

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P938673

Luminaire Tested: HLB6LSFS5-1000LM-3500K

Issue Date: 1/15/2025

Test Information

Test Method: LM-79-2019
Report Number: P938673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2404367-01A001)
Test Lab:
Issue Date: 1/15/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: HLB6LSFS5-1000LM-3500K
Description: 6IN SELECTABLE LUMENS, 90CRI, DIMMING TO 10%
Light Source: SELECTABLE CCT 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1074.4 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.41 / 1.46
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

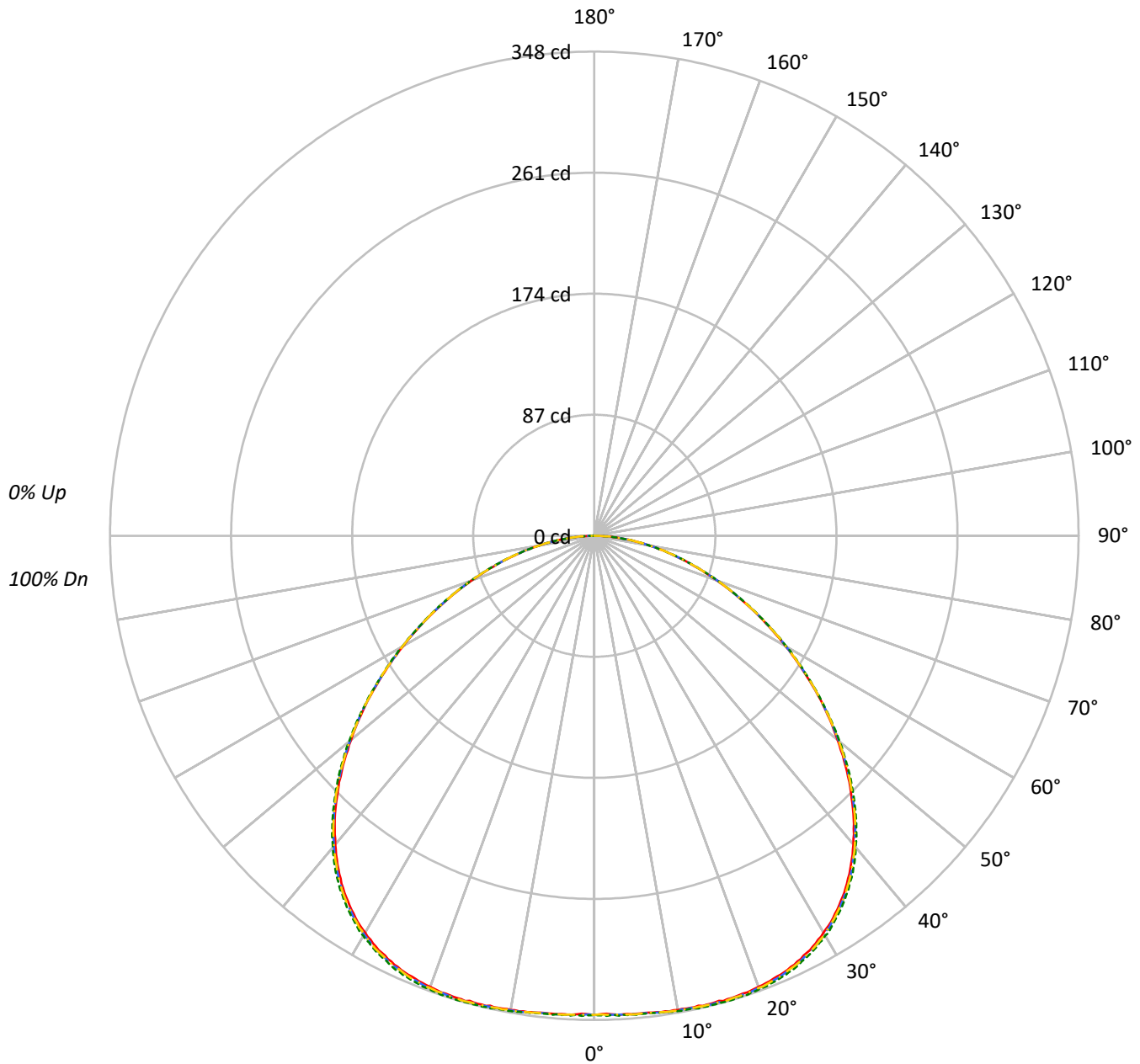
Input Watts (W): 11.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38		
7	65	51	43	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27		
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18880	18880	18880	18880
5°	18980	19024	18980	19024
10°	19266	19310	19266	19310
15°	19643	19733	19643	19733
20°	20121	20232	20121	20232
25°	20578	20705	20578	20705
30°	20851	21010	20851	21010
35°	20960	21108	20960	21108
40°	20732	20911	20732	20911
45°	20227	20413	20227	20413
50°	19454	19624	19454	19624
55°	18542	18618	18542	18618
60°	17400	17499	17400	17499
65°	16227	16318	16227	16318
70°	15019	15099	15019	15099
75°	13810	13895	13810	13895
80°	12691	12691	12691	12691
85°	11259	11259	11259	11259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 20413 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	3.1
10°-20°	98.3	9.2
20°-30°	157.2	14.6
30°-40°	196.2	18.3
40°-50°	201.8	18.8
50°-60°	173.7	16.2
60°-70°	124.5	11.6
70°-80°	69.6	6.5
80°-90°	20.1	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	288.5	26.9
0°-40°	484.7	45.1
0°-60°	860.1	80.1
0°-90°	1074.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1074.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	344	344	344	344	344	
5°	345	346	345	346	345	33
15°	346	348	346	348	346	98
25°	340	342	340	342	340	157
35°	313	315	313	315	313	195
45°	261	263	261	263	261	201
55°	194	195	194	195	194	173
65°	125	126	125	126	125	124
75°	65	66	65	66	65	69
85°	18	18	18	18	18	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4
0.5°	344.1	344.4	344.1	344.6	344.7	344.6	344.1	344.4	344.1	344.4	344.1
1°	343.8	344.5	344.2	344.5	344.7	344.5	344.2	344.5	343.8	344.5	344.2
1.5°	343.7	344.3	344.5	344.4	345.1	344.4	344.5	344.3	343.7	344.3	344.5
2°	344.1	344.4	344.5	344.7	344.7	344.7	344.5	344.4	344.1	344.4	344.5
2.5°	344.5	344.5	344.7	344.8	344.8	344.8	344.7	344.5	344.5	344.5	344.7
3°	344.8	344.5	344.6	344.7	345.5	344.7	344.6	344.5	344.8	344.5	344.6
3.5°	344.5	344.6	344.9	344.6	344.9	344.6	344.9	344.6	344.5	344.6	344.9
4°	344.5	344.6	344.9	344.9	345.4	344.9	344.9	344.6	344.5	344.6	344.9
4.5°	344.9	344.7	345.2	345.1	345.0	345.1	345.2	344.7	344.9	344.7	345.2
5°	344.9	344.9	345.2	345.3	345.7	345.3	345.2	344.9	344.9	344.9	345.2
5.5°	344.9	344.9	345.2	345.3	345.4	345.3	345.2	344.9	344.9	344.9	345.2
6°	344.9	345.1	345.1	345.3	345.5	345.3	345.1	345.1	344.9	345.1	345.1
6.5°	344.9	345.1	345.3	345.7	345.6	345.7	345.3	345.1	344.9	345.1	345.3
7°	345.3	345.3	345.4	345.6	345.6	345.6	345.4	345.3	345.3	345.3	345.4
7.5°	345.3	345.6	345.7	345.7	346.0	345.7	345.7	345.6	345.3	345.6	345.7
8°	345.7	345.5	345.8	345.5	346.0	345.5	345.8	345.5	345.7	345.5	345.8
8.5°	345.6	345.7	346.1	345.9	346.4	345.9	346.1	345.7	345.6	345.7	346.1
9°	346.1	345.6	346.2	346.2	346.4	346.2	346.2	345.6	346.1	345.6	346.2
9.5°	345.7	345.9	346.4	346.4	346.9	346.4	346.4	345.9	345.7	345.9	346.4
10°	346.1	346.1	346.5	346.4	346.9	346.4	346.5	346.1	346.1	346.1	346.5
10.5°	345.9	346.1	346.2	346.9	347.2	346.9	346.2	346.1	345.9	346.1	346.2
11°	346.2	346.4	346.8	346.8	347.0	346.8	346.8	346.4	346.2	346.4	346.8
11.5°	346.2	346.5	346.4	347.3	347.1	347.3	346.4	346.5	346.2	346.5	346.4
12°	346.5	346.5	346.8	346.9	347.3	346.9	346.8	346.5	346.5	346.5	346.8
12.5°	346.0	346.5	346.8	347.0	347.9	347.0	346.8	346.5	346.0	346.5	346.8
13°	346.7	346.9	347.0	347.1	347.5	347.1	347.0	346.9	346.7	346.9	347.0
13.5°	346.5	346.7	346.9	347.2	348.0	347.2	346.9	346.7	346.5	346.7	346.9
14°	346.6	346.8	347.2	347.7	347.7	347.7	347.2	346.8	346.6	346.8	347.2
14.5°	346.5	346.8	347.0	347.5	347.8	347.5	347.0	346.8	346.5	346.8	347.0
15°	346.1	346.6	347.1	347.7	347.7	347.7	347.1	346.6	346.1	346.6	347.1
15.5°	347.0	346.5	347.3	347.7	347.9	347.7	347.3	346.5	347.0	346.5	347.3
16°	346.5	346.5	347.3	347.3	347.9	347.3	347.3	346.5	346.5	346.5	347.3
16.5°	346.5	346.5	346.9	347.4	348.0	347.4	346.9	346.5	346.5	346.5	346.9
17°	346.4	346.5	346.9	347.5	347.9	347.5	346.9	346.5	346.4	346.5	346.9
17.5°	346.2	346.6	346.9	347.3	347.5	347.3	346.9	346.6	346.2	346.6	346.9
18°	345.9	346.2	346.6	347.2	347.8	347.2	346.6	346.2	345.9	346.2	346.6
18.5°	346.1	346.1	346.4	347.0	347.8	347.0	346.4	346.1	346.1	346.1	346.4
19°	345.7	345.7	346.6	347.0	347.1	347.0	346.6	345.7	345.7	345.7	346.6
19.5°	345.3	345.6	346.2	346.7	347.1	346.7	346.2	345.6	345.3	345.6	346.2
20°	344.9	345.4	345.7	346.5	346.8	346.5	345.7	345.4	344.9	345.4	345.7
20.5°	344.9	345.3	345.8	346.1	346.7	346.1	345.8	345.3	344.9	345.3	345.8
21°	344.3	344.8	345.3	345.9	346.7	345.9	345.3	344.8	344.3	344.8	345.3

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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°	342.9	343.5	344.2	344.5	345.2	344.5	344.2	343.5	342.9	343.5	344.2
23°	342.6	342.9	343.6	344.3	344.5	344.3	343.6	342.9	342.6	342.9	343.6
23.5°	342.1	342.4	342.9	343.7	344.4	343.7	342.9	342.4	342.1	342.4	342.9
24°	341.4	341.6	342.1	342.9	343.3	342.9	342.1	341.6	341.4	341.6	342.1
24.5°	340.5	340.9	341.6	342.5	343.2	342.5	341.6	340.9	340.5	340.9	341.6
25°	340.2	340.1	341.0	341.5	342.3	341.5	341.0	340.1	340.2	340.1	341.0
25.5°	339.0	339.7	340.2	341.0	341.5	341.0	340.2	339.7	339.0	339.7	340.2
26°	338.5	338.7	339.4	340.2	340.2	340.2	339.4	338.7	338.5	338.7	339.4
26.5°	337.1	337.8	338.4	339.5	339.7	339.5	338.4	337.8	337.1	337.8	338.4
27°	336.4	337.0	337.6	338.4	338.7	338.4	337.6	337.0	336.4	337.0	337.6
27.5°	335.8	335.8	336.7	337.4	338.0	337.4	336.7	335.8	335.8	335.8	336.7
28°	334.4	334.7	335.7	336.2	336.7	336.2	335.7	334.7	334.4	334.7	335.7
28.5°	333.4	333.7	334.4	335.3	335.8	335.3	334.4	333.7	333.4	333.7	334.4
29°	331.8	332.5	333.2	334.2	334.2	334.2	333.2	332.5	331.8	332.5	333.2
29.5°	331.0	331.4	332.2	332.9	333.7	332.9	332.2	331.4	331.0	331.4	332.2
30°	329.4	329.9	330.9	331.5	331.9	331.5	330.9	329.9	329.4	329.9	330.9
30.5°	328.1	328.2	329.2	330.2	331.4	330.2	329.2	328.2	328.1	328.2	329.2
31°	326.8	327.1	328.2	328.8	329.4	328.8	328.2	327.1	326.8	327.1	328.2
31.5°	325.5	325.5	326.3	327.3	327.9	327.3	326.3	325.5	325.5	325.5	326.3
32°	323.8	324.0	324.9	325.9	326.1	325.9	324.9	324.0	323.8	324.0	324.9
32.5°	322.0	322.6	323.2	324.3	324.7	324.3	323.2	322.6	322.0	322.6	323.2
33°	320.5	320.8	321.5	322.3	322.9	322.3	321.5	320.8	320.5	320.8	321.5
33.5°	318.7	319.1	319.9	320.7	321.4	320.7	319.9	319.1	318.7	319.1	319.9
34°	316.7	317.1	318.1	319.1	319.3	319.1	318.1	317.1	316.7	317.1	318.1
34.5°	314.9	315.3	316.3	317.2	317.7	317.2	316.3	315.3	314.9	315.3	316.3
35°	313.2	313.2	314.3	315.2	315.4	315.2	314.3	313.2	313.2	313.2	314.3
35.5°	310.8	311.2	312.4	313.2	313.9	313.2	312.4	311.2	310.8	311.2	312.4
36°	309.0	308.4	310.2	311.1	311.6	311.1	310.2	308.4	309.0	308.4	310.2
36.5°	306.4	307.0	308.0	308.8	309.2	308.8	308.0	307.0	306.4	307.0	308.0
37°	304.5	304.5	305.9	306.7	307.3	306.7	305.9	304.5	304.5	304.5	305.9
37.5°	302.1	302.5	303.7	304.5	305.1	304.5	303.7	302.5	302.1	302.5	303.7
38°	299.7	299.9	300.9	302.1	302.5	302.1	300.9	299.9	299.7	299.9	300.9
38.5°	297.1	297.7	298.6	299.6	300.2	299.6	298.6	297.7	297.1	297.7	298.6
39°	294.8	295.1	296.2	297.3	297.7	297.3	296.2	295.1	294.8	295.1	296.2
39.5°	292.1	292.7	293.8	294.6	295.1	294.6	293.8	292.7	292.1	292.7	293.8
40°	289.7	290.1	291.1	292.2	292.2	292.2	291.1	290.1	289.7	290.1	291.1
40.5°	286.7	287.3	288.5	289.4	289.7	289.4	288.5	287.3	286.7	287.3	288.5
41°	284.3	284.7	285.7	286.6	287.2	286.6	285.7	284.7	284.3	284.7	285.7
41.5°	281.4	281.8	283.0	283.9	284.3	283.9	283.0	281.8	281.4	281.8	283.0
42°	278.8	279.3	280.2	281.2	281.3	281.2	280.2	279.3	278.8	279.3	280.2
42.5°	276.0	276.2	277.3	278.1	278.7	278.1	277.3	276.2	276.0	276.2	277.3
43°	273.1	273.4	274.4	275.3	275.5	275.3	274.4	273.4	273.1	273.4	274.4
43.5°	270.0	270.3	271.2	272.3	272.6	272.3	271.2	270.3	270.0	270.3	271.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	260.9	261.1	262.3	262.9	263.3	262.9	262.3	261.1	260.9	261.1	262.3
45.5°	257.8	258.1	258.9	259.7	260.2	259.7	258.9	258.1	257.8	258.1	258.9
46°	254.9	254.9	255.8	256.8	256.9	256.8	255.8	254.9	254.9	254.9	255.8
46.5°	251.4	251.8	252.6	253.5	253.9	253.5	252.6	251.8	251.4	251.8	252.6
47°	248.2	248.2	249.4	250.3	250.5	250.3	249.4	248.2	248.2	248.2	249.4
47.5°	245.0	245.3	246.1	247.0	247.4	247.0	246.1	245.3	245.0	245.3	246.1
48°	241.5	241.9	242.7	243.5	243.7	243.5	242.7	241.9	241.5	241.9	242.7
48.5°	238.5	238.5	239.6	240.3	240.3	240.3	239.6	238.5	238.5	238.5	239.6
49°	234.7	235.1	236.1	237.0	237.3	237.0	236.1	235.1	234.7	235.1	236.1
49.5°	231.7	231.9	232.7	233.7	233.8	233.7	232.7	231.9	231.7	231.9	232.7
50°	228.1	228.4	229.2	230.1	230.1	230.1	229.2	228.4	228.1	228.4	229.2
50.5°	224.8	224.5	225.9	226.8	226.8	226.8	225.9	224.5	224.8	224.5	225.9
51°	221.5	221.3	222.2	223.3	223.3	223.3	222.2	221.3	221.5	221.3	222.2
51.5°	218.3	218.0	218.9	219.9	219.7	219.9	218.9	218.0	218.3	218.0	218.9
52°	214.9	214.3	215.3	216.3	216.2	216.3	215.3	214.3	214.9	214.3	215.3
52.5°	211.3	211.0	211.9	212.8	212.7	212.8	211.9	211.0	211.3	211.0	211.9
53°	207.8	207.5	208.5	209.2	209.0	209.2	208.5	207.5	207.8	207.5	208.5
53.5°	204.3	204.0	205.0	205.8	205.4	205.8	205.0	204.0	204.3	204.0	205.0
54°	201.1	200.3	201.4	202.3	202.0	202.3	201.4	200.3	201.1	200.3	201.4
54.5°	197.2	197.0	197.7	198.6	198.6	198.6	197.7	197.0	197.2	197.0	197.7
55°	194.0	193.4	194.4	195.2	194.8	195.2	194.4	193.4	194.0	193.4	194.4
55.5°	190.2	189.9	190.8	191.6	191.2	191.6	190.8	189.9	190.2	189.9	190.8
56°	186.8	186.4	187.2	188.0	187.7	188.0	187.2	186.4	186.8	186.4	187.2
56.5°	183.2	182.8	183.8	184.8	184.3	184.8	183.8	182.8	183.2	182.8	183.8
57°	179.8	179.2	180.3	181.1	180.5	181.1	180.3	179.2	179.8	179.2	180.3
57.5°	176.1	175.9	176.7	177.5	177.3	177.5	176.7	175.9	176.1	175.9	176.7
58°	172.8	172.3	173.0	173.9	173.7	173.9	173.0	172.3	172.8	172.3	173.0
58.5°	169.4	168.9	169.7	170.5	170.3	170.5	169.7	168.9	169.4	168.9	169.7
59°	165.7	165.4	166.1	167.0	166.4	167.0	166.1	165.4	165.7	165.4	166.1
59.5°	162.3	161.9	162.7	163.3	163.4	163.3	162.7	161.9	162.3	161.9	162.7
60°	158.7	158.5	159.2	160.0	159.6	160.0	159.2	158.5	158.7	158.5	159.2
60.5°	155.4	155.1	155.8	156.3	156.1	156.3	155.8	155.1	155.4	155.1	155.8
61°	151.9	151.7	152.4	153.0	152.8	153.0	152.4	151.7	151.9	151.7	152.4
61.5°	148.5	148.3	149.0	149.6	149.3	149.6	149.0	148.3	148.5	148.3	149.0
62°	145.1	145.0	145.5	146.2	146.0	146.2	145.5	145.0	145.1	145.0	145.5
62.5°	141.6	141.6	142.2	142.7	142.4	142.7	142.2	141.6	141.6	141.6	142.2
63°	138.2	138.2	138.8	139.3	139.0	139.3	138.8	138.2	138.2	138.2	138.8
63.5°	135.1	134.9	135.4	136.0	135.9	136.0	135.4	134.9	135.1	134.9	135.4
64°	131.7	131.6	132.1	132.6	132.5	132.6	132.1	131.6	131.7	131.6	132.1
64.5°	128.4	128.3	128.8	129.3	129.2	129.3	128.8	128.3	128.4	128.3	128.8
65°	125.1	125.1	125.5	126.0	125.8	126.0	125.5	125.1	125.1	125.1	125.5
65.5°	121.8	121.8	122.2	122.6	122.6	122.6	122.2	121.8	121.8	121.8	122.2
66°	118.5	118.6	119.0	119.3	119.4	119.3	119.0	118.6	118.5	118.6	119.0

TEST NUMBER: P938673

CATALOG NUMBER: HLB6LSFS5-1000LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	109.0	109.2	109.4	109.7	109.8	109.7	109.4	109.2	109.0	109.2	109.4
68°	105.9	106.0	106.3	106.7	106.5	106.7	106.3	106.0	105.9	106.0	106.3
68.5°	102.8	102.8	103.2	103.4	103.6	103.4	103.2	102.8	102.8	102.8	103.2
69°	99.9	99.8	100.1	100.4	100.3	100.4	100.1	99.8	99.9	99.8	100.1
69.5°	96.7	96.8	97.0	97.3	97.3	97.3	97.0	96.8	96.7	96.8	97.0
70°	93.7	93.7	94.0	94.2	94.2	94.2	94.0	93.7	93.7	93.7	94.0
70.5°	90.5	90.7	90.9	91.2	91.3	91.2	90.9	90.7	90.5	90.7	90.9
71°	87.6	87.8	88.0	88.2	88.2	88.2	88.0	87.8	87.6	87.8	88.0
71.5°	84.7	84.9	85.0	85.3	85.4	85.3	85.0	84.9	84.7	84.9	85.0
72°	81.8	81.9	82.1	82.3	82.3	82.3	82.1	81.9	81.8	81.9	82.1
72.5°	79.0	79.0	79.2	79.4	79.4	79.4	79.2	79.0	79.0	79.0	79.2
73°	76.1	76.3	76.4	76.7	76.6	76.7	76.4	76.3	76.1	76.3	76.4
73.5°	73.5	73.5	73.6	73.9	73.9	73.9	73.6	73.5	73.5	73.5	73.6
74°	70.6	70.7	70.9	71.1	71.0	71.1	70.9	70.7	70.6	70.7	70.9
74.5°	67.9	68.0	68.2	68.3	68.3	68.3	68.2	68.0	67.9	68.0	68.2
75°	65.2	65.3	65.6	65.7	65.6	65.7	65.6	65.3	65.2	65.3	65.6
75.5°	62.6	62.7	62.8	63.0	63.0	63.0	62.8	62.7	62.6	62.7	62.8
76°	60.0	60.0	60.1	60.3	60.3	60.3	60.1	60.0	60.0	60.0	60.1
76.5°	57.4	57.4	57.6	57.6	57.6	57.6	57.6	57.4	57.4	57.4	57.6
77°	54.9	54.9	55.0	55.2	55.0	55.2	55.0	54.9	54.9	54.9	55.0
77.5°	52.4	52.3	52.5	52.6	52.5	52.6	52.5	52.3	52.4	52.3	52.5
78°	50.0	49.8	50.0	50.1	50.0	50.1	50.0	49.8	50.0	49.8	50.0
78.5°	47.4	47.3	47.5	47.6	47.4	47.6	47.5	47.3	47.4	47.3	47.5
79°	45.0	44.9	45.0	45.2	45.0	45.2	45.0	44.9	45.0	44.9	45.0
79.5°	42.6	42.5	42.6	42.7	42.6	42.7	42.6	42.5	42.6	42.5	42.6
80°	40.2	40.1	40.2	40.2	40.2	40.2	40.2	40.1	40.2	40.1	40.2
80.5°	37.8	37.8	37.9	38.0	37.8	38.0	37.9	37.8	37.8	37.8	37.9
81°	35.5	35.5	35.5	35.6	35.5	35.6	35.5	35.5	35.5	35.5	35.5
81.5°	33.1	33.1	33.2	33.4	33.2	33.4	33.2	33.1	33.1	33.1	33.2
82°	30.9	30.8	30.9	31.1	30.8	31.1	30.9	30.8	30.9	30.8	30.9
82.5°	28.7	28.6	28.7	28.8	28.5	28.8	28.7	28.6	28.7	28.6	28.7
83°	26.4	26.4	26.5	26.7	26.4	26.7	26.5	26.4	26.4	26.4	26.5
83.5°	24.3	24.3	24.4	24.4	24.3	24.4	24.4	24.3	24.3	24.3	24.4
84°	22.2	22.1	22.2	22.3	22.1	22.3	22.2	22.1	22.2	22.1	22.2
84.5°	20.0	20.0	20.1	20.2	20.0	20.2	20.1	20.0	20.0	20.0	20.1
85°	17.9	17.9	18.0	18.0	17.9	18.0	18.0	17.9	17.9	17.9	18.0
85.5°	15.8	15.7	15.9	16.0	15.8	16.0	15.9	15.7	15.8	15.7	15.9
86°	13.7	13.7	13.8	13.9	13.8	13.9	13.8	13.7	13.7	13.7	13.8
86.5°	11.7	11.7	11.8	11.8	11.7	11.8	11.8	11.7	11.7	11.7	11.8
87°	9.8	9.7	9.8	9.9	9.8	9.9	9.8	9.7	9.8	9.7	9.8
87.5°	7.8	7.8	7.8	7.9	7.8	7.9	7.8	7.8	7.8	7.8	7.8
88°	5.9	5.9	5.9	6.0	5.9	6.0	5.9	5.9	5.9	5.9	5.9
88.5°	4.0	3.9	3.9	4.0	4.0	4.0	3.9	3.9	4.0	3.9	3.9



TEST NUMBER: P938673
CATALOG NUMBER: HLB6LSFS5-1000LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P938673

CATALOG NUMBER: HLB6LSFS5-1000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	344.4	344.4	344.4	344.4	344.4	344.4
0.5°	344.6	344.7	344.6	344.1	344.4	344.1
1°	344.5	344.7	344.5	344.2	344.5	343.8
1.5°	344.4	345.1	344.4	344.5	344.3	343.7
2°	344.7	344.7	344.7	344.5	344.4	344.1
2.5°	344.8	344.8	344.8	344.7	344.5	344.5
3°	344.7	345.5	344.7	344.6	344.5	344.8
3.5°	344.6	344.9	344.6	344.9	344.6	344.5
4°	344.9	345.4	344.9	344.9	344.6	344.5
4.5°	345.1	345.0	345.1	345.2	344.7	344.9
5°	345.3	345.7	345.3	345.2	344.9	344.9
5.5°	345.3	345.4	345.3	345.2	344.9	344.9
6°	345.3	345.5	345.3	345.1	345.1	344.9
6.5°	345.7	345.6	345.7	345.3	345.1	344.9
7°	345.6	345.6	345.6	345.4	345.3	345.3
7.5°	345.7	346.0	345.7	345.7	345.6	345.3
8°	345.5	346.0	345.5	345.8	345.5	345.7
8.5°	345.9	346.4	345.9	346.1	345.7	345.6
9°	346.2	346.4	346.2	346.2	345.6	346.1
9.5°	346.4	346.9	346.4	346.4	345.9	345.7
10°	346.4	346.9	346.4	346.5	346.1	346.1
10.5°	346.9	347.2	346.9	346.2	346.1	345.9
11°	346.8	347.0	346.8	346.8	346.4	346.2
11.5°	347.3	347.1	347.3	346.4	346.5	346.2
12°	346.9	347.3	346.9	346.8	346.5	346.5
12.5°	347.0	347.9	347.0	346.8	346.5	346.0
13°	347.1	347.5	347.1	347.0	346.9	346.7
13.5°	347.2	348.0	347.2	346.9	346.7	346.5
14°	347.7	347.7	347.7	347.2	346.8	346.6
14.5°	347.5	347.8	347.5	347.0	346.8	346.5
15°	347.7	347.7	347.7	347.1	346.6	346.1
15.5°	347.7	347.9	347.7	347.3	346.5	347.0
16°	347.3	347.9	347.3	347.3	346.5	346.5
16.5°	347.4	348.0	347.4	346.9	346.5	346.5
17°	347.5	347.9	347.5	346.9	346.5	346.4
17.5°	347.3	347.5	347.3	346.9	346.6	346.2
18°	347.2	347.8	347.2	346.6	346.2	345.9
18.5°	347.0	347.8	347.0	346.4	346.1	346.1
19°	347.0	347.1	347.0	346.6	345.7	345.7
19.5°	346.7	347.1	346.7	346.2	345.6	345.3
20°	346.5	346.8	346.5	345.7	345.4	344.9
20.5°	346.1	346.7	346.1	345.8	345.3	344.9
21°	345.9	346.7	345.9	345.3	344.8	344.3



TEST NUMBER: P938673

CATALOG NUMBER: HLB6LSFS5-1000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	344.5	345.2	344.5	344.2	343.5	342.9
23°	344.3	344.5	344.3	343.6	342.9	342.6
23.5°	343.7	344.4	343.7	342.9	342.4	342.1
24°	342.9	343.3	342.9	342.1	341.6	341.4
24.5°	342.5	343.2	342.5	341.6	340.9	340.5
25°	341.5	342.3	341.5	341.0	340.1	340.2
25.5°	341.0	341.5	341.0	340.2	339.7	339.0
26°	340.2	340.2	340.2	339.4	338.7	338.5
26.5°	339.5	339.7	339.5	338.4	337.8	337.1
27°	338.4	338.7	338.4	337.6	337.0	336.4
27.5°	337.4	338.0	337.4	336.7	335.8	335.8
28°	336.2	336.7	336.2	335.7	334.7	334.4
28.5°	335.3	335.8	335.3	334.4	333.7	333.4
29°	334.2	334.2	334.2	333.2	332.5	331.8
29.5°	332.9	333.7	332.9	332.2	331.4	331.0
30°	331.5	331.9	331.5	330.9	329.9	329.4
30.5°	330.2	331.4	330.2	329.2	328.2	328.1
31°	328.8	329.4	328.8	328.2	327.1	326.8
31.5°	327.3	327.9	327.3	326.3	325.5	325.5
32°	325.9	326.1	325.9	324.9	324.0	323.8
32.5°	324.3	324.7	324.3	323.2	322.6	322.0
33°	322.3	322.9	322.3	321.5	320.8	320.5
33.5°	320.7	321.4	320.7	319.9	319.1	318.7
34°	319.1	319.3	319.1	318.1	317.1	316.7
34.5°	317.2	317.7	317.2	316.3	315.3	314.9
35°	315.2	315.4	315.2	314.3	313.2	313.2
35.5°	313.2	313.9	313.2	312.4	311.2	310.8
36°	311.1	311.6	311.1	310.2	308.4	309.0
36.5°	308.8	309.2	308.8	308.0	307.0	306.4
37°	306.7	307.3	306.7	305.9	304.5	304.5
37.5°	304.5	305.1	304.5	303.7	302.5	302.1
38°	302.1	302.5	302.1	300.9	299.9	299.7
38.5°	299.6	300.2	299.6	298.6	297.7	297.1
39°	297.3	297.7	297.3	296.2	295.1	294.8
39.5°	294.6	295.1	294.6	293.8	292.7	292.1
40°	292.2	292.2	292.2	291.1	290.1	289.7
40.5°	289.4	289.7	289.4	288.5	287.3	286.7
41°	286.6	287.2	286.6	285.7	284.7	284.3
41.5°	283.9	284.3	283.9	283.0	281.8	281.4
42°	281.2	281.3	281.2	280.2	279.3	278.8
42.5°	278.1	278.7	278.1	277.3	276.2	276.0
43°	275.3	275.5	275.3	274.4	273.4	273.1
43.5°	272.3	272.6	272.3	271.2	270.3	270.0



TEST NUMBER: P938673

CATALOG NUMBER: HLB6LSFS5-1000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	262.9	263.3	262.9	262.3	261.1	260.9
45.5°	259.7	260.2	259.7	258.9	258.1	257.8
46°	256.8	256.9	256.8	255.8	254.9	254.9
46.5°	253.5	253.9	253.5	252.6	251.8	251.4
47°	250.3	250.5	250.3	249.4	248.2	248.2
47.5°	247.0	247.4	247.0	246.1	245.3	245.0
48°	243.5	243.7	243.5	242.7	241.9	241.5
48.5°	240.3	240.3	240.3	239.6	238.5	238.5
49°	237.0	237.3	237.0	236.1	235.1	234.7
49.5°	233.7	233.8	233.7	232.7	231.9	231.7
50°	230.1	230.1	230.1	229.2	228.4	228.1
50.5°	226.8	226.8	226.8	225.9	224.5	224.8
51°	223.3	223.3	223.3	222.2	221.3	221.5
51.5°	219.9	219.7	219.9	218.9	218.0	218.3
52°	216.3	216.2	216.3	215.3	214.3	214.9
52.5°	212.8	212.7	212.8	211.9	211.0	211.3
53°	209.2	209.0	209.2	208.5	207.5	207.8
53.5°	205.8	205.4	205.8	205.0	204.0	204.3
54°	202.3	202.0	202.3	201.4	200.3	201.1
54.5°	198.6	198.6	198.6	197.7	197.0	197.2
55°	195.2	194.8	195.2	194.4	193.4	194.0
55.5°	191.6	191.2	191.6	190.8	189.9	190.2
56°	188.0	187.7	188.0	187.2	186.4	186.8
56.5°	184.8	184.3	184.8	183.8	182.8	183.2
57°	181.1	180.5	181.1	180.3	179.2	179.8
57.5°	177.5	177.3	177.5	176.7	175.9	176.1
58°	173.9	173.7	173.9	173.0	172.3	172.8
58.5°	170.5	170.3	170.5	169.7	168.9	169.4
59°	167.0	166.4	167.0	166.1	165.4	165.7
59.5°	163.3	163.4	163.3	162.7	161.9	162.3
60°	160.0	159.6	160.0	159.2	158.5	158.7
60.5°	156.3	156.1	156.3	155.8	155.1	155.4
61°	153.0	152.8	153.0	152.4	151.7	151.9
61.5°	149.6	149.3	149.6	149.0	148.3	148.5
62°	146.2	146.0	146.2	145.5	145.0	145.1
62.5°	142.7	142.4	142.7	142.2	141.6	141.6
63°	139.3	139.0	139.3	138.8	138.2	138.2
63.5°	136.0	135.9	136.0	135.4	134.9	135.1
64°	132.6	132.5	132.6	132.1	131.6	131.7
64.5°	129.3	129.2	129.3	128.8	128.3	128.4
65°	126.0	125.8	126.0	125.5	125.1	125.1
65.5°	122.6	122.6	122.6	122.2	121.8	121.8
66°	119.3	119.4	119.3	119.0	118.6	118.5



TEST NUMBER: P938673

CATALOG NUMBER: HLB6LSFS5-1000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	109.7	109.8	109.7	109.4	109.2	109.0
68°	106.7	106.5	106.7	106.3	106.0	105.9
68.5°	103.4	103.6	103.4	103.2	102.8	102.8
69°	100.4	100.3	100.4	100.1	99.8	99.9
69.5°	97.3	97.3	97.3	97.0	96.8	96.7
70°	94.2	94.2	94.2	94.0	93.7	93.7
70.5°	91.2	91.3	91.2	90.9	90.7	90.5
71°	88.2	88.2	88.2	88.0	87.8	87.6
71.5°	85.3	85.4	85.3	85.0	84.9	84.7
72°	82.3	82.3	82.3	82.1	81.9	81.8
72.5°	79.4	79.4	79.4	79.2	79.0	79.0
73°	76.7	76.6	76.7	76.4	76.3	76.1
73.5°	73.9	73.9	73.9	73.6	73.5	73.5
74°	71.1	71.0	71.1	70.9	70.7	70.6
74.5°	68.3	68.3	68.3	68.2	68.0	67.9
75°	65.7	65.6	65.7	65.6	65.3	65.2
75.5°	63.0	63.0	63.0	62.8	62.7	62.6
76°	60.3	60.3	60.3	60.1	60.0	60.0
76.5°	57.6	57.6	57.6	57.6	57.4	57.4
77°	55.2	55.0	55.2	55.0	54.9	54.9
77.5°	52.6	52.5	52.6	52.5	52.3	52.4
78°	50.1	50.0	50.1	50.0	49.8	50.0
78.5°	47.6	47.4	47.6	47.5	47.3	47.4
79°	45.2	45.0	45.2	45.0	44.9	45.0
79.5°	42.7	42.6	42.7	42.6	42.5	42.6
80°	40.2	40.2	40.2	40.2	40.1	40.2
80.5°	38.0	37.8	38.0	37.9	37.8	37.8
81°	35.6	35.5	35.6	35.5	35.5	35.5
81.5°	33.4	33.2	33.4	33.2	33.1	33.1
82°	31.1	30.8	31.1	30.9	30.8	30.9
82.5°	28.8	28.5	28.8	28.7	28.6	28.7
83°	26.7	26.4	26.7	26.5	26.4	26.4
83.5°	24.4	24.3	24.4	24.4	24.3	24.3
84°	22.3	22.1	22.3	22.2	22.1	22.2
84.5°	20.2	20.0	20.2	20.1	20.0	20.0
85°	18.0	17.9	18.0	18.0	17.9	17.9
85.5°	16.0	15.8	16.0	15.9	15.7	15.8
86°	13.9	13.8	13.9	13.8	13.7	13.7
86.5°	11.8	11.7	11.8	11.8	11.7	11.7
87°	9.9	9.8	9.9	9.8	9.7	9.8
87.5°	7.9	7.8	7.9	7.8	7.8	7.8
88°	6.0	5.9	6.0	5.9	5.9	5.9
88.5°	4.0	4.0	4.0	3.9	3.9	4.0



TEST NUMBER: P938673
CATALOG NUMBER: HLB6LSFS5-1000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





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







21.5°	344.1	344.4	344.9	345.9	346.0	345.9	344.9	344.4	344.1	344.4	344.9
22°	343.4	343.8	344.3	345.0	345.7	345.0	344.3	343.8	343.4	343.8	344.3



44°	267.0	267.2	268.3	269.0	269.4	269.0	268.3	267.2	267.0	267.2	268.3
44.5°	263.8	264.3	265.3	266.1	266.4	266.1	265.3	264.3	263.8	264.3	265.3



66.5°	115.2	115.4	115.8	116.2	116.1	116.2	115.8	115.4	115.2	115.4	115.8
67°	112.1	112.3	112.5	113.0	112.9	113.0	112.5	112.3	112.1	112.3	112.5



89°	2.1	2.1	2.3	2.4	2.6	2.4	2.3	2.1	2.1	2.1	2.3
89.5°	1.2	1.2	1.4	1.3	1.4	1.3	1.4	1.2	1.2	1.2	1.4





21.5°	345.9	346.0	345.9	344.9	344.4	344.1
22°	345.0	345.7	345.0	344.3	343.8	343.4



44°	269.0	269.4	269.0	268.3	267.2	267.0
44.5°	266.1	266.4	266.1	265.3	264.3	263.8



66.5°	116.2	116.1	116.2	115.8	115.4	115.2
67°	113.0	112.9	113.0	112.5	112.3	112.1



89°	2.4	2.6	2.4	2.3	2.1	2.1
89.5°	1.3	1.4	1.3	1.4	1.2	1.2



(END OF REPORT)