

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: P938675

Luminaire Tested: HLB6LSFS5-1000LM-5000K

Issue Date: 1/15/2025

Test Information

Test Method: LM-79-2019
Report Number: P938675
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-5000K
Description: 6IN SELECTABLE LUMENS, 90CRI, DIMMING TO 10%
Light Source: SELECTABLE CCT 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1078.6 lumens
Efficiency: N/A
Efficacy: 96.3 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

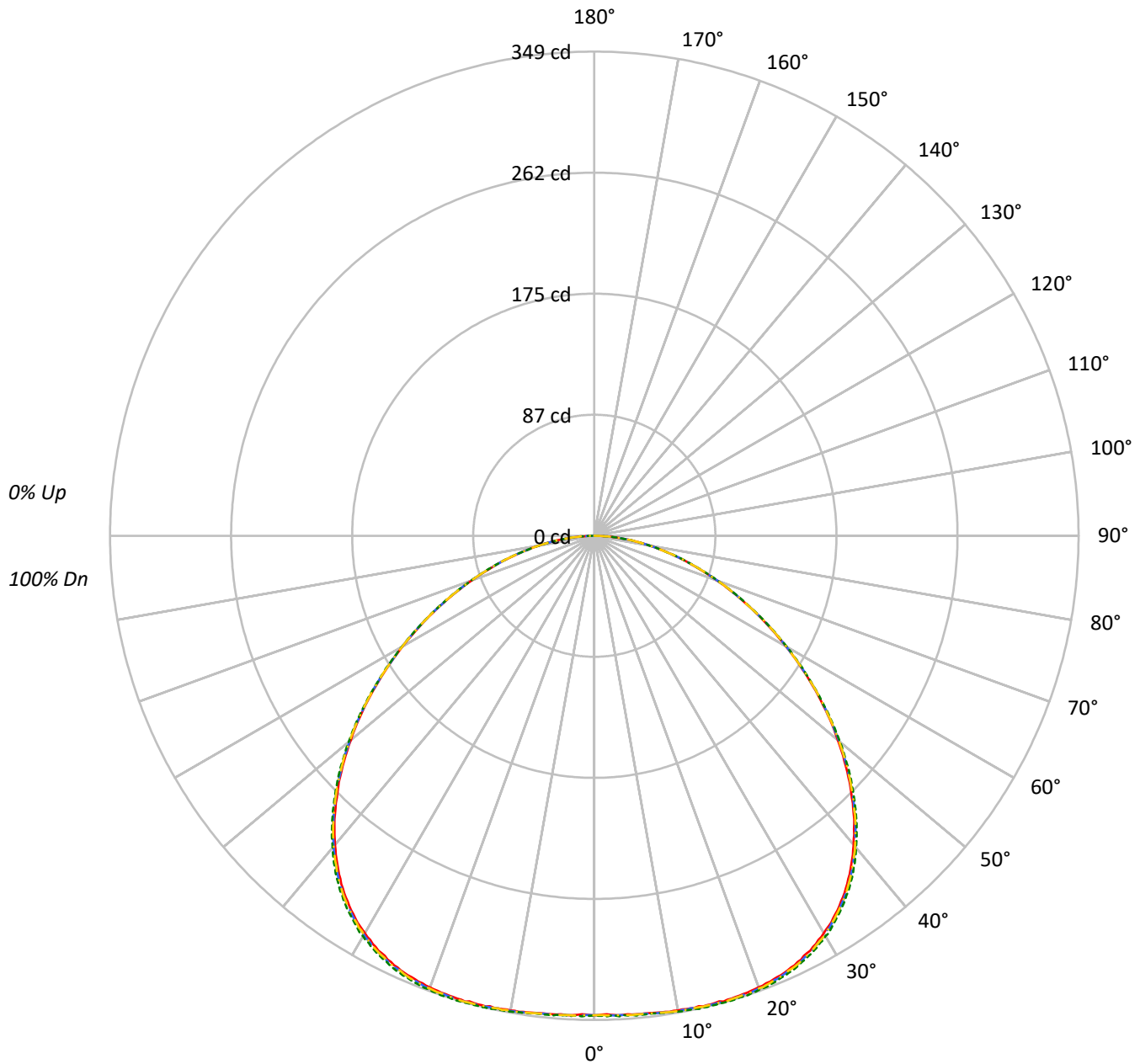
Input Watts (W): 11.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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°	18951	18951	18951	18951
5°	19057	19101	19057	19101
10°	19344	19388	19344	19388
15°	19722	19807	19722	19807
20°	20203	20308	20203	20308
25°	20662	20783	20662	20783
30°	20934	21092	20934	21092
35°	21041	21188	21041	21188
40°	20810	20996	20810	20996
45°	20304	20498	20304	20498
50°	19530	19701	19530	19701
55°	18618	18695	18618	18695
60°	17477	17564	17477	17564
65°	16292	16383	16292	16383
70°	15083	15163	15083	15163
75°	13873	13937	13873	13937
80°	12723	12723	12723	12723
85°	11322	11322	11322	11322

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 20498 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	3.1
10°-20°	98.7	9.2
20°-30°	157.8	14.6
30°-40°	196.9	18.3
40°-50°	202.6	18.8
50°-60°	174.3	16.2
60°-70°	125.0	11.6
70°-80°	69.9	6.5
80°-90°	20.2	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°	289.6	26.9
0°-40°	486.6	45.1
0°-60°	863.5	80.1
0°-90°	1078.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	346	346	346	346	346	
5°	346	347	346	347	346	33
15°	348	349	348	349	348	99
25°	342	344	342	344	342	157
35°	314	317	314	317	314	196
45°	262	264	262	264	262	202
55°	195	196	195	196	195	174
65°	126	126	126	126	126	125
75°	66	66	66	66	66	70
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°	345.7	345.7	345.7	345.7	345.7	345.7	345.7	345.7	345.7	345.7	345.7
0.5°	345.4	345.7	345.4	346.0	346.1	346.0	345.4	345.7	345.4	345.7	345.4
1°	345.2	345.9	345.6	345.8	346.1	345.8	345.6	345.9	345.2	345.9	345.6
1.5°	345.1	345.6	345.9	345.7	346.5	345.7	345.9	345.6	345.1	345.6	345.9
2°	345.4	345.7	345.8	346.1	346.1	346.1	345.8	345.7	345.4	345.7	345.8
2.5°	345.8	345.9	346.1	346.1	346.1	346.1	346.1	345.9	345.8	345.9	346.1
3°	346.1	345.9	346.0	346.1	346.9	346.1	346.0	345.9	346.1	345.9	346.0
3.5°	345.9	346.0	346.2	346.0	346.2	346.0	346.2	346.0	345.9	346.0	346.2
4°	345.8	346.0	346.3	346.3	346.8	346.3	346.3	346.0	345.8	346.0	346.3
4.5°	346.2	346.1	346.5	346.5	346.4	346.5	346.5	346.1	346.2	346.1	346.5
5°	346.3	346.3	346.5	346.6	347.1	346.6	346.5	346.3	346.3	346.3	346.5
5.5°	346.3	346.2	346.5	346.6	346.8	346.6	346.5	346.2	346.3	346.2	346.5
6°	346.3	346.5	346.5	346.7	346.9	346.7	346.5	346.5	346.3	346.5	346.5
6.5°	346.3	346.5	346.7	347.0	346.9	347.0	346.7	346.5	346.3	346.5	346.7
7°	346.6	346.7	346.8	346.9	346.9	346.9	346.8	346.7	346.6	346.7	346.8
7.5°	346.6	346.9	347.0	347.0	347.3	347.0	347.0	346.9	346.6	346.9	347.0
8°	347.0	346.9	347.2	346.9	347.3	346.9	347.2	346.9	347.0	346.9	347.2
8.5°	346.9	347.1	347.4	347.3	347.7	347.3	347.4	347.1	346.9	347.1	347.4
9°	347.5	346.9	347.6	347.6	347.7	347.6	347.6	346.9	347.5	346.9	347.6
9.5°	347.1	347.3	347.7	347.7	348.2	347.7	347.7	347.3	347.1	347.3	347.7
10°	347.5	347.5	347.8	347.7	348.3	347.7	347.8	347.5	347.5	347.5	347.8
10.5°	347.3	347.5	347.6	348.2	348.5	348.2	347.6	347.5	347.3	347.5	347.6
11°	347.6	347.7	348.1	348.1	348.4	348.1	348.1	347.7	347.6	347.7	348.1
11.5°	347.6	347.8	347.7	348.7	348.5	348.7	347.7	347.8	347.6	347.8	347.7
12°	347.9	347.9	348.1	348.3	348.6	348.3	348.1	347.9	347.9	347.9	348.1
12.5°	347.3	347.8	348.1	348.4	349.3	348.4	348.1	347.8	347.3	347.8	348.1
13°	348.1	348.2	348.4	348.5	348.9	348.5	348.4	348.2	348.1	348.2	348.4
13.5°	347.9	348.1	348.3	348.5	349.3	348.5	348.3	348.1	347.9	348.1	348.3
14°	348.0	348.1	348.5	349.0	349.1	349.0	348.5	348.1	348.0	348.1	348.5
14.5°	347.9	348.1	348.4	348.9	349.2	348.9	348.4	348.1	347.9	348.1	348.4
15°	347.5	348.0	348.5	349.0	349.0	349.0	348.5	348.0	347.5	348.0	348.5
15.5°	348.4	347.9	348.6	349.1	349.3	349.1	348.6	347.9	348.4	347.9	348.6
16°	347.9	347.9	348.6	348.7	349.3	348.7	348.6	347.9	347.9	347.9	348.6
16.5°	347.9	347.8	348.3	348.8	349.3	348.8	348.3	347.8	347.9	347.8	348.3
17°	347.7	347.9	348.3	348.9	349.3	348.9	348.3	347.9	347.7	347.9	348.3
17.5°	347.6	348.0	348.2	348.6	348.9	348.6	348.2	348.0	347.6	348.0	348.2
18°	347.3	347.6	348.0	348.5	349.2	348.5	348.0	347.6	347.3	347.6	348.0
18.5°	347.4	347.5	347.7	348.4	349.2	348.4	347.7	347.5	347.4	347.5	347.7
19°	347.0	347.1	348.0	348.4	348.5	348.4	348.0	347.1	347.0	347.1	348.0
19.5°	346.7	346.9	347.6	348.1	348.5	348.1	347.6	346.9	346.7	346.9	347.6
20°	346.3	346.8	347.1	347.8	348.1	347.8	347.1	346.8	346.3	346.8	347.1
20.5°	346.2	346.6	347.2	347.5	348.1	347.5	347.2	346.6	346.2	346.6	347.2
21°	345.6	346.1	346.7	347.3	348.1	347.3	346.7	346.1	345.6	346.1	346.7

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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°	344.3	344.8	345.6	345.9	346.5	345.9	345.6	344.8	344.3	344.8	345.6
23°	344.0	344.2	344.9	345.6	345.8	345.6	344.9	344.2	344.0	344.2	344.9
23.5°	343.4	343.7	344.3	345.0	345.7	345.0	344.3	343.7	343.4	343.7	344.3
24°	342.8	342.9	343.4	344.2	344.7	344.2	343.4	342.9	342.8	342.9	343.4
24.5°	341.9	342.3	342.9	343.9	344.5	343.9	342.9	342.3	341.9	342.3	342.9
25°	341.6	341.5	342.4	342.8	343.6	342.8	342.4	341.5	341.6	341.5	342.4
25.5°	340.4	341.1	341.6	342.4	342.8	342.4	341.6	341.1	340.4	341.1	341.6
26°	339.8	340.0	340.8	341.6	341.6	341.6	340.8	340.0	339.8	340.0	340.8
26.5°	338.4	339.2	339.7	340.8	341.1	340.8	339.7	339.2	338.4	339.2	339.7
27°	337.7	338.3	338.9	339.7	340.0	339.7	338.9	338.3	337.7	338.3	338.9
27.5°	337.1	337.2	338.0	338.7	339.3	338.7	338.0	337.2	337.1	337.2	338.0
28°	335.7	336.0	337.0	337.6	338.0	337.6	337.0	336.0	335.7	336.0	337.0
28.5°	334.7	335.0	335.7	336.6	337.2	336.6	335.7	335.0	334.7	335.0	335.7
29°	333.1	333.8	334.5	335.5	335.5	335.5	334.5	333.8	333.1	333.8	334.5
29.5°	332.3	332.7	333.5	334.2	335.0	334.2	333.5	332.7	332.3	332.7	333.5
30°	330.7	331.2	332.2	332.8	333.2	332.8	332.2	331.2	330.7	331.2	332.2
30.5°	329.4	329.5	330.5	331.5	332.7	331.5	330.5	329.5	329.4	329.5	330.5
31°	328.1	328.4	329.5	330.1	330.7	330.1	329.5	328.4	328.1	328.4	329.5
31.5°	326.8	326.8	327.5	328.6	329.2	328.6	327.5	326.8	326.8	326.8	327.5
32°	325.0	325.3	326.2	327.1	327.4	327.1	326.2	325.3	325.0	325.3	326.2
32.5°	323.3	323.8	324.5	325.6	325.9	325.6	324.5	323.8	323.3	323.8	324.5
33°	321.8	322.1	322.8	323.5	324.2	323.5	322.8	322.1	321.8	322.1	322.8
33.5°	319.9	320.3	321.1	322.0	322.6	322.0	321.1	320.3	319.9	320.3	321.1
34°	317.9	318.3	319.4	320.3	320.6	320.3	319.4	318.3	317.9	318.3	319.4
34.5°	316.2	316.6	317.5	318.5	319.0	318.5	317.5	316.6	316.2	316.6	317.5
35°	314.4	314.4	315.5	316.5	316.6	316.5	315.5	314.4	314.4	314.4	315.5
35.5°	312.1	312.5	313.6	314.4	315.1	314.4	313.6	312.5	312.1	312.5	313.6
36°	310.2	309.7	311.4	312.3	312.9	312.3	311.4	309.7	310.2	309.7	311.4
36.5°	307.6	308.2	309.3	310.1	310.5	310.1	309.3	308.2	307.6	308.2	309.3
37°	305.7	305.6	307.1	307.9	308.5	307.9	307.1	305.6	305.7	305.6	307.1
37.5°	303.2	303.7	304.8	305.6	306.3	305.6	304.8	303.7	303.2	303.7	304.8
38°	300.8	301.1	302.1	303.3	303.6	303.3	302.1	301.1	300.8	301.1	302.1
38.5°	298.3	298.8	299.8	300.8	301.4	300.8	299.8	298.8	298.3	298.8	299.8
39°	296.0	296.3	297.3	298.4	298.9	298.4	297.3	296.3	296.0	296.3	297.3
39.5°	293.2	293.9	295.0	295.7	296.3	295.7	295.0	293.9	293.2	293.9	295.0
40°	290.8	291.2	292.3	293.4	293.4	293.4	292.3	291.2	290.8	291.2	292.3
40.5°	287.9	288.4	289.6	290.5	290.8	290.5	289.6	288.4	287.9	288.4	289.6
41°	285.4	285.9	286.8	287.7	288.3	287.7	286.8	285.9	285.4	285.9	286.8
41.5°	282.5	282.9	284.1	285.0	285.4	285.0	284.1	282.9	282.5	282.9	284.1
42°	279.9	280.4	281.3	282.3	282.4	282.3	281.3	280.4	279.9	280.4	281.3
42.5°	277.1	277.3	278.4	279.2	279.8	279.2	278.4	277.3	277.1	277.3	278.4
43°	274.1	274.5	275.5	276.4	276.6	276.4	275.5	274.5	274.1	274.5	275.5
43.5°	271.0	271.3	272.2	273.3	273.7	273.3	272.2	271.3	271.0	271.3	272.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	261.9	262.1	263.3	264.0	264.4	264.0	263.3	262.1	261.9	262.1	263.3
45.5°	258.8	259.2	260.0	260.7	261.2	260.7	260.0	259.2	258.8	259.2	260.0
46°	255.9	255.9	256.8	257.8	258.0	257.8	256.8	255.9	255.9	255.9	256.8
46.5°	252.4	252.7	253.6	254.5	254.9	254.5	253.6	252.7	252.4	252.7	253.6
47°	249.1	249.2	250.3	251.3	251.5	251.3	250.3	249.2	249.1	249.2	250.3
47.5°	246.0	246.3	247.1	248.0	248.4	248.0	247.1	246.3	246.0	246.3	247.1
48°	242.5	242.8	243.6	244.5	244.6	244.5	243.6	242.8	242.5	242.8	243.6
48.5°	239.4	239.4	240.6	241.2	241.3	241.2	240.6	239.4	239.4	239.4	240.6
49°	235.7	236.1	237.0	237.9	238.2	237.9	237.0	236.1	235.7	236.1	237.0
49.5°	232.6	232.8	233.6	234.6	234.7	234.6	233.6	232.8	232.6	232.8	233.6
50°	229.0	229.3	230.1	231.0	231.0	231.0	230.1	229.3	229.0	229.3	230.1
50.5°	225.7	225.4	226.8	227.7	227.7	227.7	226.8	225.4	225.7	225.4	226.8
51°	222.4	222.2	223.1	224.1	224.1	224.1	223.1	222.2	222.4	222.2	223.1
51.5°	219.2	218.8	219.8	220.8	220.6	220.8	219.8	218.8	219.2	218.8	219.8
52°	215.8	215.1	216.2	217.2	217.1	217.2	216.2	215.1	215.8	215.1	216.2
52.5°	212.1	211.8	212.7	213.6	213.5	213.6	212.7	211.8	212.1	211.8	212.7
53°	208.7	208.3	209.3	210.0	209.9	210.0	209.3	208.3	208.7	208.3	209.3
53.5°	205.1	204.8	205.9	206.7	206.3	206.7	205.9	204.8	205.1	204.8	205.9
54°	201.8	201.1	202.2	203.0	202.8	203.0	202.2	201.1	201.8	201.1	202.2
54.5°	198.0	197.8	198.5	199.4	199.4	199.4	198.5	197.8	198.0	197.8	198.5
55°	194.8	194.1	195.2	196.0	195.6	196.0	195.2	194.1	194.8	194.1	195.2
55.5°	190.9	190.6	191.6	192.4	192.0	192.4	191.6	190.6	190.9	190.6	191.6
56°	187.5	187.1	188.0	188.7	188.5	188.7	188.0	187.1	187.5	187.1	188.0
56.5°	184.0	183.5	184.5	185.5	185.0	185.5	184.5	183.5	184.0	183.5	184.5
57°	180.5	179.9	181.0	181.8	181.2	181.8	181.0	179.9	180.5	179.9	181.0
57.5°	176.8	176.6	177.4	178.2	178.0	178.2	177.4	176.6	176.8	176.6	177.4
58°	173.5	173.0	173.7	174.6	174.4	174.6	173.7	173.0	173.5	173.0	173.7
58.5°	170.0	169.5	170.3	171.1	171.0	171.1	170.3	169.5	170.0	169.5	170.3
59°	166.3	166.1	166.7	167.6	167.1	167.6	166.7	166.1	166.3	166.1	166.7
59.5°	163.0	162.6	163.4	163.9	164.0	163.9	163.4	162.6	163.0	162.6	163.4
60°	159.4	159.1	159.8	160.6	160.2	160.6	159.8	159.1	159.4	159.1	159.8
60.5°	156.0	155.7	156.4	157.0	156.7	157.0	156.4	155.7	156.0	155.7	156.4
61°	152.5	152.3	153.0	153.6	153.4	153.6	153.0	152.3	152.5	152.3	153.0
61.5°	149.1	148.9	149.6	150.1	149.9	150.1	149.6	148.9	149.1	148.9	149.6
62°	145.7	145.6	146.1	146.8	146.5	146.8	146.1	145.6	145.7	145.6	146.1
62.5°	142.2	142.2	142.8	143.2	143.0	143.2	142.8	142.2	142.2	142.2	142.8
63°	138.8	138.8	139.3	139.8	139.6	139.8	139.3	138.8	138.8	138.8	139.3
63.5°	135.6	135.5	136.0	136.5	136.4	136.5	136.0	135.5	135.6	135.5	136.0
64°	132.3	132.1	132.6	133.1	133.0	133.1	132.6	132.1	132.3	132.1	132.6
64.5°	128.9	128.8	129.3	129.8	129.7	129.8	129.3	128.8	128.9	128.8	129.3
65°	125.6	125.6	126.0	126.5	126.3	126.5	126.0	125.6	125.6	125.6	126.0
65.5°	122.3	122.3	122.6	123.1	123.1	123.1	122.6	122.3	122.3	122.3	122.6
66°	119.0	119.0	119.4	119.8	119.8	119.8	119.4	119.0	119.0	119.0	119.4

TEST NUMBER: P938675

CATALOG NUMBER: HLB6LSFS5-1000LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	109.4	109.6	109.8	110.1	110.2	110.1	109.8	109.6	109.4	109.6	109.8
68°	106.3	106.5	106.7	107.1	106.9	107.1	106.7	106.5	106.3	106.5	106.7
68.5°	103.2	103.2	103.6	103.8	104.0	103.8	103.6	103.2	103.2	103.2	103.6
69°	100.3	100.2	100.5	100.8	100.7	100.8	100.5	100.2	100.3	100.2	100.5
69.5°	97.1	97.2	97.4	97.6	97.6	97.6	97.4	97.2	97.1	97.2	97.4
70°	94.1	94.0	94.3	94.6	94.6	94.6	94.3	94.0	94.1	94.0	94.3
70.5°	90.9	91.1	91.3	91.5	91.6	91.5	91.3	91.1	90.9	91.1	91.3
71°	87.9	88.1	88.3	88.5	88.5	88.5	88.3	88.1	87.9	88.1	88.3
71.5°	85.0	85.2	85.3	85.6	85.7	85.6	85.3	85.2	85.0	85.2	85.3
72°	82.2	82.2	82.4	82.6	82.6	82.6	82.4	82.2	82.2	82.2	82.4
72.5°	79.3	79.4	79.5	79.8	79.8	79.8	79.5	79.4	79.3	79.4	79.5
73°	76.4	76.6	76.7	77.0	76.9	77.0	76.7	76.6	76.4	76.6	76.7
73.5°	73.7	73.7	73.9	74.1	74.1	74.1	73.9	73.7	73.7	73.7	73.9
74°	70.9	71.0	71.2	71.3	71.3	71.3	71.2	71.0	70.9	71.0	71.2
74.5°	68.1	68.3	68.5	68.6	68.5	68.6	68.5	68.3	68.1	68.3	68.5
75°	65.5	65.6	65.8	66.0	65.8	66.0	65.8	65.6	65.5	65.6	65.8
75.5°	62.8	62.9	63.1	63.2	63.2	63.2	63.1	62.9	62.8	62.9	63.1
76°	60.2	60.2	60.4	60.5	60.5	60.5	60.4	60.2	60.2	60.2	60.4
76.5°	57.6	57.6	57.8	57.9	57.9	57.9	57.8	57.6	57.6	57.6	57.8
77°	55.1	55.1	55.2	55.4	55.2	55.4	55.2	55.1	55.1	55.1	55.2
77.5°	52.6	52.5	52.7	52.8	52.7	52.8	52.7	52.5	52.6	52.5	52.7
78°	50.2	50.0	50.2	50.3	50.2	50.3	50.2	50.0	50.2	50.0	50.2
78.5°	47.6	47.5	47.7	47.8	47.6	47.8	47.7	47.5	47.6	47.5	47.7
79°	45.1	45.0	45.2	45.4	45.2	45.4	45.2	45.0	45.1	45.0	45.2
79.5°	42.7	42.6	42.8	42.9	42.7	42.9	42.8	42.6	42.7	42.6	42.8
80°	40.3	40.2	40.4	40.4	40.3	40.4	40.4	40.2	40.3	40.2	40.4
80.5°	38.0	37.9	38.1	38.2	38.0	38.2	38.1	37.9	38.0	37.9	38.1
81°	35.6	35.6	35.7	35.8	35.7	35.8	35.7	35.6	35.6	35.6	35.7
81.5°	33.3	33.2	33.3	33.5	33.3	33.5	33.3	33.2	33.3	33.2	33.3
82°	31.0	30.9	31.0	31.2	30.9	31.2	31.0	30.9	31.0	30.9	31.0
82.5°	28.8	28.7	28.9	28.9	28.6	28.9	28.9	28.7	28.8	28.7	28.9
83°	26.5	26.5	26.6	26.8	26.5	26.8	26.6	26.5	26.5	26.5	26.6
83.5°	24.4	24.4	24.4	24.5	24.4	24.5	24.4	24.4	24.4	24.4	24.4
84°	22.3	22.2	22.3	22.4	22.2	22.4	22.3	22.2	22.3	22.2	22.3
84.5°	20.0	20.0	20.2	20.3	20.1	20.3	20.2	20.0	20.0	20.0	20.2
85°	18.0	18.0	18.0	18.1	18.0	18.1	18.0	18.0	18.0	18.0	18.0
85.5°	15.9	15.8	16.0	16.0	15.9	16.0	16.0	15.8	15.9	15.8	16.0
86°	13.8	13.8	13.9	13.9	13.9	13.9	13.9	13.8	13.8	13.8	13.9
86.5°	11.8	11.8	11.9	11.9	11.8	11.9	11.9	11.8	11.8	11.8	11.9
87°	9.9	9.8	9.9	9.9	9.9	9.9	9.9	9.8	9.9	9.8	9.9
87.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
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: P938675
CATALOG NUMBER: HLB6LSFS5-1000LM-5000K

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: P938675

CATALOG NUMBER: HLB6LSFS5-1000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	345.7	345.7	345.7	345.7	345.7	345.7
0.5°	346.0	346.1	346.0	345.4	345.7	345.4
1°	345.8	346.1	345.8	345.6	345.9	345.2
1.5°	345.7	346.5	345.7	345.9	345.6	345.1
2°	346.1	346.1	346.1	345.8	345.7	345.4
2.5°	346.1	346.1	346.1	346.1	345.9	345.8
3°	346.1	346.9	346.1	346.0	345.9	346.1
3.5°	346.0	346.2	346.0	346.2	346.0	345.9
4°	346.3	346.8	346.3	346.3	346.0	345.8
4.5°	346.5	346.4	346.5	346.5	346.1	346.2
5°	346.6	347.1	346.6	346.5	346.3	346.3
5.5°	346.6	346.8	346.6	346.5	346.2	346.3
6°	346.7	346.9	346.7	346.5	346.5	346.3
6.5°	347.0	346.9	347.0	346.7	346.5	346.3
7°	346.9	346.9	346.9	346.8	346.7	346.6
7.5°	347.0	347.3	347.0	347.0	346.9	346.6
8°	346.9	347.3	346.9	347.2	346.9	347.0
8.5°	347.3	347.7	347.3	347.4	347.1	346.9
9°	347.6	347.7	347.6	347.6	346.9	347.5
9.5°	347.7	348.2	347.7	347.7	347.3	347.1
10°	347.7	348.3	347.7	347.8	347.5	347.5
10.5°	348.2	348.5	348.2	347.6	347.5	347.3
11°	348.1	348.4	348.1	348.1	347.7	347.6
11.5°	348.7	348.5	348.7	347.7	347.8	347.6
12°	348.3	348.6	348.3	348.1	347.9	347.9
12.5°	348.4	349.3	348.4	348.1	347.8	347.3
13°	348.5	348.9	348.5	348.4	348.2	348.1
13.5°	348.5	349.3	348.5	348.3	348.1	347.9
14°	349.0	349.1	349.0	348.5	348.1	348.0
14.5°	348.9	349.2	348.9	348.4	348.1	347.9
15°	349.0	349.0	349.0	348.5	348.0	347.5
15.5°	349.1	349.3	349.1	348.6	347.9	348.4
16°	348.7	349.3	348.7	348.6	347.9	347.9
16.5°	348.8	349.3	348.8	348.3	347.8	347.9
17°	348.9	349.3	348.9	348.3	347.9	347.7
17.5°	348.6	348.9	348.6	348.2	348.0	347.6
18°	348.5	349.2	348.5	348.0	347.6	347.3
18.5°	348.4	349.2	348.4	347.7	347.5	347.4
19°	348.4	348.5	348.4	348.0	347.1	347.0
19.5°	348.1	348.5	348.1	347.6	346.9	346.7
20°	347.8	348.1	347.8	347.1	346.8	346.3
20.5°	347.5	348.1	347.5	347.2	346.6	346.2
21°	347.3	348.1	347.3	346.7	346.1	345.6



TEST NUMBER: P938675

CATALOG NUMBER: HLB6LSFS5-1000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	345.9	346.5	345.9	345.6	344.8	344.3
23°	345.6	345.8	345.6	344.9	344.2	344.0
23.5°	345.0	345.7	345.0	344.3	343.7	343.4
24°	344.2	344.7	344.2	343.4	342.9	342.8
24.5°	343.9	344.5	343.9	342.9	342.3	341.9
25°	342.8	343.6	342.8	342.4	341.5	341.6
25.5°	342.4	342.8	342.4	341.6	341.1	340.4
26°	341.6	341.6	341.6	340.8	340.0	339.8
26.5°	340.8	341.1	340.8	339.7	339.2	338.4
27°	339.7	340.0	339.7	338.9	338.3	337.7
27.5°	338.7	339.3	338.7	338.0	337.2	337.1
28°	337.6	338.0	337.6	337.0	336.0	335.7
28.5°	336.6	337.2	336.6	335.7	335.0	334.7
29°	335.5	335.5	335.5	334.5	333.8	333.1
29.5°	334.2	335.0	334.2	333.5	332.7	332.3
30°	332.8	333.2	332.8	332.2	331.2	330.7
30.5°	331.5	332.7	331.5	330.5	329.5	329.4
31°	330.1	330.7	330.1	329.5	328.4	328.1
31.5°	328.6	329.2	328.6	327.5	326.8	326.8
32°	327.1	327.4	327.1	326.2	325.3	325.0
32.5°	325.6	325.9	325.6	324.5	323.8	323.3
33°	323.5	324.2	323.5	322.8	322.1	321.8
33.5°	322.0	322.6	322.0	321.1	320.3	319.9
34°	320.3	320.6	320.3	319.4	318.3	317.9
34.5°	318.5	319.0	318.5	317.5	316.6	316.2
35°	316.5	316.6	316.5	315.5	314.4	314.4
35.5°	314.4	315.1	314.4	313.6	312.5	312.1
36°	312.3	312.9	312.3	311.4	309.7	310.2
36.5°	310.1	310.5	310.1	309.3	308.2	307.6
37°	307.9	308.5	307.9	307.1	305.6	305.7
37.5°	305.6	306.3	305.6	304.8	303.7	303.2
38°	303.3	303.6	303.3	302.1	301.1	300.8
38.5°	300.8	301.4	300.8	299.8	298.8	298.3
39°	298.4	298.9	298.4	297.3	296.3	296.0
39.5°	295.7	296.3	295.7	295.0	293.9	293.2
40°	293.4	293.4	293.4	292.3	291.2	290.8
40.5°	290.5	290.8	290.5	289.6	288.4	287.9
41°	287.7	288.3	287.7	286.8	285.9	285.4
41.5°	285.0	285.4	285.0	284.1	282.9	282.5
42°	282.3	282.4	282.3	281.3	280.4	279.9
42.5°	279.2	279.8	279.2	278.4	277.3	277.1
43°	276.4	276.6	276.4	275.5	274.5	274.1
43.5°	273.3	273.7	273.3	272.2	271.3	271.0

TEST NUMBER: P938675

CATALOG NUMBER: HLB6LSFS5-1000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	264.0	264.4	264.0	263.3	262.1	261.9
45.5°	260.7	261.2	260.7	260.0	259.2	258.8
46°	257.8	258.0	257.8	256.8	255.9	255.9
46.5°	254.5	254.9	254.5	253.6	252.7	252.4
47°	251.3	251.5	251.3	250.3	249.2	249.1
47.5°	248.0	248.4	248.0	247.1	246.3	246.0
48°	244.5	244.6	244.5	243.6	242.8	242.5
48.5°	241.2	241.3	241.2	240.6	239.4	239.4
49°	237.9	238.2	237.9	237.0	236.1	235.7
49.5°	234.6	234.7	234.6	233.6	232.8	232.6
50°	231.0	231.0	231.0	230.1	229.3	229.0
50.5°	227.7	227.7	227.7	226.8	225.4	225.7
51°	224.1	224.1	224.1	223.1	222.2	222.4
51.5°	220.8	220.6	220.8	219.8	218.8	219.2
52°	217.2	217.1	217.2	216.2	215.1	215.8
52.5°	213.6	213.5	213.6	212.7	211.8	212.1
53°	210.0	209.9	210.0	209.3	208.3	208.7
53.5°	206.7	206.3	206.7	205.9	204.8	205.1
54°	203.0	202.8	203.0	202.2	201.1	201.8
54.5°	199.4	199.4	199.4	198.5	197.8	198.0
55°	196.0	195.6	196.0	195.2	194.1	194.8
55.5°	192.4	192.0	192.4	191.6	190.6	190.9
56°	188.7	188.5	188.7	188.0	187.1	187.5
56.5°	185.5	185.0	185.5	184.5	183.5	184.0
57°	181.8	181.2	181.8	181.0	179.9	180.5
57.5°	178.2	178.0	178.2	177.4	176.6	176.8
58°	174.6	174.4	174.6	173.7	173.0	173.5
58.5°	171.1	171.0	171.1	170.3	169.5	170.0
59°	167.6	167.1	167.6	166.7	166.1	166.3
59.5°	163.9	164.0	163.9	163.4	162.6	163.0
60°	160.6	160.2	160.6	159.8	159.1	159.4
60.5°	157.0	156.7	157.0	156.4	155.7	156.0
61°	153.6	153.4	153.6	153.0	152.3	152.5
61.5°	150.1	149.9	150.1	149.6	148.9	149.1
62°	146.8	146.5	146.8	146.1	145.6	145.7
62.5°	143.2	143.0	143.2	142.8	142.2	142.2
63°	139.8	139.6	139.8	139.3	138.8	138.8
63.5°	136.5	136.4	136.5	136.0	135.5	135.6
64°	133.1	133.0	133.1	132.6	132.1	132.3
64.5°	129.8	129.7	129.8	129.3	128.8	128.9
65°	126.5	126.3	126.5	126.0	125.6	125.6
65.5°	123.1	123.1	123.1	122.6	122.3	122.3
66°	119.8	119.8	119.8	119.4	119.0	119.0



TEST NUMBER: P938675

CATALOG NUMBER: HLB6LSFS5-1000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	110.1	110.2	110.1	109.8	109.6	109.4
68°	107.1	106.9	107.1	106.7	106.5	106.3
68.5°	103.8	104.0	103.8	103.6	103.2	103.2
69°	100.8	100.7	100.8	100.5	100.2	100.3
69.5°	97.6	97.6	97.6	97.4	97.2	97.1
70°	94.6	94.6	94.6	94.3	94.0	94.1
70.5°	91.5	91.6	91.5	91.3	91.1	90.9
71°	88.5	88.5	88.5	88.3	88.1	87.9
71.5°	85.6	85.7	85.6	85.3	85.2	85.0
72°	82.6	82.6	82.6	82.4	82.2	82.2
72.5°	79.8	79.8	79.8	79.5	79.4	79.3
73°	77.0	76.9	77.0	76.7	76.6	76.4
73.5°	74.1	74.1	74.1	73.9	73.7	73.7
74°	71.3	71.3	71.3	71.2	71.0	70.9
74.5°	68.6	68.5	68.6	68.5	68.3	68.1
75°	66.0	65.8	66.0	65.8	65.6	65.5
75.5°	63.2	63.2	63.2	63.1	62.9	62.8
76°	60.5	60.5	60.5	60.4	60.2	60.2
76.5°	57.9	57.9	57.9	57.8	57.6	57.6
77°	55.4	55.2	55.4	55.2	55.1	55.1
77.5°	52.8	52.7	52.8	52.7	52.5	52.6
78°	50.3	50.2	50.3	50.2	50.0	50.2
78.5°	47.8	47.6	47.8	47.7	47.5	47.6
79°	45.4	45.2	45.4	45.2	45.0	45.1
79.5°	42.9	42.7	42.9	42.8	42.6	42.7
80°	40.4	40.3	40.4	40.4	40.2	40.3
80.5°	38.2	38.0	38.2	38.1	37.9	38.0
81°	35.8	35.7	35.8	35.7	35.6	35.6
81.5°	33.5	33.3	33.5	33.3	33.2	33.3
82°	31.2	30.9	31.2	31.0	30.9	31.0
82.5°	28.9	28.6	28.9	28.9	28.7	28.8
83°	26.8	26.5	26.8	26.6	26.5	26.5
83.5°	24.5	24.4	24.5	24.4	24.4	24.4
84°	22.4	22.2	22.4	22.3	22.2	22.3
84.5°	20.3	20.1	20.3	20.2	20.0	20.0
85°	18.1	18.0	18.1	18.0	18.0	18.0
85.5°	16.0	15.9	16.0	16.0	15.8	15.9
86°	13.9	13.9	13.9	13.9	13.8	13.8
86.5°	11.9	11.8	11.9	11.9	11.8	11.8
87°	9.9	9.9	9.9	9.9	9.8	9.9
87.5°	7.9	7.9	7.9	7.9	7.9	7.9
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: P938675

CATALOG NUMBER: HLB6LSFS5-1000LM-5000K

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°	345.5	345.7	346.3	347.3	347.3	347.3	346.3	345.7	345.5	345.7	346.3
22°	344.8	345.2	345.6	346.4	347.1	346.4	345.6	345.2	344.8	345.2	345.6



44°	268.1	268.2	269.3	270.1	270.5	270.1	269.3	268.2	268.1	268.2	269.3
44.5°	264.8	265.3	266.3	267.2	267.5	267.2	266.3	265.3	264.8	265.3	266.3



66.5°	115.7	115.8	116.2	116.6	116.6	116.2	115.8	115.7	115.8	116.2
67°	112.5	112.7	112.9	113.4	113.3	113.4	112.9	112.7	112.5	112.9



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°	347.3	347.3	347.3	346.3	345.7	345.5
22°	346.4	347.1	346.4	345.6	345.2	344.8



44°	270.1	270.5	270.1	269.3	268.2	268.1
44.5°	267.2	267.5	267.2	266.3	265.3	264.8



66.5°	116.6	116.6	116.6	116.2	115.8	115.7
67°	113.4	113.3	113.4	112.9	112.7	112.5



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)