

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: P869703

Luminaire Tested: **SMX18RLSFS010-2000LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869703
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFS010-2000LM-3500K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

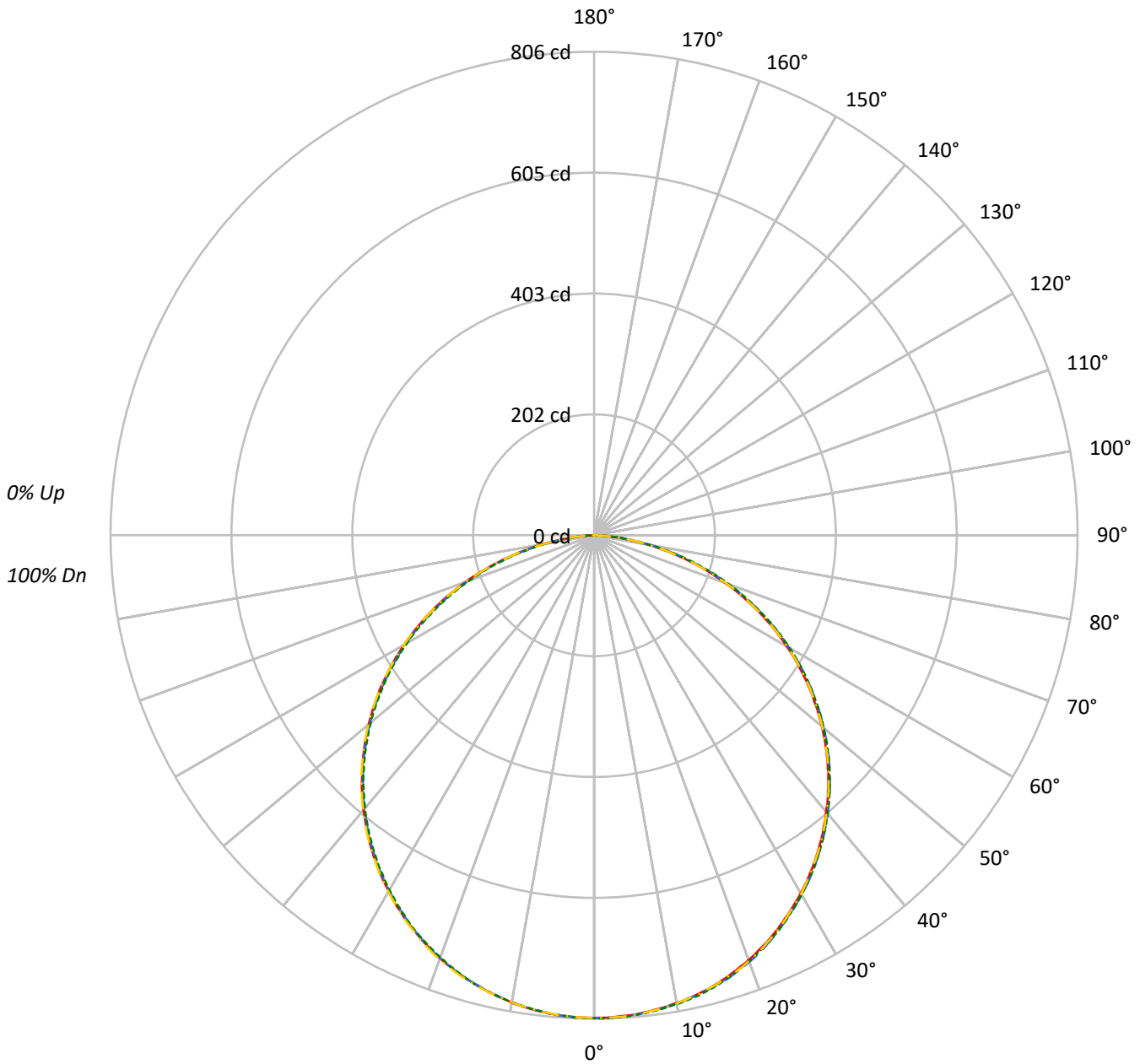
Lumens per Lamp: N/A
 Luminaire Lumens: 2350.1 lumens
 Efficiency: N/A
 Efficacy: 101.3 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 23.2
 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°	4905	4905	4905	4905
5°	4904	4906	4899	4900
10°	4899	4910	4893	4889
15°	4896	4910	4879	4880
20°	4885	4898	4865	4854
25°	4870	4884	4844	4835
30°	4847	4866	4820	4802
35°	4821	4844	4790	4766
40°	4787	4816	4753	4724
45°	4751	4782	4705	4672
50°	4699	4734	4647	4603
55°	4624	4674	4569	4515
60°	4524	4584	4461	4389
65°	4382	4458	4304	4219
70°	4157	4264	4064	3948
75°	3805	3958	3690	3537
80°	3248	3459	3087	2876
85°	2341	2677	2076	1810

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.2
10°-20°	219.0	9.3
20°-30°	333.4	14.2
30°-40°	404.8	17.2
40°-50°	423.8	18.0
50°-60°	387.1	16.5
60°-70°	297.7	12.7
70°-80°	168.4	7.2
80°-90°	39.7	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°	628.6	26.7
0°-40°	1033.4	44.0
0°-60°	1844.3	78.5
0°-90°	2350.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2350.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	805	805	805	805	805	
5°	802	802	801	801	802	76
15°	776	779	774	774	776	219
25°	725	727	721	719	725	334
35°	648	651	644	641	648	406
45°	552	555	546	542	552	425
55°	435	440	430	425	435	389
65°	304	309	299	293	304	300
75°	162	168	157	150	162	171
85°	34	38	30	26	34	41
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°	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2
0.5°	804.5	805.1	805.0	805.1	805.6	806.1	805.1	805.3	804.3	805.0	805.2
1°	804.5	805.2	804.9	805.3	805.7	805.8	804.5	804.9	804.5	804.8	804.9
1.5°	804.5	805.5	804.8	804.8	805.4	805.4	804.9	804.6	804.1	804.8	804.7
2°	804.2	805.1	804.6	804.5	805.1	805.4	804.7	804.4	804.0	804.3	804.1
2.5°	803.7	804.9	804.5	804.4	805.1	805.0	804.3	803.7	803.9	804.2	804.1
3°	803.2	804.5	804.5	803.9	804.5	804.1	804.0	803.4	803.1	804.4	803.4
3.5°	802.9	803.9	804.1	803.9	804.0	803.6	803.9	803.2	803.2	803.8	803.2
4°	802.6	803.5	803.5	803.3	804.0	803.5	803.2	802.9	802.9	802.8	802.7
4.5°	802.2	802.5	802.7	803.1	803.0	803.3	802.9	802.4	802.1	802.2	802.1
5°	802.0	801.9	802.0	802.5	802.4	802.6	802.3	801.3	801.2	801.5	801.6
5.5°	800.9	801.7	801.7	802.1	802.0	802.3	801.8	800.9	800.5	800.6	800.7
6°	799.9	800.9	800.4	801.2	801.4	801.5	800.7	800.4	799.5	799.7	799.1
6.5°	799.3	800.0	799.8	800.3	800.4	800.8	799.7	799.7	799.2	798.5	798.3
7°	798.3	798.9	799.0	799.2	799.4	799.9	798.7	798.3	798.0	798.0	797.7
7.5°	797.3	797.9	798.1	798.6	799.1	798.7	798.3	797.1	797.1	797.0	796.7
8°	796.3	797.0	796.9	797.3	798.0	797.9	797.4	796.5	795.9	795.7	795.6
8.5°	795.3	796.2	796.2	796.3	796.9	797.1	795.7	795.3	795.0	794.6	794.6
9°	794.2	795.2	794.8	795.4	795.7	796.0	794.6	794.2	793.6	793.4	793.2
9.5°	792.9	794.1	794.0	794.4	794.6	795.0	793.8	793.0	792.5	792.0	791.9
10°	792.0	792.8	792.6	793.0	793.8	793.6	792.4	791.4	791.1	790.4	790.2
10.5°	791.0	791.5	791.4	792.2	792.7	792.4	790.8	790.3	789.3	789.0	788.8
11°	789.6	790.0	790.1	790.9	791.3	790.9	789.5	788.8	787.8	788.0	787.1
11.5°	787.9	788.7	788.7	789.6	790.2	789.8	788.2	786.9	786.3	786.7	785.7
12°	786.7	787.4	787.3	788.3	788.6	788.3	786.9	785.5	785.0	784.6	784.1
12.5°	785.0	785.7	785.4	786.7	787.6	786.7	785.5	783.7	782.9	782.8	782.7
13°	783.5	784.5	784.1	785.6	786.1	785.4	783.7	782.0	781.4	781.0	780.9
13.5°	781.7	782.6	782.8	783.7	784.2	783.7	782.0	780.7	779.4	779.0	779.4
14°	780.8	781.0	781.2	782.5	782.5	782.0	780.0	778.9	777.6	777.4	777.6
14.5°	778.8	779.0	779.6	780.9	780.9	780.4	778.7	776.7	776.0	775.1	775.2
15°	776.4	777.1	777.9	778.3	778.6	778.3	777.0	775.0	773.7	773.5	773.5
15.5°	774.4	775.5	776.0	776.7	777.2	776.6	775.0	772.6	771.7	771.5	771.6
16°	772.1	774.0	774.5	774.8	774.6	774.8	773.2	770.5	769.8	769.5	769.6
16.5°	770.5	771.9	772.9	772.7	772.6	772.6	770.8	768.9	767.6	767.3	767.3
17°	768.2	769.5	770.8	770.6	770.7	770.4	768.8	766.7	765.1	764.9	764.6
17.5°	765.7	767.3	768.6	768.6	768.3	768.2	767.1	764.3	763.4	762.5	762.6
18°	763.6	765.1	766.4	765.7	765.9	765.7	765.3	762.0	760.9	760.1	760.4
18.5°	761.0	762.5	764.3	763.5	763.0	763.3	762.6	759.4	758.2	757.8	757.8
19°	758.3	760.3	762.0	760.9	760.7	760.6	760.6	757.2	755.9	755.0	755.7
19.5°	756.1	757.8	759.3	758.3	758.5	758.3	757.6	754.8	753.1	752.2	753.3
20°	753.6	755.5	756.8	755.3	755.6	755.7	755.1	752.0	750.6	749.9	750.5
20.5°	750.9	752.4	754.5	753.0	752.9	752.5	752.3	749.3	748.3	747.3	747.8
21°	748.3	749.4	751.9	750.3	750.4	749.5	750.3	746.6	745.7	744.5	745.1
21.5°	745.1	746.7	749.1	747.8	747.3	747.3	747.2	744.1	742.4	741.5	742.5
22°	742.2	743.9	746.3	744.7	744.7	744.2	744.5	741.5	739.2	738.4	739.6

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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°	739.5	741.1	743.3	741.8	741.8	741.2	741.5	738.5	736.4	735.2	736.2
23°	736.9	738.5	739.9	739.2	738.8	738.6	738.0	735.2	733.4	732.5	732.9
23.5°	733.6	735.8	737.2	736.3	736.0	735.8	735.2	732.4	730.2	729.9	729.4
24°	730.7	732.7	734.0	733.1	733.0	732.2	732.1	729.6	727.4	726.2	726.2
24.5°	727.8	729.7	730.4	729.9	730.2	728.7	728.7	726.4	724.1	723.0	723.4
25°	724.6	726.3	727.2	727.0	726.7	726.1	725.4	723.5	720.8	719.7	719.4
25.5°	720.7	722.9	723.9	724.0	723.7	723.3	722.0	720.4	717.6	716.5	716.0
26°	717.7	719.9	720.4	720.6	720.4	719.5	718.6	717.0	714.1	713.3	713.1
26.5°	713.8	716.5	717.1	717.0	717.1	716.2	715.0	713.6	710.9	709.9	709.3
27°	710.6	713.3	713.5	713.8	713.2	713.0	711.5	710.1	707.2	706.7	705.7
27.5°	707.2	710.0	710.2	710.9	710.1	709.2	707.7	706.8	703.6	703.4	702.4
28°	703.7	706.2	706.9	707.3	706.8	706.0	704.1	703.0	700.5	699.9	698.8
28.5°	699.8	703.0	702.9	703.6	703.1	702.5	700.9	699.8	696.9	696.1	695.3
29°	696.1	699.7	699.2	699.9	699.7	698.8	697.2	696.2	693.1	692.2	691.5
29.5°	692.7	696.0	696.0	696.5	695.7	695.0	693.6	692.7	689.3	688.4	687.8
30°	689.1	692.2	692.4	692.9	691.9	691.3	690.1	688.8	685.3	684.7	683.6
30.5°	685.3	688.7	688.5	689.1	688.1	687.6	686.4	685.1	681.4	681.0	680.0
31°	681.3	684.8	684.7	685.1	684.6	683.8	682.2	681.2	677.6	676.7	676.2
31.5°	677.8	680.5	680.7	681.4	680.5	679.6	678.4	677.0	673.7	672.6	672.0
32°	673.6	676.3	676.8	677.8	676.4	675.5	674.3	673.0	669.6	669.1	667.8
32.5°	669.4	672.5	672.5	673.8	672.4	672.0	670.1	669.2	665.5	665.1	663.9
33°	665.6	668.4	668.3	669.6	668.6	667.8	666.2	664.8	661.3	661.1	659.6
33.5°	661.4	664.4	664.5	665.3	664.9	663.8	661.8	660.6	657.0	656.8	655.3
34°	657.1	660.4	660.4	661.2	660.4	659.6	657.3	656.9	653.1	652.5	650.8
34.5°	652.7	656.1	656.0	656.9	655.9	655.5	653.4	652.6	648.9	648.1	646.6
35°	648.3	651.9	651.4	652.8	651.4	651.2	648.8	647.8	644.2	643.7	642.2
35.5°	643.5	647.4	647.3	648.6	647.2	646.8	644.6	643.5	639.9	639.5	637.8
36°	639.6	643.2	642.8	644.1	642.7	642.4	640.1	639.0	635.4	634.9	633.3
36.5°	635.1	638.7	638.4	639.5	638.1	637.8	635.6	634.6	630.9	630.8	629.0
37°	630.8	634.3	634.1	634.8	634.0	633.6	631.2	630.2	626.3	625.9	624.0
37.5°	626.2	629.4	629.4	630.5	629.7	629.0	626.7	625.7	621.7	620.8	619.3
38°	620.9	624.7	624.7	625.9	624.8	624.2	622.0	621.2	617.0	616.2	614.6
38.5°	616.4	619.9	620.2	621.4	620.1	619.4	617.3	616.7	612.1	610.9	610.0
39°	611.9	615.6	615.5	616.7	615.5	615.1	612.3	611.7	607.5	606.6	605.3
39.5°	607.2	610.3	610.7	611.8	610.7	610.0	607.7	606.9	602.5	601.9	600.6
40°	602.0	605.4	606.0	606.7	605.7	605.3	603.0	601.9	597.7	596.7	595.5
40.5°	597.2	600.5	601.0	602.0	600.9	600.7	598.6	596.6	592.9	591.4	590.8
41°	592.6	595.6	596.1	597.0	595.9	595.6	593.3	591.3	587.9	586.7	585.5
41.5°	587.7	590.5	591.3	592.0	591.1	590.4	588.6	586.5	583.1	581.5	580.7
42°	582.5	585.3	586.4	587.0	586.2	585.6	583.4	581.3	577.9	576.3	575.4
42.5°	577.4	580.4	581.5	581.8	580.9	580.5	578.5	575.9	572.7	571.4	570.2
43°	572.3	575.1	576.2	576.5	575.8	575.3	573.0	570.9	567.3	566.4	565.2
43.5°	567.0	570.1	570.9	571.5	570.7	570.0	567.6	565.6	562.1	561.3	560.0
44°	562.1	565.1	566.0	566.2	565.6	565.2	562.5	560.6	556.8	556.2	554.6
44.5°	557.2	559.8	560.9	561.1	560.4	559.8	557.2	555.1	551.7	550.8	549.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	551.5	554.1	555.7	556.0	555.1	554.5	552.0	549.7	546.2	545.2	543.9
45.5°	545.8	549.0	550.3	550.5	549.5	549.2	546.8	544.5	541.0	539.3	538.7
46°	540.9	543.6	544.7	544.9	544.1	543.7	541.4	539.1	535.5	534.1	533.1
46.5°	535.3	538.2	539.7	539.3	538.8	538.3	536.2	533.4	529.6	528.5	527.8
47°	530.0	532.7	534.0	534.1	533.3	532.9	530.5	528.3	524.4	523.1	522.3
47.5°	524.0	527.1	528.6	528.8	528.0	527.3	524.7	523.0	518.8	517.5	516.3
48°	518.7	521.7	522.8	523.0	522.3	522.0	519.4	517.1	513.4	511.8	510.6
48.5°	513.3	516.2	517.3	517.2	516.5	516.2	513.8	511.0	507.3	506.1	505.2
49°	507.3	510.3	511.4	511.7	510.9	510.5	507.8	505.4	502.0	500.4	499.2
49.5°	501.6	504.4	505.7	506.1	505.2	505.0	502.3	499.7	496.4	494.6	493.7
50°	495.9	498.9	499.8	500.1	499.6	499.2	496.6	494.0	490.4	489.1	487.8
50.5°	490.1	493.3	494.3	494.5	494.0	493.2	490.7	488.2	484.5	482.9	481.9
51°	484.0	487.3	488.3	488.4	488.2	487.3	484.7	482.5	478.4	476.8	475.8
51.5°	478.3	481.5	482.5	482.7	482.1	481.5	478.6	476.6	472.8	471.2	469.9
52°	472.3	475.5	476.7	476.8	476.3	475.5	472.9	470.7	467.1	465.0	464.1
52.5°	466.0	469.4	470.4	470.6	470.1	469.8	467.1	464.8	460.9	459.1	457.9
53°	459.6	463.3	464.5	464.5	463.9	463.7	461.1	458.4	454.6	452.9	451.9
53.5°	454.0	457.2	458.5	458.7	458.2	457.7	455.0	452.5	448.5	446.8	445.9
54°	448.0	451.0	452.3	452.4	452.2	451.4	448.8	446.1	442.8	440.5	439.6
54.5°	442.0	444.8	446.3	446.1	446.2	445.5	442.8	440.2	436.6	434.1	433.2
55°	435.4	438.8	440.1	439.9	440.1	439.1	436.7	434.0	430.2	428.2	427.3
55.5°	429.3	432.5	434.0	433.6	433.8	433.0	430.4	428.2	423.9	422.4	420.8
56°	423.3	426.2	427.7	427.5	427.7	426.7	424.0	421.5	417.6	415.8	414.3
56.5°	416.9	419.8	421.3	421.2	421.5	420.3	417.6	415.5	411.2	409.3	407.9
57°	410.3	413.5	415.1	414.9	415.2	414.0	411.4	409.0	405.1	402.9	401.4
57.5°	404.0	407.2	408.7	408.4	408.8	407.5	404.8	402.5	398.5	396.3	395.1
58°	397.7	400.9	402.3	402.1	402.2	401.2	398.5	396.0	392.1	389.9	388.7
58.5°	391.3	394.6	396.0	395.6	395.8	394.8	392.1	389.7	385.8	383.5	382.2
59°	384.5	387.9	389.3	389.0	389.6	388.1	385.6	382.9	379.3	377.2	375.8
59.5°	378.1	381.3	382.8	382.5	383.0	381.6	378.9	376.3	372.6	370.1	369.0
60°	371.4	374.6	376.1	375.8	376.3	375.0	372.1	369.6	366.2	363.6	362.4
60.5°	364.9	367.9	369.4	369.3	369.8	368.6	365.8	363.2	359.5	357.2	355.9
61°	358.5	361.4	362.9	362.6	363.4	361.8	359.1	356.6	352.9	350.5	349.3
61.5°	351.6	354.6	356.2	356.1	356.8	355.1	352.4	350.0	346.2	343.7	342.5
62°	344.8	347.9	349.7	349.6	350.2	348.6	345.7	343.2	339.7	336.9	335.5
62.5°	338.0	341.4	342.7	342.7	343.4	341.8	338.9	336.3	332.6	330.3	328.7
63°	331.3	334.5	335.7	335.9	336.6	335.1	332.1	329.5	325.9	323.4	321.9
63.5°	324.4	327.5	328.9	329.1	329.9	328.4	325.5	322.9	319.0	316.4	315.1
64°	317.7	320.9	322.1	322.1	323.0	321.3	318.6	315.9	312.3	309.6	308.2
64.5°	310.8	314.1	315.3	315.6	316.3	314.6	311.8	308.9	305.4	302.7	301.1
65°	304.0	307.1	308.4	308.7	309.3	307.7	304.7	301.9	298.6	295.8	294.4
65.5°	297.0	300.1	301.4	301.6	302.2	300.8	297.9	295.1	291.8	288.9	287.6
66°	290.3	293.2	294.5	294.5	295.4	293.8	290.8	287.9	284.5	282.1	280.8
66.5°	283.0	286.2	287.6	287.7	288.7	286.7	284.0	281.0	277.7	275.0	273.6
67°	276.1	279.3	280.6	280.8	281.7	280.1	277.1	274.0	270.7	267.9	266.4

TEST NUMBER: P869703
 CATALOG NUMBER: SMX18RLSFS010-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	269.1	272.1	273.4	273.6	274.8	272.9	270.2	267.0	263.7	260.8	259.4
68°	261.9	264.9	266.2	266.3	267.6	265.6	263.0	259.8	256.6	254.0	252.4
68.5°	254.9	258.1	259.3	259.7	260.9	258.7	256.0	252.7	249.8	247.1	245.5
69°	247.9	251.0	252.0	252.7	253.9	251.7	248.6	245.7	242.5	239.8	238.4
69.5°	240.4	243.8	245.0	245.1	246.6	244.6	241.7	238.8	235.6	232.6	231.0
70°	233.4	236.6	237.8	238.0	239.4	237.5	234.5	231.4	228.2	225.6	224.0
70.5°	226.4	229.3	230.5	231.0	232.5	230.4	227.4	224.4	221.3	218.4	216.8
71°	219.1	222.4	223.5	223.9	225.5	223.5	220.5	217.1	214.1	211.4	209.8
71.5°	211.9	215.2	216.3	216.7	218.2	216.2	213.2	209.9	206.9	204.1	202.7
72°	204.9	208.0	209.1	209.5	211.2	209.3	206.1	202.9	199.7	196.7	195.3
72.5°	197.7	200.6	201.9	202.2	204.0	202.0	199.1	195.5	192.4	189.7	188.2
73°	190.4	193.4	194.6	195.0	196.6	194.6	191.5	188.2	185.4	182.5	181.0
73.5°	183.4	186.2	187.6	187.7	189.8	187.6	184.5	181.0	178.3	175.3	174.0
74°	176.2	179.2	180.3	180.7	182.5	180.5	177.4	174.0	171.1	168.2	166.8
74.5°	169.1	172.1	173.4	173.5	175.3	173.5	170.3	166.7	164.0	161.1	159.6
75°	161.7	164.7	166.0	166.1	168.2	166.2	163.2	159.5	156.8	153.9	152.4
75.5°	154.9	157.7	159.0	158.9	161.2	159.0	156.0	152.8	149.8	147.1	145.6
76°	147.7	150.7	152.0	151.9	154.0	152.0	148.9	145.6	142.8	140.0	138.4
76.5°	140.7	143.5	144.9	144.7	147.0	144.9	141.7	138.7	135.6	132.6	131.3
77°	133.6	136.6	138.0	137.8	139.8	137.9	134.8	131.8	128.6	125.8	124.3
77.5°	126.6	129.5	130.8	130.8	132.9	130.9	127.9	124.6	121.9	118.9	117.6
78°	119.8	122.7	123.8	124.0	125.9	124.0	120.9	117.8	114.6	112.3	110.7
78.5°	112.8	115.6	117.1	117.2	119.1	117.0	114.0	110.7	107.9	105.1	103.9
79°	106.1	109.0	110.3	110.4	112.2	110.2	107.3	104.0	101.1	98.5	97.4
79.5°	99.2	102.0	103.4	103.6	105.3	103.4	100.5	97.2	94.5	91.9	90.6
80°	92.6	95.3	96.6	96.8	98.6	97.0	93.7	90.6	88.0	85.7	84.2
80.5°	86.2	88.8	90.1	90.4	92.0	90.3	87.5	84.4	81.5	79.2	77.9
81°	79.8	82.4	83.6	84.0	85.9	84.1	81.0	77.9	75.3	72.9	71.8
81.5°	73.4	75.9	77.2	77.4	79.1	77.6	74.7	71.6	68.9	66.7	65.7
82°	67.0	69.7	70.8	70.8	72.7	71.2	68.7	65.5	62.7	60.6	59.5
82.5°	60.9	63.4	64.6	64.7	66.6	65.1	62.5	59.5	56.8	54.6	53.7
83°	55.2	57.6	58.7	58.7	60.8	59.2	56.6	53.7	51.1	49.0	48.1
83.5°	49.4	51.8	52.9	53.0	54.8	53.2	50.8	47.8	45.4	43.4	42.4
84°	44.0	46.2	47.1	47.3	48.9	47.6	45.1	42.4	39.8	38.2	37.1
84.5°	38.7	40.8	41.7	41.9	43.4	42.2	39.7	37.1	34.7	32.9	32.1
85°	33.5	35.6	36.5	36.5	38.3	36.9	34.5	31.9	29.7	28.0	27.2
85.5°	28.7	30.7	31.5	31.5	32.9	31.7	29.4	27.1	25.0	23.5	22.7
86°	24.4	26.1	26.8	26.9	28.2	26.8	24.7	22.6	20.9	19.3	18.7
86.5°	20.4	22.0	22.7	22.7	23.4	22.4	20.5	18.4	16.8	15.7	15.2
87°	16.5	18.2	18.7	18.7	19.5	18.3	16.7	15.0	13.4	12.3	11.8
87.5°	13.1	14.5	15.0	15.0	15.6	15.0	13.4	11.7	10.3	9.3	8.8
88°	9.8	11.1	11.7	11.6	12.4	11.5	10.2	8.6	7.4	6.5	6.3
88.5°	6.6	7.8	8.3	8.3	9.2	8.6	7.3	6.0	4.9	4.3	3.9
89°	4.5	5.5	5.8	5.6	6.6	5.9	4.8	3.7	2.9	2.4	2.2
89.5°	2.9	3.6	3.9	3.7	4.2	3.6	2.8	1.9	1.3	1.0	0.8

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



TEST NUMBER: P869703
CATALOG NUMBER: SMX18RLSFS010-2000LM-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: P869703
 CATALOG NUMBER: SMX18RLSFS010-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	805.2	805.2	805.2	805.2	805.2	805.2
0.5°	805.0	804.9	805.7	804.7	804.7	804.5
1°	804.3	804.4	805.2	804.1	804.6	804.5
1.5°	804.2	804.7	805.1	804.1	804.5	804.5
2°	803.9	804.7	804.6	803.8	804.5	804.2
2.5°	803.7	804.1	804.4	803.7	804.2	803.7
3°	803.1	803.4	804.4	803.0	804.1	803.2
3.5°	802.8	802.8	803.7	802.8	803.5	802.9
4°	802.8	802.0	803.0	802.7	802.7	802.6
4.5°	801.9	801.7	802.3	801.7	801.8	802.2
5°	801.4	801.4	801.9	800.8	800.9	802.0
5.5°	799.9	800.1	800.9	799.8	800.4	800.9
6°	799.0	799.3	799.9	799.6	800.1	799.9
6.5°	798.3	798.3	799.2	798.9	799.2	799.3
7°	797.8	797.3	798.3	797.8	798.6	798.3
7.5°	796.1	796.5	796.8	796.9	797.7	797.3
8°	795.2	795.1	795.8	795.7	796.3	796.3
8.5°	794.1	794.1	795.0	794.3	795.2	795.3
9°	792.6	792.6	794.0	793.5	793.9	794.2
9.5°	791.7	791.5	792.0	792.1	792.6	792.9
10°	790.5	790.4	790.6	790.3	791.5	792.0
10.5°	788.9	789.2	789.1	788.6	790.2	791.0
11°	787.3	787.4	787.8	787.6	789.1	789.6
11.5°	786.0	786.0	786.5	786.2	788.0	787.9
12°	784.3	784.2	785.4	784.5	786.3	786.7
12.5°	782.5	782.6	783.1	782.9	784.7	785.0
13°	780.9	781.1	781.9	781.7	783.1	783.5
13.5°	779.4	779.6	780.0	779.8	781.7	781.7
14°	777.3	777.6	778.4	778.3	780.2	780.8
14.5°	775.7	775.7	776.6	776.5	778.6	778.8
15°	773.8	773.8	774.6	774.3	776.6	776.4
15.5°	772.1	771.5	772.5	772.6	774.2	774.4
16°	770.2	769.3	770.7	770.4	772.1	772.1
16.5°	767.8	766.9	768.3	768.8	769.9	770.5
17°	765.7	764.3	765.7	767.1	767.8	768.2
17.5°	763.0	761.8	763.6	764.6	765.5	765.7
18°	760.7	759.5	760.8	762.3	763.0	763.6
18.5°	757.7	757.0	757.7	759.9	760.4	761.0
19°	755.0	754.5	755.1	757.8	757.8	758.3
19.5°	752.4	751.5	752.6	755.0	755.4	756.1
20°	749.8	748.9	750.5	752.3	753.1	753.6
20.5°	746.9	746.4	747.7	750.0	750.1	750.9
21°	744.2	743.6	745.0	747.5	747.3	748.3
21.5°	741.4	740.4	742.0	744.4	744.2	745.1
22°	738.6	737.3	738.7	741.2	741.3	742.2

TEST NUMBER: P869703
 CATALOG NUMBER: SMX18RLSFS010-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	735.5	734.5	736.1	738.3	738.8	739.5
23°	732.7	731.6	733.3	735.3	736.3	736.9
23.5°	729.3	728.7	729.8	732.1	732.9	733.6
24°	726.2	725.6	726.5	728.6	729.4	730.7
24.5°	722.7	722.4	723.2	725.3	726.6	727.8
25°	719.7	719.4	720.8	722.2	723.7	724.6
25.5°	716.4	715.7	717.4	718.8	720.4	720.7
26°	712.9	712.3	714.1	715.4	717.2	717.7
26.5°	709.2	708.3	710.7	711.9	713.6	713.8
27°	705.9	705.0	707.2	708.5	710.0	710.6
27.5°	702.3	701.1	703.6	705.0	706.6	707.2
28°	698.8	697.8	700.3	701.5	703.4	703.7
28.5°	695.0	694.1	696.2	697.4	699.9	699.8
29°	691.5	690.2	692.5	693.9	696.1	696.1
29.5°	687.4	686.2	688.4	690.0	692.1	692.7
30°	683.6	682.7	684.8	686.3	688.4	689.1
30.5°	680.0	678.7	680.7	682.0	684.7	685.3
31°	675.9	674.7	676.8	678.3	681.1	681.3
31.5°	671.7	670.6	672.7	674.3	676.8	677.8
32°	667.6	666.3	669.1	670.6	673.0	673.6
32.5°	663.6	662.2	665.1	666.4	668.9	669.4
33°	659.5	658.4	661.0	662.4	665.2	665.6
33.5°	655.3	653.9	656.5	658.0	661.3	661.4
34°	651.3	649.4	652.3	653.9	657.0	657.1
34.5°	646.4	645.2	647.8	649.7	652.7	652.7
35°	642.0	641.0	643.6	645.0	648.3	648.3
35.5°	637.7	636.5	638.7	640.5	643.6	643.5
36°	633.2	632.1	634.6	636.4	639.5	639.6
36.5°	629.1	627.4	630.0	632.1	635.3	635.1
37°	624.6	622.8	625.4	627.4	630.6	630.8
37.5°	619.9	618.4	620.4	623.0	626.1	626.2
38°	614.6	613.6	615.7	618.0	621.2	620.9
38.5°	610.4	608.7	610.9	613.2	616.4	616.4
39°	605.6	604.1	606.2	608.7	611.7	611.9
39.5°	600.5	599.3	601.0	603.5	606.6	607.2
40°	595.6	594.1	596.7	598.8	601.6	602.0
40.5°	590.5	589.2	591.4	594.0	597.0	597.2
41°	585.3	584.3	586.3	588.6	591.3	592.6
41.5°	580.6	579.0	581.2	583.9	586.5	587.7
42°	575.4	573.9	576.3	578.8	581.2	582.5
42.5°	570.1	569.0	570.9	573.4	576.2	577.4
43°	565.4	564.0	565.9	568.3	571.0	572.3
43.5°	560.1	558.8	560.5	563.4	566.2	567.0
44°	554.4	553.2	555.2	558.2	561.2	562.1
44.5°	549.3	547.9	550.0	552.6	555.8	557.2

TEST NUMBER: P869703
 CATALOG NUMBER: SMX18RLSFS010-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	544.0	542.4	544.6	547.6	550.3	551.5
45.5°	538.8	536.9	539.4	542.3	544.6	545.8
46°	532.9	531.3	534.0	536.5	539.1	540.9
46.5°	527.4	526.0	528.3	531.1	533.8	535.3
47°	521.9	520.1	522.5	525.3	528.3	530.0
47.5°	516.0	514.6	517.1	520.0	522.7	524.0
48°	510.4	508.8	511.1	514.2	517.0	518.7
48.5°	504.7	503.1	505.5	508.7	511.7	513.3
49°	498.9	497.8	499.8	502.8	506.2	507.3
49.5°	493.1	491.9	494.0	497.2	500.2	501.6
50°	487.3	485.8	488.0	491.3	494.5	495.9
50.5°	481.4	480.0	482.2	485.6	488.6	490.1
51°	475.5	474.2	476.2	479.8	482.8	484.0
51.5°	469.7	468.2	470.1	473.6	476.7	478.3
52°	463.5	461.9	464.3	467.4	470.7	472.3
52.5°	457.2	456.1	458.4	461.5	464.5	466.0
53°	451.6	449.9	452.3	455.4	458.8	459.6
53.5°	445.3	443.7	446.1	449.4	452.5	454.0
54°	439.0	437.5	439.8	443.0	446.1	448.0
54.5°	432.8	431.3	433.6	436.9	440.0	442.0
55°	427.0	425.2	427.7	430.8	433.6	435.4
55.5°	420.5	419.0	421.5	424.5	427.9	429.3
56°	414.0	412.8	415.0	418.5	421.6	423.3
56.5°	407.7	406.3	408.7	412.0	415.1	416.9
57°	401.6	399.8	402.2	405.6	408.5	410.3
57.5°	395.0	393.5	395.8	398.9	402.1	404.0
58°	388.4	386.9	389.3	392.5	395.6	397.7
58.5°	381.9	380.3	383.0	386.1	389.3	391.3
59°	375.5	373.8	376.3	379.3	382.6	384.5
59.5°	368.8	367.0	369.6	372.8	375.9	378.1
60°	362.2	360.3	363.0	366.2	369.3	371.4
60.5°	355.6	354.0	356.0	359.7	362.6	364.9
61°	348.9	347.2	349.7	352.9	356.0	358.5
61.5°	342.1	340.5	343.0	346.3	349.5	351.6
62°	335.4	333.8	336.2	339.4	342.7	344.8
62.5°	328.7	327.1	329.4	332.6	335.8	338.0
63°	321.8	320.1	322.4	325.5	329.0	331.3
63.5°	315.1	313.3	315.6	318.7	322.1	324.4
64°	308.0	306.1	308.6	312.0	315.3	317.7
64.5°	301.0	299.4	301.8	304.9	308.3	310.8
65°	294.3	292.7	294.8	297.7	301.5	304.0
65.5°	287.2	285.6	288.1	290.9	294.4	297.0
66°	280.3	278.7	280.8	284.0	287.5	290.3
66.5°	273.3	271.3	274.0	276.9	280.4	283.0
67°	266.1	264.5	266.7	269.8	273.5	276.1

TEST NUMBER: P869703
 CATALOG NUMBER: SMX18RLSFS010-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	259.3	257.5	259.8	262.9	266.5	269.1
68°	252.3	250.1	252.7	255.7	259.5	261.9
68.5°	245.0	243.2	245.4	248.5	252.2	254.9
69°	238.0	236.0	238.2	241.4	245.0	247.9
69.5°	230.8	228.7	231.2	234.2	237.8	240.4
70°	223.8	221.7	224.3	227.2	230.6	233.4
70.5°	216.8	214.5	217.0	219.9	223.7	226.4
71°	209.6	207.4	210.0	213.0	216.5	219.1
71.5°	202.4	200.2	202.5	205.5	209.3	211.9
72°	195.2	193.2	195.2	198.3	202.0	204.9
72.5°	187.9	186.0	188.2	191.3	194.9	197.7
73°	180.8	178.7	180.9	184.0	187.6	190.4
73.5°	173.8	171.6	173.7	176.9	180.5	183.4
74°	166.7	164.4	166.6	169.8	173.1	176.2
74.5°	159.5	157.4	159.4	162.4	165.9	169.1
75°	152.4	150.3	152.4	155.5	158.7	161.7
75.5°	145.6	143.4	145.2	148.5	151.9	154.9
76°	138.4	136.1	138.2	141.3	144.6	147.7
76.5°	131.3	129.2	131.2	134.3	137.8	140.7
77°	124.2	122.3	124.4	127.4	130.8	133.6
77.5°	117.4	115.4	117.5	120.7	124.0	126.6
78°	110.5	108.6	110.7	113.6	117.1	119.8
78.5°	103.8	101.9	103.9	106.7	110.3	112.8
79°	97.1	95.0	97.1	100.1	103.5	106.1
79.5°	90.5	88.4	90.4	93.4	96.7	99.2
80°	84.1	82.0	83.9	86.9	90.0	92.6
80.5°	77.8	75.6	77.6	80.3	83.4	86.2
81°	71.7	69.3	71.2	74.0	77.1	79.8
81.5°	65.4	63.2	65.0	67.8	70.9	73.4
82°	59.2	57.3	58.9	61.8	64.5	67.0
82.5°	53.4	51.5	53.3	55.7	58.7	60.9
83°	47.9	45.9	47.6	50.2	52.9	55.2
83.5°	42.4	40.5	41.9	44.5	47.3	49.4
84°	37.1	35.3	36.8	39.2	41.8	44.0
84.5°	32.0	30.5	31.8	34.1	36.6	38.7
85°	27.1	25.9	27.2	29.3	31.6	33.5
85.5°	22.6	21.8	22.9	24.7	27.0	28.7
86°	18.6	17.7	18.9	20.7	22.8	24.4
86.5°	15.1	14.1	15.1	16.8	18.7	20.4
87°	11.9	10.8	11.8	13.3	15.0	16.5
87.5°	8.8	7.5	8.6	10.1	11.7	13.1
88°	6.1	5.3	5.8	7.0	8.3	9.8
88.5°	3.9	3.4	3.9	4.8	5.8	6.6
89°	2.2	2.0	2.4	3.2	3.9	4.5
89.5°	0.9	1.3	1.6	2.0	2.5	2.9

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869703
CATALOG NUMBER: SMX18RLSFS010-2000LM-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)