

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: HALO

Report Number: P473755

Luminaire Tested: **HLB4069BLE40AWH-5000K**

Issue Date: 2/2/2021



**Test Information**

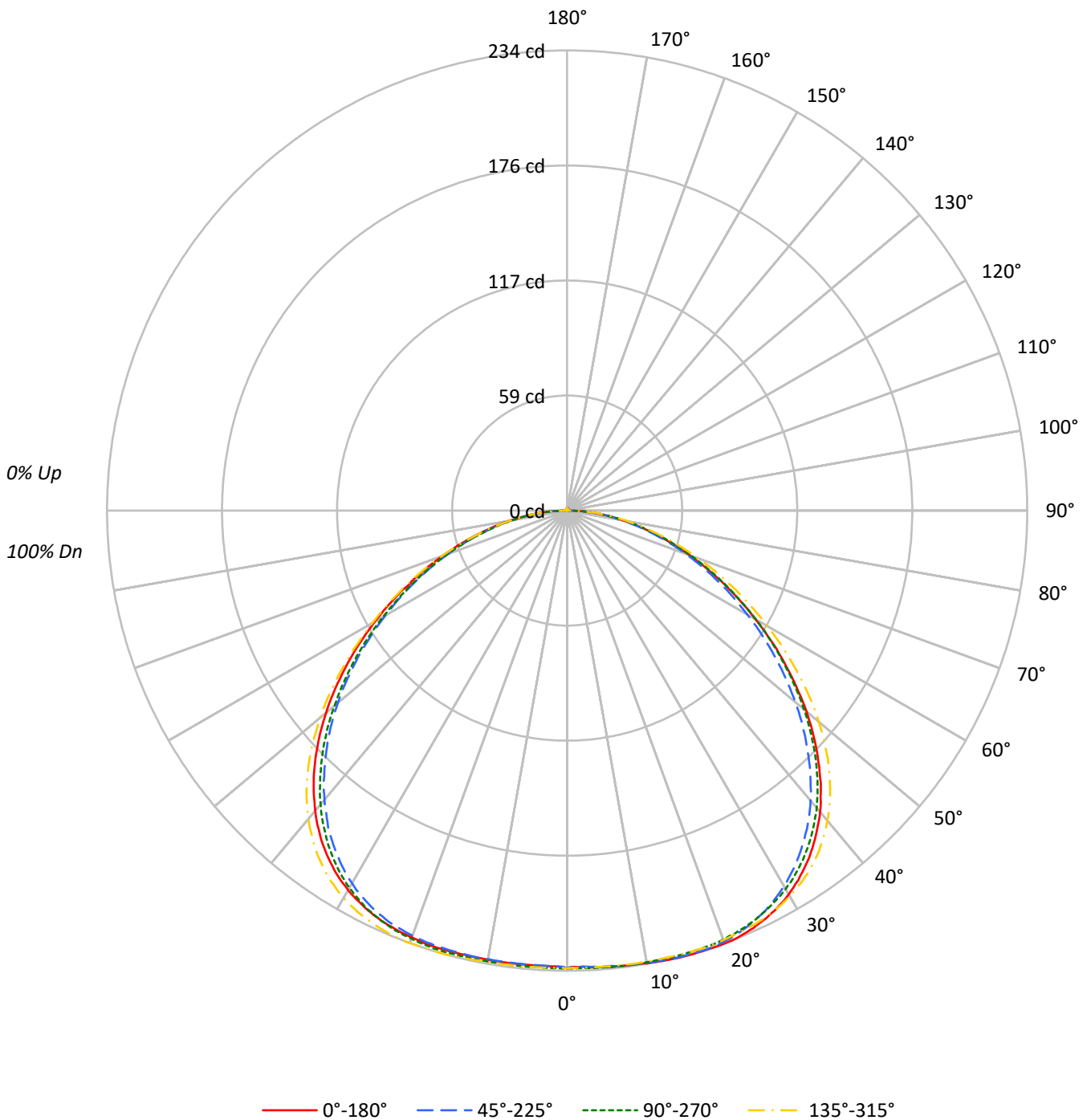
Test Method: LM-79-08  
Report Number: P473755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2008840A001)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/2/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: HLB4069BLE40AWH-5000K  
Description: 4in HALO HOME BLADE  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 742.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.4 / 1.47  
Luminous Opening: Circular (Dia: 0.33m x H: 0m)  
CIE Type: Direct  
  
Input Watts (W): 9.9  
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: HLB4069BLE40AWH-5000K

### 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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	63	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	29	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

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

	0°	90°	180°	270°
0°	2657	2657	2657	2657
5°	2669	2671	2657	2667
10°	2708	2703	2688	2698
15°	2770	2754	2741	2752
20°	2846	2819	2804	2814
25°	2915	2880	2876	2876
30°	2971	2930	2936	2919
35°	2994	2951	2971	2930
40°	2981	2941	2969	2907
45°	2917	2884	2928	2844
50°	2820	2791	2843	2743
55°	2684	2668	2720	2617
60°	2527	2534	2573	2472
65°	2371	2387	2385	2320
70°	2206	2239	2256	2162
75°	2046	2099	2095	2002
80°	1900	1998	1946	1840
85°	1794	2004	1886	1676



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.2	3.0
10°-20°	66.0	8.9
20°-30°	105.8	14.3
30°-40°	132.9	17.9
40°-50°	138.4	18.7
50°-60°	120.4	16.2
60°-70°	87.4	11.8
70°-80°	49.8	6.7
80°-90°	15.6	2.1
90°-100°	0.4	0.1
100°-110°	0.4	0.1
110°-120°	0.4	0.1
120°-130°	0.4	0.1
130°-140°	0.5	0.1
140°-150°	0.5	0.1
150°-160°	0.4	0.1
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	194.0	26.1
0°-40°	326.9	44.1
0°-60°	585.7	78.9
0°-90°	738.5	99.5
90°-120°	1.3	0.2
90°-150°	2.7	0.4
90°-180°	3.0	0.4
0°-180°	742.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	233	233	233	233	233	
5°	233	233	232	233	233	22
15°	234	233	232	233	234	66
25°	232	229	228	228	232	107
35°	215	212	213	210	215	134
45°	181	179	181	176	181	139
55°	135	134	137	132	135	121
65°	88	88	88	86	88	87
75°	46	48	48	45	46	49
85°	14	15	14	13	14	14
90°	1	2	1	1	1	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	1	0	0	0
135°	1	1	1	0	1	1
145°	1	1	0	0	1	1
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	232.8	232.8	232.8	232.8	232.8	232.8	232.8	232.8	232.8	232.8	232.8
0.5°	232.1	232.1	232.1	231.9	232.8	232.6	232.6	232.3	232.0	232.1	232.0
1°	232.1	232.1	232.1	232.0	232.8	232.6	232.6	232.3	232.0	232.1	231.9
1.5°	232.2	232.1	232.1	232.0	232.8	232.8	232.6	232.3	231.9	232.1	231.7
2°	232.1	232.1	232.1	232.1	232.9	232.8	232.6	232.3	231.9	232.1	231.7
2.5°	232.4	232.1	232.1	232.1	232.8	232.7	232.6	232.3	231.9	232.1	231.7
3°	232.6	232.3	232.3	232.1	233.0	232.7	232.6	232.3	231.9	232.1	231.7
3.5°	232.8	232.4	232.4	232.1	233.0	232.7	232.6	232.3	231.9	232.1	231.7
4°	232.8	232.5	232.4	232.3	233.0	232.8	232.6	232.3	231.9	232.1	231.7
4.5°	232.8	232.5	232.5	232.4	233.0	233.0	232.6	232.3	231.9	232.1	231.7
5°	233.0	232.8	232.6	232.4	233.1	233.0	232.6	232.3	231.9	232.1	231.7
5.5°	233.1	233.1	232.6	232.6	233.2	233.0	232.8	232.3	231.9	232.1	231.7
6°	233.1	233.1	232.9	232.8	233.2	233.0	232.8	232.3	231.9	232.1	231.7
6.5°	233.2	233.2	233.1	232.8	233.2	233.1	232.8	232.3	231.9	232.1	231.7
7°	233.3	233.2	233.3	233.0	233.2	233.0	232.8	232.3	231.9	232.1	231.7
7.5°	233.3	233.3	233.3	233.0	233.2	233.0	232.9	232.3	231.9	232.1	231.7
8°	233.3	233.3	233.3	233.3	233.2	233.0	232.9	232.3	231.9	232.1	231.7
8.5°	233.4	233.4	233.3	233.4	233.2	233.0	232.9	232.3	231.9	232.1	231.7
9°	233.3	233.5	233.4	233.4	233.2	233.0	232.9	232.3	231.9	232.1	231.7
9.5°	233.5	233.6	233.4	233.4	233.2	233.0	232.9	232.3	231.9	232.0	231.7
10°	233.7	233.6	233.6	233.5	233.2	233.0	232.9	232.3	231.9	232.0	231.7
10.5°	233.9	233.9	233.6	233.5	233.2	233.0	232.9	232.3	231.9	232.0	231.7
11°	234.0	234.2	233.7	233.6	233.2	233.0	232.9	232.3	231.9	232.0	231.8
11.5°	234.0	234.2	233.9	233.5	233.2	233.0	232.9	232.3	231.9	232.0	231.7
12°	234.1	234.2	233.8	233.6	233.2	233.0	232.9	232.3	231.9	232.0	231.7
12.5°	234.2	234.2	234.0	233.7	233.2	233.0	232.9	232.3	231.9	232.0	231.7
13°	234.2	234.2	234.0	233.7	233.3	233.0	232.9	232.3	231.9	232.0	231.6
13.5°	234.3	234.2	234.2	233.7	233.2	233.0	232.9	232.3	231.9	231.9	231.5
14°	234.4	234.2	234.2	233.7	233.2	233.0	232.9	232.3	231.9	231.8	231.5
14.5°	234.4	234.2	234.2	233.7	233.2	233.0	232.9	232.3	232.0	231.6	231.5
15°	234.4	234.2	234.2	233.7	233.1	233.0	232.9	232.3	232.0	231.6	231.4
15.5°	234.4	234.2	234.2	233.7	233.1	233.0	232.9	232.3	231.9	231.5	231.3
16°	234.4	234.3	234.2	233.7	232.9	233.0	232.9	232.3	231.9	231.4	231.2
16.5°	234.4	234.3	234.2	233.7	233.0	233.0	232.9	232.3	231.9	231.3	231.2
17°	234.4	234.4	234.2	233.7	233.0	233.0	232.9	232.2	231.8	231.2	231.1
17.5°	234.4	234.4	234.2	233.7	232.8	232.9	232.9	232.0	231.8	231.2	230.9
18°	234.4	234.4	234.1	233.7	232.8	232.9	232.9	231.9	231.7	231.0	230.9
18.5°	234.4	234.4	233.9	233.5	232.7	232.9	232.9	231.8	231.6	230.9	230.7
19°	234.4	234.1	233.8	233.3	232.7	232.8	232.6	231.8	231.2	230.9	230.5
19.5°	234.4	233.9	233.5	233.3	232.5	232.8	232.6	231.8	231.2	230.7	230.3
20°	234.3	233.7	233.2	233.0	232.1	232.9	232.4	231.7	230.9	230.6	230.0
20.5°	234.2	233.5	233.0	232.8	231.8	232.6	232.3	231.4	230.8	230.2	229.8
21°	234.2	233.3	232.7	232.5	231.5	232.2	232.0	231.3	230.7	230.0	229.5
21.5°	234.0	233.0	232.2	232.1	231.5	232.0	231.9	231.1	230.6	229.8	229.2
22°	233.7	232.7	231.8	231.7	231.0	231.7	231.8	231.0	230.3	229.5	228.9



TEST NUMBER: P473755

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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°	233.4	232.2	231.5	231.4	230.7	231.6	231.7	231.0	230.0	229.1	228.6
23°	233.1	231.9	231.0	231.0	230.4	231.4	231.5	230.7	229.7	228.7	228.2
23.5°	232.7	231.4	230.5	230.4	230.0	231.1	231.5	230.6	229.5	228.4	227.9
24°	232.5	230.9	229.9	229.9	229.6	230.9	231.0	230.5	229.1	227.8	227.4
24.5°	231.9	230.4	229.4	229.5	229.3	230.6	231.0	229.9	228.9	227.5	226.7
25°	231.5	229.9	228.7	229.0	228.7	230.3	230.6	229.6	228.4	226.8	226.3
25.5°	231.0	229.3	228.2	228.3	228.2	229.8	230.5	229.4	228.1	226.3	225.6
26°	230.7	228.6	227.5	227.8	227.5	229.6	230.1	229.4	227.5	226.1	225.1
26.5°	230.1	228.0	226.8	226.8	227.1	229.0	229.7	228.7	227.2	225.3	224.5
27°	229.5	227.3	225.9	226.1	226.4	228.4	229.3	228.3	226.5	224.7	223.7
27.5°	229.0	226.6	225.2	225.6	225.8	228.1	228.9	228.2	226.0	224.0	223.0
28°	228.3	225.8	224.3	224.6	225.1	227.5	228.5	227.3	225.4	223.3	222.2
28.5°	227.6	225.0	223.4	223.8	224.5	226.8	228.1	227.0	224.8	222.5	221.4
29°	227.0	224.1	222.5	222.9	223.8	226.3	227.5	226.4	224.2	221.8	220.8
29.5°	226.2	223.2	221.5	222.0	222.9	225.6	226.9	225.9	223.6	221.2	219.8
30°	225.4	222.2	220.6	221.0	222.3	225.1	226.3	225.3	222.8	220.2	218.8
30.5°	224.4	221.3	219.6	219.9	221.3	224.3	225.8	224.5	221.9	219.5	217.9
31°	223.5	220.4	218.4	219.0	220.5	223.6	224.9	224.0	221.2	218.5	216.9
31.5°	222.5	219.2	217.3	217.9	219.6	222.7	224.3	223.2	220.5	217.4	215.9
32°	221.7	218.1	216.2	216.8	218.5	221.8	223.8	222.4	219.5	216.4	214.7
32.5°	220.4	216.9	215.0	215.6	217.5	220.9	223.0	221.7	218.6	215.4	213.6
33°	219.5	215.8	213.7	214.4	216.4	220.0	222.1	220.7	217.6	214.4	212.4
33.5°	218.3	214.4	212.4	213.1	215.3	219.1	221.4	219.8	216.5	213.3	211.1
34°	217.1	213.2	211.2	211.8	214.3	218.0	220.4	218.9	215.5	212.2	209.9
34.5°	216.1	211.9	209.8	210.4	213.1	216.9	219.4	218.0	214.4	211.0	208.7
35°	214.9	210.5	208.4	209.0	211.8	215.9	218.5	217.0	213.2	209.6	207.3
35.5°	213.5	209.1	207.0	207.5	210.6	215.0	217.5	215.9	212.0	208.4	205.9
36°	212.2	207.6	205.6	206.3	209.2	213.7	216.5	214.9	210.9	207.1	204.7
36.5°	210.7	206.1	204.0	204.8	208.0	212.5	215.3	213.7	209.6	205.5	203.2
37°	209.3	204.6	202.7	203.2	206.5	211.2	214.0	212.5	208.2	204.0	201.9
37.5°	207.8	203.2	201.0	201.7	205.0	209.9	212.7	211.1	206.8	202.7	200.1
38°	206.3	201.5	199.3	200.1	203.6	208.5	211.5	209.8	205.4	201.4	198.5
38.5°	204.8	199.9	197.8	198.5	202.1	207.1	210.2	208.5	204.0	199.7	196.8
39°	203.3	198.3	196.1	196.9	200.5	205.7	208.8	206.9	202.6	198.1	195.3
39.5°	201.8	196.7	194.4	195.2	199.1	204.2	207.4	205.5	201.0	196.3	193.7
40°	200.1	194.9	192.6	193.4	197.4	202.7	205.9	203.9	199.3	194.8	192.0
40.5°	198.4	193.1	190.7	191.7	195.7	201.1	204.5	202.4	197.7	193.2	190.3
41°	196.6	191.3	189.0	189.8	193.9	199.5	202.8	200.9	195.9	191.5	188.6
41.5°	194.6	189.5	186.9	188.1	192.2	197.9	201.5	199.3	194.3	189.6	186.8
42°	192.8	187.4	185.1	186.0	190.3	196.1	199.7	197.8	192.6	187.8	185.0
42.5°	190.9	185.6	183.1	184.2	188.5	194.3	198.0	195.8	190.8	186.0	182.9
43°	189.1	183.6	181.2	182.2	186.6	192.7	196.1	194.1	189.0	184.1	181.1
43.5°	186.9	181.6	179.2	180.3	184.6	190.8	194.3	192.3	187.2	182.2	179.1
44°	184.8	179.5	177.1	178.2	182.8	189.0	192.4	190.5	185.4	180.3	177.2
44.5°	182.9	177.5	175.1	176.2	180.7	186.8	190.6	188.8	183.3	178.3	175.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	180.7	175.5	172.9	174.1	178.7	184.9	188.6	186.7	181.4	176.2	173.2
45.5°	178.7	173.3	170.9	172.1	176.7	182.7	186.6	184.7	179.4	174.1	171.2
46°	176.7	171.3	168.8	170.1	174.6	180.7	184.6	182.6	177.4	172.2	169.3
46.5°	174.4	169.0	166.8	167.9	172.5	178.7	182.7	180.6	175.2	170.2	167.1
47°	172.3	167.0	164.7	165.8	170.4	176.5	180.4	178.4	173.1	168.0	165.2
47.5°	170.0	164.9	162.5	163.8	168.2	174.4	178.2	176.2	171.1	165.9	163.1
48°	167.8	162.7	160.4	161.5	166.1	172.2	176.1	174.1	169.0	163.9	161.0
48.5°	165.8	160.3	158.2	159.3	163.9	170.0	174.0	172.0	166.6	161.8	158.8
49°	163.4	158.2	156.0	157.1	161.8	167.7	171.6	169.8	164.6	159.6	156.7
49.5°	161.1	155.9	153.7	154.9	159.6	165.7	169.3	167.5	162.3	157.3	154.4
50°	158.8	153.6	151.5	152.7	157.2	163.5	167.1	165.4	160.1	155.0	152.2
50.5°	156.5	151.2	149.3	150.3	154.9	161.1	164.9	163.2	157.8	152.8	150.1
51°	154.1	149.0	146.9	148.1	152.7	158.8	162.5	160.9	155.6	150.6	147.8
51.5°	151.6	146.7	144.6	145.8	150.3	156.6	160.2	158.6	153.3	148.3	145.6
52°	149.2	144.3	142.4	143.6	148.0	154.2	157.8	156.2	151.0	146.0	143.3
52.5°	146.9	141.9	140.1	141.1	145.7	151.7	155.2	153.8	148.6	143.6	141.0
53°	144.5	139.6	137.8	138.8	143.4	149.2	152.7	151.4	146.3	141.3	138.7
53.5°	142.0	137.2	135.6	136.5	141.1	146.9	150.3	149.0	143.8	138.9	136.4
54°	139.6	134.8	133.2	134.3	138.7	144.5	147.7	146.5	141.5	136.6	134.1
54.5°	137.2	132.4	131.2	132.0	136.4	142.2	145.4	144.0	139.0	134.2	131.9
55°	134.9	130.2	128.7	129.8	134.1	139.8	142.8	141.5	136.7	131.8	129.7
55.5°	132.4	127.9	126.5	127.4	131.7	137.2	140.3	139.1	134.3	129.5	127.4
56°	130.0	125.5	124.1	125.1	129.5	134.7	137.8	136.5	131.9	127.2	125.1
56.5°	127.7	123.2	121.8	122.7	127.2	132.3	135.3	134.1	129.6	124.9	122.8
57°	125.3	120.9	119.6	120.5	124.9	130.0	132.8	131.6	127.2	122.5	120.4
57.5°	122.8	118.5	117.4	118.1	122.4	127.5	130.3	129.2	124.8	120.2	118.1
58°	120.3	116.1	115.0	115.9	120.1	125.2	127.9	126.7	122.3	117.9	115.9
58.5°	118.0	113.8	112.8	113.5	117.9	122.8	125.3	124.4	120.0	115.5	113.6
59°	115.5	111.5	110.5	111.3	115.6	120.4	122.8	121.9	117.5	113.3	111.4
59.5°	113.2	109.2	108.2	109.1	113.3	117.9	120.4	119.3	115.1	111.0	109.0
60°	110.7	107.0	105.9	106.8	111.0	115.5	117.8	116.9	112.7	108.8	106.7
60.5°	108.5	104.7	103.7	104.4	108.6	113.0	115.4	114.4	110.4	106.4	104.6
61°	106.0	102.4	101.4	102.3	106.3	110.5	112.9	112.0	108.1	104.2	102.3
61.5°	103.9	100.1	99.3	100.1	104.0	108.3	110.4	109.6	105.7	101.9	100.1
62°	101.3	98.0	97.1	97.9	101.7	105.8	108.0	107.2	103.3	99.7	98.0
62.5°	99.0	95.8	95.1	95.9	99.4	103.5	105.5	104.6	100.9	97.3	95.7
63°	96.7	93.6	92.8	93.7	97.2	101.1	103.2	102.2	98.6	95.1	93.7
63.5°	94.6	91.5	90.9	91.6	94.9	98.8	100.8	99.8	96.3	93.1	91.5
64°	92.3	89.3	88.6	89.4	92.8	96.4	98.4	97.6	94.2	91.0	89.3
64.5°	90.0	87.2	86.5	87.3	90.7	94.3	96.0	95.0	91.6	88.8	87.1
65°	87.8	85.1	84.3	85.1	88.4	92.0	93.9	92.9	88.3	86.2	85.0
65.5°	85.5	82.9	82.2	83.0	86.2	89.8	91.6	90.5	87.2	83.7	82.8
66°	83.2	80.8	80.1	80.9	84.0	87.4	89.2	88.1	84.9	82.2	80.8
66.5°	81.0	78.6	78.0	79.0	81.8	85.1	86.8	85.7	82.7	80.0	78.6
67°	78.8	76.6	76.0	76.8	79.7	82.9	84.7	83.6	80.5	77.9	76.6





TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	76.7	74.5	73.9	74.8	77.5	80.7	82.3	81.3	78.3	75.8	74.4
68°	74.6	72.4	71.9	72.7	75.4	78.4	80.0	78.9	76.2	73.7	72.4
68.5°	72.4	70.4	69.9	70.7	73.2	76.1	77.7	76.7	74.0	71.7	70.2
69°	70.2	68.4	67.9	68.7	71.2	73.9	75.4	74.5	71.7	69.6	68.3
69.5°	68.1	66.3	65.8	66.6	69.1	71.8	73.2	72.3	69.6	67.5	66.3
70°	66.1	64.3	63.9	64.7	67.1	69.6	70.9	70.0	67.6	65.4	64.3
70.5°	63.9	62.2	62.0	62.7	65.1	67.5	68.7	67.8	65.5	63.4	62.3
71°	61.9	60.3	60.0	60.8	63.0	65.3	66.5	65.6	63.4	61.3	60.3
71.5°	60.0	58.5	58.2	58.9	61.0	63.3	64.3	63.5	61.2	59.4	58.5
72°	58.2	56.5	56.3	56.9	59.1	61.2	62.2	61.4	59.3	57.5	56.5
72.5°	56.1	54.5	54.3	55.1	57.2	59.2	60.0	59.3	57.5	55.5	54.7
73°	54.1	52.6	52.4	53.1	55.2	57.2	58.0	57.4	55.3	53.6	52.9
73.5°	52.1	50.8	50.6	51.2	53.3	55.2	56.0	55.2	53.3	51.8	50.9
74°	50.2	48.9	48.7	49.5	51.4	53.3	54.1	53.2	51.4	49.7	49.0
74.5°	48.3	47.1	46.9	47.6	49.6	51.3	51.9	51.2	49.4	47.8	47.2
75°	46.4	45.3	45.2	45.7	47.6	49.3	49.9	49.1	47.5	45.9	45.4
75.5°	44.6	43.5	43.3	43.9	45.9	47.5	47.9	47.3	45.7	44.2	43.6
76°	42.7	41.8	41.8	42.2	44.2	45.6	45.9	45.3	43.8	42.3	41.9
76.5°	40.9	39.9	39.9	40.4	42.3	43.7	44.0	43.4	41.9	40.7	40.1
77°	39.1	38.3	38.3	38.6	40.6	41.9	42.1	41.5	40.0	38.8	38.4
77.5°	37.4	36.6	36.5	37.0	38.8	39.9	40.3	39.7	38.3	37.1	36.7
78°	35.7	34.9	34.9	35.2	37.1	38.4	38.5	37.8	36.6	35.5	35.1
78.5°	34.0	33.2	33.2	33.5	35.3	36.4	36.5	36.1	34.8	33.8	33.3
79°	32.2	31.5	31.6	31.9	33.7	34.7	34.8	34.3	33.1	31.9	31.8
79.5°	30.6	29.9	30.0	30.2	32.0	33.1	33.0	32.5	31.3	30.3	30.1
80°	28.9	28.3	28.4	28.7	30.4	31.5	31.3	30.8	29.6	28.7	28.6
80.5°	27.3	26.8	26.8	27.1	28.7	29.6	29.6	29.1	28.0	27.2	27.1
81°	25.7	25.2	25.3	25.4	27.1	27.9	27.9	27.5	26.4	25.5	25.3
81.5°	24.2	23.9	24.0	24.1	25.5	26.2	26.2	25.8	24.7	24.1	23.8
82°	22.8	22.4	22.5	22.8	24.0	24.5	24.5	24.1	23.3	22.9	22.4
82.5°	21.1	20.9	21.0	21.1	22.6	23.3	23.2	22.7	21.8	21.3	20.9
83°	19.7	19.4	19.6	19.6	21.1	21.7	21.6	21.1	20.3	19.6	19.5
83.5°	18.1	18.0	18.1	18.2	19.6	20.1	19.8	19.6	18.8	18.1	17.9
84°	16.6	16.5	16.7	16.8	18.2	18.6	18.5	18.0	17.3	16.7	16.5
84.5°	15.2	15.1	15.3	15.4	16.7	17.2	16.7	16.4	15.8	15.3	15.0
85°	13.7	13.7	13.9	13.9	15.3	15.5	15.4	15.0	14.4	13.9	13.6
85.5°	12.4	12.3	12.5	12.6	13.8	14.2	13.9	13.5	13.0	12.5	12.1
86°	10.9	11.1	11.2	11.3	12.4	12.7	12.4	12.0	11.5	11.1	10.8
86.5°	9.6	9.7	9.8	10.0	11.1	11.3	10.9	10.7	10.1	9.7	9.5
87°	8.3	8.5	8.6	8.7	9.7	9.8	9.5	9.1	8.8	8.3	8.1
87.5°	7.0	7.3	7.3	7.4	8.4	8.5	8.1	7.7	7.3	6.8	6.6
88°	5.7	6.1	6.0	6.2	7.0	7.0	6.6	6.3	6.0	5.4	5.3
88.5°	4.4	4.8	4.9	4.9	5.7	5.5	5.2	5.2	4.7	4.2	3.9
89°	3.1	3.6	3.8	3.6	4.4	4.2	3.7	3.6	3.3	2.8	2.5
89.5°	2.0	2.4	2.6	2.6	3.1	3.0	2.5	2.3	1.9	1.5	1.3



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	1.2	1.5	1.7	1.9	1.9	1.8	1.5	1.2	1.0	0.6	0.6
90.5°	0.9	1.1	1.2	1.4	0.9	0.8	0.9	0.7	0.4	0.4	0.4
91°	0.7	0.8	0.9	0.8	0.4	0.2	0.3	0.0	0.4	0.3	0.4
91.5°	0.6	0.7	0.7	0.7	0.3	0.1	0.3	0.0	0.5	0.3	0.3
92°	0.6	0.6	0.6	0.5	0.3	0.1	0.3	0.0	0.4	0.3	0.3
92.5°	0.6	0.6	0.6	0.5	0.3	0.1	0.2	0.0	0.4	0.3	0.3
93°	0.6	0.5	0.5	0.5	0.3	0.1	0.2	0.0	0.4	0.3	0.3
93.5°	0.5	0.4	0.5	0.4	0.3	0.1	0.2	0.0	0.4	0.3	0.3
94°	0.5	0.4	0.6	0.4	0.3	0.1	0.2	0.0	0.4	0.3	0.3
94.5°	0.4	0.4	0.6	0.4	0.3	0.1	0.2	0.0	0.4	0.3	0.3
95°	0.4	0.4	0.4	0.5	0.3	0.1	0.2	0.0	0.4	0.4	0.3
95.5°	0.4	0.4	0.4	0.4	0.3	0.1	0.2	0.0	0.4	0.5	0.3
96°	0.4	0.4	0.4	0.3	0.3	0.1	0.2	0.0	0.4	0.4	0.3
96.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.0	0.4	0.4	0.3
97°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
97.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
98°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
98.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
99°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
99.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
100°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
100.5°	0.4	0.4	0.4	0.3	0.4	0.3	0.2	0.1	0.4	0.4	0.3
101°	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.3
101.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.5	0.4	0.4	0.3
102°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.4	0.4	0.4	0.3
102.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3
103°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3
103.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3
104°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.4	0.4	0.3
104.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.4	0.4	0.4	0.3
105°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.5	0.4	0.3
105.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.6	0.5	0.4	0.3
106°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.6	0.5	0.4	0.3
106.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.6	0.4	0.3
107°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.6	0.4	0.3
107.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4
108°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4
108.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4
109°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.4
109.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.4
110°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.4
110.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.6	0.5	0.4
111°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.6	0.5	0.4
111.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.4
112°	0.4	0.4	0.4	0.3	0.3	0.3	0.6	0.5	0.6	0.6	0.4



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.6	0.5	0.6	0.6	0.4
113°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.6	0.6	0.4
113.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.9	0.6	0.4
114°	0.4	0.4	0.4	0.3	0.4	0.3	0.5	0.6	0.4	0.6	0.4
114.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.6	0.4	0.6	0.4
115°	0.4	0.4	0.4	0.3	0.4	0.3	0.5	0.6	0.4	0.6	0.4
115.5°	0.4	0.4	0.4	0.3	0.5	0.4	0.5	0.6	0.4	0.6	0.4
116°	0.4	0.4	0.4	0.3	0.4	0.4	0.5	0.6	0.4	0.6	0.4
116.5°	0.4	0.4	0.4	0.3	0.4	0.3	0.5	0.6	0.6	0.6	0.4
117°	0.4	0.4	0.4	0.3	0.5	0.3	0.5	0.6	0.5	0.6	0.4
117.5°	0.4	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.5	0.6	0.4
118°	0.4	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.5	0.6	0.4
118.5°	0.4	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.5	0.6	0.4
119°	0.4	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.5	0.6	0.4
119.5°	0.4	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.5	0.6	0.4
120°	0.4	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.5	0.6	0.4
120.5°	0.4	0.4	0.4	0.3	0.5	0.5	0.6	0.6	0.5	0.6	0.4
121°	0.4	0.4	0.4	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.4
121.5°	0.5	0.4	0.4	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.4
122°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
122.5°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.7	0.6	0.4
123°	0.6	0.4	0.4	0.3	0.5	0.2	0.6	0.6	0.6	0.7	0.4
123.5°	0.5	0.4	0.4	0.3	0.5	0.2	0.6	0.6	0.6	0.6	0.4
124°	0.5	0.4	0.4	0.3	0.5	0.2	0.6	0.6	0.6	0.6	0.4
124.5°	0.5	0.4	0.4	0.3	0.5	0.2	0.6	0.6	0.6	0.6	0.4
125°	0.5	0.4	0.4	0.3	0.5	0.2	0.6	0.6	0.6	0.6	0.4
125.5°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
126°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
126.5°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
127°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
127.5°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
128°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
128.5°	0.5	0.4	0.5	0.3	0.5	0.3	0.6	0.7	0.6	0.6	0.4
129°	0.5	0.4	0.5	0.3	0.5	0.3	0.6	0.7	0.6	0.6	0.4
129.5°	0.5	0.4	0.5	0.4	0.5	0.4	0.6	0.8	0.6	0.6	0.4
130°	0.5	0.4	0.6	0.5	0.5	0.4	0.6	0.8	0.6	0.6	0.5
130.5°	0.5	0.4	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.5
131°	0.5	0.4	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.5
131.5°	0.6	0.4	0.6	0.6	0.5	0.5	0.6	0.7	0.6	0.6	0.5
132°	0.6	0.4	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.6
132.5°	0.6	0.4	0.6	0.5	0.6	0.5	0.6	0.7	0.6	0.7	0.5
133°	0.6	0.5	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.7	0.5
133.5°	0.7	0.6	0.6	0.5	0.4	0.5	0.7	0.7	0.6	0.8	0.5
134°	0.7	0.6	0.6	0.5	0.6	0.5	0.7	0.7	0.6	0.7	0.5
134.5°	0.6	0.6	0.6	0.5	0.6	0.5	0.7	0.7	0.7	0.7	0.5



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.7	0.6	0.6	0.6	0.6	0.5	0.7	0.7	0.7	0.7	0.6
135.5°	0.7	0.6	0.6	0.6	0.6	0.5	0.7	0.7	0.8	0.7	0.6
136°	0.8	0.7	0.6	0.6	0.6	0.5	0.7	0.7	0.8	0.7	0.4
136.5°	0.7	0.8	0.6	0.6	0.7	0.5	0.7	0.7	0.7	0.7	0.5
137°	0.8	0.6	0.8	0.6	0.7	0.5	0.8	0.7	0.7	0.7	0.4
137.5°	0.8	0.7	0.8	0.6	0.6	0.5	0.5	0.7	0.7	0.7	0.4
138°	0.8	0.7	0.8	0.6	0.6	0.5	0.3	0.7	0.7	0.7	0.5
138.5°	0.8	0.7	0.8	0.6	0.6	0.5	0.3	0.7	0.7	0.7	0.6
139°	0.8	0.8	0.8	0.6	0.6	0.5	0.3	0.7	0.7	0.7	0.6
139.5°	0.8	0.8	0.8	0.6	0.6	0.5	0.4	0.7	0.7	0.7	0.5
140°	0.8	0.7	0.8	0.6	0.6	0.5	0.4	0.7	0.7	0.7	0.5
140.5°	0.8	0.8	0.8	0.6	0.7	0.5	0.6	0.7	0.7	0.7	0.4
141°	0.8	0.8	0.8	0.6	0.7	0.5	0.6	0.7	0.8	0.7	0.6
141.5°	1.1	1.1	0.8	0.6	0.7	0.5	0.6	0.7	0.8	0.7	0.6
142°	1.0	0.9	0.8	0.6	0.7	0.5	0.8	0.7	0.8	0.7	0.6
142.5°	0.9	0.6	0.8	0.6	0.7	0.6	0.7	0.7	0.8	0.8	0.6
143°	1.0	0.7	0.8	0.6	0.7	0.6	0.8	0.7	0.8	0.8	0.5
143.5°	0.7	0.7	0.8	0.6	0.7	0.6	0.5	0.7	0.9	0.8	0.5
144°	0.8	0.8	0.8	0.6	0.7	0.6	0.5	0.8	0.5	0.8	0.5
144.5°	0.8	0.8	0.8	0.6	0.7	0.6	0.7	0.8	0.6	0.8	0.5
145°	0.8	0.8	0.8	0.6	0.7	0.6	0.7	0.9	0.4	0.8	0.5
145.5°	0.8	0.8	0.8	0.6	0.7	0.6	0.6	0.9	0.7	0.8	0.5
146°	0.8	0.9	0.8	0.6	0.7	0.6	0.8	0.9	0.8	0.8	0.5
146.5°	0.8	0.9	0.8	0.6	0.7	0.6	0.8	1.5	0.8	0.8	0.7
147°	0.9	0.9	0.8	0.7	0.7	0.6	0.8	0.5	0.8	0.8	0.8
147.5°	0.9	0.9	0.8	0.6	0.8	0.6	0.8	0.5	0.5	0.8	0.7
148°	0.8	0.9	0.8	0.6	0.8	0.6	0.8	0.5	0.5	0.8	0.7
148.5°	0.9	1.0	0.8	0.6	0.8	0.6	0.8	0.6	0.9	0.8	0.7
149°	0.8	1.0	0.9	0.6	0.8	0.6	0.8	0.6	0.6	0.8	0.8
149.5°	0.8	1.0	0.9	0.6	0.8	0.6	0.9	0.6	0.6	0.8	0.8
150°	1.2	1.0	0.8	0.6	0.8	0.6	0.8	0.6	0.6	0.8	0.8
150.5°	0.9	1.0	0.8	0.6	0.8	0.8	0.8	0.8	0.5	0.8	0.8
151°	0.9	1.0	0.9	0.6	0.8	0.8	0.8	0.8	0.9	0.8	0.8
151.5°	0.8	1.1	0.9	0.6	0.8	0.7	0.8	0.9	0.9	0.8	0.8
152°	0.8	1.0	1.0	0.7	0.8	0.8	0.8	0.9	0.8	0.8	0.8
152.5°	1.0	1.0	1.0	0.6	0.8	0.7	0.9	1.0	0.9	0.8	0.8
153°	1.0	1.0	1.0	0.8	0.8	0.7	0.9	0.8	0.9	0.8	0.8
153.5°	0.8	1.0	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8
154°	0.8	1.0	1.0	0.8	0.8	0.8	0.9	0.8	0.9	0.9	0.8
154.5°	0.8	1.0	1.0	0.9	0.8	0.8	0.9	0.8	1.0	0.9	0.7
155°	0.9	1.0	1.0	0.8	0.8	0.8	0.9	0.9	1.0	0.9	0.6
155.5°	0.9	1.2	1.0	0.8	0.8	0.8	0.9	0.9	1.0	1.0	0.6
156°	0.9	1.1	1.0	0.8	0.8	0.8	0.9	0.8	1.0	1.0	0.6
156.5°	0.9	1.0	1.0	0.8	0.8	0.8	0.8	0.8	1.0	1.0	0.6
157°	1.0	0.9	1.0	0.8	0.8	0.9	0.8	0.8	1.0	1.0	0.6



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.0	1.0	1.0	0.8	0.8	0.9	0.8	0.8	1.0	1.0	0.9
158°	1.0	1.0	1.0	0.8	0.8	0.9	0.8	0.8	1.1	1.0	0.9
158.5°	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.0	0.9
159°	1.0	1.0	0.8	0.8	0.8	0.9	0.8	0.8	0.7	1.0	0.9
159.5°	0.9	1.1	0.9	0.8	0.8	1.0	0.8	0.8	0.8	1.0	1.0
160°	0.9	1.0	0.9	0.9	0.8	1.0	1.0	0.8	0.9	1.0	0.8
160.5°	0.9	1.0	0.9	1.0	0.8	0.9	1.0	0.8	1.2	1.0	0.8
161°	0.9	1.0	0.9	0.9	0.8	0.9	1.0	1.0	0.8	1.0	0.8
161.5°	0.9	1.0	0.9	0.9	0.8	0.9	1.0	0.9	0.7	1.0	0.8
162°	0.9	1.0	1.0	1.0	0.8	0.8	1.0	0.9	0.8	1.0	0.7
162.5°	1.0	1.0	1.0	1.0	0.8	0.8	1.0	0.8	0.8	1.0	0.7
163°	1.0	1.0	0.8	1.0	0.8	0.8	1.0	0.8	0.9	1.1	1.1
163.5°	1.0	1.0	0.8	1.0	0.8	0.8	1.0	0.7	0.8	1.2	1.0
164°	1.0	0.9	1.0	1.0	0.8	0.8	1.0	0.8	1.1	0.8	1.0
164.5°	1.0	0.9	1.0	1.0	0.8	1.0	1.0	1.0	0.8	0.9	1.0
165°	1.0	0.9	1.1	1.0	0.8	0.9	1.0	1.0	0.9	0.8	1.0
165.5°	1.0	0.9	1.1	1.0	0.8	1.0	1.0	1.0	0.9	0.8	1.0
166°	1.0	1.0	1.0	1.0	0.8	1.1	1.0	1.1	0.9	0.8	1.0
166.5°	1.0	0.9	1.0	1.0	0.8	1.1	1.0	1.0	0.9	0.7	1.0
167°	1.0	1.0	1.0	1.0	0.9	1.1	1.0	1.0	0.9	1.0	1.0
167.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	1.1	1.1
168°	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.1	1.0	1.3	1.0
168.5°	1.4	1.0	1.0	1.0	1.0	1.2	1.1	1.0	1.0	1.0	1.1
169°	1.3	1.1	1.0	1.0	0.9	1.1	1.0	1.0	1.0	1.0	1.0
169.5°	1.3	1.1	1.0	1.0	1.1	1.1	1.0	1.0	0.8	0.9	1.0
170°	1.3	1.4	1.1	1.0	1.0	1.1	1.1	1.0	1.0	0.9	1.0
170.5°	1.3	1.3	1.1	1.0	1.0	1.1	1.1	1.0	1.0	1.0	1.0
171°	1.2	1.3	1.0	1.0	1.1	1.1	1.1	1.0	1.0	0.9	1.0
171.5°	1.2	1.3	1.0	1.0	1.0	1.1	1.1	1.0	1.1	0.9	1.1
172°	1.2	1.3	1.1	1.0	1.0	1.1	1.2	1.0	1.1	1.3	1.2
172.5°	1.2	1.3	1.1	1.0	1.0	1.1	1.2	1.0	1.0	1.2	1.1
173°	1.2	1.3	1.3	1.0	0.9	1.1	1.0	1.0	1.0	0.8	1.0
173.5°	1.2	1.2	0.8	1.0	0.9	1.1	1.0	1.0	1.0	0.8	1.1
174°	1.2	1.2	1.0	1.0	1.0	1.1	1.0	1.1	1.0	1.0	1.1
174.5°	1.2	1.3	1.0	1.0	0.9	1.1	1.0	1.1	1.0	1.0	1.1
175°	1.1	1.2	0.9	1.0	0.8	1.1	1.0	1.0	1.0	1.0	1.1
175.5°	0.9	1.2	0.9	1.0	0.9	1.1	1.0	1.0	1.0	1.0	1.1
176°	1.0	1.2	0.9	1.0	0.8	1.1	1.0	1.0	1.0	1.0	1.1
176.5°	1.0	1.2	0.9	1.0	0.9	1.1	1.2	1.0	1.0	1.0	1.1
177°	1.0	1.1	0.9	1.0	1.0	1.0	1.2	1.0	1.0	1.0	1.1
177.5°	1.0	1.1	0.9	1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.1
178°	1.0	1.1	0.9	1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.1
178.5°	1.0	1.1	0.9	1.0	0.8	1.0	1.1	1.0	1.0	1.0	1.1
179°	1.0	1.0	0.9	1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.1
179.5°	1.0	1.0	0.9	1.1	1.0	1.0	1.2	0.9	1.0	1.0	1.0



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	232.8	232.8	232.8	232.8	232.8	232.8
0.5°	231.9	232.8	232.6	232.6	232.3	232.1
1°	231.9	232.8	232.6	232.6	232.3	232.1
1.5°	231.9	232.8	232.6	232.6	232.3	232.2
2°	231.9	232.8	232.6	232.6	232.3	232.1
2.5°	231.9	232.8	232.6	232.6	232.3	232.4
3°	231.9	232.8	232.6	232.7	232.4	232.6
3.5°	231.9	232.8	232.6	232.8	232.4	232.8
4°	231.9	232.8	232.6	232.8	232.6	232.8
4.5°	231.9	232.8	232.6	232.8	232.7	232.8
5°	231.9	232.8	232.6	232.8	232.7	233.0
5.5°	231.9	232.8	232.6	232.9	232.8	233.1
6°	231.9	232.8	232.6	233.0	232.9	233.1
6.5°	231.9	232.8	232.6	233.0	232.9	233.2
7°	231.9	232.8	232.6	232.9	232.9	233.3
7.5°	231.9	232.8	232.6	232.9	233.1	233.3
8°	231.9	232.8	232.8	233.0	233.1	233.3
8.5°	231.9	232.8	232.8	233.0	233.2	233.4
9°	231.9	232.8	232.8	233.0	233.3	233.3
9.5°	231.9	232.8	232.9	233.1	233.5	233.5
10°	231.9	232.8	232.8	233.0	233.6	233.7
10.5°	231.9	232.8	232.8	233.2	233.5	233.9
11°	231.8	232.9	232.8	233.2	233.7	234.0
11.5°	231.7	232.9	232.8	233.3	233.8	234.0
12°	231.7	232.8	232.8	233.4	233.9	234.1
12.5°	231.7	232.8	232.8	233.5	233.9	234.2
13°	231.6	232.8	232.8	233.5	234.0	234.2
13.5°	231.5	232.8	232.9	233.8	234.0	234.3
14°	231.4	232.8	232.9	233.7	234.0	234.4
14.5°	231.4	232.8	233.0	233.9	234.0	234.4
15°	231.4	232.9	233.0	234.0	234.1	234.4
15.5°	231.2	232.9	233.0	234.0	234.2	234.4
16°	231.2	232.8	233.0	234.0	234.2	234.4
16.5°	231.1	232.7	233.0	234.0	234.2	234.4
17°	231.0	232.8	233.0	234.0	234.3	234.4
17.5°	230.9	232.5	233.0	234.0	234.3	234.4
18°	230.7	232.5	233.0	234.1	234.3	234.4
18.5°	230.5	232.3	233.0	234.1	234.3	234.4
19°	230.3	232.2	233.0	234.0	234.3	234.4
19.5°	230.2	232.0	233.0	234.0	234.3	234.4
20°	229.8	231.7	233.0	234.0	234.4	234.3
20.5°	229.6	231.4	232.9	234.0	234.4	234.2
21°	229.3	231.3	232.8	234.0	234.3	234.2
21.5°	229.0	231.0	232.4	233.9	234.3	234.0
22°	228.6	230.8	232.3	233.5	234.2	233.7



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	228.2	230.6	232.0	233.5	234.1	233.4
23°	227.8	230.1	231.8	233.3	233.7	233.1
23.5°	227.5	229.7	231.3	233.0	233.6	232.7
24°	226.9	229.3	231.2	232.8	233.4	232.5
24.5°	226.4	229.0	230.7	232.5	233.1	231.9
25°	225.9	228.4	230.4	232.2	232.7	231.5
25.5°	225.3	227.8	230.0	231.8	232.4	231.0
26°	224.7	227.2	229.6	231.4	232.0	230.7
26.5°	224.2	226.8	229.1	231.1	231.6	230.1
27°	223.4	226.2	228.5	230.6	231.1	229.5
27.5°	222.7	225.4	227.9	230.3	230.7	229.0
28°	222.0	224.7	227.2	229.7	230.2	228.3
28.5°	221.1	223.9	226.4	229.2	229.6	227.6
29°	220.3	223.2	225.8	228.6	229.0	227.0
29.5°	219.4	222.3	225.2	228.0	228.4	226.2
30°	218.6	221.5	224.6	227.4	227.8	225.4
30.5°	217.6	220.6	223.7	226.8	227.0	224.4
31°	216.5	219.5	222.9	226.0	226.3	223.5
31.5°	215.6	218.6	221.9	225.1	225.5	222.5
32°	214.4	217.5	221.0	224.2	224.5	221.7
32.5°	213.4	216.5	220.2	223.5	223.7	220.4
33°	212.3	215.3	219.0	222.6	222.7	219.5
33.5°	211.2	214.2	218.1	221.6	221.7	218.3
34°	209.9	212.9	216.9	220.6	220.8	217.1
34.5°	208.5	211.7	215.7	219.5	219.7	216.1
35°	207.3	210.3	214.5	218.3	218.5	214.9
35.5°	206.1	209.1	213.4	217.3	217.4	213.5
36°	204.6	207.6	212.1	216.1	216.0	212.2
36.5°	203.0	206.2	210.8	214.8	214.8	210.7
37°	201.9	204.7	209.4	213.5	213.4	209.3
37.5°	200.2	203.2	207.8	212.2	212.1	207.8
38°	198.7	201.7	206.4	210.7	210.6	206.3
38.5°	197.2	200.1	204.8	209.2	209.1	204.8
39°	195.4	198.5	203.4	207.9	207.7	203.3
39.5°	193.7	196.9	201.8	206.4	206.1	201.8
40°	192.0	195.1	200.2	204.7	204.4	200.1
40.5°	190.5	193.4	198.5	203.0	202.9	198.4
41°	188.7	191.6	196.9	201.4	201.3	196.6
41.5°	186.8	189.8	195.0	199.6	199.4	194.6
42°	184.9	187.8	193.1	197.9	197.8	192.8
42.5°	183.0	186.0	191.4	196.2	196.0	190.9
43°	181.0	184.1	189.6	194.3	194.0	189.1
43.5°	179.1	182.0	187.8	192.3	192.0	186.9
44°	177.1	180.2	185.8	190.4	190.0	184.8
44.5°	175.2	178.1	183.9	188.4	188.0	182.9





TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	173.2	176.2	181.7	186.4	186.0	180.7
45.5°	171.1	174.1	179.6	184.4	183.9	178.7
46°	169.1	172.0	177.5	182.2	181.7	176.7
46.5°	167.0	169.9	175.3	180.0	179.7	174.4
47°	165.2	167.7	173.1	177.8	177.4	172.3
47.5°	162.8	165.7	170.9	175.5	175.2	170.0
48°	160.7	163.5	168.8	173.2	173.0	167.8
48.5°	158.5	161.3	166.7	170.9	170.7	165.8
49°	156.4	159.1	164.4	168.6	168.4	163.4
49.5°	154.1	156.8	162.1	166.4	166.3	161.1
50°	151.9	154.5	159.8	164.1	163.9	158.8
50.5°	149.7	152.2	157.5	161.7	161.4	156.5
51°	147.5	150.1	155.1	159.3	159.0	154.1
51.5°	145.2	147.7	152.9	156.8	156.6	151.6
52°	142.9	145.4	150.5	154.4	154.3	149.2
52.5°	140.7	143.0	148.3	151.9	151.8	146.9
53°	138.3	140.8	145.7	149.3	149.2	144.5
53.5°	135.9	138.6	143.3	146.9	146.8	142.0
54°	133.7	136.1	140.9	144.5	144.4	139.6
54.5°	131.3	133.9	138.5	141.7	141.9	137.2
55°	129.2	131.5	136.1	139.2	139.2	134.9
55.5°	126.7	129.2	133.6	136.6	136.8	132.4
56°	124.5	126.8	131.3	134.2	134.4	130.0
56.5°	122.1	124.6	128.8	131.7	131.8	127.7
57°	120.0	122.2	126.5	129.3	129.3	125.3
57.5°	117.6	119.8	123.9	126.7	126.9	122.8
58°	115.4	117.5	121.5	124.3	124.3	120.3
58.5°	113.0	115.1	119.2	121.8	121.8	118.0
59°	110.9	112.9	116.7	119.3	119.3	115.5
59.5°	108.6	110.5	114.3	116.9	116.9	113.2
60°	106.5	108.3	111.9	114.4	114.4	110.7
60.5°	104.0	105.8	109.4	111.9	112.0	108.5
61°	101.9	103.6	107.1	109.5	109.4	106.0
61.5°	99.6	101.3	104.7	107.1	107.0	103.9
62°	97.5	99.1	102.4	104.7	104.6	101.3
62.5°	95.3	96.7	100.0	102.3	102.2	99.0
63°	93.2	94.7	97.6	100.0	99.8	96.7
63.5°	91.1	92.4	95.6	97.5	97.4	94.6
64°	89.0	90.3	93.2	95.3	95.2	92.3
64.5°	86.8	88.1	90.9	93.0	92.8	90.0
65°	84.7	85.9	88.7	90.8	90.5	87.8
65.5°	82.5	83.7	86.3	88.4	88.2	85.5
66°	80.4	81.6	84.1	86.0	85.8	83.2
66.5°	78.3	79.3	81.9	83.7	83.5	81.0
67°	76.2	77.3	79.6	81.5	81.3	78.8



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	74.2	75.1	77.5	79.2	79.0	76.7
68°	72.2	73.0	75.2	77.0	76.8	74.6
68.5°	70.1	71.0	73.1	74.7	74.5	72.4
69°	68.1	68.8	71.0	72.5	72.4	70.2
69.5°	66.1	66.8	68.8	70.3	70.1	68.1
70°	64.0	64.8	66.7	68.1	68.0	66.1
70.5°	62.2	62.8	64.5	65.8	65.7	63.9
71°	60.2	60.7	62.5	63.8	63.8	61.9
71.5°	58.3	58.9	60.4	61.6	61.6	60.0
72°	56.5	56.8	58.5	59.7	59.7	58.2
72.5°	54.5	55.0	56.3	57.5	57.5	56.1
73°	52.6	52.9	54.6	55.3	55.4	54.1
73.5°	50.8	51.0	52.4	53.3	53.5	52.1
74°	48.9	49.2	50.6	51.3	51.4	50.2
74.5°	47.1	47.3	48.6	49.3	49.5	48.3
75°	45.3	45.4	46.7	47.3	47.5	46.4
75.5°	43.6	43.6	44.8	45.4	45.6	44.6
76°	41.8	41.8	43.0	43.5	43.6	42.7
76.5°	40.0	39.9	41.1	41.7	41.9	40.9
77°	38.3	38.3	39.2	39.7	40.0	39.1
77.5°	36.6	36.4	37.5	38.0	38.2	37.4
78°	34.8	34.8	35.8	36.1	36.3	35.7
78.5°	33.2	33.0	34.0	34.3	34.6	34.0
79°	31.6	31.3	32.2	32.6	32.9	32.2
79.5°	29.9	29.6	30.5	30.9	31.1	30.6
80°	28.3	28.0	28.8	29.2	29.5	28.9
80.5°	26.7	26.3	27.2	27.4	27.8	27.3
81°	25.1	24.9	25.5	25.9	26.2	25.7
81.5°	23.6	23.4	24.1	24.3	24.6	24.2
82°	22.2	21.9	22.5	22.7	23.1	22.8
82.5°	20.7	20.3	20.9	21.1	21.4	21.1
83°	19.2	18.8	19.4	19.6	19.9	19.7
83.5°	17.7	17.2	17.7	17.9	18.4	18.1
84°	16.3	15.7	16.2	16.4	16.8	16.6
84.5°	14.8	14.2	14.7	14.9	15.3	15.2
85°	13.4	12.8	13.2	13.4	13.8	13.7
85.5°	11.9	11.3	11.6	12.0	12.2	12.4
86°	10.6	9.9	10.2	10.5	10.8	10.9
86.5°	9.3	8.4	8.8	8.9	9.4	9.6
87°	7.7	7.0	7.3	7.5	7.9	8.3
87.5°	6.2	5.6	5.9	6.1	6.5	7.0
88°	5.0	4.0	4.3	4.7	5.1	5.7
88.5°	3.4	2.6	2.8	3.0	3.8	4.4
89°	2.0	1.7	1.7	1.9	2.5	3.1
89.5°	1.0	1.1	1.1	1.2	1.6	2.0



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.6	0.9	0.8	0.9	1.2	1.2
90.5°	0.4	0.7	0.7	0.7	0.9	0.9
91°	0.3	0.7	0.6	0.6	0.6	0.7
91.5°	0.3	0.7	0.6	0.6	0.6	0.6
92°	0.3	0.7	0.6	0.6	0.6	0.6
92.5°	0.3	0.6	0.6	0.5	0.5	0.6
93°	0.3	0.5	0.6	0.5	0.5	0.6
93.5°	0.3	0.5	0.5	0.6	0.4	0.5
94°	0.3	0.5	0.5	0.6	0.4	0.5
94.5°	0.3	0.5	0.5	0.4	0.4	0.4
95°	0.3	0.5	0.5	0.5	0.4	0.4
95.5°	0.3	0.5	0.5	0.4	0.4	0.4
96°	0.3	0.5	0.5	0.4	0.4	0.4
96.5°	0.3	0.5	0.5	0.4	0.4	0.4
97°	0.3	0.5	0.5	0.4	0.4	0.4
97.5°	0.3	0.5	0.5	0.4	0.4	0.4
98°	0.3	0.5	0.5	0.4	0.4	0.4
98.5°	0.3	0.5	0.5	0.4	0.4	0.4
99°	0.3	0.5	0.5	0.4	0.4	0.4
99.5°	0.3	0.5	0.5	0.4	0.4	0.4
100°	0.3	0.5	0.5	0.4	0.4	0.4
100.5°	0.3	0.5	0.5	0.4	0.4	0.4
101°	0.3	0.5	0.5	0.4	0.4	0.4
101.5°	0.3	0.5	0.5	0.4	0.4	0.4
102°	0.3	0.5	0.5	0.4	0.4	0.4
102.5°	0.3	0.5	0.5	0.4	0.4	0.4
103°	0.3	0.5	0.5	0.4	0.4	0.4
103.5°	0.3	0.5	0.5	0.4	0.4	0.4
104°	0.3	0.5	0.5	0.4	0.4	0.4
104.5°	0.3	0.5	0.5	0.4	0.4	0.4
105°	0.3	0.5	0.5	0.4	0.4	0.4
105.5°	0.3	0.5	0.5	0.4	0.4	0.4
106°	0.3	0.5	0.5	0.4	0.4	0.4
106.5°	0.3	0.5	0.5	0.4	0.4	0.4
107°	0.3	0.5	0.5	0.4	0.4	0.4
107.5°	0.3	0.5	0.5	0.4	0.4	0.4
108°	0.3	0.5	0.5	0.4	0.4	0.4
108.5°	0.3	0.5	0.5	0.4	0.4	0.4
109°	0.3	0.5	0.5	0.4	0.4	0.4
109.5°	0.3	0.5	0.5	0.4	0.4	0.4
110°	0.3	0.5	0.5	0.4	0.4	0.4
110.5°	0.3	0.5	0.5	0.4	0.4	0.4
111°	0.3	0.5	0.5	0.4	0.4	0.4
111.5°	0.3	0.5	0.5	0.4	0.4	0.4
112°	0.3	0.5	0.5	0.4	0.4	0.4



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.3	0.5	0.5	0.4	0.4	0.4
113°	0.3	0.5	0.5	0.5	0.4	0.4
113.5°	0.3	0.5	0.5	0.5	0.4	0.4
114°	0.3	0.5	0.5	0.5	0.4	0.4
114.5°	0.3	0.5	0.5	0.6	0.4	0.4
115°	0.3	0.5	0.5	0.6	0.4	0.4
115.5°	0.3	0.5	0.5	0.6	0.4	0.4
116°	0.3	0.5	0.5	0.6	0.4	0.4
116.5°	0.3	0.5	0.5	0.6	0.4	0.4
117°	0.3	0.5	0.5	0.6	0.4	0.4
117.5°	0.3	0.5	0.5	0.6	0.4	0.4
118°	0.3	0.5	0.5	0.6	0.4	0.4
118.5°	0.3	0.5	0.5	0.6	0.4	0.4
119°	0.3	0.5	0.5	0.6	0.4	0.4
119.5°	0.3	0.5	0.5	0.6	0.4	0.4
120°	0.3	0.5	0.5	0.6	0.4	0.4
120.5°	0.3	0.5	0.5	0.6	0.4	0.4
121°	0.3	0.5	0.5	0.6	0.4	0.4
121.5°	0.3	0.5	0.5	0.6	0.4	0.5
122°	0.3	0.5	0.5	0.6	0.4	0.5
122.5°	0.3	0.5	0.5	0.6	0.4	0.5
123°	0.3	0.5	0.5	0.6	0.4	0.6
123.5°	0.3	0.5	0.5	0.6	0.4	0.5
124°	0.3	0.5	0.5	0.6	0.4	0.5
124.5°	0.3	0.5	0.5	0.6	0.4	0.5
125°	0.3	0.5	0.5	0.6	0.4	0.5
125.5°	0.3	0.5	0.5	0.6	0.4	0.5
126°	0.3	0.5	0.5	0.6	0.4	0.5
126.5°	0.3	0.5	0.5	0.6	0.4	0.5
127°	0.3	0.5	0.5	0.6	0.4	0.5
127.5°	0.3	0.5	0.5	0.6	0.4	0.5
128°	0.3	0.5	0.5	0.6	0.4	0.5
128.5°	0.3	0.5	0.5	0.6	0.5	0.5
129°	0.3	0.5	0.5	0.6	0.4	0.5
129.5°	0.3	0.5	0.5	0.6	0.6	0.5
130°	0.3	0.5	0.5	0.6	0.6	0.5
130.5°	0.3	0.5	0.6	0.6	0.6	0.5
131°	0.3	0.5	0.5	0.6	0.6	0.5
131.5°	0.4	0.5	0.5	0.6	0.6	0.6
132°	0.4	0.5	0.7	0.6	0.6	0.6
132.5°	0.7	0.5	0.7	0.6	0.6	0.6
133°	0.8	0.5	0.6	0.6	0.8	0.6
133.5°	0.6	0.5	0.6	0.6	0.8	0.7
134°	0.6	0.5	0.6	0.6	0.8	0.7
134.5°	0.7	0.5	0.6	0.6	0.8	0.6



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.7	0.5	0.6	0.7	0.8	0.7
135.5°	0.6	0.5	0.7	0.6	0.8	0.7
136°	0.6	0.5	0.7	0.8	0.8	0.8
136.5°	0.6	0.5	0.7	0.7	0.8	0.7
137°	0.6	0.5	0.8	0.8	0.8	0.8
137.5°	0.6	0.5	0.8	0.8	0.9	0.8
138°	0.6	0.5	0.8	0.8	0.9	0.8
138.5°	0.6	0.5	0.8	0.8	0.9	0.8
139°	0.6	0.5	0.8	0.8	0.9	0.8
139.5°	0.6	0.5	0.8	0.8	0.9	0.8
140°	0.6	0.5	0.8	0.8	0.9	0.8
140.5°	0.6	0.5	0.8	0.8	0.8	0.8
141°	0.6	0.5	0.8	0.8	0.8	0.8
141.5°	0.6	0.5	0.8	0.8	0.8	1.1
142°	0.5	0.5	0.8	0.8	0.7	1.0
142.5°	0.5	0.5	0.8	0.8	0.7	0.9
143°	0.7	0.5	0.8	0.8	0.8	1.0
143.5°	0.7	0.5	0.8	0.8	0.8	0.7
144°	0.5	0.5	0.8	0.8	0.8	0.8
144.5°	0.5	0.5	0.8	0.8	0.8	0.8
145°	0.5	0.5	0.8	0.8	0.8	0.8
145.5°	0.7	0.5	0.8	0.8	0.8	0.8
146°	0.8	0.5	0.8	0.8	0.8	0.8
146.5°	0.7	0.5	0.8	0.8	0.8	0.8
147°	0.8	0.5	0.8	0.8	0.8	0.9
147.5°	0.8	0.5	0.8	0.8	0.8	0.9
148°	0.6	0.5	0.8	0.9	0.8	0.8
148.5°	0.7	0.6	0.8	0.8	0.8	0.9
149°	0.6	0.6	0.8	0.8	0.8	0.8
149.5°	0.7	0.6	1.0	0.8	0.8	0.8
150°	0.6	0.6	1.0	0.8	0.9	1.2
150.5°	0.7	0.6	1.0	0.8	0.8	0.9
151°	0.8	0.8	1.0	0.8	0.8	0.9
151.5°	0.6	0.8	1.0	0.8	1.0	0.8
152°	0.6	0.8	1.0	0.8	0.9	0.8
152.5°	0.8	0.8	1.0	0.8	0.9	1.0
153°	0.6	0.8	1.0	0.8	1.2	1.0
153.5°	0.8	0.9	1.0	0.8	1.0	0.8
154°	0.8	0.8	1.0	0.8	1.0	0.8
154.5°	0.6	0.8	1.0	0.8	1.0	0.8
155°	1.0	0.8	1.0	0.8	1.0	0.9
155.5°	0.9	0.8	1.0	0.8	1.1	0.9
156°	0.7	0.8	1.0	0.9	1.0	0.9
156.5°	0.7	0.9	1.0	0.9	1.0	0.9
157°	0.8	1.0	1.0	0.9	1.0	1.0



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.7	0.9	1.0	0.9	1.0	1.0
158°	0.6	0.9	1.0	0.9	1.0	1.0
158.5°	0.8	0.9	1.0	1.0	1.0	1.0
159°	0.8	0.9	1.0	1.0	1.0	1.0
159.5°	0.8	0.9	1.0	1.0	1.0	0.9
160°	0.6	0.9	1.0	1.0	1.0	0.9
160.5°	0.7	0.9	1.0	1.0	1.0	0.9
161°	0.8	0.9	1.0	1.0	1.0	0.9
161.5°	0.8	0.9	1.0	1.0	1.0	0.9
162°	0.8	0.9	1.0	1.0	1.0	0.9
162.5°	0.9	0.9	1.0	1.0	1.0	1.0
163°	0.9	0.9	1.0	1.0	1.0	1.0
163.5°	0.9	0.9	1.0	1.0	1.0	1.0
164°	0.8	0.9	1.0	1.0	1.1	1.0
164.5°	1.0	0.9	1.0	1.0	1.1	1.0
165°	0.9	1.0	1.1	1.0	1.1	1.0
165.5°	0.8	1.0	1.1	1.0	1.1	1.0
166°	0.8	1.0	1.0	1.0	1.1	1.0
166.5°	1.0	1.0	1.0	1.0	1.1	1.0
167°	0.9	1.0	1.0	1.0	1.1	1.0
167.5°	0.9	1.0	1.0	1.0	1.2	1.0
168°	0.9	1.0	1.0	1.3	1.2	1.0
168.5°	0.9	1.0	1.0	1.3	1.1	1.4
169°	1.0	1.0	1.0	1.3	1.1	1.3
169.5°	0.9	1.0	1.0	1.2	1.1	1.3
170°	1.3	1.0	1.0	1.2	1.0	1.3
170.5°	1.1	1.0	1.0	1.0	1.0	1.3
171°	1.1	1.0	1.0	1.0	1.1	1.2
171.5°	1.0	1.0	1.0	1.0	1.0	1.2
172°	1.0	1.0	1.0	1.0	1.1	1.2
172.5°	1.0	1.0	1.0	1.0	1.1	1.2
173°	1.0	1.0	1.0	1.0	1.1	1.2
173.5°	1.0	1.0	1.0	1.0	1.1	1.2
174°	0.9	1.0	1.0	1.0	1.1	1.2
174.5°	0.9	1.0	1.1	1.0	1.1	1.2
175°	1.0	1.0	1.1	1.0	1.1	1.1
175.5°	0.9	1.0	1.0	1.0	1.1	0.9
176°	1.0	1.0	1.2	1.0	1.1	1.0
176.5°	1.0	1.0	1.1	1.0	1.1	1.0
177°	1.0	1.0	1.1	1.1	1.1	1.0
177.5°	1.1	1.0	1.4	1.0	1.1	1.0
178°	1.2	1.0	1.2	1.0	1.1	1.0
178.5°	1.2	1.0	1.2	0.9	1.1	1.0
179°	1.0	1.0	1.3	0.9	1.0	1.0
179.5°	1.0	1.0	1.1	0.9	1.0	1.0



TEST NUMBER: P473755

CATALOG NUMBER: HLB4069BLE40AWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.0	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)