

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: P869697

Luminaire Tested: **SMX18RLSFS010-1500LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869697
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS010-1500LM-3000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

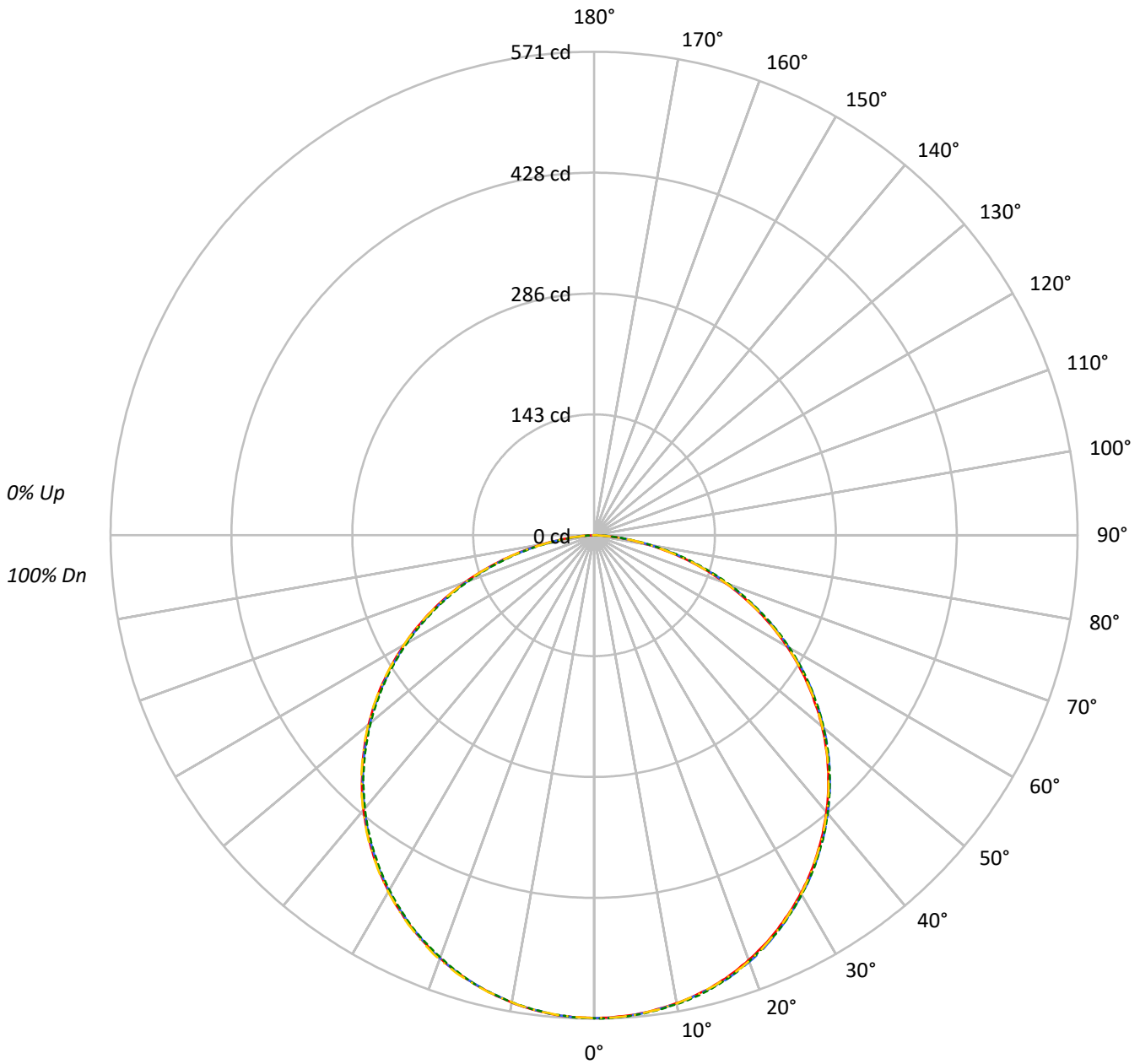
Lumens per Lamp: N/A
 Luminaire Lumens: 1665.1 lumens
 Efficiency: N/A
 Efficacy: 102.2 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69	69	69	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50	50	50	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3475	3475	3475	3475
5°	3474	3476	3471	3472
10°	3470	3478	3467	3464
15°	3469	3479	3457	3458
20°	3461	3470	3447	3439
25°	3450	3461	3432	3426
30°	3434	3448	3415	3402
35°	3415	3432	3394	3377
40°	3391	3413	3367	3348
45°	3366	3388	3334	3310
50°	3330	3355	3293	3262
55°	3276	3311	3237	3200
60°	3206	3248	3161	3110
65°	3105	3158	3050	2989
70°	2944	3020	2880	2798
75°	2697	2803	2615	2506
80°	2301	2448	2185	2038
85°	1663	1901	1475	1279

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	3.2
10°-20°	155.2	9.3
20°-30°	236.2	14.2
30°-40°	286.8	17.2
40°-50°	300.2	18.0
50°-60°	274.2	16.5
60°-70°	211.0	12.7
70°-80°	119.3	7.2
80°-90°	28.1	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°	445.4	26.7
0°-40°	732.2	44.0
0°-60°	1306.7	78.5
0°-90°	1665.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1665.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	570	570	570	570	570	
5°	568	568	568	568	568	54
15°	550	552	548	548	550	155
25°	513	515	511	510	513	236
35°	459	462	456	454	459	287
45°	391	393	387	384	391	301
55°	308	312	305	301	308	276
65°	215	219	212	207	215	213
75°	115	119	111	106	115	121
85°	24	27	21	18	24	29
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°	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5
0.5°	570.0	570.4	570.3	570.4	570.8	571.1	570.4	570.6	569.9	570.3	570.5
1°	570.0	570.5	570.3	570.6	570.9	570.9	570.0	570.3	570.0	570.2	570.3
1.5°	570.0	570.7	570.2	570.2	570.6	570.6	570.3	570.1	569.8	570.2	570.2
2°	569.8	570.4	570.1	570.0	570.4	570.6	570.2	569.9	569.6	569.9	569.7
2.5°	569.5	570.3	570.0	569.9	570.4	570.3	569.9	569.5	569.6	569.8	569.7
3°	569.1	570.0	570.0	569.6	570.0	569.8	569.6	569.2	569.0	569.9	569.2
3.5°	568.9	569.6	569.8	569.6	569.6	569.4	569.6	569.1	569.1	569.5	569.1
4°	568.7	569.3	569.3	569.2	569.6	569.3	569.1	568.9	568.9	568.8	568.7
4.5°	568.4	568.6	568.7	569.0	568.9	569.2	568.9	568.5	568.3	568.4	568.3
5°	568.2	568.1	568.2	568.6	568.5	568.7	568.4	567.7	567.7	567.9	568.0
5.5°	567.4	568.0	568.0	568.3	568.2	568.4	568.1	567.4	567.2	567.3	567.3
6°	566.8	567.5	567.1	567.7	567.8	567.8	567.3	567.1	566.5	566.6	566.2
6.5°	566.3	566.8	566.7	567.0	567.1	567.4	566.6	566.6	566.2	565.8	565.6
7°	565.6	566.1	566.1	566.2	566.4	566.7	565.9	565.6	565.4	565.4	565.2
7.5°	564.9	565.3	565.5	565.8	566.2	565.9	565.6	564.8	564.8	564.7	564.5
8°	564.2	564.7	564.6	564.9	565.4	565.3	565.0	564.3	563.9	563.7	563.7
8.5°	563.5	564.2	564.1	564.2	564.6	564.8	563.8	563.5	563.3	563.0	563.0
9°	562.7	563.4	563.1	563.6	563.7	564.0	563.0	562.7	562.3	562.1	562.0
9.5°	561.8	562.7	562.5	562.8	563.0	563.3	562.4	561.8	561.5	561.1	561.1
10°	561.1	561.7	561.6	561.8	562.4	562.3	561.4	560.7	560.5	560.0	559.9
10.5°	560.5	560.8	560.7	561.3	561.7	561.4	560.3	559.9	559.2	559.0	558.9
11°	559.5	559.8	559.8	560.3	560.6	560.4	559.4	558.9	558.2	558.3	557.7
11.5°	558.3	558.8	558.8	559.5	559.9	559.6	558.4	557.5	557.1	557.4	556.7
12°	557.4	557.9	557.8	558.6	558.7	558.5	557.5	556.5	556.2	555.9	555.6
12.5°	556.2	556.7	556.5	557.4	558.0	557.4	556.5	555.3	554.7	554.6	554.6
13°	555.1	555.8	555.5	556.6	557.0	556.5	555.3	554.0	553.6	553.4	553.3
13.5°	553.9	554.5	554.6	555.3	555.6	555.3	554.1	553.1	552.2	552.0	552.2
14°	553.2	553.4	553.5	554.5	554.5	554.1	552.7	551.9	550.9	550.8	550.9
14.5°	551.8	552.0	552.4	553.3	553.3	553.0	551.7	550.3	549.8	549.2	549.3
15°	550.1	550.6	551.2	551.5	551.7	551.5	550.5	549.1	548.2	548.0	548.0
15.5°	548.7	549.5	549.8	550.3	550.6	550.2	549.1	547.4	546.8	546.6	546.7
16°	547.1	548.4	548.7	549.0	548.9	549.0	547.8	545.9	545.4	545.2	545.3
16.5°	545.9	546.9	547.6	547.5	547.4	547.4	546.1	544.8	543.9	543.7	543.6
17°	544.3	545.2	546.1	546.0	546.1	545.9	544.7	543.3	542.1	541.9	541.8
17.5°	542.5	543.7	544.6	544.6	544.3	544.3	543.5	541.5	540.9	540.2	540.3
18°	541.1	542.1	543.0	542.5	542.7	542.5	542.2	539.9	539.1	538.6	538.8
18.5°	539.2	540.2	541.5	540.9	540.6	540.8	540.3	538.0	537.2	536.9	536.9
19°	537.3	538.7	539.9	539.1	539.0	538.9	538.9	536.5	535.6	534.9	535.5
19.5°	535.7	536.9	538.0	537.3	537.4	537.3	536.8	534.8	533.6	533.0	533.7
20°	533.9	535.3	536.2	535.2	535.3	535.5	535.0	532.8	531.8	531.3	531.8
20.5°	532.1	533.1	534.6	533.5	533.4	533.2	533.0	530.9	530.2	529.4	529.9
21°	530.2	531.0	532.7	531.6	531.7	531.1	531.6	529.0	528.3	527.5	528.0
21.5°	527.9	529.0	530.8	529.8	529.5	529.4	529.4	527.2	526.0	525.3	526.1
22°	525.9	527.1	528.8	527.7	527.7	527.3	527.5	525.3	523.7	523.2	524.0

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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°	524.0	525.1	526.6	525.6	525.6	525.2	525.3	523.3	521.8	520.9	521.6
23°	522.1	523.3	524.3	523.7	523.5	523.3	522.9	520.9	519.6	519.0	519.3
23.5°	519.8	521.3	522.4	521.7	521.5	521.3	520.9	518.9	517.4	517.2	516.8
24°	517.7	519.1	520.0	519.4	519.3	518.8	518.7	516.9	515.4	514.5	514.6
24.5°	515.6	517.0	517.5	517.2	517.4	516.3	516.3	514.7	513.1	512.2	512.5
25°	513.4	514.6	515.3	515.1	514.9	514.4	514.0	512.6	510.7	509.9	509.7
25.5°	510.6	512.2	512.9	513.0	512.8	512.5	511.6	510.5	508.4	507.7	507.3
26°	508.5	510.1	510.5	510.6	510.4	509.8	509.1	508.0	505.9	505.4	505.3
26.5°	505.7	507.7	508.1	508.0	508.1	507.4	506.6	505.6	503.7	502.9	502.5
27°	503.5	505.4	505.5	505.7	505.3	505.2	504.1	503.1	501.0	500.7	500.0
27.5°	501.0	503.1	503.2	503.7	503.1	502.5	501.4	500.8	498.5	498.4	497.6
28°	498.6	500.4	500.9	501.2	500.8	500.2	498.8	498.1	496.3	495.9	495.1
28.5°	495.8	498.1	498.0	498.5	498.2	497.8	496.6	495.8	493.8	493.2	492.6
29°	493.2	495.7	495.4	495.9	495.7	495.1	494.0	493.3	491.1	490.4	489.9
29.5°	490.8	493.1	493.1	493.5	492.9	492.4	491.4	490.8	488.4	487.8	487.3
30°	488.2	490.4	490.6	490.9	490.2	489.8	489.0	488.0	485.6	485.1	484.3
30.5°	485.6	487.9	487.8	488.2	487.5	487.2	486.3	485.4	482.8	482.5	481.8
31°	482.7	485.2	485.1	485.4	485.1	484.5	483.4	482.6	480.1	479.4	479.1
31.5°	480.2	482.2	482.3	482.8	482.2	481.5	480.7	479.7	477.3	476.6	476.2
32°	477.2	479.2	479.5	480.2	479.3	478.6	477.8	476.9	474.4	474.1	473.1
32.5°	474.3	476.5	476.5	477.4	476.4	476.1	474.8	474.1	471.5	471.2	470.4
33°	471.6	473.6	473.5	474.4	473.7	473.1	472.0	471.0	468.5	468.4	467.3
33.5°	468.7	470.7	470.8	471.4	471.1	470.3	468.9	468.1	465.5	465.4	464.3
34°	465.6	467.9	467.9	468.5	467.9	467.3	465.7	465.4	462.8	462.3	461.1
34.5°	462.5	464.8	464.8	465.4	464.7	464.4	462.9	462.4	459.8	459.2	458.1
35°	459.3	461.9	461.6	462.5	461.6	461.4	459.7	459.0	456.4	456.1	455.0
35.5°	456.0	458.7	458.6	459.5	458.6	458.3	456.7	456.0	453.4	453.1	451.9
36°	453.2	455.7	455.4	456.4	455.4	455.1	453.5	452.8	450.2	449.8	448.7
36.5°	450.0	452.5	452.3	453.1	452.1	451.9	450.4	449.7	447.0	446.9	445.7
37°	446.9	449.4	449.3	449.8	449.2	448.9	447.2	446.5	443.8	443.5	442.1
37.5°	443.7	446.0	446.0	446.7	446.1	445.7	444.1	443.3	440.5	439.8	438.8
38°	440.0	442.6	442.6	443.5	442.7	442.3	440.7	440.1	437.2	436.6	435.5
38.5°	436.7	439.2	439.4	440.3	439.4	438.9	437.4	436.9	433.7	432.9	432.2
39°	433.5	436.1	436.1	436.9	436.1	435.8	433.8	433.4	430.4	429.8	428.9
39.5°	430.2	432.4	432.7	433.5	432.7	432.2	430.5	430.0	426.9	426.4	425.5
40°	426.5	428.9	429.4	429.8	429.2	428.9	427.3	426.4	423.5	422.8	421.9
40.5°	423.1	425.5	425.8	426.5	425.8	425.6	424.1	422.7	420.1	419.1	418.6
41°	419.9	422.0	422.3	423.0	422.2	422.0	420.4	418.9	416.6	415.7	414.8
41.5°	416.4	418.4	418.9	419.4	418.8	418.3	417.0	415.5	413.2	412.0	411.4
42°	412.7	414.7	415.5	415.9	415.3	414.9	413.3	411.8	409.5	408.3	407.7
42.5°	409.1	411.3	412.0	412.2	411.6	411.3	409.9	408.0	405.8	404.9	404.0
43°	405.5	407.4	408.3	408.5	408.0	407.6	406.0	404.5	402.0	401.3	400.5
43.5°	401.7	403.9	404.5	404.9	404.3	403.9	402.1	400.8	398.3	397.7	396.8
44°	398.3	400.4	401.0	401.1	400.7	400.5	398.5	397.2	394.5	394.0	393.0
44.5°	394.8	396.7	397.4	397.6	397.1	396.6	394.8	393.3	390.9	390.2	389.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	390.8	392.6	393.7	393.9	393.3	392.9	391.1	389.5	387.0	386.3	385.4
45.5°	386.7	389.0	389.9	390.1	389.3	389.1	387.4	385.8	383.3	382.1	381.7
46°	383.3	385.2	385.9	386.1	385.5	385.2	383.6	382.0	379.4	378.4	377.7
46.5°	379.3	381.3	382.4	382.1	381.8	381.4	379.9	377.9	375.2	374.5	374.0
47°	375.5	377.4	378.3	378.4	377.9	377.6	375.9	374.3	371.5	370.6	370.1
47.5°	371.3	373.4	374.5	374.6	374.1	373.6	371.8	370.5	367.6	366.7	365.8
48°	367.5	369.6	370.4	370.5	370.1	369.9	368.0	366.4	363.7	362.6	361.8
48.5°	363.7	365.7	366.5	366.4	365.9	365.7	364.0	362.1	359.5	358.6	358.0
49°	359.5	361.5	362.4	362.5	362.0	361.7	359.8	358.1	355.7	354.5	353.7
49.5°	355.4	357.4	358.3	358.6	358.0	357.8	355.9	354.0	351.7	350.5	349.8
50°	351.4	353.5	354.2	354.3	354.0	353.7	351.8	350.0	347.5	346.5	345.6
50.5°	347.2	349.5	350.2	350.3	350.0	349.4	347.7	345.9	343.3	342.1	341.5
51°	342.9	345.3	346.0	346.1	345.9	345.3	343.4	341.8	339.0	337.8	337.1
51.5°	338.9	341.2	341.9	342.0	341.6	341.2	339.1	337.7	335.0	333.9	333.0
52°	334.6	336.9	337.7	337.8	337.5	336.9	335.0	333.5	330.9	329.4	328.8
52.5°	330.2	332.6	333.3	333.4	333.1	332.8	330.9	329.3	326.5	325.3	324.4
53°	325.6	328.3	329.1	329.1	328.7	328.6	326.7	324.8	322.1	320.9	320.2
53.5°	321.6	324.0	324.9	325.0	324.6	324.3	322.4	320.6	317.8	316.6	315.9
54°	317.4	319.6	320.5	320.5	320.4	319.8	318.0	316.1	313.7	312.1	311.5
54.5°	313.2	315.2	316.2	316.1	316.2	315.6	313.7	311.9	309.3	307.6	306.9
55°	308.5	310.9	311.8	311.7	311.8	311.1	309.4	307.5	304.8	303.4	302.8
55.5°	304.2	306.5	307.5	307.2	307.4	306.8	305.0	303.4	300.3	299.3	298.1
56°	299.9	302.0	303.0	302.9	303.1	302.3	300.4	298.7	295.9	294.6	293.5
56.5°	295.4	297.5	298.5	298.4	298.7	297.8	295.9	294.4	291.3	290.0	289.0
57°	290.7	292.9	294.1	294.0	294.2	293.4	291.5	289.8	287.1	285.4	284.4
57.5°	286.2	288.5	289.6	289.4	289.7	288.7	286.8	285.2	282.3	280.8	280.0
58°	281.8	284.0	285.0	284.9	285.0	284.3	282.3	280.6	277.8	276.3	275.4
58.5°	277.2	279.6	280.6	280.3	280.4	279.7	277.8	276.1	273.4	271.7	270.8
59°	272.5	274.8	275.9	275.6	276.0	275.0	273.2	271.3	268.7	267.3	266.3
59.5°	267.9	270.1	271.2	271.0	271.4	270.4	268.5	266.6	264.0	262.2	261.4
60°	263.2	265.4	266.4	266.3	266.6	265.7	263.7	261.9	259.5	257.6	256.7
60.5°	258.5	260.7	261.7	261.6	262.0	261.1	259.2	257.3	254.7	253.1	252.2
61°	254.0	256.1	257.1	256.9	257.5	256.3	254.4	252.7	250.0	248.3	247.5
61.5°	249.1	251.3	252.4	252.3	252.8	251.6	249.7	248.0	245.3	243.5	242.7
62°	244.3	246.5	247.8	247.7	248.1	247.0	245.0	243.2	240.7	238.7	237.7
62.5°	239.5	241.9	242.8	242.8	243.3	242.2	240.1	238.3	235.7	234.0	232.9
63°	234.7	237.0	237.9	238.0	238.5	237.4	235.3	233.5	230.9	229.1	228.1
63.5°	229.8	232.0	233.0	233.2	233.8	232.7	230.6	228.8	226.0	224.2	223.2
64°	225.1	227.3	228.2	228.2	228.8	227.6	225.7	223.8	221.3	219.4	218.4
64.5°	220.2	222.6	223.4	223.6	224.1	222.9	220.9	218.9	216.4	214.5	213.3
65°	215.4	217.6	218.5	218.8	219.1	218.0	215.9	213.9	211.6	209.6	208.6
65.5°	210.4	212.6	213.6	213.7	214.1	213.2	211.1	209.1	206.7	204.7	203.8
66°	205.7	207.7	208.6	208.7	209.3	208.2	206.0	204.0	201.6	199.9	199.0
66.5°	200.5	202.8	203.8	203.8	204.5	203.2	201.3	199.1	196.8	194.8	193.9
67°	195.6	197.9	198.8	198.9	199.6	198.5	196.3	194.1	191.8	189.8	188.7

TEST NUMBER: P869697
 CATALOG NUMBER: SMX18RLSFS010-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	190.7	192.8	193.7	193.9	194.7	193.3	191.4	189.2	186.8	184.8	183.8
68°	185.5	187.7	188.6	188.7	189.6	188.2	186.4	184.1	181.8	179.9	178.8
68.5°	180.6	182.9	183.7	184.0	184.9	183.3	181.4	179.0	177.0	175.1	173.9
69°	175.6	177.9	178.6	179.0	179.9	178.3	176.1	174.1	171.8	169.9	168.9
69.5°	170.3	172.7	173.6	173.7	174.7	173.3	171.2	169.2	166.9	164.8	163.7
70°	165.3	167.7	168.5	168.6	169.6	168.3	166.1	164.0	161.7	159.9	158.7
70.5°	160.4	162.5	163.3	163.7	164.8	163.3	161.1	159.0	156.8	154.7	153.6
71°	155.2	157.6	158.3	158.6	159.8	158.4	156.2	153.9	151.7	149.7	148.7
71.5°	150.1	152.5	153.3	153.6	154.6	153.2	151.1	148.7	146.6	144.6	143.6
72°	145.2	147.4	148.1	148.4	149.6	148.3	146.0	143.7	141.5	139.4	138.4
72.5°	140.0	142.1	143.0	143.3	144.6	143.1	141.1	138.5	136.3	134.4	133.4
73°	134.9	137.0	137.9	138.1	139.3	137.9	135.7	133.4	131.3	129.3	128.3
73.5°	129.9	131.9	132.9	133.0	134.4	132.9	130.7	128.3	126.3	124.2	123.3
74°	124.9	126.9	127.8	128.0	129.3	127.9	125.7	123.3	121.2	119.1	118.2
74.5°	119.8	121.9	122.8	122.9	124.2	122.9	120.7	118.1	116.2	114.1	113.1
75°	114.6	116.7	117.6	117.7	119.1	117.8	115.6	113.0	111.1	109.0	108.0
75.5°	109.7	111.7	112.7	112.6	114.2	112.7	110.5	108.2	106.1	104.2	103.1
76°	104.7	106.8	107.7	107.7	109.1	107.7	105.5	103.2	101.2	99.2	98.1
76.5°	99.7	101.7	102.6	102.5	104.1	102.6	100.4	98.3	96.1	94.0	93.0
77°	94.7	96.8	97.8	97.6	99.1	97.7	95.5	93.4	91.1	89.1	88.1
77.5°	89.7	91.8	92.7	92.7	94.2	92.8	90.6	88.3	86.3	84.3	83.3
78°	84.8	86.9	87.7	87.9	89.2	87.9	85.7	83.5	81.2	79.5	78.4
78.5°	79.9	81.9	82.9	83.1	84.4	82.9	80.7	78.4	76.5	74.5	73.6
79°	75.2	77.2	78.2	78.2	79.5	78.1	76.0	73.7	71.6	69.8	69.0
79.5°	70.3	72.3	73.3	73.4	74.6	73.3	71.2	68.9	66.9	65.1	64.2
80°	65.6	67.5	68.5	68.6	69.8	68.7	66.4	64.2	62.3	60.7	59.7
80.5°	61.1	62.9	63.8	64.1	65.2	64.0	62.0	59.8	57.8	56.1	55.2
81°	56.5	58.4	59.2	59.5	60.9	59.6	57.4	55.2	53.3	51.6	50.8
81.5°	52.0	53.8	54.7	54.8	56.0	55.0	52.9	50.7	48.8	47.3	46.6
82°	47.5	49.4	50.1	50.1	51.5	50.4	48.7	46.4	44.4	42.9	42.2
82.5°	43.2	45.0	45.8	45.8	47.2	46.1	44.3	42.2	40.3	38.7	38.0
83°	39.1	40.8	41.6	41.6	43.0	41.9	40.1	38.0	36.2	34.7	34.1
83.5°	35.0	36.7	37.5	37.6	38.8	37.7	36.0	33.9	32.2	30.8	30.1
84°	31.1	32.7	33.4	33.5	34.7	33.7	32.0	30.0	28.2	27.1	26.3
84.5°	27.4	28.9	29.5	29.7	30.8	29.9	28.1	26.3	24.6	23.3	22.7
85°	23.8	25.2	25.8	25.8	27.2	26.1	24.5	22.6	21.1	19.8	19.3
85.5°	20.4	21.7	22.3	22.3	23.3	22.4	20.8	19.2	17.7	16.7	16.1
86°	17.3	18.5	19.0	19.1	19.9	19.0	17.5	16.0	14.8	13.7	13.2
86.5°	14.5	15.6	16.1	16.1	16.6	15.8	14.5	13.0	11.9	11.1	10.8
87°	11.7	12.9	13.2	13.2	13.8	13.0	11.8	10.6	9.5	8.7	8.4
87.5°	9.3	10.3	10.7	10.7	11.1	10.6	9.5	8.3	7.3	6.6	6.3
88°	7.0	7.9	8.3	8.2	8.8	8.2	7.2	6.1	5.2	4.6	4.5
88.5°	4.7	5.5	5.9	5.9	6.5	6.1	5.2	4.2	3.5	3.0	2.7
89°	3.2	3.9	4.1	4.0	4.6	4.2	3.4	2.6	2.0	1.7	1.5
89.5°	2.1	2.6	2.7	2.6	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: P869697
CATALOG NUMBER: SMX18RLSFS010-1500LM-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: P869697
 CATALOG NUMBER: SMX18RLSFS010-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	570.5	570.5	570.5	570.5	570.5	570.5
0.5°	570.3	570.3	570.9	570.2	570.2	570.0
1°	569.9	569.9	570.5	569.8	570.1	570.0
1.5°	569.8	570.2	570.4	569.7	570.0	570.0
2°	569.6	570.2	570.1	569.5	570.0	569.8
2.5°	569.5	569.7	569.9	569.5	569.8	569.5
3°	569.0	569.2	569.9	568.9	569.8	569.1
3.5°	568.8	568.8	569.5	568.8	569.3	568.9
4°	568.8	568.2	568.9	568.7	568.7	568.7
4.5°	568.1	568.0	568.4	568.0	568.1	568.4
5°	567.8	567.8	568.1	567.4	567.5	568.2
5.5°	566.7	566.9	567.4	566.7	567.1	567.4
6°	566.1	566.3	566.7	566.5	566.9	566.8
6.5°	565.6	565.6	566.2	566.1	566.2	566.3
7°	565.2	564.9	565.6	565.3	565.8	565.6
7.5°	564.0	564.3	564.6	564.6	565.2	564.9
8°	563.4	563.3	563.9	563.7	564.2	564.2
8.5°	562.7	562.6	563.3	562.8	563.4	563.5
9°	561.6	561.6	562.5	562.2	562.5	562.7
9.5°	560.9	560.8	561.1	561.2	561.6	561.8
10°	560.1	560.0	560.2	559.9	560.8	561.1
10.5°	559.0	559.2	559.1	558.7	559.9	560.5
11°	557.8	557.9	558.1	558.0	559.1	559.5
11.5°	556.9	556.9	557.3	557.0	558.3	558.3
12°	555.7	555.6	556.5	555.8	557.1	557.4
12.5°	554.5	554.5	554.9	554.7	556.0	556.2
13°	553.3	553.4	554.0	553.9	554.9	555.1
13.5°	552.2	552.4	552.7	552.5	553.9	553.9
14°	550.7	550.9	551.5	551.4	552.8	553.2
14.5°	549.6	549.6	550.2	550.2	551.7	551.8
15°	548.3	548.3	548.8	548.6	550.2	550.1
15.5°	547.1	546.6	547.4	547.4	548.6	548.7
16°	545.7	545.0	546.1	545.8	547.1	547.1
16.5°	544.0	543.4	544.3	544.7	545.5	545.9
17°	542.5	541.5	542.5	543.5	544.0	544.3
17.5°	540.6	539.7	541.0	541.8	542.4	542.5
18°	539.0	538.1	539.0	540.1	540.6	541.1
18.5°	536.8	536.4	536.8	538.4	538.8	539.2
19°	534.9	534.6	535.0	536.9	536.9	537.3
19.5°	533.1	532.4	533.3	534.9	535.2	535.7
20°	531.2	530.6	531.8	533.0	533.6	533.9
20.5°	529.2	528.8	529.7	531.4	531.5	532.1
21°	527.3	526.8	527.8	529.6	529.5	530.2
21.5°	525.3	524.6	525.8	527.4	527.3	527.9
22°	523.3	522.4	523.4	525.2	525.2	525.9

TEST NUMBER: P869697
 CATALOG NUMBER: SMX18RLSFS010-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	521.1	520.4	521.5	523.1	523.5	524.0
23°	519.1	518.4	519.6	521.0	521.7	522.1
23.5°	516.7	516.3	517.1	518.7	519.3	519.8
24°	514.6	514.1	514.7	516.2	516.8	517.7
24.5°	512.1	511.8	512.4	513.9	514.8	515.6
25°	509.9	509.7	510.7	511.7	512.8	513.4
25.5°	507.6	507.1	508.3	509.3	510.4	510.6
26°	505.1	504.7	506.0	506.9	508.1	508.5
26.5°	502.5	501.9	503.5	504.4	505.6	505.7
27°	500.1	499.5	501.0	502.0	503.1	503.5
27.5°	497.6	496.8	498.5	499.5	500.6	501.0
28°	495.1	494.4	496.2	497.0	498.4	498.6
28.5°	492.4	491.8	493.3	494.1	495.9	495.8
29°	490.0	489.0	490.6	491.6	493.2	493.2
29.5°	487.1	486.2	487.8	488.9	490.4	490.8
30°	484.3	483.7	485.2	486.3	487.8	488.2
30.5°	481.8	480.9	482.3	483.2	485.1	485.6
31°	478.9	478.1	479.5	480.6	482.6	482.7
31.5°	475.9	475.1	476.6	477.8	479.5	480.2
32°	473.0	472.1	474.1	475.1	476.9	477.2
32.5°	470.2	469.2	471.2	472.2	474.0	474.3
33°	467.3	466.5	468.4	469.3	471.3	471.6
33.5°	464.3	463.3	465.1	466.2	468.5	468.7
34°	461.4	460.1	462.2	463.3	465.5	465.6
34.5°	458.0	457.2	459.0	460.3	462.5	462.5
35°	454.8	454.2	456.0	457.0	459.3	459.3
35.5°	451.8	451.0	452.5	453.8	456.0	456.0
36°	448.6	447.9	449.6	450.9	453.1	453.2
36.5°	445.7	444.5	446.4	447.9	450.1	450.0
37°	442.6	441.3	443.1	444.5	446.8	446.9
37.5°	439.2	438.2	439.6	441.4	443.6	443.7
38°	435.5	434.8	436.3	437.9	440.1	440.0
38.5°	432.5	431.3	432.9	434.5	436.7	436.7
39°	429.1	428.0	429.5	431.3	433.4	433.5
39.5°	425.5	424.6	425.8	427.6	429.8	430.2
40°	422.0	421.0	422.7	424.3	426.3	426.5
40.5°	418.4	417.4	419.0	420.8	423.0	423.1
41°	414.7	414.0	415.4	417.0	418.9	419.9
41.5°	411.4	410.2	411.8	413.7	415.5	416.4
42°	407.7	406.6	408.3	410.1	411.8	412.7
42.5°	403.9	403.2	404.5	406.3	408.2	409.1
43°	400.6	399.6	401.0	402.6	404.6	405.5
43.5°	396.8	395.9	397.1	399.2	401.2	401.7
44°	392.8	392.0	393.4	395.5	397.6	398.3
44.5°	389.2	388.2	389.7	391.5	393.8	394.8

TEST NUMBER: P869697
 CATALOG NUMBER: SMX18RLSFS010-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	385.4	384.3	385.9	388.0	389.9	390.8
45.5°	381.8	380.4	382.2	384.2	385.8	386.7
46°	377.6	376.4	378.3	380.1	382.0	383.3
46.5°	373.7	372.7	374.3	376.3	378.2	379.3
47°	369.8	368.5	370.2	372.2	374.3	375.5
47.5°	365.6	364.6	366.4	368.4	370.3	371.3
48°	361.6	360.5	362.1	364.3	366.3	367.5
48.5°	357.6	356.5	358.1	360.4	362.5	363.7
49°	353.5	352.7	354.2	356.2	358.6	359.5
49.5°	349.4	348.5	350.0	352.3	354.4	355.4
50°	345.3	344.2	345.8	348.1	350.3	351.4
50.5°	341.1	340.1	341.7	344.1	346.2	347.2
51°	336.9	336.0	337.4	339.9	342.1	342.9
51.5°	332.8	331.7	333.1	335.6	337.8	338.9
52°	328.4	327.3	329.0	331.2	333.5	334.6
52.5°	324.0	323.2	324.8	327.0	329.1	330.2
53°	320.0	318.8	320.5	322.7	325.0	325.6
53.5°	315.5	314.4	316.1	318.4	320.6	321.6
54°	311.0	310.0	311.6	313.9	316.1	317.4
54.5°	306.6	305.6	307.2	309.6	311.8	313.2
55°	302.5	301.3	303.0	305.2	307.2	308.5
55.5°	297.9	296.9	298.7	300.7	303.2	304.2
56°	293.4	292.5	294.0	296.5	298.7	299.9
56.5°	288.8	287.9	289.6	291.9	294.1	295.4
57°	284.5	283.2	285.0	287.4	289.4	290.7
57.5°	279.8	278.8	280.4	282.6	284.9	286.2
58°	275.2	274.1	275.9	278.1	280.3	281.8
58.5°	270.6	269.4	271.3	273.5	275.8	277.2
59°	266.0	264.8	266.6	268.8	271.1	272.5
59.5°	261.3	260.0	261.9	264.1	266.3	267.9
60°	256.6	255.3	257.2	259.5	261.6	263.2
60.5°	252.0	250.8	252.2	254.8	256.9	258.5
61°	247.2	246.0	247.8	250.0	252.2	254.0
61.5°	242.4	241.3	243.0	245.4	247.6	249.1
62°	237.6	236.5	238.2	240.5	242.8	244.3
62.5°	232.9	231.7	233.4	235.7	237.9	239.5
63°	228.0	226.8	228.5	230.6	233.1	234.7
63.5°	223.2	222.0	223.6	225.8	228.2	229.8
64°	218.2	216.9	218.6	221.1	223.4	225.1
64.5°	213.3	212.1	213.8	216.0	218.5	220.2
65°	208.5	207.4	208.9	211.0	213.6	215.4
65.5°	203.5	202.3	204.1	206.1	208.6	210.4
66°	198.6	197.5	199.0	201.3	203.7	205.7
66.5°	193.6	192.2	194.1	196.2	198.7	200.5
67°	188.5	187.4	189.0	191.1	193.7	195.6

TEST NUMBER: P869697
 CATALOG NUMBER: SMX18RLSFS010-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	183.7	182.4	184.0	186.2	188.8	190.7
68°	178.7	177.2	179.0	181.2	183.9	185.5
68.5°	173.6	172.3	173.9	176.1	178.7	180.6
69°	168.6	167.2	168.8	171.0	173.6	175.6
69.5°	163.5	162.1	163.8	165.9	168.5	170.3
70°	158.6	157.1	158.9	161.0	163.4	165.3
70.5°	153.6	152.0	153.7	155.8	158.5	160.4
71°	148.5	146.9	148.8	150.9	153.4	155.2
71.5°	143.4	141.8	143.5	145.6	148.3	150.1
72°	138.3	136.9	138.3	140.5	143.1	145.2
72.5°	133.1	131.8	133.4	135.5	138.1	140.0
73°	128.1	126.6	128.2	130.4	132.9	134.9
73.5°	123.1	121.6	123.1	125.3	127.9	129.9
74°	118.1	116.5	118.0	120.3	122.7	124.9
74.5°	113.0	111.5	113.0	115.1	117.5	119.8
75°	108.0	106.5	108.0	110.2	112.5	114.6
75.5°	103.2	101.6	102.9	105.2	107.6	109.7
76°	98.1	96.5	97.9	100.1	102.5	104.7
76.5°	93.1	91.6	92.9	95.1	97.6	99.7
77°	88.0	86.6	88.1	90.3	92.6	94.7
77.5°	83.2	81.8	83.2	85.5	87.8	89.7
78°	78.3	76.9	78.4	80.5	82.9	84.8
78.5°	73.5	72.2	73.6	75.6	78.1	79.9
79°	68.8	67.3	68.8	70.9	73.4	75.2
79.5°	64.1	62.6	64.1	66.2	68.5	70.3
80°	59.6	58.1	59.4	61.6	63.8	65.6
80.5°	55.1	53.6	55.0	56.9	59.1	61.1
81°	50.8	49.1	50.4	52.5	54.6	56.5
81.5°	46.3	44.8	46.0	48.1	50.3	52.0
82°	42.0	40.6	41.7	43.8	45.7	47.5
82.5°	37.9	36.5	37.7	39.5	41.6	43.2
83°	33.9	32.5	33.8	35.5	37.5	39.1
83.5°	30.0	28.7	29.7	31.5	33.5	35.0
84°	26.3	25.0	26.1	27.7	29.6	31.1
84.5°	22.7	21.6	22.6	24.2	25.9	27.4
85°	19.2	18.3	19.3	20.8	22.4	23.8
85.5°	16.0	15.4	16.3	17.5	19.1	20.4
86°	13.2	12.6	13.4	14.6	16.1	17.3
86.5°	10.7	10.0	10.7	11.9	13.3	14.5
87°	8.5	7.6	8.3	9.4	10.7	11.7
87.5°	6.3	5.3	6.1	7.1	8.3	9.3
88°	4.3	3.8	4.1	4.9	5.9	7.0
88.5°	2.8	2.4	2.8	3.4	4.1	4.7
89°	1.5	1.4	1.7	2.3	2.7	3.2
89.5°	0.7	0.9	1.1	1.4	1.8	2.1

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



TEST NUMBER: P869697
CATALOG NUMBER: SMX18RLSFS010-1500LM-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)