

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: P869662

Luminaire Tested: **SMX14RLSFSD2W-2000LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869662
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFSD2W-2000LM-3000K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

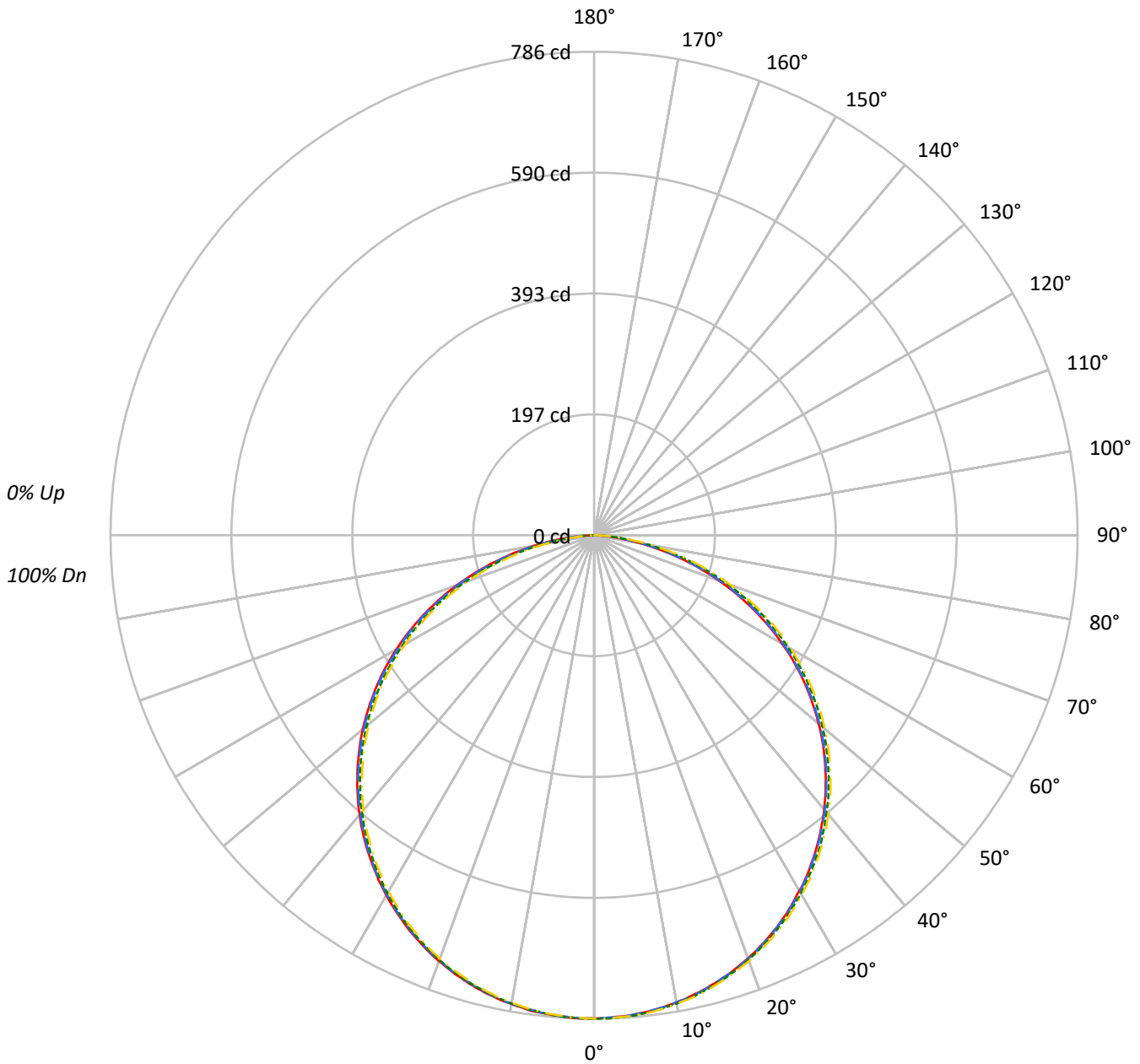
Lumens per Lamp: N/A
 Luminaire Lumens: 2300.0 lumens
 Efficiency: N/A
 Efficacy: 86.8 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 26.5
 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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CATALOG NUMBER: SMX14RLSFS2W-2000LM-3000K

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	79	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	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	29	41	33	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	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7905	7905	7905	7905
5°	7893	7913	7911	7911
10°	7881	7902	7907	7897
15°	7863	7887	7904	7888
20°	7837	7863	7892	7868
25°	7806	7842	7879	7844
30°	7755	7811	7853	7808
35°	7708	7776	7823	7765
40°	7646	7728	7790	7716
45°	7564	7674	7745	7645
50°	7458	7590	7687	7555
55°	7323	7490	7599	7441
60°	7113	7330	7465	7258
65°	6822	7105	7277	6998
70°	6370	6756	6979	6597
75°	5677	6205	6497	5968
80°	4561	5297	5720	4943
85°	2783	3787	4422	3302

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 CATALOG NUMBER: SMX14RLSFSD2W-2000LM-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.2
10°-20°	213.6	9.3
20°-30°	325.4	14.1
30°-40°	395.6	17.2
40°-50°	414.8	18.0
50°-60°	379.7	16.5
60°-70°	292.4	12.7
70°-80°	165.4	7.2
80°-90°	38.7	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°	613.4	26.7
0°-40°	1009.0	43.9
0°-60°	1803.5	78.4
0°-90°	2300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	786	786	786	786	786	
5°	781	783	783	783	781	74
15°	755	757	759	757	755	213
25°	703	706	710	706	703	324
35°	627	633	637	632	627	392
45°	532	539	544	537	532	410
55°	417	427	433	424	417	373
65°	286	298	306	294	286	283
75°	146	160	167	154	146	154
85°	24	33	38	29	24	32
90°	0	0	0	0	0	

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 CATALOG NUMBER: SMX14RLSFS2W-2000LM-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	785.5	785.5	785.5	785.5	785.5	785.5	785.5	785.5	785.5	785.5	785.5
0.5°	785.1	784.9	785.0	785.8	786.0	786.3	785.7	785.4	785.2	785.0	785.2
1°	785.2	784.5	784.8	785.9	786.0	786.0	785.7	785.2	785.6	785.1	784.8
1.5°	784.9	784.7	784.6	785.2	785.8	785.9	785.7	785.5	785.8	784.7	784.9
2°	784.7	784.0	784.3	784.7	785.9	785.7	785.3	785.4	785.6	784.5	784.9
2.5°	784.0	783.9	784.4	785.0	785.3	785.4	785.1	785.1	785.3	784.5	784.6
3°	783.7	783.5	783.9	784.3	784.9	785.1	784.6	784.7	784.9	784.5	784.3
3.5°	783.6	783.1	783.7	783.9	784.9	784.9	784.5	784.5	784.3	784.1	783.9
4°	783.1	782.6	783.1	783.5	784.3	784.3	784.0	783.9	783.7	783.8	784.0
4.5°	782.3	781.8	782.5	782.7	783.6	783.8	783.5	783.6	783.3	783.3	783.0
5°	781.4	780.8	781.8	782.6	783.3	783.1	783.1	783.1	783.1	782.7	782.7
5.5°	780.5	780.1	781.1	781.2	782.4	782.5	782.3	782.3	782.4	782.3	782.1
6°	779.9	779.3	780.3	780.3	781.8	781.6	781.7	781.7	781.8	781.6	781.2
6.5°	779.3	778.6	779.7	779.7	780.8	780.9	781.3	781.1	781.0	781.0	780.4
7°	778.4	777.8	778.1	778.7	779.9	779.6	780.4	780.1	780.5	780.1	779.4
7.5°	777.6	776.8	777.0	777.7	778.8	778.7	779.3	779.1	779.9	779.2	778.3
8°	776.4	775.9	775.8	776.8	777.7	777.6	778.4	778.4	778.8	778.4	777.9
8.5°	775.1	774.7	775.3	775.8	776.8	776.5	777.0	777.0	777.2	777.2	776.6
9°	773.9	773.7	774.1	774.5	775.4	776.0	776.5	776.0	776.1	775.7	775.8
9.5°	772.4	772.3	772.7	773.5	774.4	774.4	775.0	774.9	775.3	775.0	774.4
10°	771.2	771.1	771.1	772.4	773.3	773.3	773.9	773.9	773.8	774.1	773.5
10.5°	769.7	769.9	770.2	770.9	771.9	772.1	772.3	772.7	772.9	772.7	772.1
11°	768.9	768.1	768.8	769.7	770.4	770.6	770.9	771.2	771.7	771.1	770.8
11.5°	766.8	766.6	767.8	767.9	769.0	769.0	770.0	769.9	770.3	769.5	769.2
12°	765.3	765.2	766.0	766.5	767.8	767.6	768.5	768.4	768.9	768.2	767.8
12.5°	763.3	763.8	764.3	764.9	765.9	766.5	766.6	767.2	766.8	767.1	766.5
13°	762.1	762.1	762.5	762.7	764.2	765.0	765.3	765.6	765.8	765.4	765.1
13.5°	760.1	760.1	760.9	761.5	762.6	763.2	763.6	763.9	764.2	763.3	763.4
14°	758.6	758.3	759.0	759.7	760.8	761.3	761.8	761.8	762.4	761.7	761.3
14.5°	756.1	756.3	757.0	758.3	758.8	759.3	760.2	760.5	760.6	760.4	759.6
15°	754.7	754.2	755.4	755.5	757.0	757.5	758.1	758.9	758.7	758.3	758.2
15.5°	752.5	752.2	752.9	753.7	754.9	755.4	756.2	756.8	757.0	756.4	755.8
16°	750.4	750.6	750.7	751.9	752.9	753.4	754.2	754.2	755.0	754.2	753.4
16.5°	748.4	748.6	748.6	749.8	750.6	751.1	752.1	752.1	752.8	752.4	751.5
17°	746.4	746.5	747.0	747.7	748.6	748.9	750.2	750.3	750.4	750.6	749.6
17.5°	744.0	744.1	744.8	745.9	746.2	747.2	748.2	748.2	748.6	748.0	747.7
18°	741.8	741.7	742.4	743.3	744.4	745.0	745.9	746.2	746.4	746.1	745.2
18.5°	739.2	739.0	740.1	740.6	741.8	742.6	743.2	743.7	743.8	743.9	743.1
19°	736.8	736.6	737.8	738.1	739.1	740.3	741.0	741.3	742.0	741.3	740.5
19.5°	734.2	734.3	735.1	736.1	736.9	737.5	739.0	739.0	738.9	739.3	738.1
20°	731.8	731.6	732.6	733.4	734.2	735.5	736.5	736.9	736.9	736.7	735.8
20.5°	729.2	728.8	729.8	731.1	731.7	732.9	733.9	734.4	734.2	734.3	733.5
21°	726.7	726.4	727.0	728.0	729.1	729.9	731.3	731.9	731.9	731.6	730.5
21.5°	723.9	723.5	724.6	725.6	726.6	727.6	728.6	729.3	729.5	728.8	728.0
22°	720.7	721.1	722.0	722.5	723.5	724.9	726.3	726.5	726.6	726.0	725.2

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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°	718.1	717.9	718.9	719.6	721.0	722.0	723.1	723.8	724.0	723.4	722.7
23°	715.2	715.0	715.6	717.2	718.1	719.0	720.5	721.3	720.7	720.7	719.6
23.5°	712.0	712.0	712.5	713.9	715.1	716.0	717.8	718.0	717.9	718.1	716.6
24°	709.1	709.1	710.0	710.8	712.3	713.5	715.0	715.2	715.1	715.3	713.8
24.5°	705.7	706.1	706.7	707.9	709.5	710.1	711.7	712.3	712.3	711.8	710.9
25°	703.0	702.6	703.8	704.6	706.3	707.2	708.8	709.3	709.6	709.3	707.7
25.5°	699.5	699.9	700.4	701.5	702.7	704.2	705.6	706.4	706.1	706.0	704.6
26°	696.2	696.7	697.0	698.4	699.9	701.4	702.2	703.0	702.6	703.0	701.7
26.5°	692.9	692.9	693.5	695.0	696.5	697.7	699.4	699.8	699.5	699.5	698.2
27°	689.9	689.7	690.5	691.3	693.8	694.2	696.0	696.8	696.2	696.4	694.6
27.5°	685.9	686.0	687.0	687.8	690.1	691.0	692.4	693.2	693.1	693.1	691.6
28°	682.3	682.6	683.6	684.6	686.2	687.9	689.3	689.9	689.7	689.6	688.1
28.5°	678.6	678.9	679.7	680.6	683.0	684.2	685.7	686.2	686.2	685.8	684.7
29°	675.1	675.7	676.2	677.4	679.3	680.6	682.5	683.0	683.0	682.4	681.3
29.5°	670.9	671.4	672.5	673.8	676.1	677.0	678.9	679.4	679.6	679.3	677.7
30°	667.4	667.8	668.7	670.2	672.2	673.5	675.4	675.9	675.8	675.7	673.9
30.5°	664.2	664.2	665.4	666.7	668.8	669.7	671.4	672.2	672.0	672.1	670.4
31°	660.3	661.0	661.1	662.5	665.4	665.9	667.7	669.1	668.3	668.5	666.9
31.5°	656.3	656.5	657.5	659.0	661.2	662.5	664.2	664.8	664.8	665.0	663.2
32°	652.7	652.9	653.7	655.1	657.3	658.7	660.9	661.3	661.3	661.3	659.3
32.5°	648.6	649.0	649.2	650.7	653.1	654.7	656.7	657.8	657.0	657.0	655.6
33°	644.3	645.1	645.2	646.8	649.4	650.4	652.7	653.5	652.7	653.2	651.7
33.5°	639.8	640.7	641.4	643.0	645.1	646.4	648.4	649.8	649.0	649.0	647.6
34°	636.0	636.7	637.0	638.9	641.5	642.7	644.5	645.7	645.0	645.1	643.5
34.5°	631.4	632.2	633.2	634.7	637.2	638.6	640.5	641.7	640.8	640.9	639.4
35°	627.4	628.1	628.9	630.2	633.0	634.3	636.5	637.1	636.8	636.8	635.5
35.5°	623.0	623.4	624.6	625.9	628.8	630.2	631.9	632.9	632.9	632.8	631.3
36°	618.8	619.1	619.9	621.5	624.5	626.1	628.2	628.9	628.9	628.4	627.0
36.5°	614.4	614.6	615.9	617.3	620.6	621.4	623.8	624.6	624.6	624.7	622.5
37°	610.0	610.2	611.2	612.8	615.9	617.4	619.4	620.6	620.2	620.2	618.6
37.5°	605.0	605.7	606.6	608.4	611.2	612.8	614.9	615.8	615.6	615.5	614.1
38°	600.3	601.3	602.3	603.8	606.8	608.8	610.9	611.5	611.0	610.8	609.8
38.5°	596.1	596.6	597.4	598.9	602.3	604.0	606.2	606.9	606.9	606.4	605.2
39°	591.4	591.6	592.9	594.5	597.4	599.2	601.7	602.7	602.4	602.0	600.4
39.5°	586.9	586.9	588.3	589.9	592.7	594.9	597.3	598.0	597.7	597.4	595.5
40°	582.0	582.7	583.6	585.4	588.3	590.4	592.2	593.5	593.0	592.9	590.8
40.5°	576.9	577.6	579.0	580.6	583.7	585.7	587.7	588.7	588.4	588.2	586.3
41°	572.1	573.1	574.0	576.0	579.1	581.1	582.9	584.1	584.0	583.4	581.7
41.5°	567.2	568.0	569.1	571.3	574.3	576.4	578.3	579.1	579.2	578.5	576.7
42°	562.3	563.1	563.9	566.2	569.3	571.4	573.2	574.2	574.0	573.6	572.1
42.5°	557.0	558.1	558.8	561.2	564.4	566.2	568.4	569.5	569.2	569.1	567.1
43°	551.9	552.9	553.8	556.0	559.4	561.5	563.7	564.8	564.2	563.9	562.3
43.5°	547.1	547.8	548.9	551.1	554.1	556.3	558.3	559.9	559.4	558.7	557.2
44°	542.2	542.5	543.6	545.8	549.1	551.4	553.6	554.6	554.3	553.8	552.3
44.5°	536.5	537.2	538.7	540.7	544.2	546.4	548.2	549.2	549.1	548.6	547.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	531.5	531.9	533.4	535.7	539.2	541.1	543.2	544.3	544.2	543.8	541.9
45.5°	526.4	526.5	528.1	530.4	533.8	535.8	538.1	538.8	539.2	538.5	536.6
46°	520.9	521.4	522.6	525.1	528.3	530.6	532.9	533.8	534.0	533.5	531.6
46.5°	515.6	515.9	517.1	519.4	523.0	525.3	527.7	528.4	528.5	528.1	526.2
47°	510.1	510.6	512.0	514.4	517.5	520.0	522.4	523.2	523.3	522.6	520.8
47.5°	504.8	505.0	506.8	508.9	512.4	514.7	516.9	517.9	517.8	517.4	515.6
48°	499.1	499.5	501.4	503.4	507.1	509.2	511.7	512.7	512.6	511.9	510.5
48.5°	493.6	494.0	495.7	497.9	501.6	503.8	506.2	507.3	507.3	506.6	505.0
49°	488.2	488.4	490.2	492.3	496.0	498.2	500.9	501.9	501.8	501.1	499.5
49.5°	482.5	482.8	484.4	486.9	490.4	492.7	495.2	496.0	496.5	495.8	494.0
50°	476.4	477.0	478.7	481.1	484.8	487.4	490.0	490.9	491.0	490.4	488.1
50.5°	470.8	471.2	473.1	475.6	479.1	481.8	484.2	485.1	485.1	484.5	482.6
51°	465.1	465.5	467.1	469.7	473.7	476.0	478.3	479.6	479.7	478.6	477.1
51.5°	459.1	459.7	461.4	464.0	467.7	470.4	472.8	473.9	474.0	473.1	471.2
52°	453.2	453.8	455.4	458.2	462.3	464.7	467.3	468.5	468.1	467.2	465.8
52.5°	447.2	448.0	449.8	452.2	456.4	458.7	461.4	462.6	462.2	461.5	459.6
53°	441.5	442.2	444.0	446.4	450.4	453.0	455.6	456.9	456.6	455.9	453.9
53.5°	435.4	435.7	437.9	440.3	444.7	447.3	449.4	450.8	450.5	450.0	448.2
54°	429.4	429.5	431.6	434.1	438.8	441.1	443.7	445.1	444.6	444.3	442.1
54.5°	423.5	424.1	425.8	428.1	432.6	435.3	437.9	438.9	438.8	438.2	435.9
55°	417.4	417.9	419.7	422.5	426.9	429.5	432.1	433.5	433.1	432.3	430.1
55.5°	411.2	411.5	413.7	416.1	420.8	423.6	426.0	427.4	427.1	426.1	424.4
56°	405.0	405.4	407.4	410.0	414.9	417.3	420.2	421.5	421.0	420.1	418.1
56.5°	398.5	399.2	401.4	403.6	408.6	411.1	413.8	415.0	415.1	413.7	412.2
57°	392.2	393.0	394.8	397.2	402.2	405.2	407.9	409.3	408.8	407.8	406.0
57.5°	385.8	386.4	388.4	391.0	396.0	398.7	401.5	402.6	402.6	401.7	399.7
58°	379.8	380.2	382.0	384.9	389.8	392.7	395.4	396.5	396.2	395.2	393.5
58.5°	373.2	373.5	375.8	378.4	383.5	386.3	388.9	390.3	390.4	388.9	387.2
59°	366.7	367.5	369.2	372.1	377.3	380.0	382.7	384.0	384.1	382.4	380.7
59.5°	360.0	360.9	362.7	365.5	370.7	373.7	376.3	377.6	377.3	376.4	374.4
60°	353.4	354.2	356.5	359.3	364.2	367.3	369.9	371.2	370.9	369.8	367.9
60.5°	347.2	347.7	349.5	352.6	357.5	361.0	363.5	364.8	364.6	363.5	361.4
61°	340.8	341.4	343.3	346.4	351.1	354.4	357.2	358.4	358.1	356.8	355.3
61.5°	333.9	334.6	336.7	339.7	344.6	347.9	350.4	351.8	351.9	350.5	348.7
62°	327.1	328.1	330.1	332.9	338.5	341.7	344.2	345.4	345.3	344.2	342.3
62.5°	320.2	321.2	323.0	326.1	331.8	335.1	337.8	338.9	338.8	337.5	335.6
63°	313.5	314.6	316.5	319.6	325.1	328.5	331.0	332.4	332.2	331.0	329.0
63.5°	306.8	307.9	309.9	312.7	318.4	321.7	324.6	325.7	325.7	324.4	322.3
64°	299.8	301.0	303.2	306.1	311.6	315.2	317.7	318.8	318.9	317.6	315.8
64.5°	293.4	294.4	296.3	299.4	305.0	308.2	311.1	312.2	312.2	311.0	308.7
65°	286.5	287.5	289.7	292.8	298.4	301.8	304.6	305.6	305.6	304.4	302.5
65.5°	279.6	280.7	282.7	286.1	291.8	295.0	297.7	298.9	299.0	297.8	295.4
66°	272.5	273.6	275.7	278.9	284.7	288.1	290.8	292.1	291.9	290.9	288.6
66.5°	265.7	266.9	268.7	271.8	277.9	281.1	283.8	285.2	285.0	283.7	281.7
67°	259.1	259.8	261.9	265.1	271.0	274.3	277.0	278.4	278.3	277.2	274.7

TEST NUMBER: P869662
 CATALOG NUMBER: SMX14RLSFS2W-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	251.8	253.0	255.2	258.2	264.1	267.3	270.1	271.6	271.7	270.3	267.9
68°	244.9	245.8	248.1	251.3	257.2	260.7	263.7	264.6	264.7	263.4	261.3
68.5°	237.8	238.9	241.0	244.3	250.5	253.9	256.4	257.8	257.8	256.4	254.6
69°	230.7	231.6	234.0	237.3	243.5	246.9	249.7	250.9	250.9	249.5	247.7
69.5°	223.6	224.6	227.1	230.0	236.6	240.1	242.8	244.0	244.1	242.6	240.3
70°	216.5	217.6	220.0	223.1	229.6	232.9	235.8	237.0	237.2	235.7	233.3
70.5°	209.6	210.6	213.0	216.3	222.9	225.9	228.8	230.2	230.2	228.9	226.4
71°	202.5	203.3	205.9	208.9	215.7	219.3	222.2	223.3	223.3	221.9	219.6
71.5°	195.2	196.4	198.7	201.8	208.6	212.3	215.0	216.2	216.3	214.9	212.4
72°	188.4	189.3	191.6	194.8	201.4	205.2	208.1	209.1	209.3	207.8	205.4
72.5°	181.5	182.5	184.8	188.0	194.5	198.2	200.9	202.3	202.4	200.8	198.5
73°	174.3	175.3	177.8	180.7	187.4	191.0	193.9	195.0	195.2	193.7	191.1
73.5°	167.1	168.1	170.6	173.7	180.7	184.2	187.0	188.2	188.3	186.8	184.4
74°	160.0	161.2	163.6	166.6	173.7	177.2	180.2	181.2	181.4	179.8	177.5
74.5°	152.9	154.1	156.6	159.5	166.5	170.2	173.1	174.3	174.4	173.0	170.3
75°	146.0	147.1	149.6	152.6	159.6	163.1	165.9	167.1	167.1	165.8	163.4
75.5°	139.1	140.2	142.6	145.8	152.5	156.1	158.8	160.2	160.1	158.7	156.3
76°	132.1	133.2	135.6	138.7	145.5	149.1	151.7	153.1	153.3	151.7	149.3
76.5°	125.1	126.3	128.7	131.7	138.7	142.3	144.9	146.1	146.2	144.8	142.1
77°	118.1	119.3	121.9	125.0	131.7	135.2	138.0	139.3	139.1	137.9	135.5
77.5°	111.6	112.8	115.2	118.2	124.9	128.4	131.2	132.3	132.4	131.0	128.5
78°	104.8	106.0	108.4	111.2	118.0	121.6	124.4	125.4	125.5	124.0	121.7
78.5°	98.1	99.3	101.7	104.9	111.1	114.6	117.5	118.5	118.6	117.3	114.8
79°	91.6	92.8	95.2	98.2	104.7	107.9	110.5	111.7	111.7	110.4	108.2
79.5°	85.1	86.1	88.6	91.6	98.0	101.4	104.1	105.2	105.2	103.9	101.4
80°	78.7	79.6	82.2	85.1	91.4	94.8	97.4	98.6	98.7	97.3	95.0
80.5°	72.3	73.5	75.8	78.6	85.1	88.4	91.0	92.1	92.1	90.7	88.2
81°	66.3	67.4	69.5	72.4	78.6	81.8	84.4	85.6	85.6	84.4	82.0
81.5°	60.3	61.5	63.5	66.4	72.4	75.5	77.9	79.1	79.0	77.6	75.5
82°	54.3	55.4	57.6	60.2	66.1	69.3	71.6	72.8	72.9	71.5	69.2
82.5°	48.8	49.9	52.0	54.5	60.3	63.3	65.6	66.7	66.7	65.4	63.2
83°	43.3	44.4	46.3	48.7	54.4	57.5	59.8	61.0	60.9	59.7	57.4
83.5°	38.1	39.0	41.0	43.3	48.7	51.5	53.8	55.0	54.9	53.5	51.6
84°	33.0	34.1	36.0	38.1	43.0	46.0	48.1	49.2	49.2	47.8	45.8
84.5°	28.4	29.3	31.0	33.3	37.8	40.4	42.7	43.7	43.6	42.4	40.5
85°	24.1	25.0	26.7	28.4	32.8	35.4	37.4	38.4	38.3	37.1	35.5
85.5°	19.9	20.5	22.2	24.2	28.1	30.4	32.3	33.2	33.2	32.1	30.3
86°	16.1	16.6	18.2	20.0	24.0	25.9	27.6	28.4	28.4	27.3	25.8
86.5°	12.2	12.8	14.3	16.1	20.1	21.9	23.5	24.3	24.3	23.3	21.6
87°	8.8	9.3	10.5	12.2	16.2	18.1	19.7	20.4	20.3	19.5	17.9
87.5°	6.4	6.6	7.6	8.9	12.6	14.4	15.9	16.5	16.4	15.6	14.2
88°	4.0	4.4	5.1	6.4	9.4	10.9	12.2	12.9	12.8	12.1	10.9
88.5°	2.4	2.7	3.3	4.1	6.5	7.9	9.0	9.6	9.5	8.8	7.7
89°	1.5	1.6	2.0	2.5	4.1	5.3	6.2	6.7	6.6	6.0	5.2
89.5°	1.0	0.9	1.1	1.4	2.3	3.3	3.9	4.2	4.2	3.8	3.0

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



TEST NUMBER: P869662
CATALOG NUMBER: SMX14RLSFSD2W-2000LM-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: P869662
 CATALOG NUMBER: SMX14RLSFSD2W-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	785.5	785.5	785.5	785.5	785.5	785.5
0.5°	785.5	786.2	785.9	785.5	785.7	785.1
1°	785.5	786.2	785.7	785.3	785.5	785.2
1.5°	785.6	786.1	785.6	784.8	784.7	784.9
2°	785.2	785.7	785.2	784.9	784.7	784.7
2.5°	784.8	785.3	785.0	784.5	784.2	784.0
3°	784.5	784.6	784.8	784.2	784.3	783.7
3.5°	784.4	784.4	784.2	783.8	784.0	783.6
4°	784.0	783.9	783.5	782.8	782.6	783.1
4.5°	783.2	783.4	783.3	782.3	782.5	782.3
5°	782.6	783.1	782.5	781.7	781.3	781.4
5.5°	782.4	782.0	782.2	781.2	781.2	780.5
6°	781.5	781.3	781.1	780.3	780.5	779.9
6.5°	780.4	780.1	780.2	779.3	779.5	779.3
7°	779.5	779.4	779.3	778.6	778.7	778.4
7.5°	778.6	778.6	778.4	777.6	778.1	777.6
8°	777.5	777.3	777.3	776.6	777.2	776.4
8.5°	776.8	776.3	775.9	775.5	775.7	775.1
9°	775.9	775.5	775.2	774.1	774.4	773.9
9.5°	774.7	774.4	774.0	772.7	773.1	772.4
10°	773.2	772.8	772.5	771.9	771.8	771.2
10.5°	772.0	771.7	771.2	770.2	769.8	769.7
11°	770.7	770.2	769.8	769.0	768.3	768.9
11.5°	769.1	768.7	768.3	767.3	767.1	766.8
12°	767.6	767.2	766.8	766.0	765.9	765.3
12.5°	766.2	765.9	765.4	764.0	763.9	763.3
13°	764.3	764.5	763.6	762.6	762.4	762.1
13.5°	762.6	762.5	761.8	760.7	760.7	760.1
14°	761.1	760.6	760.4	758.8	758.5	758.6
14.5°	758.9	758.8	758.4	757.1	756.9	756.1
15°	757.3	757.1	756.4	755.1	754.7	754.7
15.5°	755.7	755.1	754.3	753.0	752.8	752.5
16°	753.4	753.1	752.1	750.8	750.7	750.4
16.5°	751.4	751.0	750.0	748.6	748.4	748.4
17°	749.5	748.8	747.7	746.7	746.4	746.4
17.5°	747.6	746.4	745.8	744.4	744.4	744.0
18°	745.0	744.3	742.8	742.1	741.7	741.8
18.5°	742.9	742.3	741.2	739.7	739.7	739.2
19°	740.5	739.7	738.7	737.5	736.9	736.8
19.5°	737.9	737.1	736.5	735.2	734.5	734.2
20°	735.6	734.7	733.7	732.5	732.2	731.8
20.5°	733.2	731.9	731.0	729.7	729.6	729.2
21°	730.3	729.4	728.3	727.1	726.3	726.7
21.5°	727.4	726.7	725.6	724.4	723.8	723.9
22°	724.8	724.0	722.7	721.4	720.4	720.7

TEST NUMBER: P869662
 CATALOG NUMBER: SMX14RLSFSD2W-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	721.8	720.9	719.9	718.3	718.0	718.1
23°	719.1	718.4	717.2	715.4	714.9	715.2
23.5°	716.2	715.5	714.5	712.5	712.1	712.0
24°	713.2	712.5	711.0	709.4	708.9	709.1
24.5°	710.5	709.3	708.2	706.1	705.7	705.7
25°	707.7	706.4	705.1	703.6	702.9	703.0
25.5°	704.4	703.4	701.7	700.2	699.8	699.5
26°	701.0	700.3	698.5	697.3	696.3	696.2
26.5°	697.4	696.5	695.1	693.6	693.1	692.9
27°	694.3	693.3	692.0	690.0	689.5	689.9
27.5°	691.5	689.6	688.3	686.7	686.0	685.9
28°	687.3	686.2	685.1	682.7	682.0	682.3
28.5°	684.1	682.9	681.4	679.3	678.2	678.6
29°	680.8	679.2	677.6	675.8	674.9	675.1
29.5°	677.3	675.6	674.0	671.9	671.2	670.9
30°	673.6	671.9	670.6	668.3	667.8	667.4
30.5°	669.7	668.4	666.9	664.8	663.9	664.2
31°	666.3	664.4	662.4	661.1	660.2	660.3
31.5°	662.6	660.1	658.9	657.3	656.3	656.3
32°	658.6	656.7	654.9	653.2	652.1	652.7
32.5°	654.8	652.7	651.3	649.1	648.2	648.6
33°	650.7	648.6	647.1	645.1	644.3	644.3
33.5°	646.6	644.4	642.8	641.0	640.0	639.8
34°	642.5	640.7	638.4	636.6	635.9	636.0
34.5°	638.7	636.2	634.4	632.4	631.2	631.4
35°	634.2	632.1	629.8	628.3	627.3	627.4
35.5°	630.2	628.0	626.3	624.1	622.9	623.0
36°	625.7	623.7	621.7	619.5	618.7	618.8
36.5°	621.7	619.0	617.0	614.9	614.0	614.4
37°	617.0	614.7	612.3	611.0	609.9	610.0
37.5°	613.2	610.6	608.5	606.6	605.3	605.0
38°	608.2	605.7	603.6	601.6	600.4	600.3
38.5°	603.8	601.1	598.8	596.8	596.1	596.1
39°	598.9	596.4	594.1	592.6	591.6	591.4
39.5°	594.7	591.6	589.7	587.7	586.8	586.9
40°	589.6	587.4	585.2	583.0	582.1	582.0
40.5°	585.4	582.6	580.2	578.3	577.5	576.9
41°	580.2	577.8	575.1	573.3	572.3	572.1
41.5°	575.9	572.7	570.3	568.3	567.1	567.2
42°	570.8	567.7	565.4	563.1	562.4	562.3
42.5°	565.7	562.8	560.5	558.2	557.2	557.0
43°	560.9	557.5	555.5	553.2	552.2	551.9
43.5°	555.9	552.6	550.7	548.0	547.3	547.1
44°	550.6	547.7	545.3	542.8	541.9	542.2
44.5°	545.8	542.4	540.1	537.8	536.6	536.5

TEST NUMBER: P869662
 CATALOG NUMBER: SMX14RLSFSD2W-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	540.5	537.2	534.8	532.6	531.5	531.5
45.5°	535.3	531.8	529.6	527.0	526.5	526.4
46°	530.0	526.9	524.1	522.1	520.9	520.9
46.5°	524.7	521.1	518.8	516.6	515.2	515.6
47°	519.5	516.0	513.3	511.3	509.7	510.1
47.5°	514.0	510.5	507.8	506.0	504.4	504.8
48°	508.5	505.0	502.5	500.4	499.1	499.1
48.5°	503.4	499.5	497.0	494.8	493.9	493.6
49°	497.9	494.2	491.4	489.1	488.2	488.2
49.5°	492.0	488.5	485.9	483.4	482.2	482.5
50°	486.5	482.6	480.0	477.9	476.6	476.4
50.5°	480.7	476.9	474.5	472.2	471.0	470.8
51°	475.0	471.4	468.6	466.3	465.4	465.1
51.5°	469.8	465.7	463.0	460.5	459.2	459.1
52°	463.8	459.8	457.3	454.9	453.3	453.2
52.5°	457.9	453.7	451.2	448.9	447.6	447.2
53°	451.9	447.9	445.4	442.8	441.4	441.5
53.5°	446.1	442.0	439.1	436.6	435.3	435.4
54°	440.0	435.7	433.3	430.8	429.3	429.4
54.5°	434.2	429.9	427.3	424.9	423.7	423.5
55°	428.2	424.1	421.1	418.7	417.6	417.4
55.5°	422.3	417.7	414.9	412.8	411.3	411.2
56°	416.2	411.4	409.0	406.4	404.9	405.0
56.5°	409.9	405.4	402.4	400.0	399.0	398.5
57°	403.7	399.2	396.3	393.6	392.3	392.2
57.5°	397.5	392.8	389.8	387.2	385.8	385.8
58°	391.2	386.4	383.5	380.9	379.6	379.8
58.5°	385.1	380.1	377.1	374.4	373.1	373.2
59°	378.7	373.6	370.4	367.9	366.7	366.7
59.5°	372.0	367.4	364.3	361.1	359.9	360.0
60°	365.6	360.6	357.5	354.7	353.5	353.4
60.5°	359.2	354.0	351.0	348.0	347.0	347.2
61°	352.6	347.5	344.5	342.0	340.5	340.8
61.5°	346.2	340.9	337.9	335.2	333.9	333.9
62°	339.8	334.3	331.3	328.5	327.2	327.1
62.5°	333.1	327.5	324.5	321.4	320.2	320.2
63°	326.5	320.8	317.7	314.9	313.7	313.5
63.5°	319.8	313.8	311.0	308.3	306.9	306.8
64°	313.0	307.3	304.3	301.7	300.3	299.8
64.5°	306.2	300.7	297.4	294.9	293.4	293.4
65°	299.7	293.9	290.5	288.0	286.5	286.5
65.5°	293.0	286.9	283.8	281.0	279.8	279.6
66°	285.9	280.1	276.8	273.7	272.5	272.5
66.5°	278.9	273.0	269.8	267.0	265.7	265.7
67°	272.1	266.4	263.0	260.3	258.7	259.1

TEST NUMBER: P869662
 CATALOG NUMBER: SMX14RLSFSD2W-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	265.7	259.3	255.8	253.5	251.6	251.8
68°	258.6	252.4	248.7	246.2	244.9	244.9
68.5°	251.6	245.4	241.8	239.0	237.7	237.8
69°	244.5	238.3	234.7	232.2	230.5	230.7
69.5°	237.7	231.3	227.8	224.9	223.4	223.6
70°	230.8	224.2	220.9	217.8	216.8	216.5
70.5°	223.6	217.1	213.8	211.1	209.7	209.6
71°	216.6	209.8	206.7	203.8	202.3	202.5
71.5°	209.7	202.8	199.5	196.8	195.0	195.2
72°	202.6	195.9	192.5	189.7	188.4	188.4
72.5°	195.6	188.9	185.6	182.7	181.4	181.5
73°	188.3	181.8	178.3	175.4	174.4	174.3
73.5°	181.5	174.6	171.4	168.5	166.9	167.1
74°	174.5	167.7	164.1	161.4	159.9	160.0
74.5°	167.4	160.6	157.3	154.3	152.8	152.9
75°	160.2	153.5	150.1	147.4	146.2	146.0
75.5°	153.3	146.5	143.2	140.3	138.7	139.1
76°	146.2	139.4	136.1	133.4	132.1	132.1
76.5°	139.4	132.5	129.0	126.4	125.2	125.1
77°	132.4	125.8	122.4	119.6	118.1	118.1
77.5°	125.5	118.9	115.6	113.0	111.6	111.6
78°	118.6	111.9	108.7	106.2	104.8	104.8
78.5°	111.7	105.3	102.2	99.5	98.3	98.1
79°	105.1	98.7	95.5	93.0	91.7	91.6
79.5°	98.4	92.0	88.9	86.2	85.1	85.1
80°	92.0	85.3	82.2	79.7	78.5	78.7
80.5°	85.4	79.1	76.1	73.4	72.2	72.3
81°	79.0	72.7	69.6	67.4	66.3	66.3
81.5°	72.6	66.8	63.8	61.3	60.2	60.3
82°	66.5	60.8	57.8	55.4	54.3	54.3
82.5°	60.7	55.0	52.2	50.0	48.8	48.8
83°	54.7	49.1	46.5	44.4	43.4	43.3
83.5°	48.9	43.7	41.1	39.0	38.0	38.1
84°	43.3	38.5	36.0	34.0	33.0	33.0
84.5°	38.1	33.5	31.2	29.3	28.4	28.4
85°	33.0	28.6	26.7	25.0	24.2	24.1
85.5°	28.2	24.5	22.3	20.7	20.0	19.9
86°	23.9	20.3	18.3	16.7	16.0	16.1
86.5°	20.1	16.3	14.3	12.7	12.2	12.2
87°	16.2	12.4	10.6	9.4	8.7	8.8
87.5°	12.5	9.0	7.7	6.7	6.3	6.4
88°	9.4	6.4	5.3	4.4	4.1	4.0
88.5°	6.4	4.1	3.4	2.9	2.5	2.4
89°	4.1	2.7	2.1	1.6	1.4	1.5
89.5°	2.2	1.6	1.2	1.0	1.3	1.0

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869662
CATALOG NUMBER: SMX14RLSFSD2W-2000LM-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)