

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P579677

Luminaire Tested: **SMD14R209SWHE-EM - 4000K**

Issue Date: 11/23/2021



Test Information

Test Method: LM-41-14
Report Number: P579677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2110240B001)
Test Lab:
Issue Date: 11/23/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD14R209SWHE-EM - 4000K
Description: SMD SELECTABLE CCT 4000K
Light Source: SELECTABLE CCT LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

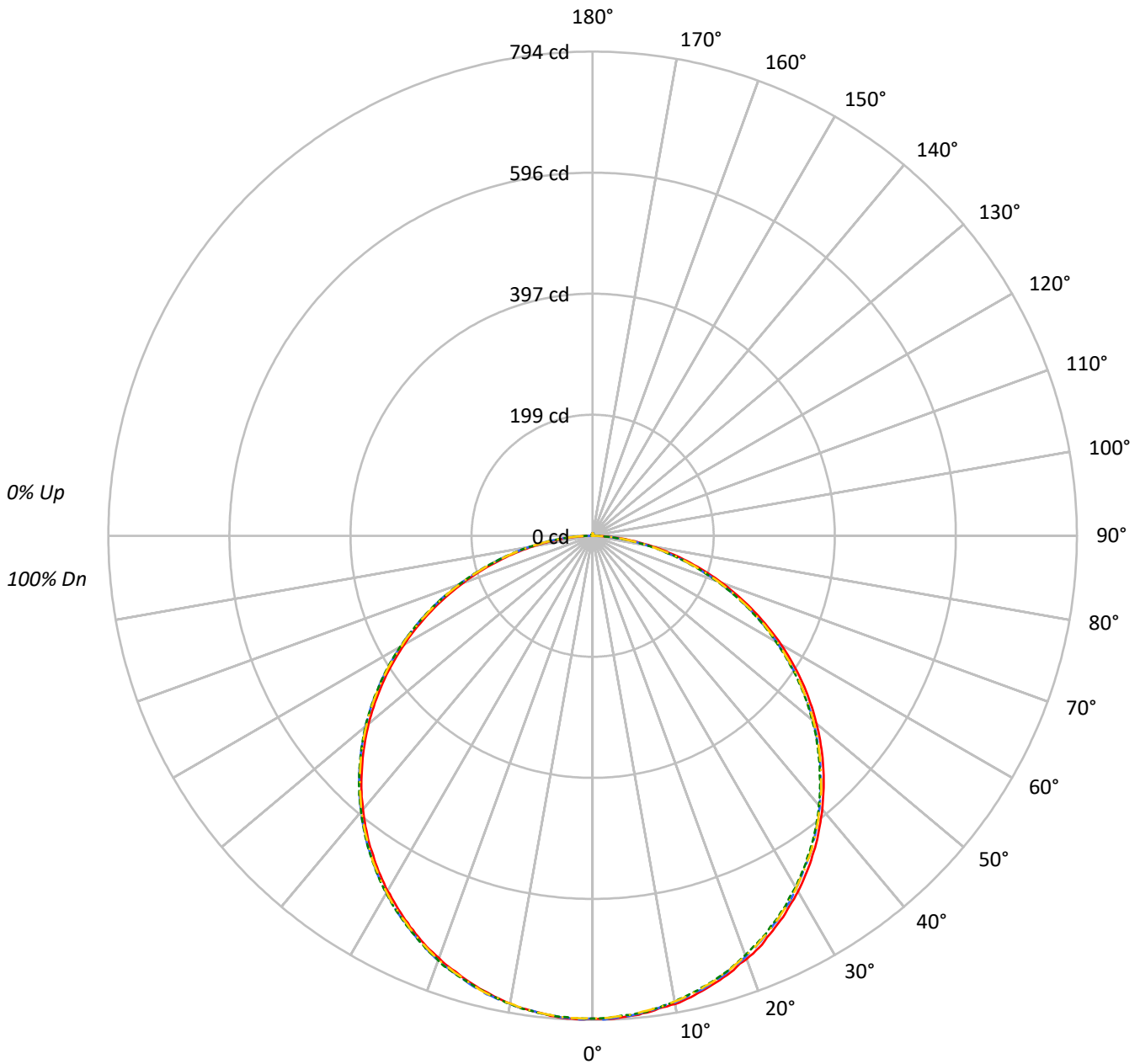
Lumens per Lamp: N/A
Luminaire Lumens: 2310.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 29.3
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	38	32	28	26																			
10	52	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°	10849	10849	10849	10849
5°	10861	10831	10874	10857
10°	10849	10795	10838	10846
15°	10805	10744	10797	10822
20°	10772	10674	10749	10804
25°	10712	10602	10703	10755
30°	10657	10532	10644	10715
35°	10577	10430	10564	10647
40°	10479	10328	10477	10566
45°	10362	10185	10358	10478
50°	10213	10006	10221	10364
55°	10028	9799	10031	10203
60°	9783	9509	9780	9988
65°	9453	9142	9466	9712
70°	9024	8643	9048	9337
75°	8467	7985	8494	8859
80°	7782	7087	7790	8303
85°	6793	5708	6856	7689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	3.2
10°-20°	214.7	9.3
20°-30°	326.0	14.1
30°-40°	394.7	17.1
40°-50°	411.7	17.8
50°-60°	374.2	16.2
60°-70°	287.9	12.5
70°-80°	169.0	7.3
80°-90°	49.0	2.1
90°-100°	0.3	0.0
100°-110°	0.5	0.0
110°-120°	0.8	0.0
120°-130°	1.1	0.0
130°-140°	1.3	0.1
140°-150°	1.4	0.1
150°-160°	1.3	0.1
160°-170°	1.0	0.0
170°-180°	0.3	0.0
0°-30°	615.6	26.6
0°-40°	1010.2	43.7
0°-60°	1796.1	77.8
0°-90°	2302.0	99.7
90°-120°	1.6	0.1
90°-150°	5.4	0.2
90°-180°	8.0	0.3
0°-180°	2310.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	792	792	792	792	792	
5°	790	787	790	789	790	75
15°	762	757	761	763	762	215
25°	708	701	708	711	708	327
35°	632	623	631	636	632	395
45°	535	526	534	541	535	412
55°	420	410	420	427	420	375
65°	292	282	292	300	292	288
75°	160	151	160	167	160	169
85°	43	36	44	49	43	47
90°	1	0	2	4	1	3
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	1	1	1	1	1	1
125°	1	1	1	1	1	1
135°	2	2	2	2	2	1
145°	2	2	2	3	2	1
155°	3	3	3	3	3	1
165°	3	3	3	4	3	1
175°	3	4	4	4	3	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6
0.5°	792.2	791.2	792.4	792.0	791.7	791.4	791.3	792.2	792.4	792.1	791.9
1°	792.3	792.2	793.8	791.8	791.2	792.0	790.9	791.3	793.3	792.3	793.0
1.5°	792.5	791.7	793.2	789.8	791.0	791.5	791.0	791.3	793.3	791.8	793.3
2°	793.0	791.5	792.2	790.4	790.9	791.4	791.1	791.3	793.3	792.1	792.6
2.5°	792.8	792.2	791.4	790.0	789.9	790.7	789.9	790.5	792.6	791.0	792.5
3°	791.8	790.4	791.2	789.2	789.3	790.2	789.4	789.8	793.0	791.8	791.7
3.5°	790.9	790.7	790.1	790.0	788.4	789.2	789.4	789.4	792.3	789.9	791.7
4°	790.6	790.2	790.1	789.0	788.1	789.3	788.4	789.2	791.9	790.6	791.0
4.5°	789.9	789.1	789.8	786.6	788.3	788.6	787.8	788.1	790.6	790.0	789.8
5°	789.5	788.8	787.9	786.5	787.3	787.0	786.7	787.8	790.4	789.9	789.2
5.5°	789.3	787.7	787.3	785.7	786.4	787.6	786.1	787.1	788.9	788.5	788.8
6°	787.1	787.4	786.4	785.8	786.1	786.3	784.4	786.6	787.7	788.1	788.2
6.5°	786.9	786.0	785.3	784.2	785.7	785.2	784.0	785.9	786.7	786.4	787.5
7°	786.0	785.4	784.4	783.3	782.9	783.8	783.2	784.9	786.0	786.5	785.8
7.5°	784.8	784.5	783.0	782.3	782.3	782.9	781.7	783.2	785.3	784.9	784.8
8°	782.6	782.8	781.7	781.1	781.5	781.5	780.9	782.6	784.1	783.5	784.6
8.5°	781.9	781.5	780.2	780.0	779.4	781.1	779.8	781.7	783.4	782.3	783.0
9°	781.3	779.6	778.4	778.4	778.3	778.9	778.1	779.3	782.4	781.1	782.4
9.5°	779.7	778.4	777.2	777.2	777.1	777.3	776.9	777.6	780.9	779.8	781.2
10°	779.6	777.1	777.4	776.1	775.7	775.1	775.9	776.4	778.8	778.7	779.3
10.5°	778.8	775.8	774.9	773.3	773.2	774.3	774.2	774.9	777.8	777.6	778.2
11°	777.0	774.7	773.7	772.3	772.0	772.6	772.9	773.3	775.8	775.8	776.8
11.5°	775.1	773.1	771.9	770.9	770.2	770.7	770.9	770.9	774.2	774.0	775.8
12°	773.7	771.4	769.8	770.0	768.5	768.6	769.0	769.9	772.8	773.0	774.1
12.5°	771.8	769.0	768.1	767.9	766.5	767.5	767.4	768.2	770.5	771.5	772.7
13°	769.5	767.4	766.5	764.0	765.0	766.1	765.4	766.5	768.6	770.8	771.7
13.5°	767.7	766.1	765.7	762.4	762.4	763.5	763.7	765.3	767.0	768.8	769.6
14°	766.0	764.6	763.4	760.5	760.8	762.2	761.5	762.7	765.3	765.2	767.4
14.5°	763.8	762.3	761.4	758.8	758.8	760.4	759.7	760.5	763.2	764.1	765.8
15°	761.5	760.2	759.5	757.3	757.2	758.4	758.1	758.4	761.0	761.8	764.0
15.5°	759.9	758.4	756.6	755.1	754.6	756.0	755.8	756.5	759.0	759.7	761.7
16°	757.9	756.0	754.1	753.1	752.3	753.3	752.9	754.1	756.7	757.6	758.8
16.5°	755.2	753.4	752.4	750.1	750.2	751.7	750.4	751.8	754.3	755.2	756.7
17°	753.4	751.5	750.0	747.6	748.1	749.3	748.4	749.6	751.6	752.8	754.8
17.5°	751.1	749.0	746.4	745.9	745.7	746.4	746.5	747.6	748.9	750.9	752.3
18°	748.8	746.1	744.6	743.1	742.7	743.7	743.8	744.9	747.3	748.8	750.3
18.5°	745.1	743.2	742.6	740.4	739.8	741.3	740.7	741.5	745.0	746.2	747.9
19°	741.9	741.1	739.9	737.8	737.5	738.4	738.5	739.0	742.8	743.7	746.2
19.5°	740.4	738.3	737.1	734.4	734.5	736.1	735.6	737.7	740.2	741.5	743.6
20°	738.6	735.6	734.6	731.6	731.9	733.3	732.8	735.3	737.0	738.5	741.2
20.5°	735.7	732.8	731.2	729.4	729.0	730.0	730.5	732.8	734.6	735.6	738.5
21°	733.8	730.8	729.0	727.0	726.0	727.1	727.8	729.5	731.6	733.4	735.4



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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°	725.8	721.5	720.0	717.4	717.3	718.7	719.0	720.4	723.6	724.5	726.9
23°	722.0	718.0	716.7	714.3	714.6	715.8	715.8	717.7	720.4	721.5	723.6
23.5°	717.9	715.1	713.6	710.4	711.9	712.3	713.1	714.5	716.9	718.5	720.6
24°	714.8	712.1	710.5	707.5	708.2	708.4	709.8	711.2	714.4	714.8	717.4
24.5°	711.8	708.7	706.7	704.6	704.2	705.0	706.5	708.0	710.4	711.5	714.3
25°	708.4	705.6	703.0	701.3	701.1	702.0	703.1	704.6	707.8	708.9	711.2
25.5°	705.1	702.5	700.7	698.0	698.2	698.9	699.9	701.7	703.5	705.7	707.7
26°	701.9	699.7	697.2	694.5	694.5	695.7	696.7	698.8	700.8	702.4	704.5
26.5°	699.2	696.0	693.2	691.5	690.9	691.8	693.1	695.0	697.0	699.0	701.3
27°	695.6	692.5	689.9	688.1	687.5	688.8	689.7	692.0	693.5	695.5	698.0
27.5°	691.6	689.1	686.5	684.3	684.3	685.6	686.1	688.2	690.6	692.8	695.0
28°	687.6	685.6	683.3	680.7	680.1	681.8	682.5	684.8	686.5	688.6	691.4
28.5°	684.2	681.9	680.0	676.6	675.8	677.9	678.8	680.9	682.8	685.5	687.6
29°	680.9	678.0	675.7	673.0	671.7	674.0	675.1	677.6	679.4	682.0	683.8
29.5°	677.1	673.8	671.7	669.6	668.8	670.2	671.3	673.2	675.3	677.6	680.4
30°	673.4	669.8	667.7	665.5	665.5	666.7	667.2	669.3	672.6	673.9	676.6
30.5°	669.7	666.0	663.7	661.5	661.2	662.7	663.3	665.8	668.7	670.2	672.7
31°	665.7	662.3	659.3	657.3	657.1	658.7	659.0	662.3	664.4	666.3	669.4
31.5°	661.9	658.3	655.1	653.4	653.0	654.7	655.3	658.1	660.7	662.3	665.3
32°	657.6	654.3	650.8	649.5	648.9	650.9	651.6	654.1	656.7	658.1	661.0
32.5°	653.6	650.1	646.6	645.3	645.3	647.2	647.7	650.3	652.8	654.0	657.0
33°	649.5	645.7	642.6	641.2	640.9	642.9	643.1	645.9	648.3	650.4	653.0
33.5°	645.3	641.2	638.3	637.3	636.2	638.1	638.5	641.4	644.4	646.7	648.6
34°	641.0	637.1	634.5	633.2	632.0	633.8	634.5	637.4	639.9	641.9	645.1
34.5°	636.5	632.8	630.3	628.6	628.5	629.8	630.4	633.2	635.4	636.9	640.5
35°	632.2	628.4	626.0	623.9	623.4	625.1	626.3	629.1	631.4	633.1	636.0
35.5°	628.3	623.9	621.8	619.5	619.5	620.3	622.2	624.6	627.6	629.2	631.7
36°	623.7	619.6	617.1	614.9	615.2	615.8	617.3	619.6	623.0	625.3	627.5
36.5°	619.2	614.9	612.7	610.2	610.4	611.5	612.8	615.0	618.9	620.4	623.3
37°	614.4	610.6	607.6	605.4	605.8	606.7	608.1	610.4	613.9	615.9	618.6
37.5°	609.1	605.7	602.7	601.0	601.4	602.4	603.4	605.7	609.2	611.8	614.3
38°	604.4	600.7	597.9	596.3	596.6	597.5	598.9	601.2	604.9	606.8	609.5
38.5°	600.0	596.3	593.2	591.5	591.8	593.0	594.1	596.4	600.2	602.2	604.7
39°	595.3	591.7	588.6	586.4	587.0	588.5	589.0	591.9	595.4	597.5	600.4
39.5°	590.5	586.7	583.9	581.3	582.4	583.4	584.5	587.0	590.5	592.3	595.9
40°	585.7	581.9	578.9	576.3	577.3	578.1	579.7	582.4	585.6	587.9	591.1
40.5°	580.6	577.0	573.8	571.6	572.5	573.8	574.7	577.1	580.5	583.0	586.2
41°	575.5	572.0	568.8	567.1	567.4	568.4	569.8	572.4	575.7	578.3	581.1
41.5°	570.5	566.9	563.8	562.3	562.4	563.3	564.8	567.6	571.4	573.6	576.1
42°	565.5	561.8	558.9	556.8	557.0	558.3	560.0	562.4	566.2	567.8	571.1
42.5°	560.8	556.5	554.0	551.5	552.1	553.2	554.7	557.2	561.0	563.2	566.1
43°	555.6	551.2	549.0	546.5	546.7	548.0	549.3	552.0	555.8	558.4	561.4
43.5°	550.3	545.7	543.6	540.8	541.0	542.8	544.3	546.7	550.7	553.4	556.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	534.6	530.4	527.6	524.7	525.5	526.8	528.4	531.2	534.4	537.2	540.8
45.5°	529.4	524.9	522.5	519.3	519.9	521.7	523.0	525.9	529.3	531.6	535.1
46°	524.1	519.6	517.1	514.1	514.4	515.9	517.4	520.5	523.9	526.4	529.9
46.5°	518.5	514.4	511.4	508.6	509.2	510.5	512.0	514.9	518.3	521.3	524.5
47°	513.0	509.2	505.8	502.9	503.6	505.0	506.3	509.3	512.9	515.3	518.9
47.5°	507.5	504.1	500.0	497.1	498.4	499.4	501.0	503.8	507.1	510.0	513.6
48°	501.9	498.6	494.5	491.6	493.2	494.1	495.3	498.2	501.7	505.1	508.1
48.5°	496.2	492.9	489.2	486.1	487.6	488.3	489.8	492.8	496.2	499.4	502.7
49°	490.7	487.5	483.5	480.4	481.3	482.4	483.9	487.1	490.7	493.6	497.0
49.5°	485.1	481.7	477.6	474.5	475.4	476.8	478.5	481.4	484.9	488.2	491.8
50°	479.0	476.0	471.7	468.5	469.3	471.1	472.6	475.5	479.4	482.5	485.7
50.5°	473.2	470.2	465.9	462.8	463.9	465.1	466.7	469.7	473.6	476.7	480.4
51°	467.6	464.1	460.1	456.9	458.1	459.4	460.6	463.8	467.5	470.8	474.4
51.5°	461.9	458.0	454.2	450.9	452.6	453.4	455.0	458.2	461.8	465.2	468.5
52°	456.1	451.7	448.0	445.1	446.8	447.6	449.2	452.1	455.6	459.2	462.6
52.5°	449.8	445.8	442.0	438.9	440.8	441.3	443.2	446.1	450.1	453.1	456.8
53°	444.0	439.8	436.0	432.9	434.5	435.5	437.0	439.8	443.9	447.1	451.0
53.5°	438.1	433.8	429.8	426.8	428.3	429.3	430.9	433.9	437.8	440.8	445.0
54°	432.0	427.7	423.8	420.5	422.3	423.4	424.5	427.7	431.8	434.7	438.9
54.5°	426.1	421.8	418.0	414.3	416.2	417.5	419.0	421.7	425.7	429.3	432.6
55°	419.7	415.6	411.5	408.0	410.1	411.2	412.7	415.7	419.8	423.1	426.8
55.5°	413.6	409.3	405.2	401.7	403.7	404.7	406.4	409.4	413.6	417.3	420.9
56°	407.2	402.9	398.8	395.5	397.6	398.5	400.3	403.2	407.7	410.8	414.5
56.5°	401.1	396.7	392.6	389.6	391.0	392.5	394.0	397.2	401.1	404.7	407.9
57°	394.9	390.2	386.1	383.6	385.1	386.0	387.7	391.0	394.7	398.1	401.9
57.5°	388.4	384.1	380.0	377.5	378.7	379.8	381.4	384.6	388.3	392.6	395.8
58°	382.0	377.7	373.7	371.1	372.4	373.6	375.0	378.3	381.9	386.0	389.4
58.5°	375.7	371.2	367.1	364.4	366.0	367.1	368.7	371.9	375.8	379.5	383.2
59°	369.4	364.6	360.8	357.9	359.6	360.7	362.4	365.9	369.4	373.0	376.8
59.5°	363.1	358.2	354.5	351.4	353.3	354.4	356.2	359.5	363.0	366.7	370.5
60°	356.9	351.7	348.2	344.6	346.9	348.3	350.0	353.3	356.8	360.5	364.1
60.5°	350.3	345.1	341.9	338.2	340.6	341.8	343.6	346.7	350.4	354.1	358.0
61°	343.6	338.6	335.5	331.6	334.1	335.6	337.2	340.2	344.0	347.9	351.7
61.5°	337.3	332.4	329.0	325.6	327.5	329.1	330.7	333.9	337.9	341.5	345.3
62°	330.6	326.1	322.3	319.1	321.3	322.6	324.4	327.7	331.5	334.6	338.6
62.5°	324.1	319.7	315.8	312.6	314.4	316.2	317.8	320.9	324.8	328.3	332.5
63°	317.7	313.0	309.4	305.9	308.0	309.5	311.1	314.5	318.2	322.3	325.9
63.5°	311.0	306.4	302.5	299.2	301.5	302.8	304.6	308.1	311.7	315.4	319.6
64°	304.6	299.9	295.9	292.6	295.0	296.3	298.0	301.4	305.0	309.0	312.7
64.5°	297.9	293.3	289.5	286.3	288.2	289.8	291.3	294.8	298.7	302.1	306.3
65°	291.5	286.9	282.8	279.7	281.9	283.2	284.8	288.3	291.9	295.8	299.4
65.5°	284.9	279.9	276.0	272.9	275.3	276.5	278.3	281.7	285.5	289.3	292.8
66°	278.2	273.1	269.4	266.2	268.6	269.8	271.6	275.1	278.8	282.6	286.2



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	258.2	253.6	249.3	245.9	248.9	250.1	251.9	255.3	258.8	262.6	266.3
68°	251.3	246.7	242.6	239.5	242.1	243.5	245.2	248.4	252.2	255.8	259.7
68.5°	244.6	240.2	235.9	232.7	235.4	236.9	238.6	241.9	245.8	249.5	253.0
69°	238.2	233.4	229.4	226.2	228.7	230.1	231.9	235.3	239.0	242.6	246.2
69.5°	231.7	227.0	222.6	219.5	222.5	223.4	225.5	228.4	232.3	235.9	239.6
70°	225.2	220.5	216.3	212.9	215.7	217.1	218.9	222.1	225.8	229.2	233.0
70.5°	218.8	213.8	209.6	206.1	209.2	210.3	212.2	215.7	219.3	222.9	226.3
71°	212.3	207.1	203.0	199.6	202.7	203.9	205.9	209.3	213.1	216.2	219.6
71.5°	205.7	200.4	196.1	193.0	196.2	197.1	199.0	202.5	206.1	209.4	212.9
72°	199.1	194.1	189.9	186.7	189.4	190.6	192.5	196.0	199.3	203.0	206.5
72.5°	192.4	187.7	183.2	180.2	182.8	184.1	186.1	189.4	192.7	196.4	199.9
73°	185.9	180.9	176.7	173.8	176.3	177.5	179.4	182.9	186.3	190.2	193.3
73.5°	179.4	174.5	170.3	167.4	169.9	171.0	172.9	176.3	179.7	183.3	186.8
74°	172.8	168.1	163.8	160.8	163.4	164.7	166.3	169.9	173.3	176.8	180.2
74.5°	166.3	161.5	157.3	154.4	157.3	158.2	160.0	163.4	166.8	170.2	173.4
75°	159.9	155.3	151.1	148.1	150.8	151.6	153.8	157.1	160.4	163.7	167.1
75.5°	153.6	148.9	144.8	141.8	144.4	145.6	147.3	150.6	154.1	157.4	160.6
76°	147.2	142.5	138.4	135.5	138.1	139.3	141.2	144.4	147.7	150.9	154.4
76.5°	141.0	136.2	132.0	129.3	131.8	132.9	134.9	137.9	141.3	144.5	148.0
77°	134.6	130.2	126.0	123.2	125.6	126.9	128.6	131.7	135.2	138.4	141.9
77.5°	128.5	124.0	119.9	117.1	119.6	120.8	122.7	125.6	129.0	131.9	135.4
78°	122.5	117.9	113.9	111.1	113.7	114.7	116.5	119.4	122.8	125.9	129.3
78.5°	116.3	111.9	107.8	105.0	107.8	108.6	110.4	113.7	116.6	119.9	123.0
79°	110.4	106.1	102.0	99.1	101.6	102.8	104.3	107.6	110.6	113.8	117.0
79.5°	104.4	100.1	96.3	93.4	95.8	96.9	98.3	101.6	104.7	107.6	110.7
80°	98.6	94.1	90.4	87.7	89.8	91.0	92.6	95.7	98.7	101.7	104.7
80.5°	92.8	88.5	84.7	82.0	84.3	85.1	87.1	89.8	92.8	95.8	99.0
81°	87.2	82.8	79.0	76.3	78.6	79.6	81.2	84.3	87.2	90.0	93.1
81.5°	81.3	77.2	73.4	70.8	73.1	74.3	75.8	78.4	81.5	84.4	87.3
82°	75.7	71.5	67.9	65.2	67.3	68.4	69.9	72.7	75.6	78.6	81.6
82.5°	70.0	66.0	62.4	59.8	62.0	62.7	64.6	67.1	70.0	73.0	75.9
83°	64.3	60.6	57.0	54.5	56.8	57.5	59.1	61.6	64.6	67.6	70.6
83.5°	58.8	55.1	51.5	49.1	51.6	51.9	54.1	56.5	59.2	62.3	65.1
84°	53.7	50.0	46.3	44.0	46.2	47.1	48.6	51.2	53.9	56.8	59.6
84.5°	48.4	44.8	41.2	39.0	41.2	42.1	43.5	46.0	48.7	51.7	54.5
85°	43.2	39.7	36.2	33.9	36.3	36.9	38.4	40.9	43.6	46.4	49.1
85.5°	38.1	34.6	31.4	29.2	31.3	32.1	33.5	35.8	38.5	41.4	44.0
86°	33.1	29.7	26.7	24.4	26.5	27.1	28.6	30.9	33.5	36.4	39.0
86.5°	28.3	25.0	22.2	20.0	21.9	22.5	23.9	26.2	28.8	31.5	34.2
87°	23.7	20.7	17.8	15.6	17.4	18.1	19.6	21.6	23.9	26.6	29.2
87.5°	19.2	16.3	13.7	11.5	13.2	13.8	15.2	17.2	19.6	22.1	24.5
88°	15.0	12.3	9.8	8.1	9.2	9.9	11.0	12.9	15.3	17.9	20.1
88.5°	10.8	8.5	6.2	4.6	6.1	6.6	7.6	9.2	11.2	13.6	15.8



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.8	0.5	0.3	0.3	0.0	0.1	0.1	0.3	1.5	3.2	4.9
90.5°	0.4	0.3	0.3	0.3	0.0	0.0	0.1	0.1	0.1	0.7	2.1
91°	0.3	0.3	0.3	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1
91.5°	0.3	0.3	0.3	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1
92°	0.3	0.3	0.3	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.0
93°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1
93.5°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1
94°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1
94.5°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1
95.5°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1
96°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.2	0.1	0.1	0.1
96.5°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.2	0.1	0.1	0.1
97°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.2	0.1	0.1	0.1
97.5°	0.3	0.3	0.3	0.2	0.0	0.3	0.1	0.2	0.1	0.2	0.1
98°	0.3	0.3	0.3	0.2	0.0	0.3	0.2	0.2	0.2	0.1	0.1
98.5°	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.1
99°	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.1
99.5°	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2
100°	0.3	0.0	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2
100.5°	0.3	0.0	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2
101°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
101.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
102°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
102.5°	0.3	0.0	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
103°	0.3	0.0	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3
103.5°	0.3	0.0	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.3	0.3
104°	0.3	0.0	0.3	0.3	0.5	0.5	0.5	0.3	0.4	0.3	0.4
104.5°	0.3	0.1	0.3	0.5	0.5	0.4	0.5	0.5	0.3	0.4	0.4
105°	0.3	0.3	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.4
105.5°	0.3	0.3	0.4	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4
106°	0.3	0.3	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.5
106.5°	0.3	0.4	0.6	0.6	0.5	0.5	0.6	0.5	0.4	0.5	0.5
107°	0.5	0.4	0.6	0.6	0.5	0.6	0.7	0.5	0.5	0.5	0.5
107.5°	0.5	0.4	0.6	0.7	0.5	0.6	0.7	0.5	0.5	0.5	0.5
108°	0.4	0.5	0.6	0.7	0.6	0.6	0.7	0.7	0.5	0.5	0.5
108.5°	0.7	0.7	0.6	0.7	0.6	0.6	0.7	0.7	0.5	0.5	0.6
109°	0.6	0.7	0.6	0.7	0.6	0.6	0.7	0.7	0.5	0.5	0.6
109.5°	0.7	0.7	0.6	0.7	0.7	0.7	0.8	0.7	0.6	0.6	0.7
110°	0.7	0.7	0.6	0.7	0.7	0.7	0.8	0.7	0.5	0.6	0.6
110.5°	0.8	0.7	0.6	0.7	0.7	0.7	0.8	0.7	0.6	0.6	0.6
111°	0.8	0.7	0.6	0.7	0.7	0.7	0.9	0.7	0.7	0.7	0.7



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.7	0.7	0.6	0.7	0.9	0.7	1.0	0.8	0.7	0.8	0.8
113°	0.7	0.7	0.6	0.7	0.8	0.8	1.0	0.8	0.7	0.8	0.8
113.5°	0.7	0.7	0.6	0.7	0.9	0.8	1.0	0.8	0.7	0.9	0.8
114°	0.7	0.7	0.6	0.7	0.9	0.8	1.1	0.9	0.8	0.9	0.8
114.5°	0.7	0.7	0.7	0.7	0.9	0.8	1.1	0.9	0.8	0.9	0.8
115°	0.7	0.7	0.6	0.7	1.0	0.8	1.1	1.0	0.9	0.9	1.0
115.5°	0.7	0.7	0.7	0.7	1.0	1.0	1.2	1.0	0.9	0.9	1.0
116°	0.7	0.7	0.7	0.8	1.1	1.0	1.1	1.0	0.9	0.9	0.9
116.5°	0.7	0.7	0.7	0.8	1.1	1.0	1.1	1.1	0.9	0.9	0.9
117°	0.7	0.7	0.8	0.8	1.1	1.1	1.2	1.1	1.0	1.0	1.0
117.5°	0.7	0.7	0.8	0.8	1.1	1.1	1.2	1.1	1.0	1.0	1.0
118°	0.7	0.7	0.8	0.8	1.1	1.1	1.2	1.1	0.9	1.1	1.1
118.5°	0.7	0.7	0.8	0.8	1.2	1.2	1.3	1.1	0.9	1.1	1.0
119°	0.7	0.7	0.8	0.9	1.2	1.1	1.3	1.2	1.0	1.1	1.0
119.5°	0.7	0.9	0.9	0.9	1.1	1.1	1.4	1.2	1.1	1.1	1.1
120°	0.7	0.9	0.9	0.9	1.1	1.2	1.4	1.2	1.1	1.1	1.1
120.5°	0.7	0.9	0.9	0.9	1.3	1.1	1.4	1.3	1.1	1.1	1.1
121°	0.7	0.9	0.9	0.9	1.3	1.1	1.4	1.3	1.1	1.1	1.1
121.5°	0.7	0.9	0.9	1.1	1.3	1.2	1.4	1.3	1.1	1.2	1.2
122°	0.7	1.1	1.1	1.1	1.3	1.3	1.5	1.3	1.1	1.1	1.3
122.5°	0.9	1.1	1.1	1.1	1.3	1.2	1.5	1.3	1.2	1.3	1.2
123°	0.8	1.3	1.0	1.1	1.3	1.3	1.5	1.3	1.2	1.3	1.2
123.5°	0.9	1.3	1.1	1.2	1.3	1.3	1.5	1.3	1.2	1.2	1.3
124°	0.8	1.3	1.1	1.2	1.4	1.3	1.6	1.3	1.2	1.3	1.3
124.5°	0.8	1.3	1.1	1.3	1.3	1.3	1.6	1.4	1.3	1.3	1.3
125°	0.9	1.3	1.1	1.3	1.3	1.3	1.6	1.4	1.3	1.3	1.3
125.5°	0.9	1.4	1.3	1.3	1.4	1.3	1.6	1.5	1.3	1.3	1.3
126°	0.9	1.5	1.3	1.4	1.4	1.3	1.6	1.5	1.3	1.3	1.3
126.5°	1.0	1.5	1.6	1.4	1.4	1.3	1.6	1.5	1.4	1.3	1.3
127°	1.0	1.5	1.7	1.5	1.4	1.3	1.6	1.5	1.4	1.3	1.3
127.5°	1.0	1.5	1.7	1.3	1.4	1.3	1.7	1.5	1.4	1.3	1.3
128°	1.1	1.5	1.6	1.6	1.4	1.4	1.7	1.5	1.4	1.4	1.3
128.5°	1.4	1.5	1.6	1.6	1.5	1.4	1.6	1.6	1.4	1.4	1.3
129°	1.5	1.6	1.6	1.6	1.5	1.4	1.8	1.6	1.4	1.4	1.3
129.5°	1.5	1.5	1.6	1.6	1.5	1.5	1.8	1.6	1.4	1.4	1.3
130°	1.5	1.8	1.6	1.6	1.5	1.4	1.7	1.6	1.4	1.5	1.3
130.5°	1.5	1.8	1.6	1.6	1.5	1.4	1.7	1.6	1.5	1.5	1.4
131°	1.6	1.8	1.6	1.6	1.6	1.4	1.7	1.6	1.5	1.5	1.4
131.5°	1.5	1.8	1.6	1.7	1.6	1.4	1.8	1.7	1.5	1.5	1.4
132°	1.6	1.8	1.7	1.7	1.7	1.5	1.8	1.7	1.5	1.6	1.4
132.5°	1.7	1.8	1.7	1.6	1.6	1.5	1.8	1.8	1.6	1.6	1.4
133°	1.7	1.8	1.7	1.6	1.7	1.5	1.8	1.7	1.6	1.6	1.4
133.5°	1.7	1.8	1.7	1.6	1.7	1.5	1.8	1.7	1.6	1.6	1.4



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.7	1.8	1.9	1.6	1.7	1.6	1.9	1.8	1.7	1.7	1.4
135.5°	1.7	1.8	1.9	1.6	1.7	1.5	1.9	1.8	1.7	1.7	1.4
136°	1.7	1.8	1.9	1.6	1.8	1.5	2.0	1.8	1.7	1.7	1.4
136.5°	1.7	1.8	1.8	1.6	1.8	1.6	2.0	1.8	1.8	1.8	1.5
137°	1.7	1.8	2.0	1.6	1.8	1.6	2.0	1.8	1.8	1.7	1.5
137.5°	1.7	1.8	2.0	1.6	1.8	1.6	2.0	1.9	1.8	1.8	1.5
138°	1.7	1.8	2.0	1.6	1.8	1.6	2.0	1.8	1.8	1.8	1.6
138.5°	1.7	1.8	2.0	1.7	1.8	1.6	2.0	1.8	1.8	1.8	1.6
139°	1.8	1.9	2.0	1.8	1.8	1.6	2.0	1.9	1.8	1.8	1.6
139.5°	1.8	1.9	2.1	1.8	1.8	1.7	2.0	1.9	1.8	1.8	1.6
140°	1.8	1.8	2.1	1.9	1.8	1.7	2.2	1.9	1.8	1.8	1.6
140.5°	1.8	1.9	2.0	1.9	1.8	1.7	2.1	1.9	1.8	1.8	1.6
141°	1.8	1.9	2.0	2.0	1.8	1.7	2.1	1.9	1.8	1.8	1.6
141.5°	1.9	2.0	2.0	1.9	1.8	1.8	2.1	2.0	1.8	1.9	1.6
142°	1.9	2.0	2.0	1.9	1.8	1.7	2.1	2.0	1.9	1.9	1.7
142.5°	1.9	2.1	2.1	2.0	1.8	1.8	2.1	2.0	1.9	2.0	1.6
143°	2.0	2.1	2.1	2.1	1.8	1.7	2.1	2.0	1.9	2.0	1.7
143.5°	2.0	2.1	2.2	2.1	1.8	1.7	2.1	2.1	2.0	2.0	1.8
144°	2.0	2.2	2.2	2.2	1.9	1.8	2.1	2.2	2.0	2.0	1.8
144.5°	2.0	2.2	2.2	2.3	1.9	1.8	2.1	2.2	2.0	2.0	1.8
145°	2.1	2.4	2.2	2.6	1.9	1.8	2.2	2.2	2.0	2.0	1.7
145.5°	2.0	2.6	2.2	2.6	1.9	1.8	2.2	2.2	2.0	2.0	1.7
146°	2.2	2.7	2.2	2.6	1.9	1.8	2.2	2.2	2.2	2.0	1.8
146.5°	2.4	2.7	2.4	2.6	2.0	1.8	2.2	2.3	2.1	2.0	1.8
147°	2.5	2.8	2.4	2.6	2.2	1.9	2.2	2.2	2.2	2.0	1.9
147.5°	2.5	2.8	2.4	2.6	2.2	2.0	2.2	2.2	2.2	2.0	1.9
148°	2.6	2.8	2.6	2.6	2.4	2.0	2.2	2.3	2.2	2.0	1.9
148.5°	2.6	2.8	2.6	2.6	2.4	2.0	2.2	2.4	2.3	2.0	1.9
149°	2.6	2.8	2.7	2.6	2.5	2.0	2.2	2.4	2.3	2.0	2.0
149.5°	2.6	2.8	2.7	2.6	2.5	2.2	2.3	2.4	2.4	2.0	2.0
150°	2.6	2.8	2.8	2.7	2.6	2.2	2.3	2.4	2.4	2.0	2.0
150.5°	2.7	2.8	2.9	2.7	2.6	2.2	2.2	2.5	2.4	2.0	2.1
151°	2.6	2.8	2.9	2.7	2.6	2.2	2.2	2.5	2.4	2.0	2.2
151.5°	2.6	2.8	2.8	2.7	2.7	2.4	2.3	2.6	2.4	2.1	2.2
152°	2.6	2.8	2.8	2.8	2.7	2.4	2.4	2.5	2.4	2.1	2.2
152.5°	2.6	2.8	2.8	2.8	2.8	2.5	2.4	2.6	2.5	2.2	2.3
153°	2.6	2.8	2.8	2.8	2.8	2.6	2.4	2.6	2.4	2.2	2.3
153.5°	2.7	2.8	2.8	2.8	2.8	2.7	2.4	2.6	2.6	2.3	2.4
154°	2.6	2.8	2.8	2.9	2.9	2.7	2.6	2.6	2.6	2.3	2.4
154.5°	2.6	2.8	2.8	2.9	2.9	2.9	2.6	2.6	2.6	2.3	2.4
155°	2.8	2.8	2.8	3.0	2.9	3.0	2.6	2.6	2.6	2.4	2.4
155.5°	2.8	2.8	2.9	2.9	3.0	3.1	2.7	2.6	2.6	2.4	2.5
156°	2.8	2.8	2.8	3.0	3.4	3.1	2.7	2.6	2.6	2.4	2.5



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	2.8	2.8	3.0	3.2	3.5	3.4	3.0	2.8	2.8	2.6	2.8
158°	2.8	2.8	3.1	3.4	3.6	3.5	3.2	2.8	2.8	2.8	2.8
158.5°	2.8	2.9	3.2	3.4	3.6	3.6	3.3	2.9	2.8	2.8	2.9
159°	2.8	2.9	3.2	3.6	3.7	3.6	3.3	2.9	2.9	2.9	2.9
159.5°	2.8	3.0	3.2	3.8	3.8	3.8	3.4	3.0	2.8	3.0	3.0
160°	2.9	3.0	3.3	3.9	3.8	3.8	3.4	3.0	3.0	3.0	3.0
160.5°	2.9	3.1	3.4	3.8	3.8	3.8	3.4	3.2	3.0	3.1	3.1
161°	2.8	3.1	3.5	3.8	3.8	3.8	3.6	3.2	3.0	3.1	3.2
161.5°	2.8	3.1	3.5	3.8	3.7	3.8	3.6	3.2	3.0	3.1	3.2
162°	2.8	3.4	3.7	3.8	3.7	3.8	3.6	3.3	3.0	3.1	3.4
162.5°	2.8	3.4	3.8	3.9	3.7	3.7	3.5	3.3	3.2	3.1	3.4
163°	2.8	3.5	3.8	3.8	3.7	3.8	3.7	3.5	3.2	3.1	3.3
163.5°	2.8	3.5	3.9	4.0	3.6	3.6	3.7	3.5	3.2	3.2	3.3
164°	2.8	3.6	3.8	3.9	3.6	3.6	3.6	3.6	3.3	3.2	3.3
164.5°	2.8	3.8	3.8	3.9	3.6	3.6	3.6	3.6	3.4	3.2	3.3
165°	2.8	3.8	3.8	4.0	3.4	3.6	3.6	3.6	3.4	3.2	3.3
165.5°	2.8	3.8	3.8	4.0	3.4	3.6	3.6	3.8	3.4	3.2	3.3
166°	2.8	3.8	3.8	4.0	3.6	3.6	3.6	3.8	3.5	3.2	3.3
166.5°	2.8	3.8	3.8	4.0	3.5	3.6	3.6	3.8	3.5	3.2	3.3
167°	2.8	3.8	3.8	4.0	3.5	3.6	3.6	3.8	3.7	3.2	3.3
167.5°	3.0	3.8	3.8	4.0	3.4	3.6	3.6	3.8	3.7	3.3	3.3
168°	2.9	3.8	3.8	4.0	3.4	3.6	3.6	3.8	3.7	3.3	3.3
168.5°	2.9	3.8	3.8	4.0	3.4	3.6	3.6	3.8	3.7	3.4	3.3
169°	2.9	3.8	3.8	4.0	3.5	3.6	3.6	3.8	3.7	3.3	3.3
169.5°	2.9	3.9	3.8	4.1	3.5	3.6	3.6	3.8	3.7	3.4	3.3
170°	2.9	3.9	3.8	4.0	3.6	3.6	3.6	3.8	3.7	3.4	3.4
170.5°	2.9	3.9	3.8	4.0	3.5	3.6	3.6	3.8	3.7	3.4	3.4
171°	2.9	3.9	3.8	3.9	3.6	3.6	3.6	3.8	3.7	3.4	3.4
171.5°	3.0	3.9	3.8	3.8	3.4	3.6	3.6	3.8	3.7	3.4	3.5
172°	2.9	3.9	3.8	3.9	3.4	3.6	3.6	3.8	3.7	3.5	3.4
172.5°	2.9	3.9	3.8	3.8	3.4	3.6	3.6	3.8	3.7	3.5	3.4
173°	3.0	4.0	3.8	3.8	3.6	3.6	3.6	3.8	3.8	3.5	3.6
173.5°	3.0	4.0	3.8	3.8	3.6	3.6	3.6	3.8	3.8	3.5	3.5
174°	3.0	3.8	3.8	3.7	3.6	3.6	3.6	3.8	3.6	3.5	3.5
174.5°	3.0	3.8	3.8	3.7	3.5	3.6	3.6	3.8	3.6	3.6	3.5
175°	3.0	3.8	3.9	3.6	3.5	3.6	3.6	3.8	3.6	3.6	3.5
175.5°	3.0	3.8	3.9	3.6	3.5	3.6	3.6	3.8	3.6	3.6	3.6
176°	3.0	3.8	3.8	3.6	3.5	3.8	3.6	3.8	3.6	3.6	3.6
176.5°	3.0	3.8	3.7	3.6	3.5	3.8	3.7	3.8	3.6	3.6	3.6
177°	3.0	3.8	3.7	3.6	3.5	3.8	3.7	4.0	3.6	3.6	3.6
177.5°	3.0	3.7	3.7	3.6	3.6	3.8	3.8	4.0	3.6	3.8	3.7
178°	3.2	3.7	3.7	3.6	3.7	3.8	3.8	3.9	3.6	3.7	3.8
178.5°	3.4	3.7	3.7	3.6	3.9	3.8	3.8	3.9	3.6	3.7	3.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	791.6	791.6	791.6	791.6	791.6	791.6
0.5°	791.2	792.0	791.8	790.8	791.3	792.2
1°	791.1	791.7	791.5	791.7	791.8	792.3
1.5°	791.1	791.5	791.5	791.5	792.2	792.5
2°	791.1	791.3	791.3	791.5	791.6	793.0
2.5°	791.5	791.4	792.3	791.5	791.3	792.8
3°	790.6	790.7	792.7	790.9	791.5	791.8
3.5°	790.3	790.7	792.0	790.8	791.7	790.9
4°	790.4	790.4	790.8	791.1	790.5	790.6
4.5°	790.1	790.0	790.9	789.9	789.7	789.9
5°	789.0	789.2	790.5	789.2	789.1	789.5
5.5°	788.7	788.7	789.2	788.1	788.6	789.3
6°	787.3	787.9	788.7	787.5	787.4	787.1
6.5°	787.8	787.7	788.4	787.1	786.7	786.9
7°	786.5	786.2	787.6	786.5	785.7	786.0
7.5°	786.3	785.3	786.3	785.3	784.2	784.8
8°	784.7	784.7	784.6	783.6	783.7	782.6
8.5°	782.9	783.9	783.5	782.7	782.5	781.9
9°	782.1	782.3	782.0	782.0	781.1	781.3
9.5°	781.4	781.1	780.9	779.9	779.6	779.7
10°	779.3	779.4	779.8	778.9	778.2	779.6
10.5°	777.9	778.5	778.6	778.0	777.4	778.8
11°	776.8	776.6	776.9	775.6	776.5	777.0
11.5°	775.5	775.2	775.5	774.3	775.0	775.1
12°	774.1	773.4	775.0	774.0	773.0	773.7
12.5°	772.2	771.5	774.1	772.1	771.2	771.8
13°	770.1	770.0	771.5	770.6	769.2	769.5
13.5°	768.8	767.9	768.5	768.9	767.9	767.7
14°	767.2	766.2	766.8	766.9	766.2	766.0
14.5°	765.1	764.6	765.2	764.5	763.8	763.8
15°	763.1	762.7	763.6	762.1	761.3	761.5
15.5°	761.5	760.3	761.6	760.1	758.7	759.9
16°	759.7	758.2	759.7	757.6	757.6	757.9
16.5°	757.8	756.4	757.5	755.1	755.7	755.2
17°	755.6	754.8	755.1	753.1	752.7	753.4
17.5°	752.8	752.7	753.1	751.5	750.3	751.1
18°	751.1	750.4	751.0	748.9	748.2	748.8
18.5°	748.6	748.5	748.8	746.5	746.1	745.1
19°	746.0	746.8	746.4	744.2	743.4	741.9
19.5°	743.5	744.1	744.3	742.0	741.1	740.4
20°	740.8	740.8	742.1	739.7	738.6	738.6
20.5°	738.1	737.4	738.8	736.9	735.7	735.7
21°	735.0	735.5	736.3	733.9	732.9	733.8



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	727.7	726.5	728.1	725.1	724.7	725.8
23°	724.7	723.6	725.2	722.2	722.5	722.0
23.5°	721.5	720.6	721.0	718.9	719.5	717.9
24°	718.9	717.3	717.7	715.7	715.8	714.8
24.5°	715.5	714.5	715.0	712.7	712.6	711.8
25°	712.4	711.2	711.8	709.8	709.1	708.4
25.5°	709.1	708.1	708.7	706.1	706.0	705.1
26°	706.1	705.0	705.4	703.2	702.7	701.9
26.5°	702.1	701.6	702.7	700.1	699.6	699.2
27°	699.3	698.2	699.7	696.6	696.4	695.6
27.5°	695.7	694.9	696.3	693.1	692.5	691.6
28°	692.4	691.6	691.6	689.4	688.6	687.6
28.5°	688.9	688.0	688.2	687.0	685.2	684.2
29°	685.0	684.5	684.0	683.1	681.6	680.9
29.5°	681.3	680.8	679.9	679.3	677.7	677.1
30°	677.4	677.1	676.4	675.5	674.0	673.4
30.5°	673.8	673.2	673.0	671.8	670.4	669.7
31°	670.0	669.1	669.0	668.3	666.4	665.7
31.5°	666.6	665.3	665.7	664.0	662.4	661.9
32°	661.6	661.2	661.9	660.0	658.9	657.6
32.5°	657.7	657.3	657.9	655.5	654.8	653.6
33°	654.2	653.1	653.5	651.8	650.9	649.5
33.5°	650.4	649.0	649.3	648.0	646.3	645.3
34°	645.7	645.1	645.1	643.9	642.3	641.0
34.5°	642.1	640.7	641.3	639.6	638.0	636.5
35°	637.8	636.4	637.1	635.1	633.9	632.2
35.5°	633.6	632.1	632.3	630.5	629.4	628.3
36°	629.0	627.9	628.1	625.7	624.9	623.7
36.5°	625.1	623.4	623.6	621.4	620.1	619.2
37°	620.8	618.8	619.3	617.1	615.6	614.4
37.5°	616.1	614.4	614.9	612.8	611.3	609.1
38°	611.3	609.6	610.0	607.8	606.6	604.4
38.5°	606.8	605.1	605.3	603.4	602.1	600.0
39°	601.9	600.2	600.3	598.5	597.6	595.3
39.5°	597.4	595.4	595.6	593.8	592.4	590.5
40°	592.6	590.6	591.1	589.1	587.3	585.7
40.5°	587.9	586.0	586.1	584.4	582.3	580.6
41°	583.1	581.2	580.9	579.6	577.7	575.5
41.5°	578.2	576.4	576.1	574.4	572.8	570.5
42°	573.0	571.7	571.2	569.4	567.7	565.5
42.5°	568.0	566.5	566.4	564.5	562.9	560.8
43°	562.7	561.6	561.6	559.7	558.0	555.6
43.5°	557.6	556.4	556.6	554.4	552.9	550.3



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	542.2	540.6	540.6	538.8	536.6	534.6
45.5°	537.5	535.3	535.6	533.6	531.4	529.4
46°	531.9	529.9	530.0	528.4	526.3	524.1
46.5°	526.4	524.6	524.7	523.2	520.8	518.5
47°	521.6	519.1	519.3	517.4	515.2	513.0
47.5°	515.6	513.6	513.7	511.6	509.8	507.5
48°	509.8	508.2	508.3	506.4	504.2	501.9
48.5°	504.5	502.6	502.7	500.8	498.6	496.2
49°	499.2	497.2	497.1	495.5	493.0	490.7
49.5°	493.0	491.8	491.8	490.1	487.6	485.1
50°	487.6	486.1	486.0	484.2	481.6	479.0
50.5°	481.4	480.3	480.2	478.6	476.0	473.2
51°	475.6	474.2	474.5	473.1	470.2	467.6
51.5°	470.1	468.7	468.7	467.4	464.1	461.9
52°	464.2	462.9	463.0	461.5	458.4	456.1
52.5°	458.4	456.8	456.9	455.3	452.3	449.8
53°	452.6	451.2	451.1	449.3	446.5	444.0
53.5°	446.4	445.1	445.0	443.2	440.5	438.1
54°	440.3	438.9	438.9	437.2	434.4	432.0
54.5°	434.8	432.8	433.0	431.1	428.4	426.1
55°	428.6	427.0	426.9	425.2	422.1	419.7
55.5°	422.9	421.0	420.6	418.9	415.9	413.6
56°	416.3	414.8	414.1	412.9	409.8	407.2
56.5°	410.2	408.6	407.8	406.6	403.6	401.1
57°	404.2	402.4	401.7	400.3	397.4	394.9
57.5°	398.1	396.0	395.4	394.0	391.2	388.4
58°	391.8	389.7	389.2	387.7	384.9	382.0
58.5°	385.3	383.5	382.8	381.4	378.7	375.7
59°	379.0	377.0	376.6	375.1	372.2	369.4
59.5°	372.7	370.8	370.1	368.6	365.6	363.1
60°	366.4	364.4	363.8	362.1	359.3	356.9
60.5°	360.2	357.8	357.5	355.9	352.9	350.3
61°	353.8	351.3	351.2	349.6	346.3	343.6
61.5°	347.7	344.9	344.7	343.2	340.3	337.3
62°	341.3	338.5	338.4	336.3	333.8	330.6
62.5°	334.6	332.1	331.8	329.8	327.2	324.1
63°	328.4	325.6	325.2	323.2	320.7	317.7
63.5°	321.9	319.1	318.6	317.1	314.2	311.0
64°	315.3	312.5	312.0	310.6	307.9	304.6
64.5°	308.5	306.0	305.6	303.8	301.2	297.9
65°	302.1	299.5	299.2	297.3	294.6	291.5
65.5°	295.4	292.8	292.5	291.0	288.0	284.9
66°	289.0	286.3	286.0	284.3	281.5	278.2



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CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	269.2	266.4	266.0	264.6	261.7	258.2
68°	261.9	259.6	259.4	258.2	255.1	251.3
68.5°	255.7	253.0	252.7	251.4	248.4	244.6
69°	248.8	246.3	246.3	244.9	242.1	238.2
69.5°	242.0	239.6	239.6	237.8	235.1	231.7
70°	235.3	233.0	232.7	231.1	228.6	225.2
70.5°	228.9	226.2	226.3	224.6	222.1	218.8
71°	222.5	219.8	219.6	218.2	215.4	212.3
71.5°	215.8	213.1	213.1	211.6	208.9	205.7
72°	209.2	206.4	206.3	205.0	202.3	199.1
72.5°	202.7	200.0	199.8	198.5	195.4	192.4
73°	196.2	193.3	193.2	191.9	189.2	185.9
73.5°	189.6	186.9	186.9	185.6	182.8	179.4
74°	183.0	180.4	180.4	178.8	176.3	172.8
74.5°	176.5	173.9	173.9	172.5	169.8	166.3
75°	169.9	167.3	167.3	166.2	163.4	159.9
75.5°	163.3	160.9	161.0	159.7	157.1	153.6
76°	157.1	154.5	154.6	153.3	150.8	147.2
76.5°	150.8	148.3	148.2	147.4	144.4	141.0
77°	144.6	141.8	142.0	141.0	138.2	134.6
77.5°	138.3	135.7	135.7	134.7	131.8	128.5
78°	131.9	129.5	129.6	128.2	125.7	122.5
78.5°	125.5	123.4	123.4	122.4	119.6	116.3
79°	119.7	117.3	117.2	116.2	113.7	110.4
79.5°	113.3	111.2	111.2	110.1	107.6	104.4
80°	107.4	105.2	105.3	103.9	101.8	98.6
80.5°	101.6	99.2	99.4	98.2	95.9	92.8
81°	95.7	93.2	93.5	92.6	90.3	87.2
81.5°	89.9	87.7	87.9	86.9	84.5	81.3
82°	84.1	82.0	82.2	81.3	78.8	75.7
82.5°	78.4	76.4	76.5	75.5	73.1	70.0
83°	72.8	70.8	70.7	69.8	67.5	64.3
83.5°	67.0	65.1	65.2	64.2	61.9	58.8
84°	61.7	59.7	59.8	58.8	56.7	53.7
84.5°	56.5	54.4	54.5	53.4	51.4	48.4
85°	51.2	48.9	49.2	48.1	46.1	43.2
85.5°	46.0	43.8	44.0	42.8	40.9	38.1
86°	41.0	38.6	38.8	38.0	35.8	33.1
86.5°	36.0	33.7	33.7	32.8	30.8	28.3
87°	31.1	28.9	28.8	28.0	26.0	23.7
87.5°	26.3	24.2	24.2	23.3	21.6	19.2
88°	21.8	19.8	19.8	19.0	17.0	15.0
88.5°	17.3	15.4	15.5	14.6	12.9	10.8



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	6.0	4.4	4.3	3.8	2.0	0.8
90.5°	3.0	1.4	1.4	1.2	0.5	0.4
91°	0.6	0.3	0.4	0.4	0.3	0.3
91.5°	0.0	0.3	0.3	0.3	0.3	0.3
92°	0.0	0.3	0.3	0.3	0.2	0.3
92.5°	0.1	0.3	0.3	0.3	0.2	0.3
93°	0.1	0.3	0.3	0.3	0.2	0.3
93.5°	0.1	0.3	0.3	0.3	0.2	0.3
94°	0.1	0.3	0.3	0.3	0.2	0.3
94.5°	0.1	0.3	0.3	0.3	0.2	0.3
95°	0.1	0.3	0.3	0.3	0.2	0.3
95.5°	0.1	0.3	0.3	0.3	0.2	0.3
96°	0.1	0.3	0.3	0.3	0.2	0.3
96.5°	0.2	0.3	0.3	0.3	0.2	0.3
97°	0.2	0.3	0.3	0.3	0.2	0.3
97.5°	0.2	0.3	0.3	0.3	0.2	0.3
98°	0.2	0.3	0.3	0.3	0.2	0.3
98.5°	0.1	0.3	0.3	0.3	0.2	0.3
99°	0.3	0.3	0.3	0.3	0.2	0.3
99.5°	0.3	0.3	0.3	0.3	0.2	0.3
100°	0.2	0.3	0.3	0.3	0.2	0.3
100.5°	0.2	0.3	0.3	0.3	0.2	0.3
101°	0.3	0.3	0.3	0.3	0.2	0.3
101.5°	0.3	0.3	0.4	0.3	0.2	0.3
102°	0.3	0.3	0.4	0.3	0.2	0.3
102.5°	0.3	0.3	0.3	0.3	0.2	0.3
103°	0.4	0.3	0.5	0.3	0.2	0.3
103.5°	0.4	0.3	0.5	0.3	0.2	0.3
104°	0.4	0.3	0.5	0.3	0.2	0.3
104.5°	0.4	0.3	0.5	0.3	0.2	0.3
105°	0.5	0.3	0.5	0.3	0.2	0.3
105.5°	0.5	0.3	0.5	0.5	0.2	0.3
106°	0.5	0.3	0.5	0.5	0.4	0.3
106.5°	0.5	0.4	0.5	0.6	0.3	0.3
107°	0.5	0.4	0.5	0.7	0.5	0.5
107.5°	0.6	0.5	0.6	0.7	0.7	0.5
108°	0.6	0.5	0.6	0.7	0.7	0.4
108.5°	0.6	0.5	0.6	0.8	0.7	0.7
109°	0.6	0.5	0.7	0.8	0.7	0.6
109.5°	0.7	0.7	0.7	0.7	0.7	0.7
110°	0.7	0.7	0.7	0.7	0.7	0.7
110.5°	0.7	0.7	0.7	0.7	0.7	0.8
111°	0.7	0.7	0.7	0.7	0.7	0.8



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.8	0.7	0.7	0.7	0.7	0.7
113°	0.9	0.7	0.7	0.7	0.7	0.7
113.5°	0.9	0.7	0.7	0.7	0.7	0.7
114°	0.9	0.7	0.7	0.7	0.7	0.7
114.5°	0.9	0.7	0.7	0.7	0.7	0.7
115°	1.0	0.7	0.7	0.7	0.7	0.7
115.5°	0.9	0.7	0.8	0.7	0.7	0.7
116°	0.9	0.7	0.8	0.7	0.7	0.7
116.5°	1.1	0.7	0.8	0.7	0.7	0.7
117°	1.0	0.7	0.9	0.7	0.7	0.7
117.5°	1.1	0.8	0.8	0.7	0.7	0.7
118°	1.1	0.8	0.8	0.7	0.7	0.7
118.5°	1.1	0.8	0.9	0.9	0.7	0.7
119°	1.1	0.8	0.9	0.9	0.8	0.7
119.5°	1.1	0.9	0.9	0.9	0.8	0.7
120°	1.2	0.9	0.9	0.9	0.8	0.7
120.5°	1.2	0.9	0.9	0.9	0.8	0.7
121°	1.2	0.9	0.9	0.9	0.8	0.7
121.5°	1.2	0.9	0.9	0.9	0.9	0.7
122°	1.2	0.9	1.0	1.0	0.9	0.7
122.5°	1.3	0.9	1.0	1.0	0.9	0.9
123°	1.3	0.9	0.9	1.1	1.0	0.8
123.5°	1.4	1.0	0.9	1.0	0.9	0.9
124°	1.4	1.1	0.9	1.0	1.0	0.8
124.5°	1.4	1.1	0.9	1.1	1.0	0.8
125°	1.4	1.0	0.9	1.1	0.9	0.9
125.5°	1.4	1.0	0.9	1.2	1.1	0.9
126°	1.5	1.1	0.9	1.2	1.1	0.9
126.5°	1.5	1.1	0.9	1.2	1.1	1.0
127°	1.5	1.4	0.9	1.3	1.3	1.0
127.5°	1.4	1.4	1.0	1.3	1.3	1.0
128°	1.6	1.4	1.1	1.4	1.3	1.1
128.5°	1.5	1.5	1.1	1.6	1.3	1.4
129°	1.5	1.6	1.1	1.6	1.4	1.5
129.5°	1.6	1.7	1.0	1.6	1.5	1.5
130°	1.6	1.7	1.2	1.6	1.5	1.5
130.5°	1.6	1.7	1.2	1.6	1.5	1.5
131°	1.7	1.7	1.3	1.6	1.6	1.6
131.5°	1.7	1.7	1.3	1.6	1.6	1.5
132°	1.7	1.7	1.5	1.6	1.6	1.6
132.5°	1.7	1.7	1.5	1.6	1.6	1.7
133°	1.7	1.7	1.6	1.6	1.6	1.7
133.5°	1.8	1.7	1.5	1.6	1.6	1.7



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	1.9	1.8	1.6	1.7	1.6	1.7
135.5°	1.8	1.8	1.6	1.7	1.6	1.7
136°	1.8	1.8	1.6	1.8	1.7	1.7
136.5°	2.0	1.8	1.6	1.8	2.2	1.7
137°	2.0	1.8	1.6	1.8	2.2	1.7
137.5°	2.0	1.8	1.6	1.9	2.2	1.7
138°	2.0	1.8	1.6	1.8	2.2	1.7
138.5°	2.0	1.9	1.6	1.9	2.2	1.7
139°	2.0	2.0	1.6	1.9	2.2	1.8
139.5°	2.1	2.4	1.6	1.9	2.2	1.8
140°	2.1	2.4	1.7	1.9	2.2	1.8
140.5°	2.2	2.3	1.7	1.9	2.2	1.8
141°	2.2	2.3	1.8	2.0	2.2	1.8
141.5°	2.2	2.3	1.8	2.0	2.2	1.9
142°	2.2	2.4	1.8	2.0	2.2	1.9
142.5°	2.3	2.3	1.8	2.0	2.2	1.9
143°	2.2	2.3	1.8	2.1	2.2	2.0
143.5°	2.2	2.4	1.9	2.0	2.2	2.0
144°	2.4	2.5	1.9	2.1	2.2	2.0
144.5°	2.4	2.6	2.0	2.2	2.3	2.0
145°	2.4	2.6	2.0	2.2	2.4	2.1
145.5°	2.4	2.8	2.0	2.3	2.4	2.0
146°	2.4	2.8	2.0	2.2	2.5	2.2
146.5°	2.4	2.8	2.1	2.3	2.6	2.4
147°	2.6	2.8	2.2	2.5	2.7	2.5
147.5°	2.6	2.8	2.3	2.4	2.7	2.5
148°	2.6	2.8	2.4	2.6	2.6	2.6
148.5°	2.6	2.8	2.6	2.6	2.6	2.6
149°	2.6	2.8	2.6	2.6	2.6	2.6
149.5°	2.6	2.8	2.7	2.7	2.6	2.6
150°	2.7	2.8	2.7	2.8	2.6	2.6
150.5°	2.7	2.8	2.7	2.8	2.6	2.7
151°	2.8	2.8	2.7	2.8	2.6	2.6
151.5°	2.8	2.9	2.7	2.8	2.6	2.6
152°	2.8	2.8	2.7	2.8	2.6	2.6
152.5°	2.8	3.0	2.7	2.8	2.6	2.6
153°	2.8	3.0	2.8	2.8	2.6	2.6
153.5°	2.8	3.0	2.8	2.8	2.6	2.7
154°	2.8	3.2	2.8	2.8	2.6	2.6
154.5°	2.8	3.2	2.9	2.8	2.6	2.6
155°	2.8	3.2	2.9	2.8	2.6	2.8
155.5°	2.9	3.3	3.0	2.8	2.6	2.8
156°	3.0	3.4	3.1	2.8	2.6	2.8



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	3.2	3.8	3.5	2.8	2.6	2.8
158°	3.3	3.8	3.6	2.8	2.6	2.8
158.5°	3.2	3.8	3.8	2.8	2.6	2.8
159°	3.2	3.8	3.7	2.8	2.6	2.8
159.5°	3.4	3.8	3.8	2.8	2.6	2.8
160°	3.4	3.8	3.8	2.8	2.6	2.9
160.5°	3.4	3.8	3.8	2.8	2.6	2.9
161°	3.5	3.8	3.9	2.9	2.6	2.8
161.5°	3.5	3.8	3.9	2.9	2.6	2.8
162°	3.5	3.8	3.8	3.0	2.7	2.8
162.5°	3.5	3.8	3.8	3.0	2.7	2.8
163°	3.5	3.8	3.8	3.1	2.7	2.8
163.5°	3.6	3.8	3.8	3.1	2.8	2.8
164°	3.6	3.8	3.8	3.2	2.8	2.8
164.5°	3.6	3.8	3.8	3.3	2.9	2.8
165°	3.6	3.8	3.8	3.4	2.8	2.8
165.5°	3.6	3.8	3.8	3.6	2.9	2.8
166°	3.6	3.8	3.8	3.6	3.0	2.8
166.5°	3.6	3.8	3.8	3.8	3.0	2.8
167°	3.6	3.8	3.8	3.8	3.1	2.8
167.5°	3.6	3.8	3.8	3.8	3.1	3.0
168°	3.6	3.8	3.8	3.8	3.0	2.9
168.5°	3.6	3.8	3.8	3.8	3.0	2.9
169°	3.6	3.8	3.8	3.8	3.0	2.9
169.5°	3.6	3.8	3.8	3.8	3.0	2.9
170°	3.6	3.8	3.8	3.8	3.0	2.9
170.5°	3.6	3.8	4.0	3.8	3.0	2.9
171°	3.6	3.8	3.9	3.8	3.0	2.9
171.5°	3.6	3.8	3.9	3.8	3.0	3.0
172°	3.6	3.9	3.9	3.8	3.0	2.9
172.5°	3.6	3.9	3.9	3.8	3.0	2.9
173°	3.6	3.8	3.9	3.8	3.0	3.0
173.5°	3.6	3.8	3.9	3.8	3.0	3.0
174°	3.6	3.8	4.0	3.8	3.0	3.0
174.5°	3.6	3.8	3.9	3.8	3.0	3.0
175°	3.6	3.8	3.9	3.8	3.0	3.0
175.5°	3.6	3.7	3.9	3.8	3.0	3.0
176°	3.6	3.8	3.8	3.8	3.1	3.0
176.5°	3.7	3.7	3.8	3.8	3.1	3.0
177°	3.7	3.7	3.8	3.9	3.2	3.0
177.5°	3.7	3.8	3.8	3.9	3.3	3.0
178°	3.7	3.8	3.8	3.9	3.6	3.2
178.5°	3.7	3.8	3.8	3.9	3.6	3.4



TEST NUMBER: P579677

CATALOG NUMBER: SMD14R209SWHE-EM - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	3.6	3.6	3.6	3.6	3.6	3.6



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°







21.5°	730.9	727.7	726.1	722.9	722.8	724.5	725.2	726.3	729.3	730.8	732.6
22°	728.5	724.6	722.9	719.8	720.3	721.8	722.2	723.2	726.6	727.7	730.0



44°	545.3	540.8	538.3	535.4	535.7	537.3	539.0	541.4	545.2	547.9	550.7
44.5°	540.0	535.7	533.0	530.0	530.8	532.1	533.7	536.0	539.7	542.5	545.8



66.5°	271.6	266.7	262.5	259.3	261.7	262.7	264.8	268.2	271.9	276.0	279.5
67°	264.9	260.1	256.0	252.8	255.4	256.5	258.5	261.8	265.5	269.2	272.9



89°	7.1	5.0	3.1	1.8	3.0	3.4	4.5	5.9	7.7	9.8	11.6
89.5°	3.6	1.6	1.0	0.5	0.7	0.9	1.6	2.7	4.3	6.5	8.2



111.5°	0.7	0.7	0.6	0.7	0.7	0.7	0.9	0.8	0.6	0.7	0.7
112°	0.7	0.7	0.6	0.7	0.9	0.7	0.9	0.8	0.6	0.7	0.7



134°	1.7	1.8	1.8	1.6	1.7	1.5	1.9	1.8	1.6	1.6	1.4
134.5°	1.7	1.8	1.8	1.6	1.7	1.5	1.9	1.8	1.6	1.7	1.4



156.5°	2.8	2.8	2.8	3.2	3.4	3.3	2.8	2.6	2.6	2.6	2.6
157°	2.8	2.8	3.0	3.2	3.3	3.4	2.9	2.7	2.8	2.6	2.6



179°	3.6	3.7	3.7	3.6	3.9	3.8	3.8	3.9	3.5	3.8	3.7
179.5°	3.6	3.7	3.7	3.6	3.9	3.8	3.8	3.9	3.5	3.6	3.7





21.5°	731.8	732.8	733.2	731.1	730.2	730.9
22°	730.3	730.0	730.4	728.3	727.5	728.5



44°	552.7	551.1	551.3	549.4	547.6	545.3
44.5°	547.8	545.8	546.2	544.1	542.0	540.0



66.5°	282.4	279.6	279.4	277.8	275.1	271.6
67°	275.8	273.0	272.8	271.2	268.3	264.9



89°	13.0	11.3	11.3	10.7	9.1	7.1
89.5°	9.3	7.5	7.6	7.1	5.4	3.6



111.5°	0.7	0.7	0.7	0.7	0.7	0.7
112°	0.8	0.7	0.7	0.7	0.7	0.7



134°	1.8	1.7	1.6	1.7	1.6	1.7
134.5°	1.8	1.7	1.6	1.7	1.6	1.7



156.5°	3.0	3.6	3.2	2.8	2.6	2.8
157°	3.1	3.8	3.4	2.8	2.6	2.8



179°	3.7	3.8	3.8	3.9	3.5	3.6
179.5°	3.7	3.8	3.8	3.9	3.5	3.6



(END OF REPORT)