	189.8	192.0	193.0	193.1	194.0	192.6	190.7	188.4	186.1	184.1	182.9
68.5°	184.8	187.1	187.9	188.2	189.2	187.5	185.6	183.2	181.1	179.1	178.0
69°	179.7	182.0	182.7	183.2	184.0	182.5	180.2	178.1	175.8	173.8	172.8
69.5°	174.3	176.7	177.6	177.7	178.7	177.3	175.2	173.1	170.8	168.6	167.5
70°	169.2	171.6	172.4	172.5	173.6	172.2	170.0	167.8	165.4	163.6	162.4
70.5°	164.1	166.3	167.1	167.5	168.6	167.0	164.9	162.7	160.4	158.3	157.2
71°	158.8	161.3	162.0	162.3	163.5	162.1	159.9	157.4	155.2	153.2	152.1
71.5°	153.6	156.0	156.8	157.1	158.2	156.8	154.6	152.2	150.0	148.0	146.9
72°	148.5	150.8	151.6	151.9	153.1	151.7	149.4	147.1	144.7	142.6	141.6
72.5°	143.3	145.4	146.3	146.6	147.9	146.5	144.3	141.7	139.4	137.5	136.5
73°	138.0	140.2	141.1	141.3	142.6	141.1	138.8	136.5	134.4	132.3	131.2
73.5°	132.9	135.0	136.0	136.1	137.6	136.0	133.7	131.2	129.3	127.1	126.1
74°	127.8	129.9	130.7	131.0	132.3	130.9	128.6	126.1	124.0	121.9	120.9
74.5°	122.6	124.8	125.7	125.7	127.1	125.7	123.5	120.9	118.9	116.8	115.7
75°	117.2	119.4	120.3	120.4	121.9	120.5	118.3	115.6	113.7	111.5	110.5
75.5°	112.3	114.3	115.3	115.2	116.8	115.3	113.1	110.8	108.6	106.6	105.5
76°	107.1	109.2	110.2	110.1	111.6	110.2	108.0	105.6	103.5	101.5	100.3
76.5°	102.0	104.1	105.0	104.9	106.6	105.0	102.7	100.6	98.3	96.1	95.2
77°	96.9	99.0	100.0	99.9	101.4	100.0	97.7	95.5	93.2	91.2	90.1
77.5°	91.7	93.9	94.9	94.9	96.4	94.9	92.7	90.3	88.3	86.2	85.2
78°	86.8	88.9	89.7	89.9	91.3	89.9	87.7	85.4	83.1	81.4	80.2
78.5°	81.8	83.8	84.9	85.0	86.3	84.8	82.6	80.2	78.2	76.2	75.3
79°	76.9	79.0	80.0	80.1	81.3	79.9	77.8	75.4	73.3	71.4	70.6
79.5°	71.9	74.0	75.0	75.1	76.3	75.0	72.9	70.5	68.5	66.6	65.7
80°	67.1	69.1	70.1	70.2	71.5	70.3	67.9	65.7	63.8	62.1	61.0
80.5°	62.5	64.4	65.3	65.6	66.7	65.5	63.4	61.2	59.1	57.4	56.5
81°	57.8	59.7	60.6	60.9	62.3	61.0	58.7	56.5	54.6	52.8	52.0
81.5°	53.2	55.0	56.0	56.1	57.3	56.2	54.2	51.9	50.0	48.4	47.6
82°	48.6	50.5	51.3	51.3	52.7	51.6	49.8	47.5	45.4	43.9	43.1
82.5°	44.2	46.0	46.8	46.9	48.3	47.2	45.3	43.1	41.2	39.6	38.9
83°	40.0	41.7	42.5	42.6	44.0	42.9	41.0	38.9	37.0	35.5	34.8
83.5°	35.8	37.5	38.3	38.4	39.7	38.6	36.8	34.7	32.9	31.5	30.8
84°	31.9	33.5	34.2	34.3	35.5	34.5	32.7	30.7	28.9	27.7	26.9
84.5°	28.0	29.6	30.2	30.4	31.5	30.6	28.8	26.9	25.2	23.9	23.3
85°	24.3	25.8	26.4	26.4	27.8	26.7	25.0	23.2	21.6	20.3	19.7
85.5°	20.8	22.2	22.8	22.8	23.9	23.0	21.3	19.6	18.2	17.1	16.4
86°	17.7	18.9	19.4	19.5	20.4	19.4	17.9	16.4	15.2	14.0	13.5
86.5°	14.8	16.0	16.4	16.4	16.9	16.2	14.9	13.3	12.2	11.4	11.0
87°	11.9	13.2	13.5	13.5	14.1	13.3	12.1	10.8	9.7	8.9	8.6
87.5°	9.5	10.5	10.9	10.9	11.3	10.8	9.7	8.5	7.4	6.8	6.4
88°	7.1	8.0	8.5	8.4	9.0	8.3	7.4	6.2	5.4	4.7	4.6
88.5°	4.8	5.7	6.0	6.0	6.7	6.2	5.3	4.3	3.5	3.1	2.8
89°	3.3	4.0	4.2	4.1	4.8	4.3	3.5	2.7	2.1	1.7	1.6
89.5°	2.1	2.6	2.8	2.7	3.0	2.6	2.0	1.4	1.0	0.7	0.6

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



TEST NUMBER: P869698
CATALOG NUMBER: SMX18RLSFS010-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P869698
 CATALOG NUMBER: SMX18RLSFS010-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	583.7	583.7	583.7	583.7	583.7	583.7
0.5°	583.6	583.5	584.1	583.4	583.4	583.2
1°	583.1	583.1	583.7	583.0	583.3	583.2
1.5°	583.0	583.4	583.6	582.9	583.2	583.2
2°	582.8	583.4	583.3	582.7	583.2	583.0
2.5°	582.7	582.9	583.1	582.7	583.0	582.7
3°	582.2	582.4	583.1	582.1	583.0	582.3
3.5°	582.0	582.0	582.7	582.0	582.5	582.0
4°	582.0	581.4	582.1	581.9	581.9	581.9
4.5°	581.3	581.2	581.6	581.2	581.3	581.6
5°	580.9	580.9	581.3	580.5	580.6	581.4
5.5°	579.8	580.0	580.6	579.8	580.3	580.6
6°	579.2	579.4	579.8	579.7	580.0	579.9
6.5°	578.8	578.8	579.4	579.2	579.4	579.4
7°	578.3	578.0	578.7	578.4	578.9	578.8
7.5°	577.1	577.4	577.7	577.7	578.3	578.0
8°	576.5	576.4	576.9	576.8	577.3	577.3
8.5°	575.7	575.6	576.3	575.8	576.5	576.6
9°	574.6	574.6	575.6	575.2	575.5	575.8
9.5°	573.9	573.8	574.1	574.2	574.6	574.8
10°	573.1	573.0	573.1	572.9	573.8	574.1
10.5°	571.9	572.1	572.1	571.7	572.8	573.5
11°	570.7	570.8	571.1	571.0	572.1	572.4
11.5°	569.8	569.8	570.2	569.9	571.3	571.2
12°	568.6	568.5	569.4	568.7	570.0	570.3
12.5°	567.3	567.4	567.7	567.5	568.9	569.1
13°	566.1	566.3	566.8	566.7	567.7	568.0
13.5°	565.0	565.2	565.5	565.3	566.7	566.7
14°	563.5	563.7	564.3	564.2	565.6	566.0
14.5°	562.3	562.4	563.0	562.9	564.4	564.6
15°	561.0	561.0	561.5	561.3	563.0	562.9
15.5°	559.7	559.3	560.1	560.1	561.3	561.4
16°	558.3	557.7	558.7	558.5	559.7	559.7
16.5°	556.6	556.0	556.9	557.3	558.1	558.6
17°	555.1	554.1	555.1	556.1	556.6	556.9
17.5°	553.2	552.3	553.5	554.3	554.9	555.1
18°	551.5	550.6	551.5	552.6	553.2	553.6
18.5°	549.3	548.8	549.3	550.9	551.3	551.7
19°	547.3	547.0	547.4	549.4	549.4	549.8
19.5°	545.4	544.8	545.6	547.3	547.6	548.1
20°	543.5	542.9	544.1	545.4	546.0	546.3
20.5°	541.5	541.1	542.0	543.7	543.8	544.4
21°	539.5	539.0	540.1	541.9	541.8	542.4
21.5°	537.4	536.7	537.9	539.6	539.5	540.1
22°	535.4	534.5	535.5	537.3	537.4	538.1

TEST NUMBER: P869698
 CATALOG NUMBER: SMX18RLSFS010-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	533.2	532.5	533.6	535.3	535.6	536.1
23°	531.2	530.4	531.6	533.1	533.8	534.2
23.5°	528.7	528.2	529.0	530.7	531.3	531.8
24°	526.5	526.0	526.7	528.2	528.7	529.7
24.5°	523.9	523.7	524.3	525.8	526.7	527.6
25°	521.7	521.5	522.5	523.6	524.7	525.3
25.5°	519.4	518.8	520.1	521.1	522.2	522.5
26°	516.8	516.4	517.7	518.6	519.9	520.3
26.5°	514.1	513.5	515.2	516.1	517.3	517.5
27°	511.7	511.1	512.7	513.6	514.7	515.2
27.5°	509.1	508.3	510.0	511.1	512.2	512.7
28°	506.6	505.8	507.7	508.5	509.9	510.2
28.5°	503.8	503.1	504.7	505.6	507.4	507.3
29°	501.3	500.3	502.0	503.0	504.6	504.6
29.5°	498.3	497.5	499.1	500.2	501.7	502.2
30°	495.5	494.9	496.4	497.5	499.1	499.6
30.5°	493.0	492.0	493.5	494.4	496.4	496.8
31°	490.0	489.1	490.7	491.7	493.8	493.9
31.5°	486.9	486.2	487.7	488.8	490.7	491.3
32°	484.0	483.0	485.1	486.2	487.9	488.3
32.5°	481.1	480.1	482.1	483.1	484.9	485.3
33°	478.1	477.3	479.2	480.2	482.3	482.5
33.5°	475.1	474.0	475.9	477.0	479.4	479.5
34°	472.1	470.8	472.9	474.0	476.3	476.3
34.5°	468.6	467.8	469.6	471.0	473.2	473.2
35°	465.4	464.7	466.6	467.6	469.9	469.9
35.5°	462.3	461.4	463.0	464.3	466.6	466.5
36°	459.0	458.3	460.0	461.4	463.6	463.7
36.5°	456.1	454.8	456.7	458.3	460.6	460.4
37°	452.8	451.5	453.4	454.8	457.2	457.3
37.5°	449.4	448.3	449.8	451.6	453.9	454.0
38°	445.6	444.8	446.4	448.0	450.3	450.1
38.5°	442.5	441.3	442.9	444.5	446.9	446.9
39°	439.1	437.9	439.4	441.3	443.4	443.6
39.5°	435.3	434.4	435.7	437.5	439.7	440.2
40°	431.8	430.7	432.5	434.1	436.1	436.4
40.5°	428.1	427.1	428.7	430.6	432.8	432.9
41°	424.3	423.6	425.0	426.7	428.6	429.6
41.5°	420.9	419.7	421.3	423.3	425.2	426.1
42°	417.1	416.0	417.8	419.6	421.3	422.2
42.5°	413.3	412.5	413.8	415.7	417.7	418.6
43°	409.9	408.8	410.2	412.0	414.0	414.9
43.5°	406.0	405.1	406.3	408.4	410.5	411.0
44°	401.9	401.0	402.5	404.6	406.8	407.5
44.5°	398.2	397.2	398.7	400.6	402.9	403.9

TEST NUMBER: P869698
 CATALOG NUMBER: SMX18RLSFS010-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	394.3	393.2	394.8	397.0	398.9	399.8
45.5°	390.6	389.2	391.1	393.1	394.8	395.7
46°	386.3	385.1	387.1	388.9	390.8	392.2
46.5°	382.3	381.3	383.0	385.0	387.0	388.1
47°	378.4	377.0	378.7	380.8	383.0	384.2
47.5°	374.1	373.1	374.8	377.0	378.9	379.9
48°	370.0	368.8	370.5	372.8	374.8	376.0
48.5°	365.9	364.7	366.4	368.8	371.0	372.1
49°	361.7	360.9	362.4	364.5	366.9	367.8
49.5°	357.5	356.6	358.2	360.5	362.6	363.6
50°	353.3	352.2	353.8	356.1	358.5	359.5
50.5°	349.0	348.0	349.6	352.1	354.2	355.3
51°	344.7	343.8	345.2	347.8	350.0	350.8
51.5°	340.5	339.4	340.8	343.4	345.6	346.7
52°	336.0	334.9	336.6	338.8	341.2	342.4
52.5°	331.5	330.7	332.3	334.6	336.7	337.8
53°	327.4	326.2	327.9	330.1	332.6	333.2
53.5°	322.8	321.7	323.4	325.8	328.0	329.1
54°	318.3	317.2	318.9	321.2	323.4	324.8
54.5°	313.7	312.6	314.4	316.7	319.0	320.4
55°	309.5	308.3	310.0	312.3	314.4	315.6
55.5°	304.9	303.8	305.6	307.7	310.2	311.2
56°	300.2	299.2	300.8	303.4	305.6	306.9
56.5°	295.5	294.6	296.3	298.7	301.0	302.2
57°	291.1	289.8	291.6	294.1	296.1	297.4
57.5°	286.3	285.3	286.9	289.2	291.5	292.8
58°	281.6	280.5	282.2	284.6	286.8	288.3
58.5°	276.9	275.7	277.6	279.9	282.2	283.7
59°	272.2	271.0	272.8	275.0	277.4	278.8
59.5°	267.3	266.0	267.9	270.2	272.5	274.1
60°	262.6	261.2	263.2	265.5	267.7	269.3
60.5°	257.8	256.6	258.1	260.7	262.9	264.5
61°	252.9	251.7	253.5	255.8	258.1	259.9
61.5°	248.0	246.9	248.7	251.1	253.4	254.9
62°	243.1	242.0	243.7	246.1	248.4	250.0
62.5°	238.3	237.1	238.8	241.1	243.4	245.0
63°	233.3	232.0	233.8	235.9	238.5	240.2
63.5°	228.4	227.1	228.8	231.0	233.5	235.2
64°	223.3	221.9	223.7	226.2	228.6	230.3
64.5°	218.2	217.1	218.8	221.0	223.5	225.3
65°	213.3	212.2	213.7	215.8	218.6	220.4
65.5°	208.2	207.0	208.8	210.9	213.4	215.3
66°	203.2	202.1	203.6	205.9	208.4	210.4
66.5°	198.1	196.7	198.6	200.7	203.3	205.2
67°	192.9	191.7	193.4	195.6	198.2	200.1

TEST NUMBER: P869698
 CATALOG NUMBER: SMX18RLSFS010-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	188.0	186.7	188.3	190.6	193.2	195.1
68°	182.9	181.3	183.2	185.4	188.1	189.8
68.5°	177.6	176.3	177.9	180.1	182.8	184.8
69°	172.5	171.1	172.7	175.0	177.6	179.7
69.5°	167.3	165.8	167.6	169.8	172.4	174.3
70°	162.2	160.7	162.6	164.7	167.2	169.2
70.5°	157.2	155.5	157.3	159.4	162.2	164.1
71°	151.9	150.4	152.2	154.4	156.9	158.8
71.5°	146.7	145.1	146.8	149.0	151.7	153.6
72°	141.5	140.1	141.5	143.8	146.5	148.5
72.5°	136.2	134.8	136.5	138.7	141.3	143.3
73°	131.0	129.6	131.2	133.4	136.0	138.0
73.5°	126.0	124.4	125.9	128.2	130.9	132.9
74°	120.9	119.2	120.7	123.1	125.5	127.8
74.5°	115.6	114.1	115.6	117.8	120.3	122.6
75°	110.5	109.0	110.5	112.7	115.1	117.2
75.5°	105.6	103.9	105.3	107.6	110.1	112.3
76°	100.3	98.7	100.2	102.4	104.8	107.1
76.5°	95.2	93.7	95.1	97.4	99.9	102.0
77°	90.0	88.6	90.2	92.4	94.8	96.9
77.5°	85.1	83.6	85.2	87.5	89.9	91.7
78°	80.1	78.7	80.2	82.4	84.9	86.8
78.5°	75.2	73.8	75.3	77.4	79.9	81.8
79°	70.4	68.8	70.4	72.6	75.1	76.9
79.5°	65.6	64.1	65.6	67.7	70.1	71.9
80°	61.0	59.5	60.8	63.0	65.2	67.1
80.5°	56.4	54.8	56.2	58.2	60.4	62.5
81°	52.0	50.3	51.6	53.7	55.9	57.8
81.5°	47.4	45.8	47.1	49.2	51.4	53.2
82°	42.9	41.5	42.7	44.8	46.8	48.6
82.5°	38.7	37.3	38.6	40.4	42.5	44.2
83°	34.7	33.3	34.5	36.4	38.4	40.0
83.5°	30.7	29.4	30.4	32.2	34.3	35.8
84°	26.9	25.6	26.7	28.4	30.3	31.9
84.5°	23.2	22.1	23.1	24.7	26.5	28.0
85°	19.6	18.8	19.7	21.3	22.9	24.3
85.5°	16.4	15.8	16.6	17.9	19.6	20.8
86°	13.5	12.9	13.7	15.0	16.5	17.7
86.5°	11.0	10.2	11.0	12.2	13.6	14.8
87°	8.7	7.8	8.5	9.6	10.9	11.9
87.5°	6.4	5.4	6.2	7.3	8.5	9.5
88°	4.4	3.8	4.2	5.1	6.0	7.1
88.5°	2.9	2.4	2.9	3.5	4.2	4.8
89°	1.6	1.5	1.8	2.3	2.8	3.3
89.5°	0.7	0.9	1.2	1.5	1.8	2.1

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869698
CATALOG NUMBER: SMX18RLSFS010-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)