

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: P579678

Luminaire Tested: **SMD14R209SWHE-EM - 5000K**

Issue Date: 11/23/2021



Test Information

Test Method: LM-41-14
Report Number: P579678
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 - 5000K
Description: SMD SELECTABLE CCT 5000K
Light Source: SELECTABLE CCT LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

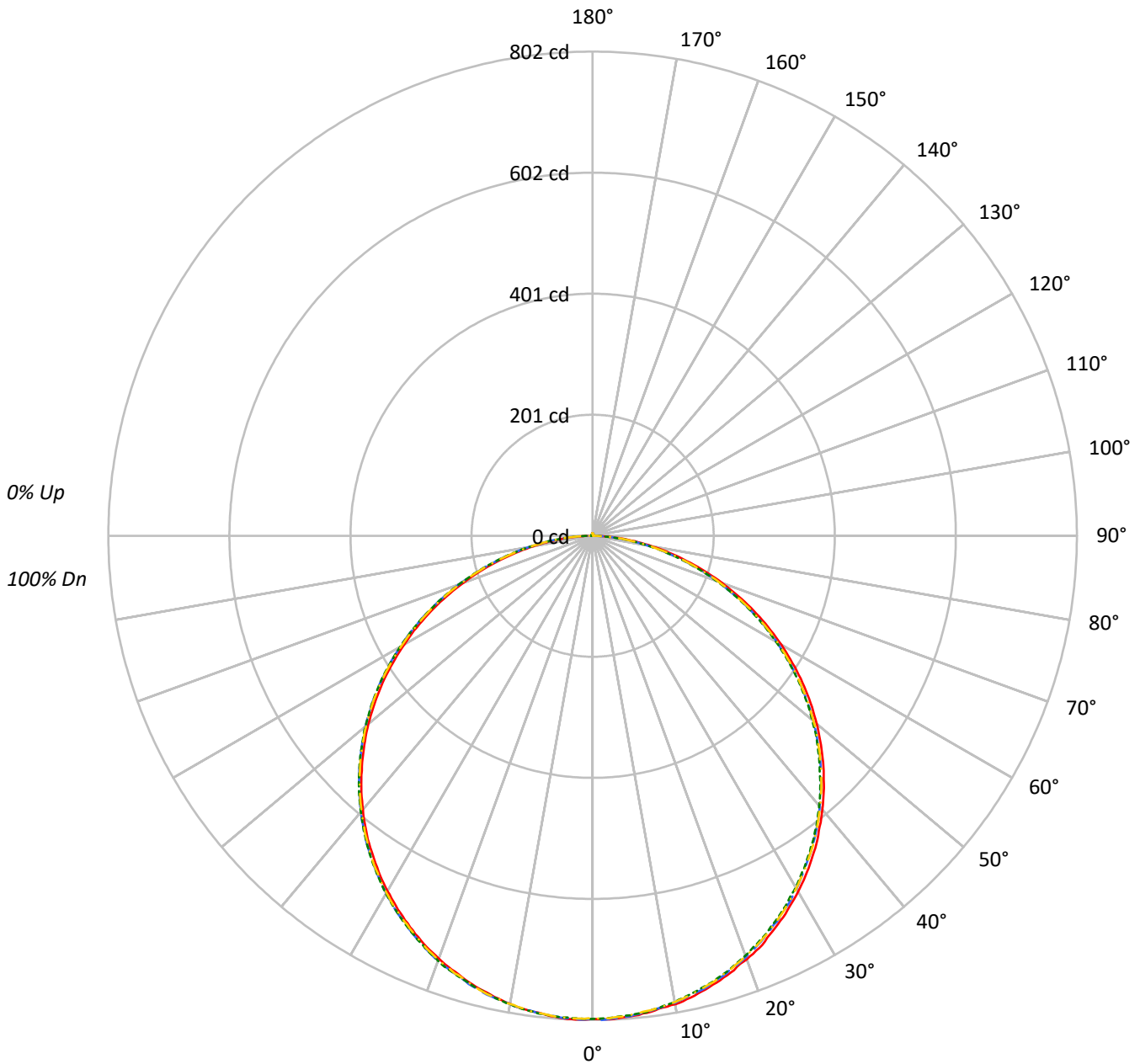
Lumens per Lamp: N/A
Luminaire Lumens: 2335.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 29.6
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

TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

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°	10967	10967	10967	10967
5°	10978	10948	10991	10976
10°	10966	10912	10955	10963
15°	10921	10860	10915	10938
20°	10887	10791	10866	10921
25°	10829	10715	10818	10871
30°	10772	10646	10760	10831
35°	10693	10542	10678	10763
40°	10593	10439	10589	10681
45°	10472	10296	10470	10590
50°	10324	10115	10332	10477
55°	10138	9906	10138	10315
60°	9890	9613	9884	10095
65°	9557	9242	9567	9816
70°	9120	8735	9144	9437
75°	8557	8070	8589	8954
80°	7869	7166	7877	8390
85°	6856	5771	6919	7784



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.2
10°-20°	217.0	9.3
20°-30°	329.5	14.1
30°-40°	398.9	17.1
40°-50°	416.1	17.8
50°-60°	378.3	16.2
60°-70°	291.0	12.5
70°-80°	170.8	7.3
80°-90°	49.6	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°	622.2	26.6
0°-40°	1021.2	43.7
0°-60°	1815.6	77.8
0°-90°	2326.9	99.7
90°-120°	1.6	0.1
90°-150°	5.4	0.2
90°-180°	8.0	0.3
0°-180°	2335.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	800	800	800	800	800	
5°	798	796	799	798	798	76
15°	770	765	769	771	770	217
25°	716	709	715	719	716	330
35°	639	630	638	643	639	400
45°	540	531	540	546	540	417
55°	424	415	424	432	424	379
65°	295	285	295	303	295	291
75°	162	152	162	169	162	171
85°	44	37	44	50	44	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	4	3	4	3	1
175°	3	4	4	4	3	0
180°	4	4	4	4	4	



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2
0.5°	800.8	799.7	801.0	800.5	800.3	799.9	799.8	800.8	801.0	800.7	800.5
1°	800.9	800.7	802.4	800.3	799.8	800.6	799.4	799.9	801.9	800.9	801.5
1.5°	801.1	800.2	801.7	798.3	799.6	800.1	799.6	799.8	801.9	800.4	801.9
2°	801.6	800.1	800.8	799.0	799.5	799.9	799.6	799.9	801.8	800.6	801.2
2.5°	801.4	800.8	800.0	798.5	798.5	799.2	798.5	799.0	801.2	799.6	801.0
3°	800.3	799.0	799.8	797.8	797.8	798.7	798.0	798.3	801.6	800.3	800.3
3.5°	799.5	799.3	798.7	798.6	797.0	797.7	797.9	798.0	800.8	798.5	800.3
4°	799.1	798.8	798.6	797.5	796.6	797.9	797.0	797.8	800.4	799.2	799.5
4.5°	798.4	797.7	798.3	795.1	796.9	797.1	796.3	796.6	799.2	798.6	798.3
5°	798.0	797.3	796.4	795.0	795.8	795.5	795.2	796.4	798.9	798.4	797.8
5.5°	797.8	796.2	795.8	794.2	794.9	796.1	794.7	795.6	797.4	797.0	797.3
6°	795.7	795.9	794.9	794.4	794.6	794.8	792.9	795.1	796.2	796.7	796.7
6.5°	795.4	794.5	793.8	792.6	794.2	793.7	792.4	794.4	795.2	794.9	796.0
7°	794.5	793.9	792.9	791.8	791.4	792.3	791.6	793.4	794.5	795.0	794.4
7.5°	793.2	793.0	791.5	790.7	790.7	791.4	790.2	791.7	793.8	793.4	793.3
8°	791.0	791.3	790.2	789.5	790.0	789.9	789.4	791.1	792.6	792.0	793.0
8.5°	790.3	790.0	788.6	788.5	787.9	789.5	788.3	790.2	791.9	790.8	791.5
9°	789.7	788.0	786.8	786.8	786.8	787.3	786.5	787.8	790.9	789.6	790.9
9.5°	788.1	786.8	785.6	785.6	785.6	785.7	785.3	786.0	789.4	788.2	789.7
10°	788.0	785.5	785.8	784.5	784.1	783.5	784.3	784.8	787.2	787.1	787.8
10.5°	787.2	784.2	783.3	781.6	781.6	782.7	782.6	783.3	786.2	786.0	786.6
11°	785.4	783.1	782.1	780.6	780.4	781.0	781.3	781.7	784.2	784.2	785.2
11.5°	783.5	781.4	780.3	779.2	778.5	779.1	779.3	779.2	782.6	782.4	784.2
12°	782.1	779.8	778.1	778.3	776.8	776.9	777.3	778.3	781.2	781.4	782.5
12.5°	780.1	777.4	776.5	776.2	774.8	775.8	775.8	776.5	778.8	779.9	781.1
13°	777.8	775.7	774.8	772.3	773.3	774.4	773.6	774.8	776.9	779.1	780.1
13.5°	776.0	774.4	774.0	770.6	770.6	771.7	772.0	773.6	775.3	777.2	777.9
14°	774.3	772.8	771.7	768.8	769.0	770.4	769.7	771.0	773.6	773.5	775.7
14.5°	772.1	770.6	769.6	767.0	767.0	768.6	767.9	768.7	771.5	772.4	774.1
15°	769.7	768.4	767.7	765.5	765.4	766.6	766.3	766.6	769.3	770.0	772.2
15.5°	768.1	766.6	764.8	763.2	762.8	764.2	764.0	764.6	767.2	768.0	770.0
16°	766.1	764.1	762.3	761.2	760.5	761.4	761.1	762.3	764.9	765.8	767.0
16.5°	763.3	761.5	760.5	758.2	758.4	759.8	758.5	759.9	762.5	763.3	764.9
17°	761.6	759.7	758.2	755.7	756.2	757.4	756.5	757.7	759.7	761.0	762.9
17.5°	759.2	757.1	754.5	754.0	753.8	754.4	754.6	755.7	757.0	759.0	760.5
18°	756.9	754.2	752.7	751.2	750.7	751.7	751.8	753.0	755.4	756.9	758.5
18.5°	753.1	751.2	750.6	748.4	747.9	749.3	748.7	749.5	753.0	754.2	755.9
19°	749.9	749.1	747.9	745.8	745.4	746.4	746.5	747.0	750.9	751.8	754.3
19.5°	748.4	746.3	745.1	742.3	742.5	744.0	743.6	745.7	748.2	749.5	751.7
20°	746.5	743.5	742.5	739.6	739.9	741.3	740.8	743.3	745.0	746.5	749.3
20.5°	743.7	740.7	739.1	737.2	736.9	737.9	738.4	740.7	742.5	743.6	746.5
21°	741.8	738.8	736.9	734.9	733.9	735.0	735.7	737.4	739.5	741.4	743.4



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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°	733.7	729.3	727.8	725.2	725.1	726.5	726.8	728.2	731.5	732.3	734.7
23°	729.9	725.8	724.4	722.0	722.3	723.5	723.6	725.4	728.2	729.3	731.5
23.5°	725.7	722.9	721.3	718.1	719.6	720.0	720.8	722.3	724.7	726.3	728.4
24°	722.5	719.8	718.2	715.1	715.9	716.0	717.5	718.9	722.1	722.6	725.2
24.5°	719.5	716.3	714.3	712.2	711.8	712.7	714.2	715.7	718.0	719.2	722.0
25°	716.1	713.2	710.6	708.9	708.6	709.6	710.7	712.2	715.4	716.6	718.9
25.5°	712.8	710.1	708.3	705.5	705.8	706.4	707.4	709.3	711.1	713.4	715.3
26°	709.5	707.2	704.8	702.0	702.0	703.3	704.2	706.4	708.4	710.0	712.1
26.5°	706.8	703.6	700.7	699.0	698.4	699.3	700.6	702.6	704.6	706.6	708.9
27°	703.1	700.0	697.4	695.6	694.9	696.3	697.2	699.5	701.0	703.1	705.6
27.5°	699.1	696.6	693.9	691.7	691.7	693.0	693.5	695.6	698.1	700.3	702.5
28°	695.1	693.0	690.7	688.1	687.5	689.2	689.9	692.2	693.9	696.0	698.9
28.5°	691.6	689.3	687.4	684.0	683.1	685.2	686.1	688.2	690.1	692.9	695.1
29°	688.3	685.3	683.0	680.3	679.0	681.3	682.4	684.9	686.7	689.4	691.2
29.5°	684.4	681.1	679.0	676.8	676.1	677.5	678.6	680.5	682.6	684.9	687.7
30°	680.7	677.1	675.0	672.7	672.7	673.9	674.4	676.6	679.9	681.2	683.9
30.5°	676.9	673.2	670.9	668.6	668.4	669.9	670.5	673.0	675.9	677.5	680.0
31°	672.9	669.5	666.4	664.4	664.2	665.8	666.2	669.5	671.6	673.5	676.7
31.5°	669.1	665.5	662.2	660.4	660.1	661.7	662.4	665.2	667.9	669.5	672.5
32°	664.7	661.4	657.8	656.5	655.9	658.0	658.7	661.2	663.9	665.2	668.2
32.5°	660.6	657.1	653.6	652.3	652.3	654.2	654.8	657.3	659.8	661.1	664.1
33°	656.5	652.6	649.5	648.1	647.8	649.8	650.1	652.9	655.3	657.4	660.1
33.5°	652.2	648.1	645.2	644.2	643.1	645.0	645.4	648.4	651.3	653.7	655.6
34°	647.9	644.0	641.4	640.1	638.9	640.7	641.3	644.3	646.9	648.8	652.1
34.5°	643.4	639.6	637.1	635.4	635.3	636.6	637.2	640.1	642.2	643.8	647.4
35°	639.1	635.2	632.8	630.7	630.1	631.9	633.0	635.9	638.2	639.9	642.9
35.5°	635.1	630.6	628.5	626.2	626.2	627.1	628.9	631.3	634.4	636.0	638.6
36°	630.4	626.3	623.8	621.6	621.9	622.5	624.0	626.3	629.8	632.1	634.3
36.5°	625.9	621.6	619.3	616.8	617.0	618.2	619.4	621.7	625.6	627.1	630.1
37°	621.1	617.2	614.1	612.0	612.3	613.3	614.7	617.0	620.6	622.6	625.3
37.5°	615.7	612.3	609.2	607.5	607.9	608.9	610.0	612.3	615.8	618.4	620.9
38°	611.0	607.2	604.4	602.7	603.1	604.0	605.4	607.7	611.5	613.4	616.1
38.5°	606.5	602.7	599.6	597.9	598.2	599.5	600.5	602.9	606.7	608.7	611.3
39°	601.8	598.1	594.9	592.8	593.4	594.9	595.4	598.4	601.9	604.0	606.9
39.5°	596.9	593.1	590.3	587.6	588.7	589.7	590.8	593.4	596.9	598.7	602.3
40°	592.1	588.2	585.2	582.5	583.5	584.4	586.0	588.7	591.9	594.3	597.5
40.5°	586.9	583.3	580.0	577.8	578.7	580.0	580.9	583.4	586.8	589.3	592.5
41°	581.7	578.2	575.0	573.2	573.5	574.6	575.9	578.6	582.0	584.5	587.4
41.5°	576.7	573.1	569.9	568.4	568.5	569.4	570.9	573.7	577.6	579.9	582.3
42°	571.6	567.9	565.0	562.8	563.0	564.3	566.0	568.5	572.4	574.0	577.2
42.5°	566.8	562.6	560.0	557.4	558.1	559.2	560.7	563.2	567.1	569.3	572.3
43°	561.6	557.2	554.9	552.4	552.6	554.0	555.2	558.0	561.8	564.4	567.5
43.5°	556.2	551.6	549.5	546.7	546.8	548.7	550.2	552.6	556.6	559.4	562.3



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	540.3	536.2	533.3	530.4	531.2	532.5	534.1	536.9	540.2	543.0	546.6
45.5°	535.1	530.6	528.1	525.0	525.6	527.3	528.6	531.6	535.0	537.4	540.8
46°	529.8	525.3	522.7	519.7	520.0	521.5	523.0	526.1	529.5	532.1	535.6
46.5°	524.1	520.0	516.9	514.1	514.7	516.0	517.5	520.5	524.0	527.0	530.1
47°	518.5	514.7	511.3	508.3	509.0	510.5	511.8	514.8	518.5	520.8	524.5
47.5°	513.0	509.5	505.4	502.5	503.8	504.9	506.4	509.3	512.6	515.5	519.1
48°	507.3	504.0	499.9	496.9	498.5	499.4	500.6	503.6	507.2	510.6	513.5
48.5°	501.6	498.2	494.4	491.4	492.8	493.6	495.1	498.1	501.6	504.8	508.1
49°	496.0	492.8	488.7	485.6	486.5	487.6	489.2	492.3	496.0	498.9	502.4
49.5°	490.3	487.0	482.8	479.7	480.5	482.0	483.7	486.6	490.2	493.5	497.1
50°	484.2	481.1	476.8	473.6	474.4	476.2	477.7	480.7	484.6	487.8	490.9
50.5°	478.3	475.2	471.0	467.8	468.9	470.1	471.7	474.8	478.7	481.8	485.6
51°	472.6	469.2	465.1	461.8	463.0	464.4	465.6	468.8	472.5	475.9	479.5
51.5°	466.9	462.9	459.1	455.7	457.5	458.3	459.9	463.1	466.8	470.2	473.6
52°	461.1	456.5	452.9	449.9	451.6	452.5	454.1	457.0	460.6	464.1	467.6
52.5°	454.7	450.6	446.8	443.6	445.5	446.1	448.0	450.9	454.9	458.0	461.7
53°	448.8	444.6	440.7	437.6	439.2	440.2	441.8	444.6	448.7	451.9	455.9
53.5°	442.9	438.5	434.5	431.4	432.9	434.0	435.5	438.6	442.6	445.6	449.8
54°	436.7	432.3	428.4	425.0	426.9	427.9	429.1	432.3	436.4	439.4	443.6
54.5°	430.7	426.3	422.5	418.8	420.7	422.0	423.5	426.2	430.3	434.0	437.2
55°	424.3	420.1	416.0	412.4	414.6	415.7	417.2	420.2	424.3	427.7	431.4
55.5°	418.1	413.7	409.6	406.1	408.1	409.1	410.8	413.9	418.1	421.8	425.5
56°	411.6	407.3	403.1	399.8	401.9	402.8	404.6	407.5	412.1	415.3	419.0
56.5°	405.4	401.0	396.8	393.8	395.3	396.7	398.3	401.5	405.5	409.0	412.3
57°	399.2	394.5	390.3	387.8	389.3	390.1	391.9	395.2	399.0	402.4	406.2
57.5°	392.6	388.3	384.1	381.6	382.8	383.9	385.5	388.8	392.5	396.9	400.1
58°	386.1	381.8	377.7	375.1	376.4	377.6	379.1	382.4	386.1	390.1	393.6
58.5°	379.8	375.2	371.1	368.4	369.9	371.1	372.7	376.0	379.9	383.6	387.3
59°	373.4	368.5	364.7	361.8	363.4	364.6	366.3	369.9	373.4	377.0	380.9
59.5°	367.0	362.1	358.3	355.2	357.1	358.2	360.1	363.3	366.9	370.7	374.5
60°	360.8	355.5	352.0	348.3	350.7	352.1	353.8	357.1	360.6	364.4	368.0
60.5°	354.1	348.8	345.6	341.9	344.2	345.5	347.3	350.5	354.2	357.9	361.9
61°	347.3	342.3	339.1	335.2	337.7	339.3	340.8	343.9	347.7	351.7	355.5
61.5°	340.9	336.0	332.5	329.1	331.0	332.7	334.3	337.5	341.5	345.2	349.0
62°	334.1	329.7	325.7	322.6	324.7	326.1	327.9	331.2	335.1	338.3	342.3
62.5°	327.6	323.2	319.2	315.9	317.8	319.6	321.2	324.4	328.3	331.9	336.1
63°	321.1	316.4	312.7	309.2	311.3	312.9	314.5	317.9	321.7	325.7	329.5
63.5°	314.4	309.7	305.7	302.4	304.8	306.1	307.9	311.5	315.0	318.8	323.0
64°	307.9	303.2	299.1	295.8	298.2	299.5	301.2	304.7	308.3	312.4	316.0
64.5°	301.1	296.5	292.6	289.4	291.3	292.9	294.4	298.0	301.9	305.3	309.6
65°	294.7	290.0	285.9	282.7	285.0	286.2	287.9	291.4	295.0	299.0	302.7
65.5°	288.0	283.0	279.0	275.9	278.3	279.4	281.3	284.8	288.6	292.4	296.0
66°	281.2	276.1	272.3	269.1	271.5	272.7	274.5	278.1	281.8	285.7	289.3



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	261.0	256.3	252.0	248.5	251.6	252.8	254.6	258.0	261.6	265.4	269.2
68°	254.0	249.4	245.2	242.0	244.7	246.2	247.8	251.1	254.9	258.6	262.5
68.5°	247.2	242.8	238.5	235.3	237.9	239.5	241.2	244.5	248.4	252.2	255.7
69°	240.7	236.0	231.9	228.6	231.2	232.6	234.4	237.8	241.5	245.2	248.9
69.5°	234.2	229.5	225.0	221.9	224.9	225.8	227.9	230.9	234.8	238.5	242.2
70°	227.6	222.9	218.7	215.2	218.0	219.5	221.2	224.5	228.2	231.7	235.5
70.5°	221.2	216.1	211.9	208.3	211.5	212.6	214.5	218.0	221.7	225.3	228.7
71°	214.6	209.4	205.2	201.8	204.9	206.1	208.1	211.6	215.4	218.5	222.0
71.5°	208.0	202.6	198.3	195.1	198.3	199.3	201.1	204.7	208.3	211.7	215.2
72°	201.3	196.2	192.0	188.8	191.4	192.6	194.6	198.1	201.4	205.2	208.7
72.5°	194.5	189.7	185.2	182.1	184.8	186.1	188.1	191.5	194.8	198.5	202.1
73°	187.9	182.9	178.6	175.7	178.2	179.4	181.3	184.9	188.3	192.2	195.4
73.5°	181.3	176.4	172.1	169.2	171.7	172.9	174.8	178.2	181.6	185.3	188.8
74°	174.7	169.9	165.6	162.5	165.2	166.5	168.1	171.7	175.2	178.7	182.1
74.5°	168.1	163.3	159.0	156.1	159.0	159.9	161.7	165.1	168.6	172.0	175.3
75°	161.6	157.0	152.7	149.7	152.4	153.2	155.4	158.8	162.2	165.5	168.9
75.5°	155.3	150.5	146.3	143.4	145.9	147.1	148.9	152.2	155.7	159.1	162.3
76°	148.8	144.0	139.9	137.0	139.6	140.8	142.7	146.0	149.3	152.6	156.1
76.5°	142.5	137.7	133.4	130.7	133.3	134.3	136.3	139.4	142.9	146.1	149.6
77°	136.0	131.6	127.3	124.6	126.9	128.3	130.0	133.2	136.6	139.9	143.4
77.5°	129.9	125.4	121.2	118.3	120.9	122.1	124.1	126.9	130.3	133.4	136.9
78°	123.8	119.2	115.1	112.3	114.9	115.9	117.8	120.7	124.1	127.2	130.7
78.5°	117.6	113.1	109.0	106.1	108.9	109.8	111.6	114.9	117.8	121.1	124.4
79°	111.6	107.2	103.2	100.2	102.7	103.9	105.4	108.8	111.7	115.1	118.3
79.5°	105.6	101.2	97.3	94.4	96.8	97.9	99.4	102.7	105.8	108.8	111.9
80°	99.7	95.2	91.4	88.7	90.8	91.9	93.6	96.8	99.8	102.8	105.9
80.5°	93.8	89.5	85.7	82.9	85.2	86.0	88.1	90.7	93.8	96.8	100.1
81°	88.1	83.7	79.8	77.1	79.5	80.4	82.1	85.2	88.1	91.0	94.1
81.5°	82.2	78.0	74.2	71.5	73.9	75.1	76.7	79.3	82.4	85.3	88.2
82°	76.5	72.3	68.6	65.9	68.0	69.1	70.7	73.5	76.4	79.5	82.4
82.5°	70.8	66.7	63.1	60.4	62.6	63.4	65.3	67.8	70.7	73.8	76.7
83°	65.0	61.2	57.6	55.1	57.4	58.2	59.8	62.3	65.3	68.4	71.3
83.5°	59.5	55.7	52.1	49.6	52.2	52.5	54.7	57.1	59.8	62.9	65.8
84°	54.3	50.5	46.8	44.5	46.7	47.6	49.2	51.7	54.5	57.4	60.2
84.5°	49.0	45.3	41.6	39.4	41.6	42.6	44.0	46.5	49.2	52.3	55.1
85°	43.6	40.1	36.6	34.3	36.7	37.3	38.8	41.4	44.0	46.9	49.6
85.5°	38.5	35.0	31.7	29.5	31.6	32.5	33.8	36.2	38.9	41.8	44.5
86°	33.5	30.1	27.0	24.7	26.8	27.4	28.9	31.3	33.9	36.8	39.5
86.5°	28.6	25.3	22.5	20.2	22.1	22.7	24.2	26.5	29.1	31.8	34.5
87°	23.9	20.9	18.0	15.7	17.6	18.3	19.8	21.8	24.2	26.9	29.5
87.5°	19.5	16.5	13.9	11.6	13.4	14.0	15.3	17.4	19.8	22.4	24.7
88°	15.2	12.4	9.9	8.2	9.3	10.0	11.2	13.0	15.4	18.1	20.3
88.5°	10.9	8.6	6.3	4.7	6.1	6.6	7.7	9.3	11.4	13.7	16.0



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

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	3.3	5.0
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: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

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	1.1
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	1.3	1.4	1.3	1.1	1.2	1.3
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	1.7	1.3	1.2	1.3	1.3
124.5°	0.8	1.3	1.1	1.3	1.3	1.3	1.6	1.5	1.3	1.3	1.3
125°	0.9	1.3	1.1	1.3	1.3	1.3	1.7	1.4	1.3	1.3	1.3
125.5°	0.9	1.5	1.3	1.3	1.4	1.3	1.7	1.5	1.3	1.3	1.3
126°	0.9	1.5	1.3	1.5	1.4	1.3	1.7	1.5	1.3	1.3	1.3
126.5°	1.0	1.5	1.6	1.4	1.4	1.3	1.7	1.5	1.4	1.3	1.3
127°	1.0	1.5	1.7	1.5	1.4	1.3	1.7	1.5	1.4	1.3	1.3
127.5°	1.0	1.5	1.7	1.3	1.5	1.3	1.7	1.5	1.4	1.3	1.3
128°	1.1	1.5	1.7	1.7	1.5	1.4	1.7	1.5	1.4	1.4	1.3
128.5°	1.5	1.5	1.7	1.6	1.5	1.4	1.7	1.6	1.4	1.4	1.3
129°	1.5	1.7	1.7	1.6	1.5	1.4	1.8	1.7	1.4	1.4	1.3
129.5°	1.5	1.5	1.7	1.6	1.5	1.5	1.8	1.7	1.4	1.4	1.3
130°	1.5	1.9	1.7	1.7	1.5	1.5	1.7	1.7	1.4	1.5	1.3
130.5°	1.5	1.9	1.7	1.6	1.5	1.4	1.7	1.7	1.5	1.5	1.4
131°	1.6	1.8	1.7	1.6	1.7	1.4	1.7	1.7	1.5	1.5	1.4
131.5°	1.5	1.8	1.7	1.7	1.6	1.5	1.9	1.7	1.5	1.5	1.4
132°	1.6	1.8	1.7	1.7	1.7	1.5	1.9	1.7	1.5	1.6	1.4
132.5°	1.7	1.8	1.7	1.7	1.7	1.5	1.9	1.8	1.6	1.6	1.4
133°	1.7	1.8	1.7	1.7	1.7	1.5	1.9	1.7	1.6	1.6	1.4
133.5°	1.7	1.8	1.7	1.7	1.7	1.5	1.9	1.7	1.6	1.6	1.4



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

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



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

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	3.1	3.3	3.5	3.5	3.0	2.8	2.8	2.7	2.8
158°	2.8	2.8	3.1	3.4	3.6	3.5	3.2	2.8	2.9	2.8	2.9
158.5°	2.8	2.9	3.2	3.5	3.7	3.7	3.3	2.9	2.9	2.9	2.9
159°	2.9	2.9	3.2	3.7	3.7	3.7	3.3	2.9	2.9	2.9	2.9
159.5°	2.9	3.1	3.2	3.8	3.9	3.9	3.4	3.0	2.9	3.0	3.0
160°	2.9	3.0	3.3	3.9	3.8	3.8	3.5	3.1	3.0	3.1	3.1
160.5°	2.9	3.1	3.5	3.9	3.8	3.8	3.5	3.2	3.0	3.1	3.1
161°	2.9	3.1	3.5	3.9	3.8	3.8	3.6	3.3	3.0	3.1	3.3
161.5°	2.9	3.1	3.5	3.9	3.7	3.8	3.6	3.3	3.0	3.1	3.3
162°	2.9	3.4	3.7	3.9	3.7	3.9	3.6	3.3	3.1	3.1	3.4
162.5°	2.9	3.4	3.9	3.9	3.7	3.7	3.5	3.3	3.2	3.1	3.4
163°	2.9	3.5	3.9	3.9	3.7	3.8	3.7	3.5	3.3	3.1	3.3
163.5°	2.9	3.5	3.9	4.0	3.6	3.7	3.7	3.5	3.3	3.2	3.3
164°	2.9	3.7	3.9	3.9	3.6	3.7	3.7	3.7	3.3	3.2	3.3
164.5°	2.9	3.8	3.9	3.9	3.7	3.7	3.7	3.7	3.4	3.2	3.3
165°	2.9	3.8	3.9	4.0	3.5	3.7	3.7	3.7	3.4	3.3	3.3
165.5°	2.9	3.8	3.9	4.0	3.4	3.7	3.7	3.8	3.5	3.3	3.3
166°	2.9	3.8	3.9	4.0	3.6	3.7	3.7	3.8	3.5	3.3	3.3
166.5°	2.9	3.8	3.9	4.0	3.5	3.7	3.7	3.8	3.5	3.3	3.3
167°	2.9	3.9	3.9	4.0	3.5	3.7	3.7	3.8	3.7	3.3	3.3
167.5°	3.0	3.9	3.9	4.0	3.5	3.7	3.7	3.8	3.7	3.3	3.3
168°	2.9	3.9	3.9	4.0	3.5	3.7	3.7	3.8	3.7	3.3	3.3
168.5°	2.9	3.9	3.9	4.0	3.5	3.7	3.7	3.8	3.7	3.4	3.3
169°	2.9	3.9	3.9	4.1	3.5	3.7	3.7	3.8	3.7	3.3	3.3
169.5°	2.9	3.9	3.9	4.1	3.5	3.7	3.7	3.8	3.7	3.4	3.3
170°	2.9	3.9	3.9	4.1	3.7	3.7	3.7	3.8	3.7	3.4	3.4
170.5°	2.9	3.9	3.9	4.0	3.5	3.7	3.7	3.8	3.7	3.5	3.4
171°	2.9	3.9	3.9	3.9	3.6	3.7	3.7	3.8	3.7	3.5	3.4
171.5°	3.0	3.9	3.9	3.9	3.5	3.7	3.7	3.8	3.7	3.5	3.5
172°	2.9	3.9	3.9	3.9	3.5	3.7	3.7	3.8	3.7	3.5	3.5
172.5°	2.9	3.9	3.9	3.8	3.5	3.7	3.7	3.8	3.7	3.5	3.5
173°	3.1	4.0	3.9	3.8	3.6	3.7	3.7	3.8	3.8	3.5	3.6
173.5°	3.1	4.0	3.9	3.8	3.6	3.7	3.7	3.8	3.8	3.5	3.5
174°	3.0	3.9	3.9	3.7	3.7	3.7	3.7	3.8	3.6	3.5	3.5
174.5°	3.0	3.9	3.9	3.7	3.5	3.7	3.7	3.8	3.6	3.6	3.5
175°	3.0	3.8	3.9	3.7	3.5	3.7	3.7	3.8	3.6	3.6	3.5
175.5°	3.0	3.9	3.9	3.7	3.5	3.7	3.7	3.8	3.6	3.7	3.6
176°	3.0	3.9	3.8	3.7	3.5	3.8	3.7	3.9	3.6	3.7	3.6
176.5°	3.0	3.8	3.7	3.7	3.5	3.8	3.7	3.9	3.7	3.6	3.6
177°	3.0	3.8	3.7	3.7	3.5	3.8	3.7	4.0	3.7	3.7	3.7
177.5°	3.0	3.7	3.7	3.7	3.7	3.8	3.9	4.0	3.6	3.8	3.7
178°	3.3	3.7	3.7	3.7	3.7	3.9	3.9	3.9	3.6	3.7	3.8
178.5°	3.5	3.7	3.7	3.7	3.9	3.9	3.9	3.9	3.6	3.7	3.7



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	800.2	800.2	800.2	800.2	800.2	800.2
0.5°	799.7	800.6	800.3	799.4	799.8	800.8
1°	799.7	800.3	800.1	800.3	800.4	800.9
1.5°	799.7	800.1	800.1	800.0	800.7	801.1
2°	799.7	799.9	799.9	800.1	800.2	801.6
2.5°	800.1	799.9	800.9	800.1	799.8	801.4
3°	799.2	799.2	801.3	799.4	800.0	800.3
3.5°	798.9	799.3	800.6	799.3	800.3	799.5
4°	798.9	798.9	799.3	799.7	799.1	799.1
4.5°	798.6	798.5	799.4	798.4	798.2	798.4
5°	797.5	797.8	799.0	797.8	797.7	798.0
5.5°	797.2	797.2	797.7	796.6	797.1	797.8
6°	795.8	796.4	797.3	796.0	795.9	795.7
6.5°	796.3	796.2	796.9	795.6	795.3	795.4
7°	795.0	794.7	796.1	795.0	794.2	794.5
7.5°	794.8	793.8	794.8	793.8	792.7	793.2
8°	793.2	793.1	793.1	792.1	792.1	791.0
8.5°	791.4	792.3	791.9	791.2	791.0	790.3
9°	790.5	790.8	790.5	790.4	789.6	789.7
9.5°	789.9	789.5	789.3	788.4	788.0	788.1
10°	787.7	787.8	788.2	787.4	786.7	788.0
10.5°	786.3	786.9	787.1	786.4	785.8	787.2
11°	785.2	785.0	785.3	783.9	784.9	785.4
11.5°	783.9	783.6	783.9	782.7	783.4	783.5
12°	782.5	781.8	783.4	782.4	781.3	782.1
12.5°	780.6	779.8	782.5	780.5	779.6	780.1
13°	778.4	778.4	779.9	778.9	777.5	777.8
13.5°	777.1	776.2	776.8	777.2	776.2	776.0
14°	775.5	774.5	775.1	775.2	774.5	774.3
14.5°	773.3	772.9	773.5	772.8	772.1	772.1
15°	771.4	770.9	771.8	770.4	769.6	769.7
15.5°	769.8	768.5	769.8	768.4	766.9	768.1
16°	767.9	766.4	767.9	765.8	765.8	766.1
16.5°	766.0	764.5	765.7	763.3	763.9	763.3
17°	763.8	762.9	763.2	761.3	760.8	761.6
17.5°	760.9	760.9	761.2	759.7	758.4	759.2
18°	759.2	758.5	759.2	757.0	756.3	756.9
18.5°	756.7	756.6	756.9	754.5	754.2	753.1
19°	754.1	754.9	754.5	752.2	751.5	749.9
19.5°	751.5	752.1	752.4	750.0	749.1	748.4
20°	748.8	748.8	750.1	747.7	746.6	746.5
20.5°	746.1	745.3	746.7	744.8	743.7	743.7
21°	742.9	743.5	744.2	741.9	740.8	741.8



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	735.5	734.4	736.0	732.9	732.5	733.7
23°	732.6	731.5	733.0	730.0	730.3	729.9
23.5°	729.3	728.4	728.8	726.7	727.3	725.7
24°	726.7	725.0	725.4	723.5	723.6	722.5
24.5°	723.2	722.3	722.7	720.4	720.3	719.5
25°	720.1	718.9	719.6	717.5	716.8	716.1
25.5°	716.8	715.8	716.3	713.7	713.7	712.8
26°	713.7	712.6	713.0	710.8	710.3	709.5
26.5°	709.7	709.2	710.3	707.7	707.2	706.8
27°	706.8	705.8	707.3	704.2	703.9	703.1
27.5°	703.2	702.4	703.8	700.6	699.9	699.1
28°	699.9	699.0	699.0	696.9	696.0	695.1
28.5°	696.3	695.5	695.6	694.4	692.7	691.6
29°	692.4	691.9	691.4	690.5	689.0	688.3
29.5°	688.7	688.2	687.3	686.7	685.0	684.4
30°	684.7	684.4	683.7	682.8	681.3	680.7
30.5°	681.1	680.5	680.3	679.1	677.7	676.9
31°	677.2	676.3	676.2	675.5	673.6	672.9
31.5°	673.8	672.5	672.9	671.2	669.6	669.1
32°	668.8	668.4	669.1	667.1	666.1	664.7
32.5°	664.8	664.5	665.0	662.6	661.9	660.6
33°	661.3	660.1	660.6	658.9	657.9	656.5
33.5°	657.4	656.0	656.4	655.0	653.3	652.2
34°	652.7	652.1	652.1	650.8	649.3	647.9
34.5°	649.0	647.7	648.3	646.5	644.9	643.4
35°	644.7	643.3	644.0	642.0	640.8	639.1
35.5°	640.5	638.9	639.2	637.4	636.2	635.1
36°	635.8	634.6	634.9	632.5	631.6	630.4
36.5°	631.8	630.2	630.4	628.1	626.8	625.9
37°	627.5	625.5	626.0	623.8	622.2	621.1
37.5°	622.8	621.0	621.5	619.4	617.9	615.7
38°	617.9	616.2	616.6	614.4	613.2	611.0
38.5°	613.3	611.6	611.8	609.9	608.6	606.5
39°	608.4	606.7	606.7	605.0	604.1	601.8
39.5°	603.8	601.8	602.1	600.2	598.8	596.9
40°	599.0	597.0	597.5	595.5	593.7	592.1
40.5°	594.2	592.3	592.5	590.7	588.6	586.9
41°	589.4	587.4	587.2	585.8	583.9	581.7
41.5°	584.4	582.7	582.4	580.7	579.0	576.7
42°	579.2	577.8	577.4	575.6	573.9	571.6
42.5°	574.1	572.7	572.5	570.6	569.0	566.8
43°	568.8	567.6	567.7	565.7	564.1	561.6
43.5°	563.6	562.4	562.6	560.4	558.9	556.2



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	548.1	546.4	546.5	544.6	542.4	540.3
45.5°	543.3	541.1	541.4	539.4	537.1	535.1
46°	537.7	535.6	535.7	534.2	532.0	529.8
46.5°	532.1	530.2	530.4	528.9	526.4	524.1
47°	527.2	524.8	524.9	523.0	520.7	518.5
47.5°	521.1	519.2	519.2	517.1	515.3	513.0
48°	515.3	513.7	513.8	511.9	509.6	507.3
48.5°	509.9	508.1	508.1	506.2	504.0	501.6
49°	504.6	502.5	502.4	500.8	498.4	496.0
49.5°	498.3	497.1	497.1	495.4	492.9	490.3
50°	492.9	491.4	491.2	489.5	486.8	484.2
50.5°	486.7	485.5	485.4	483.8	481.1	478.3
51°	480.8	479.3	479.6	478.2	475.3	472.6
51.5°	475.2	473.7	473.7	472.5	469.1	466.9
52°	469.2	467.9	468.0	466.5	463.4	461.1
52.5°	463.3	461.7	461.9	460.3	457.2	454.7
53°	457.5	456.0	456.0	454.2	451.3	448.8
53.5°	451.2	449.9	449.8	448.0	445.3	442.9
54°	445.1	443.6	443.6	441.9	439.1	436.7
54.5°	439.5	437.5	437.6	435.8	433.0	430.7
55°	433.3	431.7	431.5	429.8	426.7	424.3
55.5°	427.5	425.6	425.1	423.5	420.4	418.1
56°	420.9	419.3	418.5	417.4	414.2	411.6
56.5°	414.7	413.1	412.2	411.0	408.0	405.4
57°	408.6	406.7	406.0	404.7	401.7	399.2
57.5°	402.4	400.3	399.7	398.3	395.5	392.6
58°	396.0	393.9	393.4	391.9	389.0	386.1
58.5°	389.5	387.6	387.0	385.5	382.8	379.8
59°	383.1	381.1	380.7	379.1	376.2	373.4
59.5°	376.7	374.8	374.1	372.5	369.6	367.0
60°	370.4	368.3	367.7	366.0	363.2	360.8
60.5°	364.0	361.6	361.4	359.7	356.8	354.1
61°	357.6	355.1	355.0	353.3	350.0	347.3
61.5°	351.5	348.6	348.5	346.9	344.0	340.9
62°	344.9	342.2	342.0	340.0	337.4	334.1
62.5°	338.2	335.7	335.4	333.4	330.7	327.6
63°	331.9	329.1	328.7	326.7	324.2	321.1
63.5°	325.4	322.6	322.0	320.5	317.6	314.4
64°	318.7	315.9	315.4	313.9	311.2	307.9
64.5°	311.9	309.3	309.0	307.1	304.5	301.1
65°	305.4	302.7	302.4	300.5	297.8	294.7
65.5°	298.6	296.0	295.7	294.2	291.1	288.0
66°	292.1	289.4	289.1	287.4	284.5	281.2



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	272.1	269.2	268.9	267.4	264.5	261.0
68°	264.8	262.4	262.2	261.0	257.9	254.0
68.5°	258.5	255.8	255.5	254.1	251.1	247.2
69°	251.5	249.0	248.9	247.6	244.7	240.7
69.5°	244.6	242.2	242.2	240.4	237.7	234.2
70°	237.9	235.5	235.3	233.6	231.1	227.6
70.5°	231.4	228.7	228.8	227.0	224.5	221.2
71°	224.9	222.1	221.9	220.5	217.7	214.6
71.5°	218.1	215.4	215.4	213.9	211.2	208.0
72°	211.5	208.6	208.6	207.2	204.5	201.3
72.5°	204.9	202.2	202.0	200.7	197.5	194.5
73°	198.3	195.4	195.3	194.0	191.2	187.9
73.5°	191.7	188.9	188.9	187.6	184.8	181.3
74°	185.0	182.4	182.3	180.7	178.2	174.7
74.5°	178.4	175.8	175.8	174.4	171.6	168.1
75°	171.8	169.1	169.1	168.0	165.2	161.6
75.5°	165.1	162.7	162.7	161.4	158.8	155.3
76°	158.8	156.2	156.3	155.0	152.4	148.8
76.5°	152.4	149.9	149.8	148.9	146.0	142.5
77°	146.2	143.3	143.5	142.5	139.7	136.0
77.5°	139.7	137.1	137.2	136.1	133.3	129.9
78°	133.4	130.9	131.0	129.6	127.1	123.8
78.5°	126.9	124.7	124.7	123.8	120.9	117.6
79°	120.9	118.6	118.5	117.5	115.0	111.6
79.5°	114.6	112.4	112.4	111.3	108.7	105.6
80°	108.6	106.3	106.4	105.0	102.9	99.7
80.5°	102.7	100.3	100.5	99.3	97.0	93.8
81°	96.7	94.2	94.5	93.6	91.3	88.1
81.5°	90.8	88.6	88.8	87.9	85.4	82.2
82°	85.0	82.9	83.1	82.2	79.6	76.5
82.5°	79.2	77.2	77.3	76.3	73.9	70.8
83°	73.6	71.5	71.5	70.5	68.3	65.0
83.5°	67.7	65.8	65.9	64.9	62.6	59.5
84°	62.3	60.3	60.4	59.5	57.3	54.3
84.5°	57.1	55.0	55.1	54.0	51.9	49.0
85°	51.8	49.5	49.7	48.7	46.6	43.6
85.5°	46.5	44.3	44.5	43.3	41.3	38.5
86°	41.4	39.0	39.2	38.5	36.2	33.5
86.5°	36.3	34.0	34.0	33.1	31.1	28.6
87°	31.4	29.2	29.1	28.3	26.3	23.9
87.5°	26.5	24.5	24.4	23.6	21.8	19.5
88°	22.0	20.0	20.1	19.2	17.2	15.2
88.5°	17.5	15.6	15.7	14.8	13.1	10.9



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	6.1	4.4	4.4	3.8	2.1	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: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

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°	1.3	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	1.1	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	1.3	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°	1.5	1.4	1.0	1.3	1.3	1.0
128°	1.6	1.5	1.1	1.4	1.3	1.1
128.5°	1.5	1.5	1.1	1.6	1.3	1.5
129°	1.5	1.6	1.1	1.6	1.4	1.5
129.5°	1.7	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	1.7	1.5	1.5
131°	1.7	1.7	1.3	1.7	1.6	1.6
131.5°	1.7	1.7	1.3	1.7	1.6	1.5
132°	1.7	1.7	1.5	1.7	1.6	1.6
132.5°	1.7	1.7	1.5	1.7	1.6	1.7
133°	1.7	1.7	1.6	1.7	1.6	1.7
133.5°	1.8	1.7	1.5	1.7	1.6	1.7



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	1.9	1.8	1.7	1.7	1.6	1.7
135.5°	1.9	1.8	1.7	1.7	1.6	1.7
136°	1.9	1.8	1.7	1.8	1.7	1.7
136.5°	2.0	1.9	1.7	1.9	2.3	1.7
137°	2.0	1.9	1.7	1.8	2.3	1.7
137.5°	2.0	1.9	1.7	1.9	2.3	1.7
138°	2.0	1.8	1.7	1.9	2.3	1.7
138.5°	2.0	1.9	1.7	1.9	2.3	1.7
139°	2.1	2.0	1.7	1.9	2.3	1.8
139.5°	2.1	2.4	1.7	1.9	2.3	1.8
140°	2.1	2.4	1.7	1.9	2.3	1.8
140.5°	2.2	2.3	1.7	1.9	2.3	1.9
141°	2.2	2.3	1.8	2.1	2.3	1.9
141.5°	2.2	2.3	1.8	2.1	2.3	1.9
142°	2.2	2.4	1.8	2.1	2.3	1.9
142.5°	2.3	2.3	1.9	2.1	2.3	1.9
143°	2.3	2.3	1.9	2.1	2.3	2.1
143.5°	2.3	2.4	1.9	2.1	2.3	2.1
144°	2.4	2.5	1.9	2.1	2.3	2.1
144.5°	2.4	2.6	2.0	2.2	2.3	2.1
145°	2.5	2.7	2.1	2.2	2.5	2.1
145.5°	2.5	2.8	2.1	2.3	2.4	2.1
146°	2.5	2.8	2.1	2.3	2.5	2.3
146.5°	2.5	2.9	2.1	2.3	2.6	2.5
147°	2.6	2.9	2.3	2.5	2.7	2.5
147.5°	2.6	2.8	2.3	2.5	2.7	2.5
148°	2.6	2.8	2.5	2.7	2.7	2.7
148.5°	2.6	2.8	2.6	2.6	2.7	2.7
149°	2.7	2.8	2.6	2.6	2.7	2.7
149.5°	2.7	2.8	2.7	2.7	2.7	2.7
150°	2.7	2.9	2.7	2.8	2.7	2.7
150.5°	2.7	2.8	2.7	2.8	2.7	2.7
151°	2.8	2.8	2.7	2.9	2.7	2.7
151.5°	2.8	2.9	2.7	2.8	2.7	2.7
152°	2.8	2.9	2.7	2.8	2.7	2.7
152.5°	2.8	3.1	2.7	2.8	2.7	2.7
153°	2.8	3.1	2.8	2.8	2.7	2.7
153.5°	2.8	3.1	2.8	2.8	2.7	2.7
154°	2.9	3.2	2.9	2.8	2.7	2.7
154.5°	2.9	3.2	2.9	2.8	2.7	2.7
155°	2.9	3.2	2.9	2.8	2.7	2.8
155.5°	2.9	3.3	3.1	2.8	2.7	2.8
156°	3.1	3.5	3.1	2.8	2.7	2.8



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P579678

CATALOG NUMBER: SMD14R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	3.7	3.7	3.7	3.7	3.7	3.7



Report Generated By 670245859 / DESKTOP-HRDQ47P





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







21.5°	738.9	735.6	734.0	730.7	730.6	732.3	733.1	734.2	737.2	738.7	740.5
22°	736.3	732.5	730.7	727.6	728.1	729.6	730.0	731.0	734.5	735.6	737.9



44°	551.2	546.6	544.2	541.2	541.5	543.2	544.8	547.3	551.1	553.9	556.6
44.5°	545.9	541.5	538.8	535.8	536.5	537.8	539.5	541.8	545.5	548.4	551.7



66.5°	274.5	269.6	265.4	262.1	264.6	265.5	267.7	271.2	274.9	279.0	282.5
67°	267.7	262.9	258.8	255.5	258.1	259.3	261.3	264.6	268.4	272.1	275.9



89°	7.1	5.0	3.1	1.8	3.1	3.5	4.5	5.9	7.7	9.9	11.8
89.5°	3.6	1.6	1.0	0.5	0.7	0.9	1.7	2.8	4.4	6.6	8.3



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



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



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





21.5°	739.7	740.8	741.2	739.1	738.2	738.9
22°	738.2	737.9	738.4	736.2	735.4	736.3



44°	558.7	557.1	557.3	555.3	553.5	551.2
44.5°	553.7	551.7	552.1	550.0	547.9	545.9



66.5°	285.4	282.6	282.5	280.9	278.1	274.5
67°	278.8	275.9	275.7	274.2	271.2	267.7



89°	13.1	11.4	11.4	10.8	9.2	7.1
89.5°	9.4	7.6	7.7	7.2	5.5	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	1.7	1.7	1.6	1.7
134.5°	1.8	1.7	1.6	1.7	1.6	1.7



156.5°	3.1	3.6	3.2	2.8	2.7	2.8
157°	3.1	3.8	3.4	2.8	2.7	2.8



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



(END OF REPORT)