

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: P417428

Luminaire Tested: **SMD6R129SWHE - 3000K**

Issue Date: 11/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P417428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2008665A001)  
Test Lab: EVERFINE  
Issue Date: 11/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD6R129SWHE - 3000K  
Description: SMD SELECTABLE CCT 3000K  
Light Source: SELECTABLE CCT LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1289.3 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

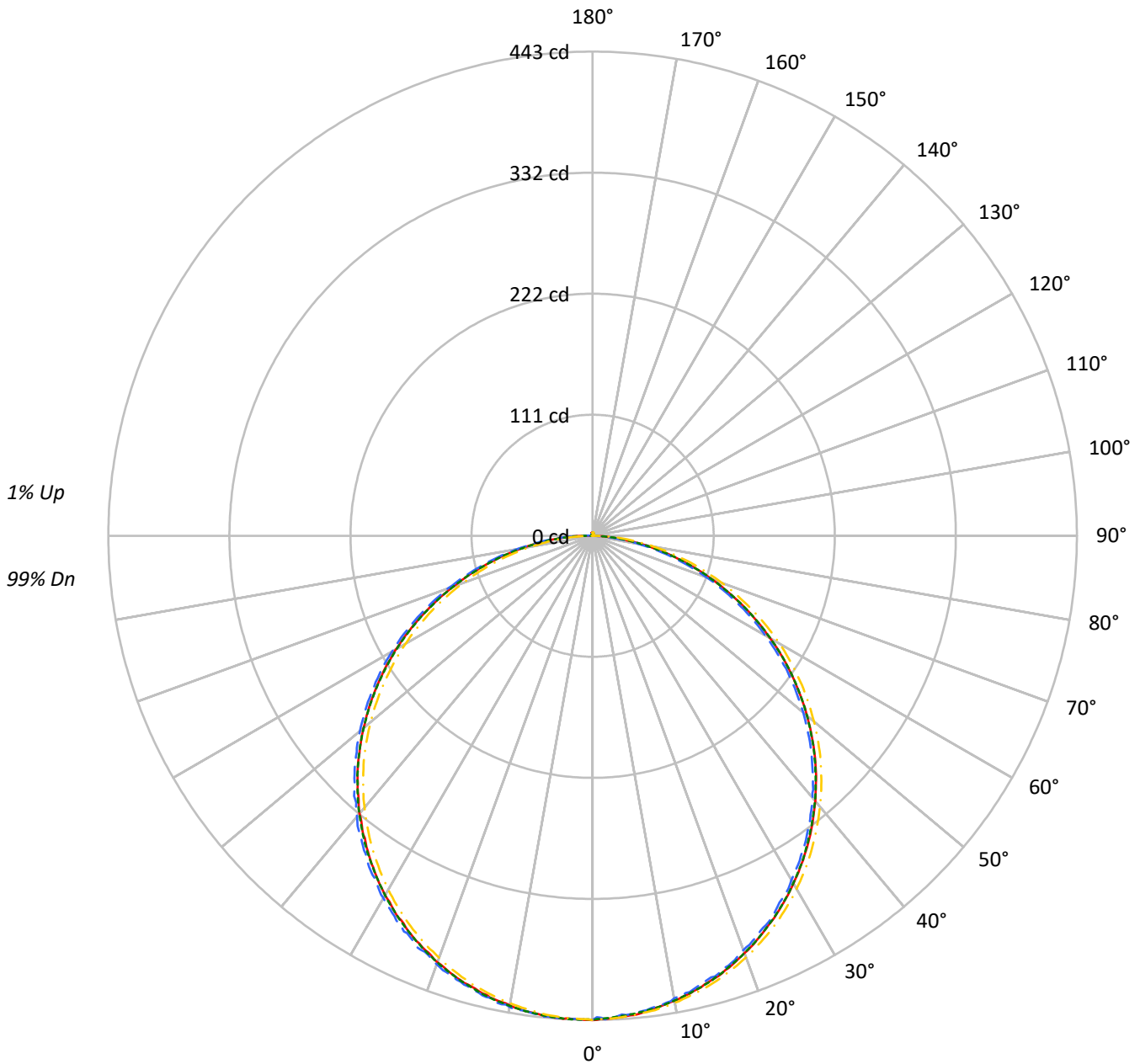
Input Watts (W): 14.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: SMD6R129SWHE - 3000K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99				
1	108	103	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85	83				
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	78	74	71	68				
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57				
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	56	51	49				
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42				
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37				
7	64	51	42	36	63	50	41	35	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	35	31	29				
9	56	42	34	29	54	42	34	28	41	33	28	39	33	28	38	32	28	26				
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	24296	24296	24296	24296
5°	24219	24158	24312	24301
10°	24053	24037	24281	24309
15°	23888	23910	24240	24285
20°	23709	23697	24222	24228
25°	23499	23493	24128	24141
30°	23250	23238	24029	24035
35°	22995	22961	23878	23912
40°	22671	22642	23737	23752
45°	22305	22258	23576	23561
50°	21841	21824	23334	23308
55°	21275	21294	23082	23024
60°	20579	20612	22794	22663
65°	19704	19717	22311	22220
70°	18545	18577	21750	21702
75°	17114	17114	21202	21075
80°	14964	15059	20710	20552
85°	11196	11699	21511	20945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	3.2
10°-20°	119.7	9.3
20°-30°	181.5	14.1
30°-40°	219.1	17.0
40°-50°	228.0	17.7
50°-60°	207.2	16.1
60°-70°	160.0	12.4
70°-80°	95.5	7.4
80°-90°	29.5	2.3
90°-100°	0.8	0.1
100°-110°	0.6	0.0
110°-120°	0.9	0.1
120°-130°	1.0	0.1
130°-140°	1.0	0.1
140°-150°	1.0	0.1
150°-160°	0.9	0.1
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	343.0	26.6
0°-40°	562.1	43.6
0°-60°	997.2	77.3
0°-90°	1282.2	99.5
90°-120°	2.3	0.2
90°-150°	5.3	0.4
90°-180°	7.0	0.5
0°-180°	1289.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	443	443	443	443	443	
5°	440	439	442	442	440	42
15°	421	421	427	428	421	119
25°	388	388	399	399	388	179
35°	344	343	357	357	344	215
45°	288	287	304	304	288	222
55°	223	223	242	241	223	199
65°	152	152	172	171	152	150
75°	81	81	100	100	81	85
85°	18	19	34	33	18	21
90°	1	0	7	6	1	1
95°	0	0	0	0	0	0
105°	1	1	1	0	1	1
115°	1	1	1	1	1	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	2	2	2	1	1
155°	2	2	2	2	2	1
165°	2	2	2	2	2	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2
0.5°	443.1	442.5	440.6	442.9	442.2	442.1	442.5	442.9	443.0	442.3	443.1
1°	442.0	442.3	441.1	442.3	442.1	442.3	442.4	442.6	443.0	442.3	442.4
1.5°	442.3	441.7	442.6	442.0	441.6	441.7	442.4	442.7	442.6	442.9	443.0
2°	442.1	441.2	440.9	443.2	441.4	441.6	442.2	442.4	442.6	443.1	442.2
2.5°	441.8	441.3	441.4	442.0	441.0	441.3	441.8	442.3	442.5	442.6	442.6
3°	441.3	440.6	440.0	441.7	440.7	440.9	441.5	442.1	442.2	442.4	442.2
3.5°	441.0	439.9	438.8	440.9	440.2	440.5	441.3	441.9	442.8	441.9	442.1
4°	440.7	439.3	439.7	440.7	440.0	440.2	440.9	441.5	442.0	442.5	442.6
4.5°	440.2	438.6	439.1	438.8	439.4	439.8	440.5	441.3	442.4	441.7	442.0
5°	440.1	438.9	439.1	439.4	439.0	439.7	440.1	440.9	441.8	441.7	442.0
5.5°	439.5	438.3	437.8	438.2	438.3	439.0	439.7	440.6	442.0	441.3	441.9
6°	438.7	437.4	437.3	437.4	438.0	438.2	439.0	440.2	441.2	441.1	442.6
6.5°	438.1	437.1	436.9	435.9	437.2	437.7	438.7	439.8	440.3	441.1	441.0
7°	436.6	436.5	435.6	435.1	436.6	437.1	438.2	439.2	440.0	440.6	440.6
7.5°	435.9	435.7	434.9	435.0	436.0	436.6	437.8	438.7	439.6	440.3	439.8
8°	435.3	434.5	434.1	435.4	435.3	435.8	436.9	438.0	439.3	439.8	439.0
8.5°	434.5	433.8	433.6	433.8	434.4	435.1	436.5	437.3	438.6	439.0	439.0
9°	433.6	433.1	432.5	433.8	433.5	434.1	435.5	436.8	438.0	437.8	439.5
9.5°	432.6	432.2	431.9	431.6	432.6	433.4	434.9	436.0	437.3	437.1	438.9
10°	432.1	431.1	429.9	430.4	431.8	432.4	433.9	435.3	436.2	436.8	437.7
10.5°	431.2	430.3	428.9	430.3	430.9	431.5	433.3	434.5	435.3	436.0	436.2
11°	429.9	429.3	428.6	429.6	429.9	430.6	432.0	433.8	434.8	435.5	436.8
11.5°	429.0	427.9	426.8	428.7	428.9	429.7	431.2	432.9	434.3	434.9	436.1
12°	428.2	427.1	426.8	427.6	427.8	428.7	430.2	431.9	433.4	434.6	435.5
12.5°	426.6	426.2	425.1	426.4	426.8	427.8	429.4	431.0	432.8	433.9	433.1
13°	425.8	425.2	423.8	423.9	425.7	426.9	428.3	430.0	431.1	432.1	433.2
13.5°	424.8	423.8	422.4	422.7	424.7	425.6	427.3	428.8	430.7	431.5	432.4
14°	423.1	422.7	421.0	422.3	423.4	424.6	426.2	427.9	429.7	431.1	430.8
14.5°	422.2	421.6	419.7	420.7	422.3	423.3	425.1	426.9	428.1	429.2	430.0
15°	420.9	420.1	418.3	419.4	421.3	422.2	424.0	426.0	427.1	428.5	429.3
15.5°	419.8	418.9	418.5	417.9	419.6	421.0	422.9	424.8	426.1	428.1	427.7
16°	418.7	417.1	416.9	417.2	418.4	419.7	421.7	423.7	425.8	427.0	427.2
16.5°	417.4	415.5	414.8	415.9	417.0	418.3	420.5	422.4	424.3	425.1	425.4
17°	415.5	414.4	413.3	414.6	415.4	417.0	419.0	421.3	423.3	423.5	424.9
17.5°	414.6	413.2	412.5	412.8	413.8	415.5	417.7	419.8	421.7	422.6	423.1
18°	412.8	411.8	410.9	411.5	412.5	414.3	416.3	418.7	420.7	421.6	422.6
18.5°	411.2	409.6	409.5	409.7	410.9	412.6	414.9	417.1	419.2	420.1	421.1
19°	409.6	408.0	407.3	406.7	409.4	411.1	413.4	415.8	417.7	419.0	420.5
19.5°	408.0	406.4	404.6	405.7	407.9	409.4	412.0	414.2	416.3	418.1	418.8
20°	406.4	405.1	403.5	404.8	406.2	408.1	410.5	412.8	415.2	416.8	417.2
20.5°	404.9	403.6	401.9	402.8	404.5	406.6	408.9	411.4	413.8	415.0	415.9
21°	403.3	402.1	400.8	400.9	403.0	405.0	407.3	410.0	411.6	413.1	413.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	397.7	396.3	395.0	395.1	397.7	399.7	402.4	405.1	407.5	409.5	410.2
23°	396.1	395.0	392.8	393.5	395.9	398.1	400.6	403.4	405.4	407.6	409.5
23.5°	394.0	393.1	391.1	391.8	393.9	396.1	398.9	401.7	404.2	406.1	407.2
24°	392.1	390.7	390.0	389.5	392.2	394.4	397.1	400.0	402.5	404.6	405.1
24.5°	390.2	388.4	388.3	387.7	390.2	392.5	395.4	398.2	400.7	403.2	403.0
25°	388.5	386.4	386.4	385.5	388.4	390.7	393.5	396.4	398.9	401.1	401.3
25.5°	386.6	384.3	384.3	383.9	386.4	388.6	391.8	394.7	397.2	399.7	401.1
26°	384.4	382.4	381.8	381.6	384.5	386.8	389.8	392.8	394.6	397.8	398.5
26.5°	382.6	380.3	379.1	380.1	382.2	384.6	387.7	390.6	392.7	394.9	396.9
27°	380.2	378.4	376.6	378.0	380.4	382.8	385.8	388.9	391.9	393.3	395.2
27.5°	378.4	376.1	374.8	375.6	378.0	380.6	383.7	386.9	389.8	391.6	392.5
28°	376.1	374.0	373.0	373.5	376.0	378.6	381.6	385.0	387.7	390.2	390.7
28.5°	374.2	371.9	371.4	370.7	373.8	376.2	379.5	382.9	385.5	388.0	388.6
29°	371.9	369.6	369.2	368.7	371.7	374.3	377.6	380.7	383.1	386.1	387.0
29.5°	369.7	367.4	366.5	366.4	369.4	371.9	375.3	378.5	381.5	383.9	384.9
30°	367.3	365.1	363.7	364.5	367.1	369.7	373.2	376.4	379.6	381.9	382.8
30.5°	365.1	362.9	361.4	362.3	364.8	367.4	370.9	374.3	377.4	379.3	381.2
31°	362.8	360.5	359.2	360.0	362.6	365.0	368.6	372.2	375.2	377.4	378.9
31.5°	360.7	358.3	356.9	357.6	360.1	362.6	366.2	369.9	373.3	374.8	376.1
32°	358.0	355.9	354.9	355.3	357.9	360.4	364.2	367.8	371.1	373.1	373.8
32.5°	355.8	353.6	352.6	353.1	355.6	358.0	361.6	365.4	368.7	370.4	371.2
33°	353.5	351.2	349.5	350.9	353.1	355.7	359.4	363.1	366.4	368.8	369.9
33.5°	350.9	348.8	347.1	347.8	350.6	353.3	357.0	360.6	363.5	366.0	367.8
34°	348.4	346.2	344.9	345.3	348.1	350.9	354.6	358.3	361.9	364.3	365.7
34.5°	346.0	343.7	342.6	342.6	345.5	348.4	352.1	355.9	359.3	361.7	363.2
35°	343.6	341.1	340.1	340.4	343.1	345.8	349.6	353.7	356.8	358.9	360.3
35.5°	341.1	338.7	337.2	337.6	340.4	343.4	347.0	351.3	354.3	356.7	357.4
36°	338.5	335.9	334.5	335.0	338.0	340.8	344.6	348.8	352.0	354.6	355.8
36.5°	335.7	333.4	332.3	332.4	335.1	338.3	342.1	346.3	349.0	352.6	353.0
37°	333.1	330.4	329.6	329.6	332.6	335.6	339.5	343.6	346.4	350.1	350.8
37.5°	330.5	327.7	326.9	326.7	329.8	333.0	336.9	341.2	344.6	347.2	347.8
38°	327.7	325.3	323.9	324.4	327.3	330.3	334.0	338.4	342.2	344.9	345.9
38.5°	325.0	322.8	321.3	321.6	324.5	327.6	331.6	335.8	339.1	341.3	344.0
39°	322.3	319.8	318.5	319.1	321.9	325.0	328.8	333.5	336.3	339.3	341.8
39.5°	319.5	316.9	316.7	316.3	319.2	322.2	326.2	330.5	333.9	336.5	338.4
40°	316.8	314.2	313.1	313.5	316.4	319.6	323.5	327.8	331.7	333.7	335.4
40.5°	313.9	311.4	309.6	310.9	313.6	316.6	320.9	325.1	329.0	331.5	332.9
41°	311.1	308.7	307.6	308.2	310.8	314.0	318.2	322.4	326.3	329.0	330.1
41.5°	308.3	305.7	304.1	305.1	307.8	311.1	315.4	319.4	323.0	326.2	326.3
42°	305.4	302.7	301.2	301.8	304.9	308.3	312.5	316.9	320.3	323.6	324.5
42.5°	302.6	299.9	298.2	298.9	302.0	305.4	309.7	314.0	317.9	320.5	323.0
43°	299.7	296.8	295.1	296.1	299.1	302.5	306.9	311.7	315.1	318.0	319.7
43.5°	296.6	293.7	292.1	292.9	296.1	299.6	303.9	308.5	312.0	315.2	316.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	287.7	284.4	283.2	283.6	287.1	290.7	295.1	299.8	304.1	306.7	308.0
45.5°	284.6	281.2	280.2	280.6	284.2	287.7	292.2	296.9	301.1	303.7	305.1
46°	281.5	278.3	277.0	277.9	281.2	284.7	289.3	293.9	298.1	301.1	302.5
46.5°	278.5	275.5	274.1	274.7	278.0	281.6	286.3	291.1	295.2	298.0	299.1
47°	275.3	272.3	270.7	270.8	274.8	278.5	283.0	288.0	291.8	295.2	296.0
47.5°	271.9	269.2	267.3	267.5	271.8	275.4	279.9	284.9	289.0	292.2	292.7
48°	269.0	265.8	264.3	264.6	268.5	272.2	276.8	282.0	285.7	289.1	290.3
48.5°	265.7	262.8	260.9	261.2	265.3	269.2	273.8	279.0	282.8	286.0	287.5
49°	262.6	259.5	257.8	258.4	262.1	265.8	270.7	275.6	279.9	283.1	283.9
49.5°	259.3	256.5	254.6	255.1	259.1	262.7	267.5	272.4	276.6	279.7	280.7
50°	256.1	253.1	251.4	251.9	255.9	259.6	264.3	269.5	273.6	276.5	277.7
50.5°	253.0	249.5	248.0	248.6	252.6	256.5	260.9	266.2	270.0	273.0	274.7
51°	249.7	246.3	244.4	245.1	249.4	253.1	257.8	262.9	267.2	269.7	271.7
51.5°	246.2	243.0	241.0	241.8	246.1	250.0	254.7	259.7	263.9	267.2	268.1
52°	242.9	239.7	237.9	238.7	242.9	246.7	251.5	256.7	260.8	263.8	265.3
52.5°	239.5	236.3	234.8	235.3	239.5	243.3	248.2	253.2	257.7	260.8	262.1
53°	236.0	232.9	231.5	231.9	236.2	240.2	244.8	250.0	254.7	257.6	258.7
53.5°	232.7	229.5	227.9	228.4	232.8	236.8	241.6	246.8	251.1	254.1	255.8
54°	229.4	225.9	224.3	225.3	229.6	233.4	238.3	243.3	247.8	250.8	252.1
54.5°	226.0	222.7	221.2	222.2	226.1	230.0	235.0	240.1	244.8	248.3	249.1
55°	222.6	219.3	218.0	218.8	222.8	226.7	231.7	236.9	241.5	245.0	246.0
55.5°	219.1	215.8	214.8	215.2	219.3	223.4	228.1	233.5	237.9	241.4	242.1
56°	215.8	212.4	210.7	211.6	216.0	220.0	224.9	230.5	234.6	238.2	239.3
56.5°	212.3	209.1	207.7	208.2	212.5	216.6	221.5	226.7	231.2	235.2	235.8
57°	208.7	205.4	203.8	204.4	209.0	213.3	218.3	223.6	228.2	231.4	232.7
57.5°	205.3	201.8	200.4	200.9	205.6	209.7	214.6	220.3	224.9	227.7	229.4
58°	201.8	198.5	196.9	197.3	202.1	206.3	211.3	216.7	221.6	224.0	225.9
58.5°	198.4	195.1	193.4	193.7	198.5	202.6	207.8	213.3	217.5	221.3	222.6
59°	194.7	191.4	189.6	190.2	195.1	199.2	204.5	209.9	214.4	217.9	218.9
59.5°	191.3	187.9	186.0	186.8	191.3	195.6	200.9	206.5	211.1	214.4	215.6
60°	187.7	184.2	182.4	183.1	188.0	192.1	197.4	202.9	207.9	210.8	211.9
60.5°	184.1	180.7	179.1	179.6	184.3	188.7	193.8	199.3	204.1	207.2	208.7
61°	180.5	177.1	175.4	176.2	180.8	185.0	190.3	195.8	200.5	203.4	205.0
61.5°	177.1	173.6	172.0	172.7	177.2	181.5	186.9	192.5	196.9	199.9	201.5
62°	173.4	169.9	168.2	169.0	173.6	177.9	183.3	188.7	193.5	196.5	198.3
62.5°	169.8	166.4	164.7	165.4	169.9	174.2	179.6	185.3	190.0	193.0	194.5
63°	166.2	162.7	161.1	161.7	166.4	170.6	176.1	181.7	186.4	189.3	190.8
63.5°	162.6	159.1	157.5	158.0	162.7	167.1	172.5	178.1	183.0	185.9	187.6
64°	159.1	155.6	153.9	154.7	159.1	163.4	168.8	174.6	179.3	182.2	183.9
64.5°	155.6	152.0	150.2	150.9	155.5	159.7	165.2	170.8	175.6	178.9	180.1
65°	151.9	148.5	146.6	147.4	152.0	156.3	161.5	167.2	172.0	175.1	176.5
65.5°	148.3	144.8	143.0	143.7	148.4	152.8	158.0	163.5	168.2	171.5	172.9
66°	144.5	141.0	139.4	140.0	144.5	149.0	154.4	159.7	164.7	167.5	169.3





TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	133.8	130.4	128.6	129.2	133.6	138.2	143.4	149.0	153.7	157.1	158.2
68°	130.2	126.7	124.9	125.5	130.1	134.6	139.9	145.3	150.2	153.2	154.8
68.5°	126.7	123.2	121.4	122.1	126.6	130.8	136.3	141.6	146.5	149.9	150.9
69°	122.9	119.5	118.1	118.5	123.1	127.3	132.8	138.1	143.0	146.0	147.4
69.5°	119.3	116.0	114.3	115.0	119.4	123.8	129.2	134.6	139.3	142.7	144.0
70°	115.7	112.4	110.8	111.3	115.9	120.3	125.5	130.8	135.7	139.0	140.3
70.5°	112.3	108.7	107.2	107.7	112.4	116.7	121.9	127.4	132.0	135.3	136.4
71°	108.6	105.1	103.7	104.1	108.8	113.1	118.4	124.1	128.4	131.7	133.1
71.5°	105.3	101.7	100.0	100.6	105.3	109.6	114.8	120.2	124.9	128.1	129.4
72°	101.5	98.2	96.5	97.2	101.7	106.0	111.2	116.7	121.4	124.4	126.2
72.5°	98.0	94.7	92.9	93.7	98.2	102.4	107.7	113.2	117.7	121.2	122.2
73°	94.4	91.1	89.5	90.1	94.7	98.8	104.1	109.6	114.0	117.6	118.7
73.5°	91.1	87.8	86.1	86.7	91.2	95.4	100.7	106.0	110.4	113.8	115.2
74°	87.7	84.3	82.5	83.2	87.8	91.8	97.0	102.6	106.9	110.3	111.5
74.5°	84.2	80.8	79.0	79.8	84.3	88.5	93.7	99.1	103.4	106.7	107.9
75°	80.8	77.3	75.5	76.3	80.8	85.1	90.2	95.4	100.1	103.3	104.3
75.5°	77.3	73.8	72.1	72.8	77.3	81.7	86.7	91.9	96.4	99.6	101.0
76°	73.7	70.4	68.8	69.3	73.9	78.2	83.3	88.6	92.9	96.0	97.5
76.5°	70.3	66.9	65.3	65.9	70.5	74.7	79.8	85.0	89.5	92.4	93.5
77°	66.9	63.6	62.0	62.6	67.1	71.4	76.5	81.6	86.1	89.2	90.2
77.5°	63.6	60.2	58.7	59.3	63.9	68.2	73.1	78.3	82.7	85.8	87.0
78°	60.3	57.0	55.6	56.1	60.6	64.7	69.8	74.8	79.2	82.4	83.5
78.5°	57.0	53.9	52.3	52.9	57.3	61.5	66.3	71.4	75.8	78.9	80.2
79°	53.9	50.5	49.0	49.7	54.2	58.2	63.1	67.9	72.4	75.4	76.5
79.5°	50.6	47.3	45.7	46.4	50.9	55.0	59.8	64.8	69.1	72.0	73.2
80°	47.4	44.2	42.7	43.2	47.7	51.8	56.4	61.4	65.6	68.5	69.9
80.5°	44.2	41.1	39.6	40.2	44.6	48.6	53.3	58.1	62.3	65.3	66.2
81°	41.1	38.1	36.5	37.1	41.6	45.5	50.2	55.1	59.1	62.0	63.1
81.5°	37.9	34.9	33.4	34.1	38.5	42.3	47.0	51.8	55.9	58.6	59.9
82°	35.0	32.0	30.6	31.0	35.5	39.3	44.0	48.6	52.7	55.4	56.6
82.5°	31.8	29.0	27.6	28.0	32.5	36.3	40.7	45.6	49.6	52.3	53.5
83°	28.9	26.1	24.6	25.1	29.5	33.4	38.1	42.4	46.4	49.1	50.4
83.5°	26.1	23.2	22.0	22.3	26.7	30.4	34.9	39.4	43.3	46.0	47.2
84°	23.1	20.6	19.1	19.6	23.9	27.5	31.9	36.3	40.2	42.8	44.0
84.5°	20.5	17.9	16.5	16.9	21.3	24.7	29.1	33.4	37.2	39.9	41.1
85°	17.8	15.2	13.8	14.2	18.6	22.1	26.1	30.5	34.2	37.0	38.0
85.5°	15.2	12.7	11.4	11.6	15.9	19.4	23.4	27.6	31.4	34.0	34.9
86°	12.6	10.2	9.0	9.4	13.2	16.7	20.7	24.8	28.4	31.0	31.9
86.5°	10.2	7.9	6.6	6.9	10.7	13.9	18.0	22.1	25.6	28.1	29.1
87°	7.9	5.7	4.4	4.7	8.2	11.4	15.3	19.4	22.8	25.4	26.3
87.5°	5.8	3.2	2.2	2.4	5.9	9.0	12.7	16.7	20.2	22.5	23.5
88°	3.2	1.3	0.8	1.0	3.6	6.6	10.2	14.1	17.6	20.0	20.9
88.5°	1.3	0.7	0.5	0.6	1.5	4.3	7.7	11.5	14.8	17.2	18.2



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.6	0.5	0.5	0.5	0.4	0.5	0.9	4.4	7.4	9.6	10.5
90.5°	0.6	0.5	0.5	0.5	0.3	0.4	0.5	1.9	5.0	7.1	7.9
91°	0.5	0.5	0.5	0.5	0.3	0.4	0.5	0.5	2.6	4.7	5.6
91.5°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.5	0.8	2.2	3.2
92°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.5	0.4	0.6	0.8
92.5°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.5	0.4	0.4
93°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.3	0.3
93.5°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.3	0.3
94°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.3	0.4
94.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.3	0.4
95°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.3	0.4
95.5°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.3	0.4
96°	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.3	0.4
96.5°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.4
97°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.4
97.5°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.4
98°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.4
98.5°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.4
99°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.5
99.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
100°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.5
100.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.5
101°	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.5
101.5°	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.5
102°	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.5
102.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5
103°	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.6
103.5°	0.7	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.5	0.5
104°	0.7	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5
104.5°	0.6	0.5	0.5	0.5	0.7	0.6	0.6	0.6	0.6	0.5	0.5
105°	0.6	0.5	0.5	0.5	0.7	0.6	0.6	0.6	0.6	0.5	0.5
105.5°	0.7	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.5	0.5
106°	0.7	0.6	0.7	0.5	0.6	0.6	0.7	0.7	0.7	0.5	0.5
106.5°	0.7	0.5	0.7	0.7	0.6	0.7	0.6	0.6	0.7	0.5	0.5
107°	0.7	0.7	0.7	0.8	0.6	0.6	0.6	0.6	0.7	0.5	0.5
107.5°	0.7	0.8	0.8	0.9	0.6	0.6	0.7	0.6	0.7	0.5	0.6
108°	0.8	0.8	0.8	0.9	0.6	0.7	0.7	0.7	0.7	0.5	0.6
108.5°	0.8	0.8	0.8	1.0	0.6	0.7	0.7	0.7	0.7	0.5	0.6
109°	0.8	0.8	0.8	1.1	0.6	0.7	0.7	0.7	0.7	0.5	0.5
109.5°	0.8	1.0	0.8	1.1	0.7	0.7	0.7	0.7	0.7	0.5	0.5
110°	0.8	1.0	0.8	1.1	0.7	0.7	0.8	0.7	0.7	0.5	0.7
110.5°	0.8	0.9	0.8	1.2	0.7	0.7	0.8	0.7	0.7	0.5	0.7
111°	0.8	1.0	0.8	1.2	0.7	0.7	0.8	0.7	0.7	0.5	0.7



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.1	1.1	1.0	1.2	1.3	1.2	1.4	1.3	1.4	1.3	1.3
135.5°	1.1	1.1	1.0	1.2	1.4	1.2	1.4	1.3	1.4	1.3	1.3
136°	1.1	1.2	1.1	1.2	1.4	1.2	1.4	1.3	1.4	1.4	1.3
136.5°	1.1	1.1	1.1	1.2	1.4	1.2	1.4	1.3	1.4	1.3	1.4
137°	1.1	1.2	1.2	1.2	1.4	1.2	1.4	1.3	1.4	1.3	1.4
137.5°	1.1	1.2	1.1	1.2	1.4	1.2	1.4	1.3	1.4	1.3	1.4
138°	1.1	1.2	1.2	1.2	1.4	1.3	1.4	1.4	1.4	1.4	1.4
138.5°	1.1	1.3	1.2	1.2	1.4	1.3	1.4	1.4	1.4	1.4	1.4
139°	1.2	1.3	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
139.5°	1.1	1.2	1.2	1.2	1.5	1.4	1.5	1.4	1.5	1.4	1.4
140°	1.1	1.3	1.2	1.2	1.5	1.4	1.5	1.4	1.5	1.4	1.5
140.5°	1.2	1.3	1.2	1.2	1.5	1.4	1.5	1.4	1.5	1.4	1.5
141°	1.2	1.4	1.2	1.2	1.6	1.4	1.6	1.4	1.5	1.4	1.5
141.5°	1.2	1.4	1.3	1.2	1.5	1.4	1.6	1.4	1.5	1.4	1.5
142°	1.2	1.6	1.3	1.2	1.6	1.4	1.5	1.4	1.6	1.4	1.6
142.5°	1.2	1.6	1.2	1.4	1.6	1.4	1.5	1.4	1.6	1.4	1.6
143°	1.3	1.8	1.3	1.4	1.6	1.4	1.5	1.5	1.6	1.4	1.6
143.5°	1.4	1.8	1.4	1.3	1.6	1.4	1.6	1.5	1.6	1.4	1.6
144°	1.4	1.8	1.4	1.3	1.6	1.4	1.6	1.5	1.6	1.6	1.6
144.5°	1.4	1.8	1.4	1.4	1.8	1.4	1.6	1.6	1.6	1.6	1.6
145°	1.4	1.9	1.6	1.4	1.8	1.5	1.6	1.6	1.7	1.6	1.6
145.5°	1.4	1.9	1.6	1.6	1.8	1.5	1.6	1.6	1.6	1.6	1.7
146°	1.5	2.0	1.8	1.6	1.8	1.5	1.6	1.6	1.6	1.6	1.7
146.5°	1.6	2.0	1.8	1.8	1.8	1.5	1.6	1.6	1.8	1.6	1.6
147°	1.6	2.0	2.0	1.9	1.8	1.6	1.6	1.7	1.7	1.8	1.8
147.5°	1.8	2.0	1.9	2.0	1.8	1.6	1.7	1.7	1.7	1.8	1.8
148°	1.8	2.0	1.9	2.0	1.9	1.7	1.7	1.6	1.8	1.8	1.8
148.5°	1.8	2.0	1.9	2.1	1.8	1.7	1.7	1.6	1.8	1.8	1.8
149°	1.9	2.0	2.0	2.1	1.8	1.7	1.7	1.6	1.8	1.8	1.8
149.5°	2.0	2.0	1.9	2.0	1.8	1.7	1.8	1.6	1.8	1.8	1.8
150°	2.0	2.0	1.9	2.0	1.8	1.8	1.7	1.8	1.8	1.8	1.8
150.5°	1.9	2.0	2.0	2.0	1.8	1.8	1.7	1.8	2.0	1.8	1.8
151°	1.9	2.0	2.0	2.0	1.8	1.8	1.8	1.9	1.9	1.8	1.9
151.5°	1.9	2.0	2.0	2.0	1.8	1.8	1.8	1.9	2.0	1.8	1.9
152°	1.9	2.0	2.0	2.0	1.9	1.8	1.8	1.8	2.0	2.0	1.9
152.5°	1.9	2.0	2.0	2.0	1.9	1.8	1.9	1.9	2.0	2.0	2.0
153°	1.9	2.0	2.0	2.0	2.0	1.8	1.9	2.0	2.1	2.0	2.0
153.5°	1.9	2.0	2.0	2.0	2.0	1.8	1.9	2.0	2.1	2.1	2.0
154°	1.9	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.2	2.1	2.0
154.5°	1.9	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.2	2.1	2.1
155°	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.1
155.5°	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.3	2.2	2.1
156°	1.9	2.0	2.0	2.0	2.1	2.1	2.0	2.2	2.2	2.2	2.2



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.9	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.4	2.3	2.1
158°	1.9	2.1	2.1	2.2	2.2	2.3	2.2	2.4	2.4	2.2	2.1
158.5°	2.0	2.0	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.2	2.1
159°	2.1	2.0	2.1	2.2	2.2	2.2	2.3	2.4	2.4	2.2	2.1
159.5°	2.2	2.1	2.1	2.2	2.2	2.4	2.4	2.4	2.5	2.2	2.1
160°	2.2	2.2	2.2	2.2	2.2	2.4	2.4	2.4	2.5	2.2	2.1
160.5°	2.1	2.2	2.2	2.2	2.2	2.4	2.4	2.4	2.5	2.2	2.1
161°	2.1	2.2	2.3	2.3	2.2	2.4	2.4	2.4	2.6	2.2	2.1
161.5°	2.1	2.3	2.2	2.2	2.2	2.4	2.4	2.4	2.6	2.2	2.1
162°	2.1	2.2	2.2	2.2	2.2	2.4	2.4	2.5	2.6	2.2	2.1
162.5°	2.1	2.2	2.2	2.2	2.3	2.4	2.5	2.5	2.9	2.2	2.1
163°	2.1	2.4	2.3	2.2	2.2	2.4	2.5	2.5	2.5	2.2	2.2
163.5°	2.1	2.4	2.3	2.2	2.2	2.4	2.5	2.5	2.4	2.2	2.1
164°	2.1	2.4	2.4	2.2	2.2	2.4	2.6	2.5	2.6	2.2	2.1
164.5°	2.2	2.4	2.4	2.2	2.2	2.4	2.9	2.5	2.6	2.2	2.7
165°	2.2	2.4	2.3	2.2	2.2	2.4	2.5	2.5	2.5	2.2	2.4
165.5°	2.2	2.4	2.3	2.2	2.2	2.4	2.6	2.5	2.5	2.2	2.4
166°	2.2	2.4	2.3	2.2	2.2	2.4	2.6	2.6	2.5	2.2	2.4
166.5°	2.2	2.4	2.3	2.2	2.3	2.4	2.6	2.6	2.5	2.2	2.4
167°	2.2	2.5	2.3	2.2	2.4	2.4	2.6	2.5	2.5	2.2	2.4
167.5°	2.2	2.6	2.3	2.2	2.3	2.4	2.6	2.6	2.5	2.2	2.4
168°	2.2	2.6	2.3	2.2	2.3	2.4	2.6	2.7	2.5	2.2	2.4
168.5°	2.2	2.6	2.3	2.2	2.4	2.4	2.6	2.7	2.5	2.2	2.4
169°	2.2	2.7	2.3	2.2	2.4	2.4	2.6	2.7	2.5	2.2	2.4
169.5°	2.2	2.6	2.3	2.2	2.4	2.4	2.6	2.7	2.5	2.2	2.4
170°	2.2	2.6	2.3	2.2	2.4	2.4	2.6	2.8	2.5	2.2	2.4
170.5°	2.2	2.6	2.3	2.2	2.4	2.4	2.6	2.8	2.5	2.2	2.4
171°	2.2	2.6	2.3	2.2	2.4	2.4	2.6	2.8	2.5	2.2	2.4
171.5°	2.2	2.6	2.3	2.2	2.5	2.4	2.6	2.8	2.5	2.2	2.4
172°	2.2	2.6	2.3	2.2	2.6	2.4	2.6	2.8	2.5	2.2	2.4
172.5°	2.2	2.6	2.3	2.2	2.5	2.4	2.6	2.8	2.5	2.2	2.4
173°	2.2	2.6	2.3	2.2	2.5	2.4	2.6	2.8	2.5	2.2	2.4
173.5°	2.2	2.6	2.3	2.2	2.5	2.4	2.6	2.8	2.5	2.2	2.4
174°	2.2	2.6	2.3	2.2	2.5	2.4	2.6	3.0	2.5	2.2	2.4
174.5°	2.2	2.6	2.3	2.2	2.5	2.4	2.6	2.9	2.5	2.2	2.4
175°	2.2	2.6	2.3	2.2	2.5	2.4	2.6	2.9	2.5	2.2	2.4
175.5°	2.2	2.6	2.3	2.2	2.5	2.4	2.6	2.9	2.5	2.2	2.4
176°	2.2	2.5	2.3	2.2	2.5	2.4	2.7	2.9	2.5	2.2	2.4
176.5°	2.2	2.5	2.3	2.2	2.5	2.4	2.7	2.9	2.5	2.2	2.4
177°	2.2	2.4	2.3	2.2	2.6	2.4	2.7	2.9	2.5	2.2	2.4
177.5°	2.2	2.4	2.3	2.2	2.6	2.4	2.7	2.9	2.5	2.2	2.4
178°	2.2	2.4	2.3	2.2	2.6	2.4	2.7	2.9	2.5	2.2	2.4
178.5°	2.2	2.4	2.3	2.2	2.9	2.4	2.8	2.9	2.5	2.2	2.4



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	443.2	443.2	443.2	443.2	443.2	443.2
0.5°	443.7	442.6	442.3	442.5	442.5	443.1
1°	444.2	442.8	442.3	442.4	442.4	442.0
1.5°	442.3	442.8	442.4	442.3	442.4	442.3
2°	443.6	442.7	442.2	442.1	442.1	442.1
2.5°	442.8	442.8	442.1	442.0	441.7	441.8
3°	441.7	442.5	442.0	441.9	441.7	441.3
3.5°	443.1	442.5	441.8	441.4	441.4	441.0
4°	442.4	442.1	441.4	441.3	441.1	440.7
4.5°	440.9	442.0	441.1	440.9	440.6	440.2
5°	440.7	441.6	440.9	440.8	440.1	440.1
5.5°	441.8	441.5	440.5	440.2	439.7	439.5
6°	442.2	441.0	440.1	439.7	438.9	438.7
6.5°	439.7	440.7	439.7	439.2	438.4	438.1
7°	441.9	440.2	439.2	438.4	437.7	436.6
7.5°	442.2	439.7	438.6	437.7	437.2	435.9
8°	439.5	439.3	438.2	437.2	436.3	435.3
8.5°	439.3	438.7	437.6	436.6	435.9	434.5
9°	439.5	438.1	436.9	435.8	434.7	433.6
9.5°	438.5	437.5	436.3	435.1	434.2	432.6
10°	437.1	436.7	435.7	434.3	433.1	432.1
10.5°	436.6	436.0	434.5	433.7	432.6	431.2
11°	437.7	435.3	434.0	432.7	431.4	429.9
11.5°	436.0	434.7	433.0	431.9	430.4	429.0
12°	434.6	433.9	432.2	430.9	429.4	428.2
12.5°	434.4	432.9	431.2	429.9	428.5	426.6
13°	432.5	432.0	430.3	429.0	427.3	425.8
13.5°	432.0	431.2	429.0	427.9	426.3	424.8
14°	431.6	430.0	428.1	426.9	425.0	423.1
14.5°	431.5	429.0	427.1	426.0	424.1	422.2
15°	429.8	427.9	426.1	424.8	422.9	420.9
15.5°	427.9	426.7	425.0	423.5	421.7	419.8
16°	426.8	425.6	423.9	422.1	420.2	418.7
16.5°	426.2	424.6	422.6	421.0	418.9	417.4
17°	425.3	423.2	421.6	419.6	417.5	415.5
17.5°	424.4	422.2	420.2	418.3	416.3	414.6
18°	422.7	420.7	419.0	417.0	414.7	412.8
18.5°	421.3	419.6	417.4	415.5	413.4	411.2
19°	419.8	418.0	415.9	414.1	411.8	409.6
19.5°	418.6	417.0	414.6	412.6	410.3	408.0
20°	417.0	415.3	413.1	410.9	408.6	406.4
20.5°	416.1	414.0	411.4	409.3	407.0	404.9
21°	414.7	412.3	410.1	407.5	405.6	403.3



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	409.8	407.8	405.3	402.8	400.1	397.7
23°	408.4	405.9	403.8	401.2	398.3	396.1
23.5°	406.9	404.5	402.0	399.4	396.7	394.0
24°	406.1	402.7	400.4	397.6	394.8	392.1
24.5°	403.6	400.9	398.4	396.0	393.1	390.2
25°	401.6	399.1	396.7	394.1	391.0	388.5
25.5°	400.4	397.4	394.6	392.2	389.3	386.6
26°	398.7	395.5	393.1	390.2	387.2	384.4
26.5°	396.6	393.8	391.2	388.4	385.3	382.6
27°	394.5	391.8	389.3	386.1	383.3	380.2
27.5°	391.8	390.0	387.2	384.3	381.1	378.4
28°	389.4	387.9	385.3	382.2	379.0	376.1
28.5°	387.7	386.0	383.3	380.3	377.0	374.2
29°	386.5	383.9	381.2	378.0	374.8	371.9
29.5°	385.0	382.1	379.1	376.1	372.7	369.7
30°	383.6	379.7	377.2	373.7	370.4	367.3
30.5°	380.5	377.7	374.9	371.7	368.2	365.1
31°	378.5	375.3	372.7	369.2	366.0	362.8
31.5°	376.4	373.3	370.5	367.2	363.7	360.7
32°	373.3	371.0	368.2	364.8	361.3	358.0
32.5°	372.4	368.8	365.9	362.7	358.9	355.8
33°	369.8	366.5	363.7	360.1	356.7	353.5
33.5°	367.1	364.3	361.2	357.8	354.5	350.9
34°	365.0	361.8	359.1	355.5	352.0	348.4
34.5°	362.7	359.6	356.8	353.1	349.4	346.0
35°	360.4	357.3	354.2	350.6	347.0	343.6
35.5°	358.3	355.1	351.8	348.2	344.5	341.1
36°	356.5	352.5	349.5	345.8	341.8	338.5
36.5°	353.8	350.1	346.9	343.1	339.3	335.7
37°	350.5	347.6	344.4	340.5	336.7	333.1
37.5°	348.2	345.1	341.8	338.0	334.0	330.5
38°	345.3	342.3	339.4	335.4	331.3	327.7
38.5°	343.1	339.9	336.5	332.8	328.7	325.0
39°	340.0	337.2	334.0	330.1	326.0	322.3
39.5°	336.9	334.7	331.3	327.5	323.2	319.5
40°	334.9	331.9	328.7	324.7	320.6	316.8
40.5°	332.3	329.4	326.1	322.0	317.8	313.9
41°	328.8	326.7	323.3	319.3	315.1	311.1
41.5°	326.9	324.0	320.5	316.4	312.1	308.3
42°	324.3	321.1	317.8	313.6	309.3	305.4
42.5°	321.9	318.4	314.8	310.7	306.4	302.6
43°	319.2	315.4	312.0	307.9	303.5	299.7
43.5°	316.0	312.5	309.0	304.9	300.5	296.6





TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	307.3	303.9	300.2	296.3	291.7	287.7
45.5°	304.4	301.0	297.3	293.4	288.8	284.6
46°	301.2	298.0	294.2	290.1	285.7	281.5
46.5°	298.0	295.0	291.3	287.1	282.6	278.5
47°	295.5	292.0	288.5	284.0	279.6	275.3
47.5°	292.7	288.9	285.3	280.8	276.5	271.9
48°	290.2	285.9	282.2	277.7	273.3	269.0
48.5°	286.9	282.9	279.3	274.6	270.0	265.7
49°	283.7	279.7	276.1	271.4	266.8	262.6
49.5°	280.6	276.5	273.0	268.3	263.7	259.3
50°	277.7	273.3	269.8	265.0	260.5	256.1
50.5°	274.4	270.2	266.5	261.8	257.3	253.0
51°	271.0	267.0	263.3	258.6	253.9	249.7
51.5°	267.8	263.8	260.1	255.5	250.7	246.2
52°	264.6	260.6	256.9	252.2	247.4	242.9
52.5°	261.3	257.3	253.6	248.8	244.0	239.5
53°	258.4	254.1	250.3	245.6	240.7	236.0
53.5°	255.3	250.7	246.8	242.2	237.3	232.7
54°	251.9	247.5	243.6	238.9	233.9	229.4
54.5°	248.4	244.2	240.2	235.5	230.5	226.0
55°	245.6	240.9	237.0	232.1	227.1	222.6
55.5°	242.4	237.5	233.5	228.6	223.7	219.1
56°	238.9	234.1	230.1	225.3	220.3	215.8
56.5°	235.3	230.7	226.7	221.9	217.0	212.3
57°	231.8	227.2	223.5	218.5	213.5	208.7
57.5°	228.5	224.0	219.9	215.1	210.0	205.3
58°	224.9	220.5	216.8	211.7	206.6	201.8
58.5°	221.5	217.4	213.1	208.3	203.1	198.4
59°	218.0	213.8	209.7	204.7	199.6	194.7
59.5°	214.9	210.4	206.2	201.2	195.9	191.3
60°	211.5	206.7	202.7	197.6	192.5	187.7
60.5°	207.9	203.4	199.2	194.1	189.0	184.1
61°	204.5	199.8	195.7	190.8	185.5	180.5
61.5°	201.1	196.5	192.2	187.2	181.9	177.1
62°	197.6	192.7	188.6	183.5	178.3	173.4
62.5°	193.9	189.3	185.1	180.0	174.5	169.8
63°	190.1	185.7	181.5	176.4	171.1	166.2
63.5°	186.3	182.2	178.0	172.9	167.6	162.6
64°	182.9	178.7	174.4	169.3	163.9	159.1
64.5°	179.2	175.1	170.7	165.8	160.4	155.6
65°	175.6	171.3	167.2	162.1	156.9	151.9
65.5°	172.1	167.8	163.6	158.5	153.3	148.3
66°	168.4	164.1	159.9	154.9	149.6	144.5



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	157.4	153.5	149.4	144.2	138.8	133.8
68°	154.2	149.8	145.5	140.5	135.2	130.2
68.5°	150.5	146.2	141.9	136.9	131.5	126.7
69°	147.1	142.5	138.5	133.2	127.9	122.9
69.5°	143.2	138.8	134.8	129.5	124.3	119.3
70°	139.5	135.4	131.2	126.0	120.7	115.7
70.5°	136.4	131.8	127.6	122.4	117.2	112.3
71°	132.7	128.0	123.9	118.9	113.6	108.6
71.5°	128.8	124.5	120.6	115.3	110.1	105.3
72°	124.6	121.0	117.1	111.8	106.5	101.5
72.5°	121.4	117.3	113.3	108.3	102.9	98.0
73°	118.0	113.8	109.8	104.6	99.3	94.4
73.5°	114.6	110.3	106.2	101.1	95.7	91.1
74°	110.7	106.7	102.7	97.6	92.4	87.7
74.5°	107.0	103.2	99.2	94.2	88.9	84.2
75°	103.7	99.5	95.7	90.6	85.5	80.8
75.5°	100.2	96.1	92.1	87.2	82.1	77.3
76°	96.4	92.5	88.8	83.8	78.5	73.7
76.5°	93.0	89.2	85.3	80.4	75.1	70.3
77°	89.4	85.8	81.8	76.8	71.6	66.9
77.5°	86.3	82.3	78.3	73.4	68.2	63.6
78°	82.8	78.8	74.9	70.0	64.8	60.3
78.5°	79.2	75.4	71.4	66.6	61.6	57.0
79°	75.9	71.9	68.0	63.3	58.1	53.9
79.5°	72.5	68.5	64.9	60.0	54.9	50.6
80°	69.1	65.1	61.2	56.8	51.8	47.4
80.5°	65.8	61.7	58.1	53.5	48.6	44.2
81°	62.6	58.5	55.1	50.3	45.4	41.1
81.5°	59.1	55.5	51.8	47.1	42.3	37.9
82°	55.9	52.2	48.6	44.0	39.2	35.0
82.5°	52.8	48.9	45.1	40.8	36.1	31.8
83°	49.6	45.7	42.5	37.8	33.1	28.9
83.5°	46.5	42.5	38.8	34.7	29.9	26.1
84°	43.4	39.4	36.1	31.6	27.1	23.1
84.5°	40.2	36.3	33.0	28.5	24.1	20.5
85°	37.3	33.3	29.9	25.6	21.5	17.8
85.5°	34.3	30.4	27.0	22.8	18.8	15.2
86°	31.5	27.3	24.2	20.1	16.0	12.6
86.5°	28.6	24.4	21.3	17.5	13.3	10.2
87°	25.6	21.7	18.6	14.6	10.9	7.9
87.5°	22.8	18.9	15.8	12.1	8.6	5.8
88°	20.3	16.2	13.1	9.7	6.4	3.2
88.5°	17.6	13.6	10.7	7.2	4.0	1.3



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	9.7	6.1	3.1	1.0	0.7	0.6
90.5°	7.2	3.6	1.5	0.7	0.6	0.6
91°	4.9	1.6	0.6	0.6	0.6	0.5
91.5°	2.5	0.5	0.6	0.6	0.6	0.5
92°	0.6	0.5	0.3	0.6	0.5	0.5
92.5°	0.4	0.5	0.3	0.5	0.5	0.5
93°	0.4	0.5	0.4	0.5	0.5	0.5
93.5°	0.4	0.5	0.4	0.5	0.5	0.5
94°	0.4	0.5	0.4	0.5	0.5	0.5
94.5°	0.4	0.5	0.5	0.5	0.5	0.5
95°	0.4	0.5	0.4	0.5	0.5	0.5
95.5°	0.4	0.5	0.4	0.5	0.5	0.5
96°	0.4	0.5	0.4	0.5	0.5	0.5
96.5°	0.4	0.5	0.3	0.5	0.5	0.5
97°	0.4	0.5	0.4	0.5	0.5	0.5
97.5°	0.5	0.5	0.6	0.5	0.5	0.5
98°	0.5	0.5	0.3	0.5	0.5	0.5
98.5°	0.5	0.5	0.4	0.5	0.5	0.5
99°	0.5	0.5	0.7	0.5	0.5	0.5
99.5°	0.5	0.5	0.7	0.5	0.5	0.5
100°	0.5	0.5	0.7	0.5	0.5	0.5
100.5°	0.5	0.5	0.7	0.5	0.5	0.5
101°	0.5	0.5	0.7	0.5	0.5	0.5
101.5°	0.5	0.5	0.7	0.5	0.5	0.5
102°	0.5	0.5	0.7	0.5	0.5	0.5
102.5°	0.5	0.5	0.7	0.5	0.5	0.5
103°	0.5	0.5	0.7	0.5	0.5	0.5
103.5°	0.5	0.5	0.7	0.5	0.5	0.7
104°	0.5	0.5	0.2	0.5	0.5	0.7
104.5°	0.6	0.5	0.4	0.5	0.5	0.6
105°	0.6	0.5	0.5	0.5	0.5	0.6
105.5°	0.6	0.5	0.5	0.5	0.5	0.7
106°	0.6	0.5	0.8	0.6	0.5	0.7
106.5°	0.7	0.5	0.4	0.6	0.5	0.7
107°	0.6	0.5	0.5	0.6	0.6	0.7
107.5°	0.6	0.5	0.6	0.8	0.6	0.7
108°	0.7	0.5	0.9	0.9	0.6	0.8
108.5°	0.7	0.5	0.8	0.9	0.8	0.8
109°	0.7	0.5	0.8	1.0	1.0	0.8
109.5°	0.7	0.5	0.8	1.1	1.1	0.8
110°	0.7	0.5	0.8	1.1	1.1	0.8
110.5°	0.7	0.6	0.8	1.2	1.1	0.8
111°	0.7	0.7	0.8	1.1	1.1	0.8



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	1.3	1.2	1.2	1.1	1.1	1.1
135.5°	1.4	1.2	1.2	1.1	1.1	1.1
136°	1.4	1.2	1.2	1.1	1.1	1.1
136.5°	1.4	1.4	1.2	1.1	1.1	1.1
137°	1.5	1.4	1.2	1.2	1.1	1.1
137.5°	1.5	1.4	1.2	1.2	1.1	1.1
138°	1.4	1.6	1.2	1.2	1.1	1.1
138.5°	1.4	1.6	1.2	1.2	1.1	1.1
139°	1.4	1.6	1.2	1.2	1.2	1.2
139.5°	1.5	1.6	1.2	1.2	1.2	1.1
140°	1.5	1.6	1.2	1.2	1.2	1.1
140.5°	1.5	1.6	1.2	1.2	1.3	1.2
141°	1.6	1.6	1.2	1.2	1.2	1.2
141.5°	1.6	1.6	1.2	1.2	1.3	1.2
142°	1.6	1.6	1.2	1.2	1.2	1.2
142.5°	1.6	1.6	1.2	1.2	1.4	1.2
143°	1.6	1.6	1.2	1.2	1.3	1.3
143.5°	1.6	1.7	1.4	1.3	1.4	1.4
144°	1.7	1.7	1.8	1.2	1.5	1.4
144.5°	1.7	1.6	1.8	1.5	1.5	1.4
145°	1.7	1.6	1.8	1.5	1.5	1.4
145.5°	1.7	1.6	1.8	1.7	1.7	1.4
146°	1.7	1.6	1.8	1.7	1.6	1.5
146.5°	1.8	1.6	1.8	1.7	1.7	1.6
147°	1.8	1.7	1.9	1.8	1.8	1.6
147.5°	1.7	1.7	2.0	1.9	2.0	1.8
148°	1.7	1.8	2.0	1.9	2.0	1.8
148.5°	1.8	1.8	2.0	2.0	2.0	1.8
149°	1.8	1.8	2.0	2.0	2.0	1.9
149.5°	1.8	1.8	2.0	2.0	2.0	2.0
150°	1.8	1.9	2.0	2.0	2.0	2.0
150.5°	1.8	2.0	2.0	2.0	2.0	1.9
151°	1.7	2.0	2.0	2.2	2.0	1.9
151.5°	1.7	1.9	2.0	2.2	2.0	1.9
152°	1.7	1.9	2.0	2.1	2.0	1.9
152.5°	1.8	1.9	2.0	2.1	2.0	1.9
153°	1.8	1.9	2.0	2.1	2.0	1.9
153.5°	1.8	1.9	2.0	2.1	2.0	1.9
154°	1.9	1.9	2.0	2.1	2.0	1.9
154.5°	2.0	1.9	2.0	2.1	2.0	1.9
155°	2.0	1.9	2.0	2.1	2.0	1.9
155.5°	2.0	1.9	2.0	2.1	2.0	1.9
156°	2.0	1.9	2.0	2.1	2.0	1.9



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	2.1	1.9	2.0	2.1	2.0	1.9
158°	2.2	1.9	2.0	2.1	2.0	1.9
158.5°	2.2	1.9	2.0	2.1	2.0	2.0
159°	2.2	1.9	2.0	2.1	2.0	2.1
159.5°	2.3	2.0	2.0	2.1	2.0	2.2
160°	2.3	2.0	2.0	2.1	2.0	2.2
160.5°	2.3	2.0	2.0	2.1	2.0	2.1
161°	2.3	2.0	2.0	2.1	2.0	2.1
161.5°	2.3	2.0	2.0	2.1	2.0	2.1
162°	2.3	2.1	2.0	2.1	2.0	2.1
162.5°	2.3	2.1	2.0	2.1	2.0	2.1
163°	2.3	2.0	2.0	2.1	2.0	2.1
163.5°	2.3	2.0	2.0	2.1	2.0	2.1
164°	2.3	2.0	2.0	2.1	2.0	2.1
164.5°	2.3	2.0	2.1	2.1	2.0	2.2
165°	2.3	2.0	2.1	2.1	2.0	2.2
165.5°	2.3	2.0	2.2	2.1	2.0	2.2
166°	2.3	2.0	2.1	2.1	2.0	2.2
166.5°	2.3	2.0	2.1	2.1	2.0	2.2
167°	2.3	2.0	2.1	2.1	2.0	2.2
167.5°	2.3	2.0	2.1	2.1	2.0	2.2
168°	2.3	2.0	2.1	2.1	2.0	2.2
168.5°	2.3	2.1	2.1	2.1	2.0	2.2
169°	2.3	2.1	2.1	2.1	2.0	2.2
169.5°	2.3	2.2	2.1	2.1	2.0	2.2
170°	2.3	2.2	2.1	2.1	2.0	2.2
170.5°	2.3	2.1	2.1	2.1	2.0	2.2
171°	2.3	2.1	2.1	2.1	2.0	2.2
171.5°	2.3	2.1	2.1	2.1	2.0	2.2
172°	2.3	2.1	2.1	2.1	2.0	2.2
172.5°	2.3	2.1	2.1	2.1	2.0	2.2
173°	2.3	2.1	2.1	2.1	2.0	2.2
173.5°	2.3	2.1	2.1	2.1	2.0	2.2
174°	2.3	2.1	2.1	2.1	2.0	2.2
174.5°	2.3	2.1	2.1	2.1	2.0	2.2
175°	2.3	2.1	2.1	2.1	2.0	2.2
175.5°	2.3	2.1	2.1	2.1	2.0	2.2
176°	2.3	2.1	2.1	2.1	2.0	2.2
176.5°	2.3	2.1	2.1	2.1	2.0	2.2
177°	2.3	2.1	2.1	2.1	2.1	2.2
177.5°	2.3	2.1	2.2	2.1	2.1	2.2
178°	2.3	2.2	2.2	2.1	2.1	2.2
178.5°	2.3	2.3	2.4	2.2	2.2	2.2



TEST NUMBER: P417428

CATALOG NUMBER: SMD6R129SWHE - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	2.2	2.2	2.2	2.2	2.2	2.2



Report Generated By E9808895 / USPTCWHP6082093







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







21.5°	401.7	399.8	398.8	399.2	401.3	403.3	405.7	408.3	409.9	412.2	411.6
22°	399.7	398.0	397.0	397.2	399.7	401.7	403.9	406.7	408.8	411.4	410.4



44°	293.6	290.8	289.1	290.0	293.2	296.6	300.9	305.6	309.6	312.3	313.4
44.5°	290.7	287.8	286.0	286.9	290.2	293.6	298.0	302.6	306.6	309.5	311.1



66.5°	141.1	137.5	135.8	136.5	141.1	145.4	150.7	156.3	161.1	164.5	165.7
67°	137.3	133.8	132.1	132.8	137.4	141.8	147.0	152.7	157.4	160.6	161.9



89°	0.6	0.5	0.5	0.6	0.3	2.0	5.4	9.0	12.3	14.5	15.5
89.5°	0.6	0.5	0.5	0.5	0.3	0.5	3.2	6.6	9.8	11.9	12.9





111.5°	0.9	0.9	0.9	1.1	0.7	0.7	0.8	0.7	0.8	0.7	0.7
112°	0.9	0.9	0.8	1.1	0.7	0.7	0.8	0.8	0.8	0.6	0.7



134°	1.2	1.1	1.0	1.2	1.4	1.2	1.4	1.2	1.4	1.3	1.3
134.5°	1.1	1.1	1.0	1.2	1.3	1.2	1.4	1.2	1.4	1.3	1.3



156.5°	1.9	2.0	2.0	2.0	2.2	2.1	2.2	2.2	2.2	2.2	2.1
157°	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.4	2.3	2.1



179°	2.2	2.4	2.3	2.2	2.8	2.4	2.7	3.1	2.5	2.2	2.4
179.5°	2.2	2.4	2.3	2.2	2.9	2.4	2.6	2.9	2.5	2.2	2.4





21.5°	412.9	410.9	408.6	406.3	403.8	401.7
22°	410.7	409.2	406.9	404.6	401.9	399.7



44°	313.3	309.8	306.2	302.0	297.7	293.6
44.5°	310.2	307.0	303.2	299.2	294.7	290.7



66.5°	164.7	160.6	156.4	151.4	145.9	141.1
67°	160.9	157.0	152.9	147.7	142.4	137.3





89°	14.8	10.9	8.0	5.0	1.6	0.6
89.5°	12.2	8.3	5.6	2.3	0.6	0.6



111.5°	0.8	0.8	0.8	1.1	1.2	0.9
112°	0.8	0.7	0.8	1.1	1.1	0.9



134°	1.3	1.2	1.2	1.1	1.1	1.2
134.5°	1.3	1.2	1.2	1.1	1.1	1.1



156.5°	2.1	1.9	2.0	2.1	2.0	1.9
157°	2.1	1.9	2.0	2.1	2.0	2.0



179°	2.3	2.4	2.4	2.3	2.3	2.2
179.5°	2.3	2.4	2.4	2.6	2.4	2.2



(END OF REPORT)