

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: P869696

Luminaire Tested: **SMX18RLSFS010-1500LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869696  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18RLSFS010-1500LM-2700K  
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT  
 Ballast/Driver: -

**Summary**

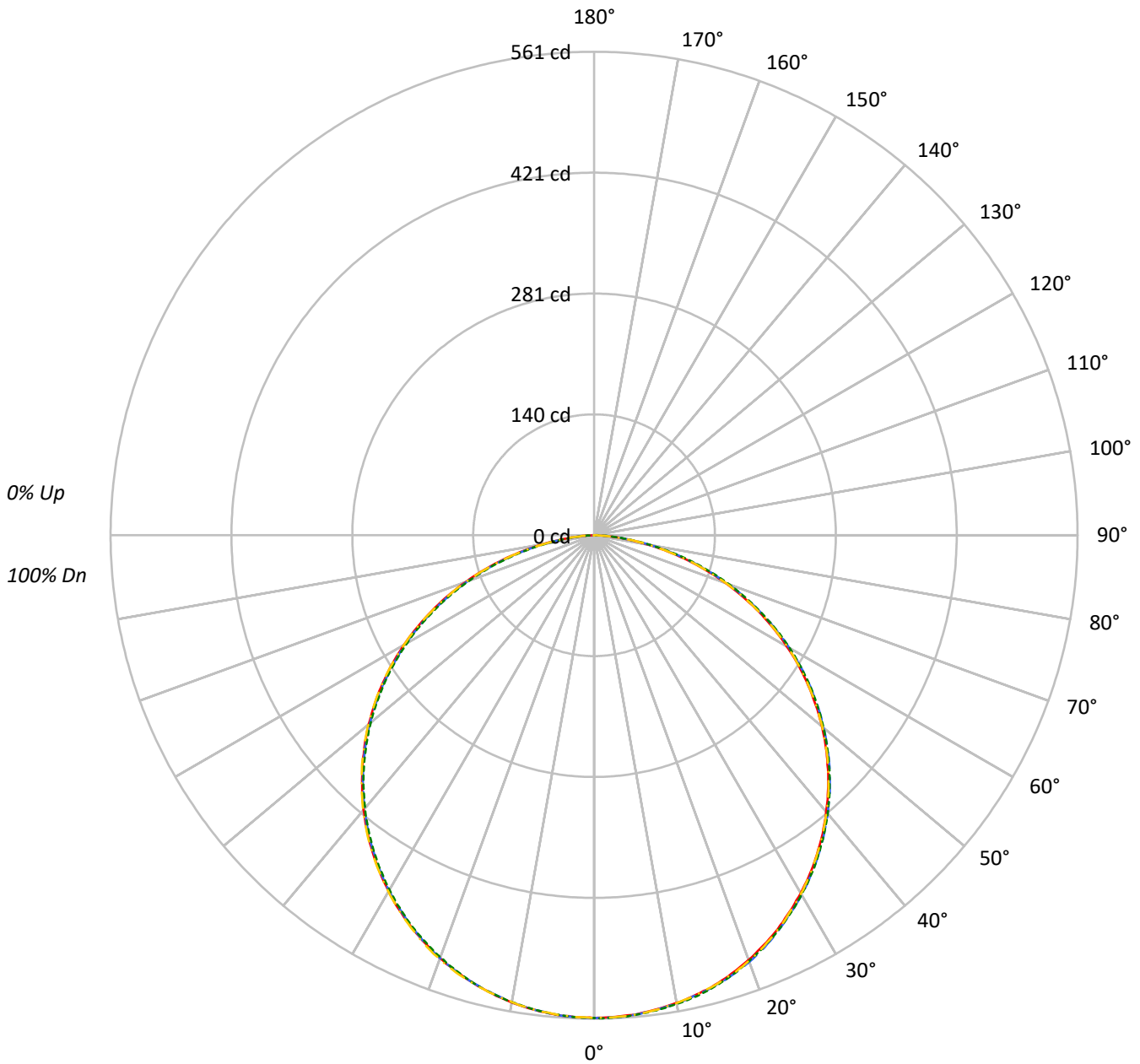
Lumens per Lamp: N/A  
 Luminaire Lumens: 1635.5 lumens  
 Efficiency: N/A  
 Efficacy: 100.3 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Circular (Dia: 1.5' x H: 0')  
 CIE Type: Direct

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	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°	3413	3413	3413	3413
5°	3412	3414	3409	3410
10°	3409	3417	3405	3402
15°	3407	3417	3395	3396
20°	3399	3408	3386	3378
25°	3389	3399	3371	3364
30°	3373	3387	3354	3342
35°	3354	3371	3334	3317
40°	3331	3352	3308	3288
45°	3306	3328	3274	3251
50°	3270	3295	3234	3204
55°	3218	3253	3179	3142
60°	3149	3191	3105	3055
65°	3048	3102	2995	2936
70°	2892	2967	2828	2748
75°	2648	2754	2568	2462
80°	2259	2406	2147	2003
85°	1628	1866	1447	1258

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.0	3.2
10°-20°	152.4	9.3
20°-30°	232.0	14.2
30°-40°	281.7	17.2
40°-50°	294.9	18.0
50°-60°	269.4	16.5
60°-70°	207.2	12.7
70°-80°	117.2	7.2
80°-90°	27.6	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°	437.4	26.7
0°-40°	719.1	44.0
0°-60°	1283.4	78.5
0°-90°	1635.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1635.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	560	560	560	560	560	
5°	558	558	558	558	558	53
15°	540	542	538	538	540	153
25°	504	506	502	501	504	232
35°	451	453	448	446	451	282
45°	384	386	380	377	384	296
55°	303	306	299	296	303	271
65°	212	215	208	204	212	209
75°	112	117	109	105	112	119
85°	23	27	21	18	23	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°	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3
0.5°	559.8	560.2	560.2	560.2	560.6	560.9	560.2	560.4	559.7	560.2	560.3
1°	559.8	560.3	560.1	560.4	560.7	560.8	559.8	560.1	559.8	560.1	560.1
1.5°	559.8	560.5	560.1	560.1	560.5	560.5	560.1	559.9	559.6	560.1	560.0
2°	559.7	560.2	559.9	559.8	560.2	560.5	560.0	559.8	559.5	559.7	559.5
2.5°	559.3	560.1	559.8	559.8	560.2	560.2	559.7	559.3	559.4	559.7	559.5
3°	559.0	559.8	559.8	559.4	559.8	559.6	559.5	559.1	558.8	559.8	559.1
3.5°	558.7	559.4	559.6	559.4	559.5	559.2	559.4	559.0	559.0	559.4	559.0
4°	558.5	559.1	559.1	559.0	559.5	559.1	559.0	558.7	558.7	558.7	558.6
4.5°	558.3	558.5	558.6	558.9	558.8	559.0	558.7	558.4	558.2	558.3	558.2
5°	558.1	558.0	558.1	558.4	558.4	558.5	558.3	557.6	557.6	557.8	557.8
5.5°	557.3	557.9	557.9	558.2	558.1	558.3	558.0	557.3	557.1	557.1	557.2
6°	556.7	557.4	557.0	557.6	557.7	557.7	557.2	557.0	556.4	556.5	556.1
6.5°	556.2	556.7	556.6	556.9	557.0	557.3	556.5	556.5	556.1	555.7	555.5
7°	555.6	556.0	556.0	556.1	556.3	556.6	555.8	555.6	555.3	555.3	555.1
7.5°	554.9	555.3	555.4	555.7	556.1	555.8	555.5	554.7	554.7	554.6	554.4
8°	554.2	554.6	554.6	554.9	555.3	555.3	554.9	554.3	553.9	553.7	553.6
8.5°	553.5	554.1	554.0	554.2	554.6	554.7	553.8	553.5	553.2	553.0	552.9
9°	552.7	553.4	553.1	553.5	553.7	553.9	553.0	552.7	552.2	552.1	552.0
9.5°	551.8	552.6	552.5	552.8	553.0	553.2	552.4	551.8	551.5	551.1	551.1
10°	551.1	551.7	551.6	551.8	552.4	552.3	551.4	550.7	550.5	550.0	549.9
10.5°	550.5	550.8	550.7	551.3	551.6	551.4	550.3	549.9	549.2	549.1	548.9
11°	549.5	549.8	549.8	550.4	550.7	550.4	549.4	549.0	548.3	548.4	547.7
11.5°	548.3	548.8	548.8	549.5	549.9	549.6	548.5	547.6	547.2	547.5	546.7
12°	547.4	548.0	547.8	548.6	548.8	548.5	547.6	546.6	546.3	546.0	545.7
12.5°	546.3	546.8	546.6	547.5	548.1	547.5	546.6	545.4	544.8	544.7	544.7
13°	545.2	545.9	545.6	546.7	547.0	546.6	545.4	544.2	543.7	543.5	543.4
13.5°	544.0	544.6	544.7	545.4	545.7	545.4	544.2	543.3	542.4	542.1	542.3
14°	543.3	543.5	543.6	544.6	544.6	544.2	542.8	542.1	541.1	541.0	541.1
14.5°	541.9	542.1	542.5	543.4	543.4	543.1	541.9	540.5	540.0	539.4	539.5
15°	540.3	540.8	541.4	541.6	541.8	541.6	540.7	539.3	538.4	538.3	538.3
15.5°	538.9	539.7	540.0	540.5	540.8	540.4	539.3	537.7	537.0	536.8	537.0
16°	537.3	538.6	539.0	539.2	539.1	539.2	538.1	536.2	535.7	535.5	535.6
16.5°	536.2	537.1	537.8	537.7	537.7	537.7	536.4	535.1	534.2	534.0	533.9
17°	534.6	535.5	536.4	536.3	536.3	536.1	535.0	533.6	532.5	532.3	532.1
17.5°	532.8	534.0	534.9	534.9	534.6	534.6	533.8	531.9	531.2	530.6	530.7
18°	531.4	532.4	533.3	532.9	533.0	532.9	532.6	530.3	529.5	529.0	529.2
18.5°	529.6	530.6	531.9	531.3	531.0	531.2	530.7	528.4	527.6	527.3	527.4
19°	527.7	529.1	530.2	529.5	529.4	529.3	529.3	526.9	526.0	525.4	525.9
19.5°	526.1	527.3	528.4	527.7	527.8	527.7	527.2	525.3	524.1	523.5	524.2
20°	524.4	525.7	526.7	525.6	525.8	525.9	525.5	523.3	522.3	521.9	522.3
20.5°	522.6	523.6	525.0	524.0	523.9	523.7	523.5	521.4	520.8	520.0	520.4
21°	520.7	521.5	523.2	522.1	522.2	521.6	522.1	519.5	518.9	518.1	518.5
21.5°	518.5	519.6	521.3	520.4	520.1	520.0	519.9	517.8	516.6	516.0	516.7
22°	516.5	517.7	519.4	518.3	518.3	517.9	518.1	516.0	514.4	513.9	514.7

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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°	514.6	515.7	517.3	516.2	516.2	515.8	516.0	513.9	512.5	511.6	512.3
23°	512.8	513.9	514.9	514.4	514.2	514.0	513.6	511.6	510.4	509.8	510.0
23.5°	510.5	512.1	513.0	512.4	512.2	512.1	511.6	509.7	508.1	508.0	507.6
24°	508.5	509.9	510.8	510.2	510.1	509.5	509.5	507.7	506.2	505.3	505.4
24.5°	506.4	507.8	508.3	508.0	508.1	507.1	507.1	505.5	503.9	503.1	503.4
25°	504.2	505.4	506.1	505.9	505.7	505.3	504.8	503.5	501.6	500.8	500.6
25.5°	501.5	503.0	503.7	503.8	503.6	503.3	502.5	501.4	499.4	498.6	498.3
26°	499.4	501.0	501.4	501.5	501.3	500.7	500.1	499.0	496.9	496.4	496.3
26.5°	496.7	498.6	499.0	499.0	499.0	498.4	497.6	496.6	494.7	494.0	493.6
27°	494.5	496.4	496.5	496.7	496.3	496.2	495.1	494.2	492.1	491.8	491.1
27.5°	492.1	494.1	494.2	494.7	494.2	493.5	492.5	491.9	489.7	489.5	488.8
28°	489.7	491.5	491.9	492.2	491.9	491.3	489.9	489.2	487.5	487.0	486.3
28.5°	487.0	489.2	489.1	489.6	489.3	488.9	487.8	487.0	485.0	484.4	483.9
29°	484.4	486.9	486.6	487.0	486.9	486.3	485.2	484.5	482.3	481.7	481.2
29.5°	482.1	484.3	484.3	484.7	484.1	483.6	482.6	482.1	479.7	479.1	478.7
30°	479.5	481.7	481.8	482.2	481.5	481.1	480.2	479.3	476.9	476.5	475.7
30.5°	476.9	479.2	479.1	479.5	478.8	478.5	477.7	476.8	474.2	473.9	473.2
31°	474.1	476.6	476.5	476.7	476.4	475.9	474.7	474.0	471.5	470.9	470.5
31.5°	471.6	473.6	473.7	474.2	473.6	472.9	472.1	471.1	468.8	468.1	467.7
32°	468.7	470.6	471.0	471.6	470.7	470.1	469.2	468.4	466.0	465.6	464.7
32.5°	465.9	468.0	468.0	468.9	467.9	467.6	466.3	465.7	463.1	462.8	462.0
33°	463.2	465.2	465.1	466.0	465.3	464.7	463.6	462.6	460.2	460.1	459.0
33.5°	460.3	462.3	462.4	463.0	462.7	461.9	460.5	459.7	457.2	457.1	456.0
34°	457.3	459.6	459.6	460.1	459.6	459.0	457.4	457.1	454.5	454.0	452.9
34.5°	454.2	456.6	456.5	457.1	456.4	456.1	454.7	454.2	451.6	451.0	449.9
35°	451.1	453.6	453.3	454.3	453.3	453.2	451.5	450.8	448.3	448.0	446.9
35.5°	447.8	450.5	450.5	451.4	450.4	450.1	448.5	447.8	445.3	445.0	443.9
36°	445.1	447.6	447.3	448.3	447.3	447.0	445.4	444.7	442.2	441.8	440.7
36.5°	442.0	444.5	444.3	445.0	444.0	443.9	442.3	441.6	439.1	439.0	437.7
37°	439.0	441.4	441.3	441.8	441.2	440.9	439.2	438.5	435.9	435.6	434.2
37.5°	435.8	438.0	438.0	438.8	438.2	437.7	436.1	435.4	432.6	432.0	430.9
38°	432.1	434.7	434.7	435.6	434.8	434.4	432.8	432.3	429.4	428.8	427.7
38.5°	429.0	431.4	431.6	432.5	431.5	431.1	429.6	429.1	426.0	425.2	424.5
39°	425.8	428.4	428.3	429.1	428.3	428.0	426.1	425.7	422.8	422.1	421.2
39.5°	422.5	424.7	425.0	425.7	425.0	424.5	422.9	422.3	419.3	418.8	418.0
40°	418.9	421.3	421.7	422.2	421.5	421.2	419.7	418.8	416.0	415.3	414.4
40.5°	415.6	417.9	418.3	418.9	418.2	418.0	416.6	415.2	412.6	411.6	411.1
41°	412.4	414.5	414.8	415.4	414.7	414.5	412.9	411.5	409.1	408.3	407.4
41.5°	409.0	410.9	411.5	411.9	411.4	410.9	409.6	408.1	405.8	404.7	404.1
42°	405.3	407.3	408.1	408.5	407.9	407.5	406.0	404.5	402.2	401.1	400.4
42.5°	401.8	403.9	404.7	404.9	404.3	404.0	402.6	400.8	398.5	397.7	396.8
43°	398.3	400.2	401.0	401.2	400.7	400.4	398.8	397.3	394.8	394.2	393.3
43.5°	394.6	396.7	397.3	397.7	397.1	396.7	395.0	393.6	391.2	390.6	389.7
44°	391.2	393.2	393.9	394.0	393.6	393.3	391.4	390.1	387.5	387.0	386.0
44.5°	387.7	389.6	390.3	390.5	390.0	389.5	387.8	386.3	383.9	383.3	382.3

TEST NUMBER: P869696  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	383.8	385.6	386.7	386.9	386.3	385.9	384.2	382.5	380.1	379.4	378.5
45.5°	379.8	382.1	382.9	383.1	382.4	382.2	380.5	378.9	376.5	375.3	374.9
46°	376.4	378.3	379.1	379.2	378.7	378.4	376.7	375.2	372.6	371.6	371.0
46.5°	372.5	374.5	375.6	375.3	375.0	374.6	373.1	371.2	368.5	367.8	367.3
47°	368.8	370.7	371.6	371.7	371.1	370.8	369.2	367.6	364.9	364.0	363.5
47.5°	364.7	366.8	367.8	368.0	367.4	367.0	365.2	363.9	361.0	360.1	359.3
48°	360.9	363.0	363.8	363.9	363.5	363.3	361.5	359.8	357.3	356.1	355.3
48.5°	357.2	359.2	360.0	359.9	359.4	359.2	357.5	355.6	353.0	352.2	351.6
49°	353.0	355.1	355.9	356.1	355.6	355.3	353.4	351.7	349.4	348.2	347.4
49.5°	349.1	351.0	351.9	352.2	351.6	351.4	349.5	347.7	345.4	344.2	343.6
50°	345.1	347.2	347.8	348.0	347.7	347.4	345.6	343.8	341.3	340.4	339.5
50.5°	341.1	343.3	344.0	344.1	343.7	343.2	341.5	339.7	337.1	336.0	335.4
51°	336.8	339.1	339.8	339.9	339.7	339.1	337.3	335.7	332.9	331.8	331.1
51.5°	332.8	335.1	335.8	335.9	335.5	335.1	333.0	331.6	329.0	327.9	327.0
52°	328.7	330.9	331.7	331.8	331.5	330.9	329.1	327.5	325.0	323.6	323.0
52.5°	324.3	326.7	327.4	327.5	327.1	326.9	325.0	323.5	320.7	319.5	318.7
53°	319.8	322.4	323.2	323.2	322.8	322.7	320.9	319.0	316.4	315.2	314.4
53.5°	315.9	318.2	319.1	319.2	318.8	318.5	316.6	314.9	312.1	310.9	310.3
54°	311.8	313.9	314.7	314.8	314.7	314.1	312.3	310.5	308.1	306.6	305.9
54.5°	307.6	309.5	310.6	310.5	310.5	310.0	308.1	306.3	303.8	302.1	301.5
55°	303.0	305.4	306.3	306.1	306.3	305.6	303.9	302.0	299.4	298.0	297.4
55.5°	298.8	301.0	302.0	301.8	301.9	301.3	299.5	298.0	295.0	293.9	292.8
56°	294.6	296.6	297.6	297.5	297.7	296.9	295.1	293.3	290.6	289.4	288.3
56.5°	290.1	292.2	293.2	293.1	293.3	292.5	290.6	289.1	286.1	284.8	283.9
57°	285.5	287.7	288.8	288.7	289.0	288.1	286.3	284.6	281.9	280.4	279.3
57.5°	281.1	283.3	284.4	284.2	284.5	283.6	281.7	280.1	277.3	275.8	275.0
58°	276.7	279.0	279.9	279.8	279.9	279.2	277.3	275.6	272.9	271.3	270.5
58.5°	272.3	274.6	275.6	275.3	275.4	274.7	272.9	271.2	268.5	266.9	266.0
59°	267.6	269.9	270.9	270.7	271.1	270.1	268.3	266.4	263.9	262.5	261.5
59.5°	263.1	265.3	266.4	266.2	266.6	265.6	263.7	261.9	259.3	257.5	256.8
60°	258.5	260.7	261.7	261.5	261.9	260.9	259.0	257.2	254.9	253.0	252.2
60.5°	253.9	256.0	257.1	257.0	257.4	256.5	254.6	252.8	250.2	248.5	247.7
61°	249.5	251.5	252.5	252.3	252.9	251.8	249.9	248.2	245.6	243.9	243.1
61.5°	244.7	246.8	247.9	247.8	248.3	247.1	245.3	243.6	240.9	239.2	238.4
62°	239.9	242.1	243.3	243.3	243.7	242.6	240.6	238.8	236.4	234.4	233.5
62.5°	235.2	237.5	238.5	238.5	239.0	237.8	235.9	234.0	231.5	229.8	228.8
63°	230.5	232.8	233.6	233.7	234.2	233.2	231.1	229.3	226.8	225.0	224.0
63.5°	225.7	227.9	228.9	229.0	229.6	228.5	226.5	224.7	222.0	220.2	219.2
64°	221.1	223.3	224.2	224.2	224.7	223.6	221.7	219.8	217.3	215.4	214.5
64.5°	216.3	218.6	219.4	219.7	220.1	219.0	217.0	215.0	212.5	210.6	209.5
65°	211.5	213.7	214.6	214.9	215.2	214.2	212.0	210.1	207.8	205.9	204.9
65.5°	206.7	208.8	209.8	209.9	210.3	209.4	207.3	205.3	203.0	201.1	200.1
66°	202.0	204.0	204.9	205.0	205.6	204.4	202.3	200.4	198.0	196.3	195.4
66.5°	197.0	199.2	200.1	200.2	200.9	199.5	197.7	195.6	193.3	191.3	190.4
67°	192.1	194.3	195.3	195.4	196.0	194.9	192.8	190.6	188.4	186.4	185.4



TEST NUMBER: P869696  
 CATALOG NUMBER: SMX18RLSFS010-1500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	187.3	189.4	190.2	190.4	191.2	189.9	188.0	185.8	183.5	181.5	180.5
68°	182.2	184.3	185.3	185.3	186.2	184.9	183.0	180.8	178.6	176.7	175.6
68.5°	177.4	179.6	180.4	180.7	181.6	180.0	178.1	175.9	173.8	171.9	170.8
69°	172.5	174.7	175.4	175.9	176.7	175.1	173.0	171.0	168.8	166.8	165.9
69.5°	167.3	169.7	170.5	170.6	171.6	170.2	168.2	166.2	163.9	161.9	160.8
70°	162.4	164.7	165.5	165.6	166.6	165.3	163.2	161.1	158.8	157.0	155.9
70.5°	157.5	159.6	160.4	160.8	161.8	160.4	158.2	156.1	154.0	152.0	150.9
71°	152.5	154.8	155.5	155.8	156.9	155.6	153.5	151.1	149.0	147.1	146.0
71.5°	147.4	149.8	150.5	150.8	151.9	150.5	148.4	146.1	144.0	142.0	141.1
72°	142.6	144.7	145.5	145.8	147.0	145.6	143.4	141.2	138.9	136.9	135.9
72.5°	137.5	139.6	140.5	140.7	142.0	140.6	138.5	136.0	133.9	132.0	131.0
73°	132.5	134.6	135.4	135.7	136.8	135.4	133.3	131.0	129.0	127.0	126.0
73.5°	127.6	129.6	130.5	130.6	132.0	130.5	128.4	126.0	124.1	122.0	121.1
74°	122.6	124.7	125.5	125.7	127.0	125.6	123.5	121.1	119.1	117.0	116.1
74.5°	117.7	119.8	120.6	120.7	122.0	120.7	118.5	116.0	114.1	112.1	111.1
75°	112.5	114.6	115.5	115.6	117.0	115.7	113.6	111.0	109.1	107.1	106.1
75.5°	107.8	109.7	110.6	110.6	112.2	110.6	108.5	106.3	104.2	102.3	101.3
76°	102.8	104.9	105.8	105.7	107.1	105.8	103.6	101.3	99.4	97.4	96.3
76.5°	97.9	99.9	100.8	100.7	102.3	100.8	98.6	96.6	94.4	92.3	91.3
77°	93.0	95.0	96.0	95.9	97.3	96.0	93.8	91.7	89.5	87.5	86.5
77.5°	88.1	90.1	91.1	91.1	92.5	91.1	89.0	86.7	84.8	82.7	81.8
78°	83.3	85.4	86.1	86.3	87.6	86.3	84.2	82.0	79.8	78.1	77.0
78.5°	78.5	80.5	81.5	81.6	82.9	81.4	79.3	77.0	75.1	73.2	72.3
79°	73.9	75.8	76.8	76.8	78.1	76.7	74.7	72.4	70.4	68.5	67.8
79.5°	69.1	71.0	72.0	72.1	73.3	72.0	69.9	67.7	65.7	64.0	63.0
80°	64.4	66.3	67.3	67.4	68.6	67.5	65.2	63.0	61.2	59.6	58.6
80.5°	60.0	61.8	62.7	62.9	64.0	62.9	60.9	58.7	56.7	55.1	54.2
81°	55.5	57.3	58.2	58.4	59.8	58.5	56.4	54.2	52.4	50.7	49.9
81.5°	51.1	52.8	53.7	53.9	55.0	54.0	52.0	49.8	48.0	46.4	45.7
82°	46.6	48.5	49.2	49.2	50.6	49.5	47.8	45.6	43.6	42.2	41.4
82.5°	42.4	44.2	45.0	45.0	46.4	45.3	43.5	41.4	39.5	38.0	37.4
83°	38.4	40.1	40.8	40.9	42.3	41.2	39.4	37.4	35.6	34.1	33.5
83.5°	34.4	36.0	36.8	36.9	38.1	37.0	35.3	33.3	31.6	30.2	29.5
84°	30.6	32.2	32.8	32.9	34.0	33.1	31.4	29.5	27.7	26.6	25.8
84.5°	26.9	28.4	29.0	29.2	30.2	29.4	27.6	25.8	24.2	22.9	22.3
85°	23.3	24.8	25.4	25.4	26.7	25.7	24.0	22.2	20.7	19.5	18.9
85.5°	20.0	21.3	21.9	21.9	22.9	22.0	20.5	18.8	17.4	16.4	15.8
86°	17.0	18.2	18.7	18.7	19.6	18.7	17.2	15.7	14.6	13.5	13.0
86.5°	14.2	15.3	15.8	15.8	16.3	15.6	14.3	12.8	11.7	10.9	10.6
87°	11.5	12.6	13.0	13.0	13.6	12.7	11.6	10.4	9.4	8.5	8.2
87.5°	9.1	10.1	10.5	10.5	10.9	10.4	9.4	8.1	7.1	6.5	6.1
88°	6.8	7.7	8.1	8.1	8.7	8.0	7.1	6.0	5.1	4.5	4.4
88.5°	4.6	5.4	5.8	5.8	6.4	6.0	5.1	4.2	3.4	3.0	2.7
89°	3.2	3.8	4.0	3.9	4.6	4.1	3.3	2.6	2.0	1.6	1.5
89.5°	2.0	2.5	2.7	2.6	2.9	2.5	1.9	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: P869696  
CATALOG NUMBER: SMX18RLSFS010-1500LM-2700K

**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: P869696  
 CATALOG NUMBER: SMX18RLSFS010-1500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	560.3	560.3	560.3	560.3	560.3	560.3
0.5°	560.2	560.1	560.7	560.0	560.0	559.8
1°	559.7	559.8	560.4	559.6	559.9	559.8
1.5°	559.7	560.0	560.2	559.5	559.8	559.8
2°	559.4	560.0	559.9	559.4	559.8	559.7
2.5°	559.3	559.5	559.8	559.3	559.7	559.3
3°	558.9	559.1	559.8	558.8	559.6	559.0
3.5°	558.7	558.7	559.3	558.7	559.1	558.7
4°	558.7	558.1	558.8	558.6	558.6	558.5
4.5°	558.0	557.9	558.3	557.9	558.0	558.3
5°	557.7	557.7	558.0	557.3	557.4	558.1
5.5°	556.6	556.8	557.3	556.6	557.0	557.3
6°	556.0	556.2	556.6	556.4	556.8	556.7
6.5°	555.6	555.6	556.1	556.0	556.1	556.2
7°	555.2	554.9	555.5	555.2	555.7	555.6
7.5°	554.0	554.3	554.5	554.6	555.1	554.9
8°	553.4	553.3	553.8	553.7	554.2	554.2
8.5°	552.6	552.6	553.2	552.8	553.4	553.5
9°	551.6	551.6	552.5	552.2	552.5	552.7
9.5°	550.9	550.8	551.1	551.2	551.6	551.8
10°	550.1	550.1	550.2	549.9	550.8	551.1
10.5°	549.0	549.2	549.1	548.8	549.9	550.5
11°	547.8	548.0	548.2	548.1	549.1	549.5
11.5°	547.0	547.0	547.3	547.1	548.4	548.3
12°	545.8	545.7	546.6	545.9	547.2	547.4
12.5°	544.6	544.6	545.0	544.8	546.1	546.3
13°	543.4	543.6	544.1	544.0	545.0	545.2
13.5°	542.3	542.5	542.8	542.6	544.0	544.0
14°	540.9	541.1	541.7	541.6	542.9	543.3
14.5°	539.8	539.8	540.4	540.4	541.8	541.9
15°	538.5	538.5	539.0	538.8	540.4	540.3
15.5°	537.3	536.8	537.6	537.7	538.8	538.9
16°	536.0	535.3	536.3	536.1	537.3	537.3
16.5°	534.3	533.7	534.6	535.0	535.7	536.2
17°	532.9	531.9	532.9	533.8	534.3	534.6
17.5°	531.0	530.1	531.4	532.1	532.7	532.8
18°	529.4	528.5	529.4	530.5	531.0	531.4
18.5°	527.3	526.8	527.3	528.8	529.2	529.6
19°	525.4	525.0	525.4	527.4	527.4	527.7
19.5°	523.6	522.9	523.7	525.4	525.7	526.1
20°	521.8	521.2	522.3	523.5	524.1	524.4
20.5°	519.8	519.4	520.3	521.9	522.0	522.6
21°	517.9	517.4	518.4	520.2	520.1	520.7
21.5°	515.9	515.2	516.4	518.0	517.9	518.5
22°	514.0	513.1	514.0	515.8	515.9	516.5

TEST NUMBER: P869696  
 CATALOG NUMBER: SMX18RLSFS010-1500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	511.8	511.1	512.2	513.8	514.2	514.6
23°	509.9	509.1	510.3	511.7	512.4	512.8
23.5°	507.5	507.1	507.8	509.5	510.0	510.5
24°	505.4	504.9	505.6	507.0	507.6	508.5
24.5°	502.9	502.7	503.3	504.7	505.6	506.4
25°	500.8	500.6	501.6	502.6	503.6	504.2
25.5°	498.5	498.0	499.2	500.2	501.3	501.5
26°	496.1	495.7	497.0	497.8	499.1	499.4
26.5°	493.5	492.9	494.6	495.4	496.6	496.7
27°	491.2	490.6	492.1	493.0	494.1	494.5
27.5°	488.7	487.9	489.6	490.6	491.7	492.1
28°	486.3	485.6	487.3	488.1	489.5	489.7
28.5°	483.6	483.0	484.5	485.3	487.0	487.0
29°	481.2	480.3	481.9	482.9	484.4	484.4
29.5°	478.4	477.6	479.1	480.2	481.6	482.1
30°	475.7	475.1	476.6	477.6	479.1	479.5
30.5°	473.2	472.3	473.7	474.6	476.5	476.9
31°	470.4	469.5	471.0	472.0	474.0	474.1
31.5°	467.4	466.7	468.1	469.2	471.0	471.6
32°	464.6	463.7	465.6	466.7	468.4	468.7
32.5°	461.8	460.8	462.8	463.7	465.5	465.9
33°	459.0	458.2	460.0	460.9	462.9	463.2
33.5°	456.0	455.0	456.8	457.9	460.2	460.3
34°	453.2	451.9	453.9	455.0	457.2	457.3
34.5°	449.8	449.0	450.8	452.1	454.2	454.2
35°	446.7	446.1	447.9	448.8	451.1	451.1
35.5°	443.7	442.9	444.5	445.7	447.9	447.8
36°	440.6	439.9	441.6	442.9	445.0	445.1
36.5°	437.8	436.6	438.4	439.9	442.1	442.0
37°	434.7	433.4	435.2	436.6	438.8	439.0
37.5°	431.4	430.4	431.8	433.5	435.7	435.8
38°	427.7	427.0	428.5	430.1	432.3	432.1
38.5°	424.8	423.6	425.2	426.7	429.0	429.0
39°	421.5	420.4	421.8	423.6	425.7	425.8
39.5°	417.9	417.0	418.3	420.0	422.1	422.5
40°	414.5	413.5	415.2	416.7	418.7	418.9
40.5°	410.9	410.0	411.5	413.3	415.4	415.6
41°	407.3	406.6	408.0	409.6	411.5	412.4
41.5°	404.0	402.9	404.4	406.3	408.1	409.0
42°	400.4	399.4	401.1	402.8	404.4	405.3
42.5°	396.7	396.0	397.3	399.0	400.9	401.8
43°	393.5	392.5	393.8	395.4	397.4	398.3
43.5°	389.8	388.8	390.1	392.1	394.0	394.6
44°	385.8	385.0	386.4	388.4	390.5	391.2
44.5°	382.2	381.3	382.8	384.6	386.8	387.7

TEST NUMBER: P869696  
 CATALOG NUMBER: SMX18RLSFS010-1500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	378.5	377.4	379.0	381.1	382.9	383.8
45.5°	375.0	373.6	375.4	377.4	379.0	379.8
46°	370.8	369.7	371.6	373.3	375.2	376.4
46.5°	367.0	366.0	367.7	369.6	371.5	372.5
47°	363.2	361.9	363.6	365.6	367.7	368.8
47.5°	359.1	358.1	359.8	361.9	363.7	364.7
48°	355.2	354.0	355.7	357.8	359.8	360.9
48.5°	351.2	350.1	351.8	354.0	356.1	357.2
49°	347.2	346.4	347.8	349.9	352.2	353.0
49.5°	343.2	342.3	343.8	346.0	348.1	349.1
50°	339.1	338.1	339.6	341.9	344.1	345.1
50.5°	335.0	334.0	335.6	338.0	340.0	341.1
51°	330.9	330.0	331.4	333.9	336.0	336.8
51.5°	326.8	325.8	327.1	329.6	331.8	332.8
52°	322.5	321.5	323.1	325.3	327.5	328.7
52.5°	318.2	317.4	319.0	321.2	323.2	324.3
53°	314.3	313.1	314.7	316.9	319.2	319.8
53.5°	309.9	308.8	310.5	312.8	314.9	315.9
54°	305.5	304.4	306.1	308.3	310.5	311.8
54.5°	301.2	300.1	301.8	304.0	306.2	307.6
55°	297.1	295.9	297.6	299.8	301.8	303.0
55.5°	292.6	291.6	293.3	295.4	297.8	298.8
56°	288.1	287.3	288.8	291.2	293.4	294.6
56.5°	283.7	282.8	284.4	286.7	288.9	290.1
57°	279.5	278.2	279.9	282.3	284.3	285.5
57.5°	274.9	273.9	275.4	277.6	279.8	281.1
58°	270.3	269.2	270.9	273.2	275.3	276.7
58.5°	265.8	264.6	266.5	268.7	270.9	272.3
59°	261.3	260.1	261.9	264.0	266.3	267.6
59.5°	256.6	255.4	257.2	259.4	261.6	263.1
60°	252.1	250.8	252.6	254.9	257.0	258.5
60.5°	247.5	246.3	247.7	250.3	252.3	253.9
61°	242.8	241.6	243.3	245.6	247.7	249.5
61.5°	238.1	237.0	238.7	241.0	243.2	244.7
62°	233.4	232.3	234.0	236.2	238.5	239.9
62.5°	228.8	227.6	229.2	231.5	233.7	235.2
63°	223.9	222.8	224.4	226.5	229.0	230.5
63.5°	219.2	218.0	219.7	221.8	224.2	225.7
64°	214.3	213.0	214.7	217.1	219.4	221.1
64.5°	209.5	208.4	210.0	212.2	214.6	216.3
65°	204.8	203.7	205.1	207.2	209.8	211.5
65.5°	199.9	198.7	200.5	202.5	204.9	206.7
66°	195.0	194.0	195.4	197.7	200.1	202.0
66.5°	190.2	188.8	190.6	192.7	195.1	197.0
67°	185.1	184.0	185.6	187.7	190.3	192.1

TEST NUMBER: P869696  
 CATALOG NUMBER: SMX18RLSFS010-1500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	180.5	179.2	180.8	182.9	185.4	187.3
68°	175.6	174.0	175.9	178.0	180.6	182.2
68.5°	170.5	169.2	170.8	172.9	175.5	177.4
69°	165.6	164.2	165.8	168.0	170.5	172.5
69.5°	160.6	159.2	160.9	163.0	165.5	167.3
70°	155.7	154.3	156.1	158.1	160.5	162.4
70.5°	150.9	149.3	151.0	153.0	155.7	157.5
71°	145.8	144.3	146.1	148.2	150.6	152.5
71.5°	140.8	139.3	140.9	143.0	145.6	147.4
72°	135.8	134.4	135.8	138.0	140.6	142.6
72.5°	130.8	129.4	131.0	133.1	135.6	137.5
73°	125.8	124.4	125.9	128.1	130.5	132.5
73.5°	120.9	119.4	120.9	123.1	125.6	127.6
74°	116.0	114.4	115.9	118.1	120.5	122.6
74.5°	111.0	109.5	110.9	113.0	115.4	117.7
75°	106.1	104.6	106.1	108.2	110.5	112.5
75.5°	101.3	99.8	101.1	103.3	105.7	107.8
76°	96.3	94.7	96.2	98.3	100.6	102.8
76.5°	91.4	89.9	91.3	93.5	95.9	97.9
77°	86.4	85.1	86.6	88.7	91.0	93.0
77.5°	81.7	80.3	81.8	84.0	86.3	88.1
78°	76.9	75.6	77.0	79.1	81.5	83.3
78.5°	72.2	70.9	72.3	74.3	76.7	78.5
79°	67.6	66.1	67.6	69.7	72.0	73.9
79.5°	63.0	61.5	62.9	65.0	67.3	69.1
80°	58.5	57.1	58.4	60.5	62.6	64.4
80.5°	54.2	52.6	54.0	55.9	58.0	60.0
81°	49.9	48.2	49.5	51.5	53.6	55.5
81.5°	45.5	44.0	45.2	47.2	49.4	51.1
82°	41.2	39.9	41.0	43.0	44.9	46.6
82.5°	37.2	35.8	37.1	38.8	40.8	42.4
83°	33.3	31.9	33.2	34.9	36.8	38.4
83.5°	29.5	28.2	29.2	30.9	32.9	34.4
84°	25.8	24.6	25.6	27.3	29.1	30.6
84.5°	22.3	21.2	22.2	23.7	25.4	26.9
85°	18.8	18.0	18.9	20.4	22.0	23.3
85.5°	15.7	15.1	16.0	17.2	18.8	20.0
86°	12.9	12.3	13.2	14.4	15.8	17.0
86.5°	10.5	9.8	10.5	11.7	13.0	14.2
87°	8.3	7.5	8.2	9.2	10.5	11.5
87.5°	6.1	5.2	6.0	7.0	8.1	9.1
88°	4.3	3.7	4.0	4.9	5.8	6.8
88.5°	2.7	2.3	2.7	3.3	4.0	4.6
89°	1.5	1.4	1.7	2.2	2.7	3.2
89.5°	0.6	0.9	1.1	1.4	1.8	2.0

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869696  
CATALOG NUMBER: SMX18RLSFS010-1500LM-2700K

**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)