

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: P938683

Luminaire Tested: HLB6LSFS5-800LM-3500K

Issue Date: 1/15/2025

Test Information

Test Method: LM-79-2019
Report Number: P938683
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: HLB6LSFS5-800LM-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: 873.6 lumens
Efficiency: N/A
Efficacy: 98.2 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

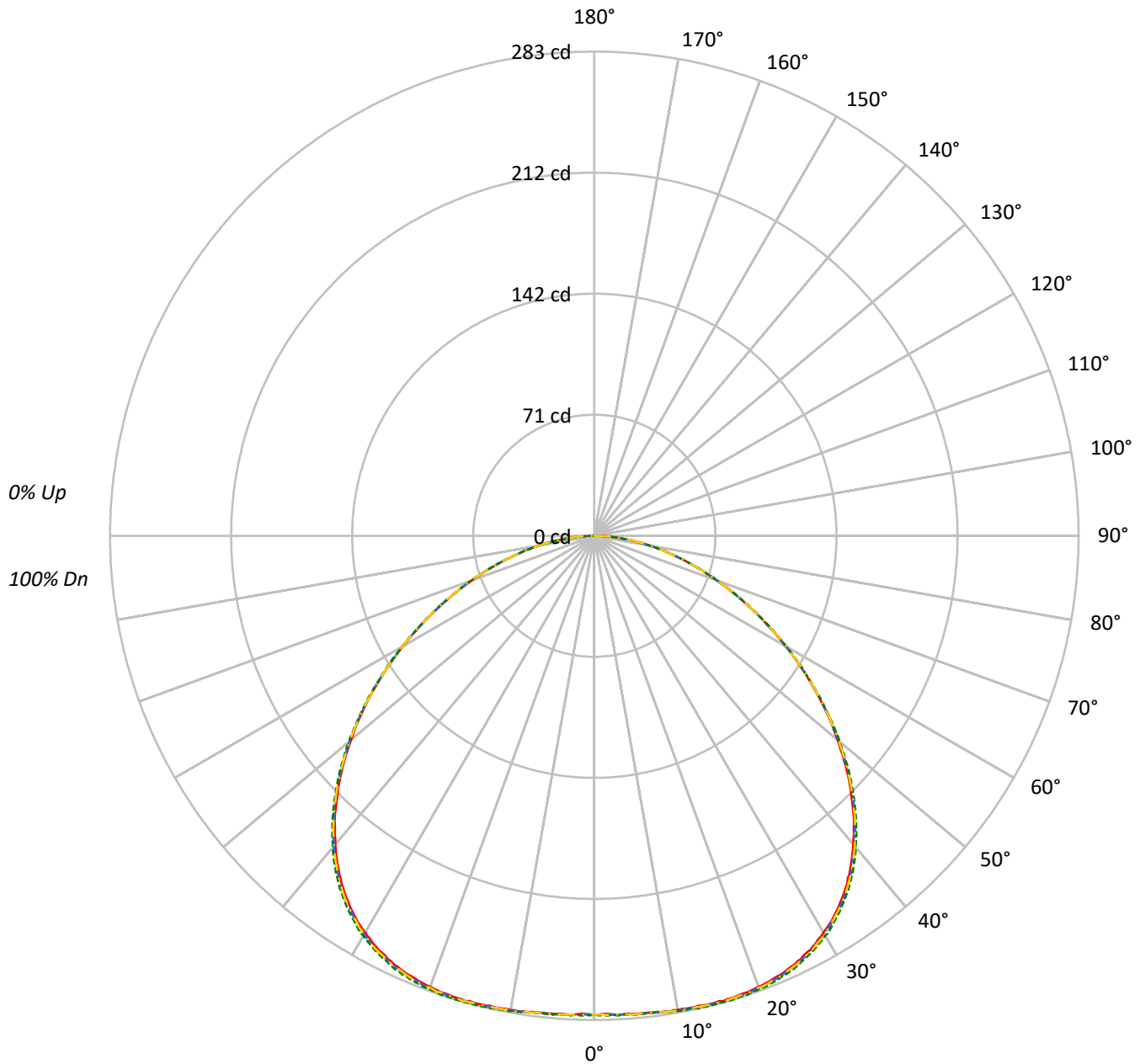
Input Watts (W): 8.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					10
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°	15350	15350	15350	15350
5°	15436	15469	15436	15469
10°	15670	15703	15670	15703
15°	15976	16044	15976	16044
20°	16364	16451	16364	16451
25°	16737	16834	16737	16834
30°	16952	17085	16952	17085
35°	17039	17166	17039	17166
40°	16860	17003	16860	17003
45°	16444	16599	16444	16599
50°	15820	15957	15820	15957
55°	15082	15139	15082	15139
60°	14155	14231	14155	14231
65°	13192	13270	13192	13270
70°	12214	12278	12214	12278
75°	11226	11289	11226	11289
80°	10323	10323	10323	10323
85°	9120	9120	9120	9120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 16599 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	3.1
10°-20°	79.9	9.2
20°-30°	127.8	14.6
30°-40°	159.5	18.3
40°-50°	164.1	18.8
50°-60°	141.2	16.2
60°-70°	101.2	11.6
70°-80°	56.6	6.5
80°-90°	16.4	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°	234.6	26.9
0°-40°	394.1	45.1
0°-60°	699.4	80.1
0°-90°	873.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	873.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	280	280	280	280	280	
5°	280	281	280	281	280	27
15°	282	283	282	283	282	80
25°	277	278	277	278	277	127
35°	255	256	255	256	255	159
45°	212	214	212	214	212	163
55°	158	158	158	158	158	141
65°	102	102	102	102	102	101
75°	53	53	53	53	53	56
85°	14	14	14	14	14	16
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°	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0
0.5°	279.8	280.0	279.8	280.2	280.3	280.2	279.8	280.0	279.8	280.0	279.8
1°	279.6	280.2	279.9	280.1	280.3	280.1	279.9	280.2	279.6	280.2	279.9
1.5°	279.5	280.0	280.2	280.0	280.6	280.0	280.2	280.0	279.5	280.0	280.2
2°	279.8	280.0	280.1	280.3	280.3	280.3	280.1	280.0	279.8	280.0	280.1
2.5°	280.1	280.2	280.3	280.4	280.4	280.4	280.3	280.2	280.1	280.2	280.3
3°	280.4	280.2	280.2	280.3	280.9	280.3	280.2	280.2	280.4	280.2	280.2
3.5°	280.2	280.2	280.4	280.2	280.4	280.2	280.4	280.2	280.2	280.2	280.4
4°	280.1	280.2	280.5	280.5	280.9	280.5	280.5	280.2	280.1	280.2	280.5
4.5°	280.4	280.3	280.7	280.6	280.6	280.6	280.7	280.3	280.4	280.3	280.7
5°	280.5	280.5	280.7	280.7	281.1	280.7	280.7	280.5	280.5	280.5	280.7
5.5°	280.5	280.4	280.7	280.7	280.9	280.7	280.7	280.4	280.5	280.4	280.7
6°	280.5	280.6	280.6	280.8	280.9	280.8	280.6	280.6	280.5	280.6	280.6
6.5°	280.5	280.6	280.8	281.1	281.0	281.1	280.8	280.6	280.5	280.6	280.8
7°	280.7	280.8	280.9	281.0	281.0	281.0	280.9	280.8	280.7	280.8	280.9
7.5°	280.7	281.0	281.1	281.1	281.3	281.1	281.1	281.0	280.7	281.0	281.1
8°	281.1	280.9	281.2	280.9	281.3	280.9	281.2	280.9	281.1	280.9	281.2
8.5°	281.0	281.1	281.4	281.3	281.7	281.3	281.4	281.1	281.0	281.1	281.4
9°	281.5	281.0	281.5	281.5	281.7	281.5	281.5	281.0	281.5	281.0	281.5
9.5°	281.1	281.3	281.7	281.7	282.0	281.7	281.7	281.3	281.1	281.3	281.7
10°	281.5	281.5	281.7	281.7	282.1	281.7	281.7	281.5	281.5	281.5	281.7
10.5°	281.3	281.5	281.5	282.0	282.3	282.0	281.5	281.5	281.3	281.5	281.5
11°	281.5	281.7	282.0	282.0	282.2	282.0	282.0	281.7	281.5	281.7	282.0
11.5°	281.5	281.7	281.7	282.4	282.2	282.4	281.7	281.7	281.5	281.7	281.7
12°	281.8	281.8	282.0	282.1	282.4	282.1	282.0	281.8	281.8	281.8	282.0
12.5°	281.3	281.7	282.0	282.2	282.9	282.2	282.0	281.7	281.3	281.7	282.0
13°	281.9	282.0	282.2	282.2	282.6	282.2	282.2	282.0	281.9	282.0	282.2
13.5°	281.8	281.9	282.1	282.3	283.0	282.3	282.1	281.9	281.8	281.9	282.1
14°	281.9	282.0	282.3	282.7	282.8	282.7	282.3	282.0	281.9	282.0	282.3
14.5°	281.8	282.0	282.2	282.6	282.8	282.6	282.2	282.0	281.8	282.0	282.2
15°	281.5	281.9	282.2	282.7	282.7	282.7	282.2	281.9	281.5	281.9	282.2
15.5°	282.2	281.8	282.4	282.8	282.9	282.8	282.4	281.8	282.2	281.8	282.4
16°	281.8	281.8	282.4	282.4	282.9	282.4	282.4	281.8	281.8	281.8	282.4
16.5°	281.8	281.7	282.1	282.5	283.0	282.5	282.1	281.7	281.8	281.7	282.1
17°	281.7	281.8	282.1	282.6	282.9	282.6	282.1	281.8	281.7	281.8	282.1
17.5°	281.5	281.9	282.0	282.4	282.6	282.4	282.0	281.9	281.5	281.9	282.0
18°	281.3	281.5	281.9	282.3	282.8	282.3	281.9	281.5	281.3	281.5	281.9
18.5°	281.4	281.5	281.7	282.2	282.8	282.2	281.7	281.5	281.4	281.5	281.7
19°	281.1	281.1	281.9	282.2	282.2	282.2	281.9	281.1	281.1	281.1	281.9
19.5°	280.8	281.0	281.5	281.9	282.2	281.9	281.5	281.0	280.8	281.0	281.5
20°	280.5	280.9	281.1	281.7	282.0	281.7	281.1	280.9	280.5	280.9	281.1
20.5°	280.4	280.7	281.2	281.5	281.9	281.5	281.2	280.7	280.4	280.7	281.2
21°	280.0	280.4	280.8	281.3	281.9	281.3	280.8	280.4	280.0	280.4	280.8

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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°	278.9	279.3	279.9	280.2	280.7	280.2	279.9	279.3	278.9	279.3	279.9
23°	278.6	278.8	279.4	280.0	280.1	280.0	279.4	278.8	278.6	278.8	279.4
23.5°	278.2	278.4	278.9	279.4	280.0	279.4	278.9	278.4	278.2	278.4	278.9
24°	277.6	277.8	278.2	278.8	279.2	278.8	278.2	277.8	277.6	277.8	278.2
24.5°	276.9	277.2	277.8	278.5	279.1	278.5	277.8	277.2	276.9	277.2	277.8
25°	276.7	276.6	277.3	277.7	278.3	277.7	277.3	276.6	276.7	276.6	277.3
25.5°	275.7	276.3	276.7	277.3	277.7	277.3	276.7	276.3	275.7	276.3	276.7
26°	275.2	275.4	276.0	276.7	276.7	276.7	276.0	275.4	275.2	275.4	276.0
26.5°	274.1	274.7	275.2	276.1	276.3	276.1	275.2	274.7	274.1	274.7	275.2
27°	273.5	274.0	274.5	275.2	275.4	275.2	274.5	274.0	273.5	274.0	274.5
27.5°	273.0	273.1	273.8	274.3	274.8	274.3	273.8	273.1	273.0	273.1	273.8
28°	271.9	272.2	273.0	273.4	273.8	273.4	273.0	272.2	271.9	272.2	273.0
28.5°	271.1	271.3	271.9	272.6	273.1	272.6	271.9	271.3	271.1	271.3	271.9
29°	269.8	270.4	270.9	271.8	271.8	271.8	270.9	270.4	269.8	270.4	270.9
29.5°	269.1	269.5	270.1	270.7	271.3	270.7	270.1	269.5	269.1	269.5	270.1
30°	267.8	268.3	269.1	269.6	269.9	269.6	269.1	268.3	267.8	268.3	269.1
30.5°	266.8	266.9	267.7	268.5	269.5	268.5	267.7	266.9	266.8	266.9	267.7
31°	265.7	266.0	266.9	267.4	267.9	267.4	266.9	266.0	265.7	266.0	266.9
31.5°	264.7	264.7	265.3	266.1	266.7	266.1	265.3	264.7	264.7	264.7	265.3
32°	263.3	263.5	264.2	265.0	265.2	265.0	264.2	263.5	263.3	263.5	264.2
32.5°	261.9	262.3	262.8	263.7	264.0	263.7	262.8	262.3	261.9	262.3	262.8
33°	260.6	260.9	261.5	262.0	262.6	262.0	261.5	260.9	260.6	260.9	261.5
33.5°	259.1	259.5	260.1	260.8	261.3	260.8	260.1	259.5	259.1	259.5	260.1
34°	257.5	257.8	258.7	259.5	259.6	259.5	258.7	257.8	257.5	257.8	258.7
34.5°	256.1	256.4	257.2	258.0	258.3	258.0	257.2	256.4	256.1	256.4	257.2
35°	254.6	254.6	255.6	256.3	256.5	256.3	255.6	254.6	254.6	254.6	255.6
35.5°	252.8	253.1	254.0	254.6	255.2	254.6	254.0	253.1	252.8	253.1	254.0
36°	251.3	250.8	252.2	253.0	253.4	253.0	252.2	250.8	251.3	250.8	252.2
36.5°	249.1	249.6	250.5	251.1	251.5	251.1	250.5	249.6	249.1	249.6	250.5
37°	247.6	247.6	248.7	249.4	249.8	249.4	248.7	247.6	247.6	247.6	248.7
37.5°	245.6	246.0	246.9	247.6	248.1	247.6	246.9	246.0	245.6	246.0	246.9
38°	243.7	243.9	244.7	245.7	245.9	245.7	244.7	243.9	243.7	243.9	244.7
38.5°	241.6	242.1	242.8	243.6	244.1	243.6	242.8	242.1	241.6	242.1	242.8
39°	239.7	240.0	240.8	241.7	242.1	241.7	240.8	240.0	239.7	240.0	240.8
39.5°	237.5	238.0	238.9	239.5	240.0	239.5	238.9	238.0	237.5	238.0	238.9
40°	235.6	235.9	236.7	237.6	237.6	237.6	236.7	235.9	235.6	235.9	236.7
40.5°	233.2	233.6	234.6	235.3	235.6	235.3	234.6	233.6	233.2	233.6	234.6
41°	231.2	231.5	232.3	233.0	233.5	233.0	232.3	231.5	231.2	231.5	232.3
41.5°	228.8	229.1	230.1	230.9	231.1	230.9	230.1	229.1	228.8	229.1	230.1
42°	226.7	227.1	227.8	228.7	228.7	228.7	227.8	227.1	226.7	227.1	227.8
42.5°	224.5	224.6	225.5	226.1	226.7	226.1	225.5	224.6	224.5	224.6	225.5
43°	222.1	222.3	223.2	223.9	224.0	223.9	223.2	222.3	222.1	222.3	223.2
43.5°	219.5	219.8	220.5	221.4	221.7	221.4	220.5	219.8	219.5	219.8	220.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	212.1	212.3	213.3	213.8	214.1	213.8	213.3	212.3	212.1	212.3	213.3
45.5°	209.7	209.9	210.6	211.1	211.6	211.1	210.6	209.9	209.7	209.9	210.6
46°	207.2	207.2	208.0	208.8	208.9	208.8	208.0	207.2	207.2	207.2	208.0
46.5°	204.5	204.7	205.4	206.1	206.5	206.1	205.4	204.7	204.5	204.7	205.4
47°	201.8	201.9	202.8	203.5	203.7	203.5	202.8	201.9	201.8	201.9	202.8
47.5°	199.3	199.5	200.1	200.9	201.2	200.9	200.1	199.5	199.3	199.5	200.1
48°	196.4	196.7	197.3	198.0	198.2	198.0	197.3	196.7	196.4	196.7	197.3
48.5°	193.9	193.9	194.8	195.4	195.4	195.4	194.8	193.9	193.9	193.9	194.8
49°	190.9	191.2	192.0	192.7	193.0	192.7	192.0	191.2	190.9	191.2	192.0
49.5°	188.4	188.6	189.2	190.0	190.1	190.0	189.2	188.6	188.4	188.6	189.2
50°	185.5	185.8	186.3	187.1	187.1	187.1	186.3	185.8	185.5	185.8	186.3
50.5°	182.8	182.6	183.7	184.5	184.5	184.5	183.7	182.6	182.8	182.6	183.7
51°	180.1	180.0	180.7	181.5	181.5	181.5	180.7	180.0	180.1	180.0	180.7
51.5°	177.5	177.3	178.0	178.8	178.7	178.8	178.0	177.3	177.5	177.3	178.0
52°	174.8	174.3	175.1	175.9	175.8	175.9	175.1	174.3	174.8	174.3	175.1
52.5°	171.8	171.5	172.3	173.0	173.0	173.0	172.3	171.5	171.8	171.5	172.3
53°	169.0	168.7	169.5	170.1	170.0	170.1	169.5	168.7	169.0	168.7	169.5
53.5°	166.2	165.9	166.7	167.4	167.1	167.4	166.7	165.9	166.2	165.9	166.7
54°	163.5	162.9	163.7	164.5	164.3	164.5	163.7	162.9	163.5	162.9	163.7
54.5°	160.4	160.2	160.8	161.5	161.5	161.5	160.8	160.2	160.4	160.2	160.8
55°	157.8	157.3	158.1	158.7	158.4	158.7	158.1	157.3	157.8	157.3	158.1
55.5°	154.7	154.4	155.2	155.8	155.5	155.8	155.2	154.4	154.7	154.4	155.2
56°	151.9	151.5	152.3	152.8	152.6	152.8	152.3	151.5	151.9	151.5	152.3
56.5°	149.0	148.6	149.5	150.2	149.9	150.2	149.5	148.6	149.0	148.6	149.5
57°	146.2	145.7	146.6	147.3	146.8	147.3	146.6	145.7	146.2	145.7	146.6
57.5°	143.2	143.0	143.7	144.3	144.2	144.3	143.7	143.0	143.2	143.0	143.7
58°	140.5	140.1	140.7	141.4	141.3	141.4	140.7	140.1	140.5	140.1	140.7
58.5°	137.7	137.3	138.0	138.6	138.5	138.6	138.0	137.3	137.7	137.3	138.0
59°	134.7	134.5	135.0	135.8	135.3	135.8	135.0	134.5	134.7	134.5	135.0
59.5°	132.0	131.7	132.3	132.8	132.8	132.8	132.3	131.7	132.0	131.7	132.3
60°	129.1	128.9	129.5	130.1	129.8	130.1	129.5	128.9	129.1	128.9	129.5
60.5°	126.3	126.1	126.7	127.1	126.9	127.1	126.7	126.1	126.3	126.1	126.7
61°	123.5	123.4	123.9	124.4	124.3	124.4	123.9	123.4	123.5	123.4	123.9
61.5°	120.8	120.6	121.2	121.6	121.4	121.6	121.2	120.6	120.8	120.6	121.2
62°	118.0	117.9	118.3	118.9	118.7	118.9	118.3	117.9	118.0	117.9	118.3
62.5°	115.2	115.2	115.6	116.0	115.8	116.0	115.6	115.2	115.2	115.2	115.6
63°	112.4	112.4	112.8	113.2	113.0	113.2	112.8	112.4	112.4	112.4	112.8
63.5°	109.9	109.7	110.1	110.6	110.5	110.6	110.1	109.7	109.9	109.7	110.1
64°	107.1	107.0	107.4	107.8	107.7	107.8	107.4	107.0	107.1	107.0	107.4
64.5°	104.4	104.3	104.7	105.1	105.1	105.1	104.7	104.3	104.4	104.3	104.7
65°	101.7	101.7	102.1	102.5	102.3	102.5	102.1	101.7	101.7	101.7	102.1
65.5°	99.1	99.1	99.3	99.7	99.7	99.7	99.3	99.1	99.1	99.1	99.3
66°	96.4	96.4	96.7	97.0	97.1	97.0	96.7	96.4	96.4	96.4	96.7

TEST NUMBER: P938683

CATALOG NUMBER: HLB6LSFS5-800LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	88.6	88.8	89.0	89.2	89.3	89.2	89.0	88.8	88.6	88.8	89.0
68°	86.1	86.2	86.4	86.7	86.6	86.7	86.4	86.2	86.1	86.2	86.4
68.5°	83.6	83.6	83.9	84.1	84.2	84.1	83.9	83.6	83.6	83.6	83.9
69°	81.2	81.2	81.4	81.6	81.5	81.6	81.4	81.2	81.2	81.2	81.4
69.5°	78.6	78.7	78.9	79.1	79.1	79.1	78.9	78.7	78.6	78.7	78.9
70°	76.2	76.2	76.4	76.6	76.6	76.6	76.4	76.2	76.2	76.2	76.4
70.5°	73.6	73.8	74.0	74.1	74.2	74.1	74.0	73.8	73.6	73.8	74.0
71°	71.2	71.4	71.6	71.7	71.7	71.7	71.6	71.4	71.2	71.4	71.6
71.5°	68.9	69.0	69.1	69.3	69.4	69.3	69.1	69.0	68.9	69.0	69.1
72°	66.6	66.6	66.7	66.9	66.9	66.9	66.7	66.6	66.6	66.6	66.7
72.5°	64.2	64.3	64.4	64.6	64.6	64.6	64.4	64.3	64.2	64.3	64.4
73°	61.9	62.1	62.1	62.3	62.3	62.3	62.1	62.1	61.9	62.1	62.1
73.5°	59.7	59.7	59.9	60.1	60.1	60.1	59.9	59.7	59.7	59.7	59.9
74°	57.4	57.5	57.7	57.8	57.7	57.8	57.7	57.5	57.4	57.5	57.7
74.5°	55.2	55.3	55.4	55.6	55.5	55.6	55.4	55.3	55.2	55.3	55.4
75°	53.0	53.1	53.3	53.4	53.3	53.4	53.3	53.1	53.0	53.1	53.3
75.5°	50.9	51.0	51.1	51.2	51.2	51.2	51.1	51.0	50.9	51.0	51.1
76°	48.8	48.8	48.9	49.0	49.0	49.0	48.9	48.8	48.8	48.8	48.9
76.5°	46.7	46.7	46.8	46.9	46.9	46.9	46.8	46.7	46.7	46.7	46.8
77°	44.7	44.6	44.7	44.9	44.7	44.9	44.7	44.6	44.7	44.6	44.7
77.5°	42.6	42.5	42.7	42.8	42.7	42.8	42.7	42.5	42.6	42.5	42.7
78°	40.6	40.5	40.6	40.7	40.6	40.7	40.6	40.5	40.6	40.5	40.6
78.5°	38.6	38.4	38.6	38.7	38.6	38.7	38.6	38.4	38.6	38.4	38.6
79°	36.6	36.5	36.6	36.7	36.6	36.7	36.6	36.5	36.6	36.5	36.6
79.5°	34.6	34.5	34.7	34.7	34.6	34.7	34.7	34.5	34.6	34.5	34.7
80°	32.7	32.6	32.7	32.7	32.7	32.7	32.7	32.6	32.7	32.6	32.7
80.5°	30.8	30.7	30.8	30.9	30.8	30.9	30.8	30.7	30.8	30.7	30.8
81°	28.8	28.8	28.9	29.0	28.9	29.0	28.9	28.8	28.8	28.8	28.9
81.5°	26.9	26.9	27.0	27.1	27.0	27.1	27.0	26.9	26.9	26.9	27.0
82°	25.1	25.1	25.1	25.3	25.1	25.3	25.1	25.1	25.1	25.1	25.1
82.5°	23.3	23.2	23.4	23.4	23.2	23.4	23.4	23.2	23.3	23.2	23.4
83°	21.5	21.5	21.6	21.7	21.5	21.7	21.6	21.5	21.5	21.5	21.6
83.5°	19.7	19.7	19.8	19.9	19.7	19.9	19.8	19.7	19.7	19.7	19.8
84°	18.0	18.0	18.0	18.1	18.0	18.1	18.0	18.0	18.0	18.0	18.0
84.5°	16.2	16.2	16.4	16.4	16.3	16.4	16.4	16.2	16.2	16.2	16.4
85°	14.5	14.5	14.6	14.7	14.5	14.7	14.6	14.5	14.5	14.5	14.6
85.5°	12.9	12.8	12.9	13.0	12.9	13.0	12.9	12.8	12.9	12.8	12.9
86°	11.2	11.2	11.2	11.3	11.2	11.3	11.2	11.2	11.2	11.2	11.2
86.5°	9.5	9.5	9.6	9.6	9.5	9.6	9.6	9.5	9.5	9.5	9.6
87°	8.0	7.9	8.0	8.1	8.0	8.1	8.0	7.9	8.0	7.9	8.0
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
88°	4.8	4.8	4.8	4.9	4.8	4.9	4.8	4.8	4.8	4.8	4.8
88.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2



TEST NUMBER: P938683
CATALOG NUMBER: HLB6LSFS5-800LM-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: P938683

CATALOG NUMBER: HLB6LSFS5-800LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	280.0	280.0	280.0	280.0	280.0	280.0
0.5°	280.2	280.3	280.2	279.8	280.0	279.8
1°	280.1	280.3	280.1	279.9	280.2	279.6
1.5°	280.0	280.6	280.0	280.2	280.0	279.5
2°	280.3	280.3	280.3	280.1	280.0	279.8
2.5°	280.4	280.4	280.4	280.3	280.2	280.1
3°	280.3	280.9	280.3	280.2	280.2	280.4
3.5°	280.2	280.4	280.2	280.4	280.2	280.2
4°	280.5	280.9	280.5	280.5	280.2	280.1
4.5°	280.6	280.6	280.6	280.7	280.3	280.4
5°	280.7	281.1	280.7	280.7	280.5	280.5
5.5°	280.7	280.9	280.7	280.7	280.4	280.5
6°	280.8	280.9	280.8	280.6	280.6	280.5
6.5°	281.1	281.0	281.1	280.8	280.6	280.5
7°	281.0	281.0	281.0	280.9	280.8	280.7
7.5°	281.1	281.3	281.1	281.1	281.0	280.7
8°	280.9	281.3	280.9	281.2	280.9	281.1
8.5°	281.3	281.7	281.3	281.4	281.1	281.0
9°	281.5	281.7	281.5	281.5	281.0	281.5
9.5°	281.7	282.0	281.7	281.7	281.3	281.1
10°	281.7	282.1	281.7	281.7	281.5	281.5
10.5°	282.0	282.3	282.0	281.5	281.5	281.3
11°	282.0	282.2	282.0	282.0	281.7	281.5
11.5°	282.4	282.2	282.4	281.7	281.7	281.5
12°	282.1	282.4	282.1	282.0	281.8	281.8
12.5°	282.2	282.9	282.2	282.0	281.7	281.3
13°	282.2	282.6	282.2	282.2	282.0	281.9
13.5°	282.3	283.0	282.3	282.1	281.9	281.8
14°	282.7	282.8	282.7	282.3	282.0	281.9
14.5°	282.6	282.8	282.6	282.2	282.0	281.8
15°	282.7	282.7	282.7	282.2	281.9	281.5
15.5°	282.8	282.9	282.8	282.4	281.8	282.2
16°	282.4	282.9	282.4	282.4	281.8	281.8
16.5°	282.5	283.0	282.5	282.1	281.7	281.8
17°	282.6	282.9	282.6	282.1	281.8	281.7
17.5°	282.4	282.6	282.4	282.0	281.9	281.5
18°	282.3	282.8	282.3	281.9	281.5	281.3
18.5°	282.2	282.8	282.2	281.7	281.5	281.4
19°	282.2	282.2	282.2	281.9	281.1	281.1
19.5°	281.9	282.2	281.9	281.5	281.0	280.8
20°	281.7	282.0	281.7	281.1	280.9	280.5
20.5°	281.5	281.9	281.5	281.2	280.7	280.4
21°	281.3	281.9	281.3	280.8	280.4	280.0



TEST NUMBER: P938683

CATALOG NUMBER: HLB6LSFS5-800LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	280.2	280.7	280.2	279.9	279.3	278.9
23°	280.0	280.1	280.0	279.4	278.8	278.6
23.5°	279.4	280.0	279.4	278.9	278.4	278.2
24°	278.8	279.2	278.8	278.2	277.8	277.6
24.5°	278.5	279.1	278.5	277.8	277.2	276.9
25°	277.7	278.3	277.7	277.3	276.6	276.7
25.5°	277.3	277.7	277.3	276.7	276.3	275.7
26°	276.7	276.7	276.7	276.0	275.4	275.2
26.5°	276.1	276.3	276.1	275.2	274.7	274.1
27°	275.2	275.4	275.2	274.5	274.0	273.5
27.5°	274.3	274.8	274.3	273.8	273.1	273.0
28°	273.4	273.8	273.4	273.0	272.2	271.9
28.5°	272.6	273.1	272.6	271.9	271.3	271.1
29°	271.8	271.8	271.8	270.9	270.4	269.8
29.5°	270.7	271.3	270.7	270.1	269.5	269.1
30°	269.6	269.9	269.6	269.1	268.3	267.8
30.5°	268.5	269.5	268.5	267.7	266.9	266.8
31°	267.4	267.9	267.4	266.9	266.0	265.7
31.5°	266.1	266.7	266.1	265.3	264.7	264.7
32°	265.0	265.2	265.0	264.2	263.5	263.3
32.5°	263.7	264.0	263.7	262.8	262.3	261.9
33°	262.0	262.6	262.0	261.5	260.9	260.6
33.5°	260.8	261.3	260.8	260.1	259.5	259.1
34°	259.5	259.6	259.5	258.7	257.8	257.5
34.5°	258.0	258.3	258.0	257.2	256.4	256.1
35°	256.3	256.5	256.3	255.6	254.6	254.6
35.5°	254.6	255.2	254.6	254.0	253.1	252.8
36°	253.0	253.4	253.0	252.2	250.8	251.3
36.5°	251.1	251.5	251.1	250.5	249.6	249.1
37°	249.4	249.8	249.4	248.7	247.6	247.6
37.5°	247.6	248.1	247.6	246.9	246.0	245.6
38°	245.7	245.9	245.7	244.7	243.9	243.7
38.5°	243.6	244.1	243.6	242.8	242.1	241.6
39°	241.7	242.1	241.7	240.8	240.0	239.7
39.5°	239.5	240.0	239.5	238.9	238.0	237.5
40°	237.6	237.6	237.6	236.7	235.9	235.6
40.5°	235.3	235.6	235.3	234.6	233.6	233.2
41°	233.0	233.5	233.0	232.3	231.5	231.2
41.5°	230.9	231.1	230.9	230.1	229.1	228.8
42°	228.7	228.7	228.7	227.8	227.1	226.7
42.5°	226.1	226.7	226.1	225.5	224.6	224.5
43°	223.9	224.0	223.9	223.2	222.3	222.1
43.5°	221.4	221.7	221.4	220.5	219.8	219.5



TEST NUMBER: P938683

CATALOG NUMBER: HLB6LSFS5-800LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	213.8	214.1	213.8	213.3	212.3	212.1
45.5°	211.1	211.6	211.1	210.6	209.9	209.7
46°	208.8	208.9	208.8	208.0	207.2	207.2
46.5°	206.1	206.5	206.1	205.4	204.7	204.5
47°	203.5	203.7	203.5	202.8	201.9	201.8
47.5°	200.9	201.2	200.9	200.1	199.5	199.3
48°	198.0	198.2	198.0	197.3	196.7	196.4
48.5°	195.4	195.4	195.4	194.8	193.9	193.9
49°	192.7	193.0	192.7	192.0	191.2	190.9
49.5°	190.0	190.1	190.0	189.2	188.6	188.4
50°	187.1	187.1	187.1	186.3	185.8	185.5
50.5°	184.5	184.5	184.5	183.7	182.6	182.8
51°	181.5	181.5	181.5	180.7	180.0	180.1
51.5°	178.8	178.7	178.8	178.0	177.3	177.5
52°	175.9	175.8	175.9	175.1	174.3	174.8
52.5°	173.0	173.0	173.0	172.3	171.5	171.8
53°	170.1	170.0	170.1	169.5	168.7	169.0
53.5°	167.4	167.1	167.4	166.7	165.9	166.2
54°	164.5	164.3	164.5	163.7	162.9	163.5
54.5°	161.5	161.5	161.5	160.8	160.2	160.4
55°	158.7	158.4	158.7	158.1	157.3	157.8
55.5°	155.8	155.5	155.8	155.2	154.4	154.7
56°	152.8	152.6	152.8	152.3	151.5	151.9
56.5°	150.2	149.9	150.2	149.5	148.6	149.0
57°	147.3	146.8	147.3	146.6	145.7	146.2
57.5°	144.3	144.2	144.3	143.7	143.0	143.2
58°	141.4	141.3	141.4	140.7	140.1	140.5
58.5°	138.6	138.5	138.6	138.0	137.3	137.7
59°	135.8	135.3	135.8	135.0	134.5	134.7
59.5°	132.8	132.8	132.8	132.3	131.7	132.0
60°	130.1	129.8	130.1	129.5	128.9	129.1
60.5°	127.1	126.9	127.1	126.7	126.1	126.3
61°	124.4	124.3	124.4	123.9	123.4	123.5
61.5°	121.6	121.4	121.6	121.2	120.6	120.8
62°	118.9	118.7	118.9	118.3	117.9	118.0
62.5°	116.0	115.8	116.0	115.6	115.2	115.2
63°	113.2	113.0	113.2	112.8	112.4	112.4
63.5°	110.6	110.5	110.6	110.1	109.7	109.9
64°	107.8	107.7	107.8	107.4	107.0	107.1
64.5°	105.1	105.1	105.1	104.7	104.3	104.4
65°	102.5	102.3	102.5	102.1	101.7	101.7
65.5°	99.7	99.7	99.7	99.3	99.1	99.1
66°	97.0	97.1	97.0	96.7	96.4	96.4



TEST NUMBER: P938683

CATALOG NUMBER: HLB6LSFS5-800LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	89.2	89.3	89.2	89.0	88.8	88.6
68°	86.7	86.6	86.7	86.4	86.2	86.1
68.5°	84.1	84.2	84.1	83.9	83.6	83.6
69°	81.6	81.5	81.6	81.4	81.2	81.2
69.5°	79.1	79.1	79.1	78.9	78.7	78.6
70°	76.6	76.6	76.6	76.4	76.2	76.2
70.5°	74.1	74.2	74.1	74.0	73.8	73.6
71°	71.7	71.7	71.7	71.6	71.4	71.2
71.5°	69.3	69.4	69.3	69.1	69.0	68.9
72°	66.9	66.9	66.9	66.7	66.6	66.6
72.5°	64.6	64.6	64.6	64.4	64.3	64.2
73°	62.3	62.3	62.3	62.1	62.1	61.9
73.5°	60.1	60.1	60.1	59.9	59.7	59.7
74°	57.8	57.7	57.8	57.7	57.5	57.4
74.5°	55.6	55.5	55.6	55.4	55.3	55.2
75°	53.4	53.3	53.4	53.3	53.1	53.0
75.5°	51.2	51.2	51.2	51.1	51.0	50.9
76°	49.0	49.0	49.0	48.9	48.8	48.8
76.5°	46.9	46.9	46.9	46.8	46.7	46.7
77°	44.9	44.7	44.9	44.7	44.6	44.7
77.5°	42.8	42.7	42.8	42.7	42.5	42.6
78°	40.7	40.6	40.7	40.6	40.5	40.6
78.5°	38.7	38.6	38.7	38.6	38.4	38.6
79°	36.7	36.6	36.7	36.6	36.5	36.6
79.5°	34.7	34.6	34.7	34.7	34.5	34.6
80°	32.7	32.7	32.7	32.7	32.6	32.7
80.5°	30.9	30.8	30.9	30.8	30.7	30.8
81°	29.0	28.9	29.0	28.9	28.8	28.8
81.5°	27.1	27.0	27.1	27.0	26.9	26.9
82°	25.3	25.1	25.3	25.1	25.1	25.1
82.5°	23.4	23.2	23.4	23.4	23.2	23.3
83°	21.7	21.5	21.7	21.6	21.5	21.5
83.5°	19.9	19.7	19.9	19.8	19.7	19.7
84°	18.1	18.0	18.1	18.0	18.0	18.0
84.5°	16.4	16.3	16.4	16.4	16.2	16.2
85°	14.7	14.5	14.7	14.6	14.5	14.5
85.5°	13.0	12.9	13.0	12.9	12.8	12.9
86°	11.3	11.2	11.3	11.2	11.2	11.2
86.5°	9.6	9.5	9.6	9.6	9.5	9.5
87°	8.1	8.0	8.1	8.0	7.9	8.0
87.5°	6.4	6.4	6.4	6.4	6.4	6.4
88°	4.9	4.8	4.9	4.8	4.8	4.8
88.5°	3.2	3.2	3.2	3.2	3.2	3.2



TEST NUMBER: P938683

CATALOG NUMBER: HLB6LSFS5-800LM-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



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







21.5°	279.8	280.0	280.5	281.3	281.3	280.5	280.0	279.8	280.0	280.5
22°	279.3	279.6	280.0	280.6	280.6	280.0	279.6	279.3	279.6	280.0



44°	217.1	217.2	218.2	218.7	219.1	218.7	218.2	217.2	217.1	217.2	218.2
44.5°	214.5	214.9	215.7	216.4	216.7	216.4	215.7	214.9	214.5	214.9	215.7



66.5°	93.7	93.8	94.1	94.5	94.4	94.5	94.1	93.8	93.7	93.8	94.1
67°	91.2	91.3	91.5	91.9	91.8	91.9	91.5	91.3	91.2	91.3	91.5



89°	1.7	1.7	1.9	1.9	2.1	1.9	1.9	1.7	1.7	1.7	1.9
89.5°	1.0	1.0	1.1	1.0	1.1	1.0	1.1	1.0	1.0	1.0	1.1





21.5°	281.3	281.3	281.3	280.5	280.0	279.8
22°	280.6	281.1	280.6	280.0	279.6	279.3



44°	218.7	219.1	218.7	218.2	217.2	217.1
44.5°	216.4	216.7	216.4	215.7	214.9	214.5



66.5°	94.5	94.4	94.5	94.1	93.8	93.7
67°	91.9	91.8	91.9	91.5	91.3	91.2



89°	1.9	2.1	1.9	1.9	1.7	1.7
89.5°	1.0	1.1	1.0	1.1	1.0	1.0



(END OF REPORT)