

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: P938677

Luminaire Tested: HLB6LSFS5-1200LM-3000K

Issue Date: 1/15/2025

Test Information

Test Method: LM-79-2019
Report Number: P938677
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: HLB6LSFS5-1200LM-3000K
Description: 6IN SELECTABLE LUMENS, 90CRI, DIMMING TO 10%
Light Source: SELECTABLE CCT 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1275.0 lumens
Efficiency: N/A
Efficacy: 93.1 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

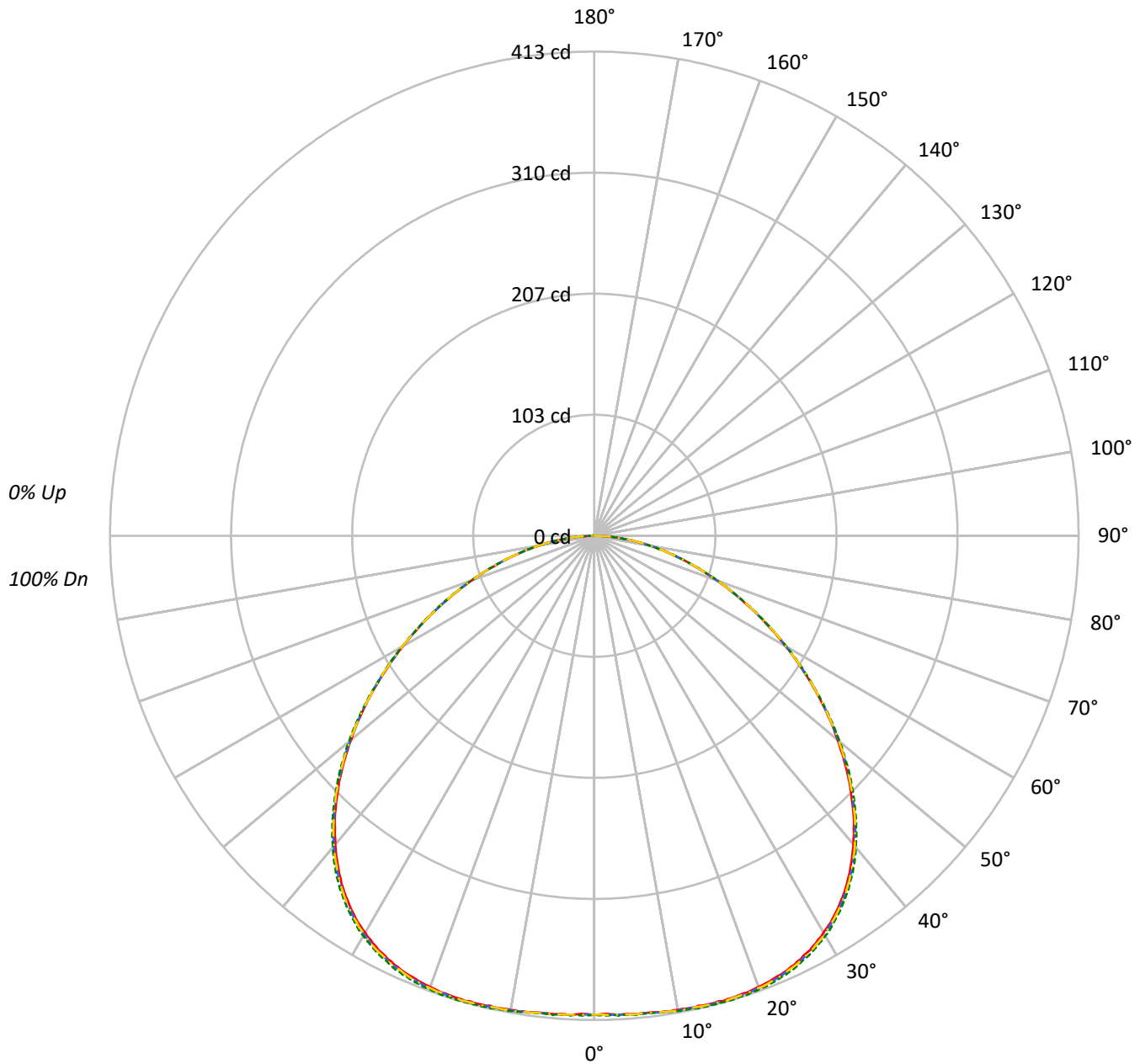
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	22405	22405	22405	22405
5°	22529	22579	22529	22579
10°	22868	22918	22868	22918
15°	23315	23417	23315	23417
20°	23884	24006	23884	24006
25°	24425	24570	24425	24570
30°	24744	24934	24744	24934
35°	24869	25049	24869	25049
40°	24603	24818	24603	24818
45°	24002	24227	24002	24227
50°	23087	23291	23087	23291
55°	22011	22097	22011	22097
60°	20656	20766	20656	20766
65°	19263	19354	19263	19354
70°	17824	17920	17824	17920
75°	16394	16479	16394	16479
80°	15059	15059	15059	15059
85°	13335	13335	13335	13335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 24227 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	3.1
10°-20°	116.7	9.2
20°-30°	186.6	14.6
30°-40°	232.8	18.3
40°-50°	239.5	18.8
50°-60°	206.1	16.2
60°-70°	147.7	11.6
70°-80°	82.6	6.5
80°-90°	23.9	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°	342.4	26.9
0°-40°	575.2	45.1
0°-60°	1020.8	80.1
0°-90°	1275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1275.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	409	409	409	409	409	
5°	409	410	409	410	409	39
15°	411	413	411	413	411	116
25°	404	406	404	406	404	186
35°	372	374	372	374	372	232
45°	310	312	310	312	310	238
55°	230	231	230	231	230	206
65°	148	149	148	149	148	147
75°	77	78	77	78	77	82
85°	21	21	21	21	21	24
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°	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7
0.5°	408.3	408.7	408.3	409.0	409.1	409.0	408.3	408.7	408.3	408.7	408.3
1°	408.0	408.9	408.5	408.8	409.1	408.8	408.5	408.9	408.0	408.9	408.5
1.5°	407.9	408.6	408.9	408.7	409.5	408.7	408.9	408.6	407.9	408.6	408.9
2°	408.3	408.7	408.8	409.1	409.1	409.1	408.8	408.7	408.3	408.7	408.8
2.5°	408.8	408.9	409.1	409.2	409.2	409.2	409.1	408.9	408.8	408.9	409.1
3°	409.2	408.9	409.0	409.1	410.0	409.1	409.0	408.9	409.2	408.9	409.0
3.5°	408.9	409.0	409.3	409.0	409.3	409.0	409.3	409.0	408.9	409.0	409.3
4°	408.8	409.0	409.4	409.4	409.9	409.4	409.4	409.0	408.8	409.0	409.4
4.5°	409.3	409.1	409.6	409.5	409.5	409.5	409.6	409.1	409.3	409.1	409.6
5°	409.4	409.4	409.6	409.7	410.3	409.7	409.6	409.4	409.4	409.4	409.6
5.5°	409.4	409.3	409.6	409.7	409.9	409.7	409.6	409.3	409.4	409.3	409.6
6°	409.4	409.5	409.5	409.8	410.0	409.8	409.5	409.5	409.4	409.5	409.5
6.5°	409.4	409.5	409.8	410.2	410.1	410.2	409.8	409.5	409.4	409.5	409.8
7°	409.7	409.8	409.9	410.1	410.1	410.1	409.9	409.8	409.7	409.8	409.9
7.5°	409.7	410.1	410.2	410.2	410.6	410.2	410.2	410.1	409.7	410.1	410.2
8°	410.2	410.0	410.4	410.0	410.6	410.0	410.4	410.0	410.2	410.0	410.4
8.5°	410.1	410.3	410.7	410.5	411.1	410.5	410.7	410.3	410.1	410.3	410.7
9°	410.8	410.1	410.9	410.9	411.1	410.9	410.9	410.1	410.8	410.1	410.9
9.5°	410.3	410.5	411.1	411.1	411.6	411.1	411.1	410.5	410.3	410.5	411.1
10°	410.8	410.8	411.2	411.1	411.7	411.1	411.2	410.8	410.8	410.8	411.2
10.5°	410.5	410.8	410.9	411.6	412.0	411.6	410.9	410.8	410.5	410.8	410.9
11°	410.9	411.1	411.5	411.5	411.8	411.5	411.5	411.1	410.9	411.1	411.5
11.5°	410.9	411.2	411.1	412.2	411.9	412.2	411.1	411.2	410.9	411.2	411.1
12°	411.3	411.3	411.5	411.7	412.1	411.7	411.5	411.3	411.3	411.3	411.5
12.5°	410.6	411.2	411.5	411.8	412.9	411.8	411.5	411.2	410.6	411.2	411.5
13°	411.4	411.6	411.8	411.9	412.4	411.9	411.8	411.6	411.4	411.6	411.8
13.5°	411.3	411.4	411.7	412.0	413.0	412.0	411.7	411.4	411.3	411.4	411.7
14°	411.3	411.5	412.0	412.6	412.7	412.6	412.0	411.5	411.3	411.5	412.0
14.5°	411.3	411.5	411.8	412.4	412.8	412.4	411.8	411.5	411.3	411.5	411.8
15°	410.8	411.3	411.9	412.6	412.6	412.6	411.9	411.3	410.8	411.3	411.9
15.5°	411.8	411.3	412.1	412.7	412.9	412.7	412.1	411.3	411.8	411.3	412.1
16°	411.3	411.3	412.1	412.2	412.9	412.2	412.1	411.3	411.3	411.3	412.1
16.5°	411.3	411.2	411.7	412.3	413.0	412.3	411.7	411.2	411.3	411.2	411.7
17°	411.1	411.3	411.7	412.4	412.9	412.4	411.7	411.3	411.1	411.3	411.7
17.5°	410.9	411.3	411.6	412.1	412.4	412.1	411.6	411.3	410.9	411.3	411.6
18°	410.5	410.9	411.3	412.0	412.8	412.0	411.3	410.9	410.5	410.9	411.3
18.5°	410.7	410.8	411.1	411.8	412.8	411.8	411.1	410.8	410.7	410.8	411.1
19°	410.2	410.3	411.3	411.8	411.9	411.8	411.3	410.3	410.2	410.3	411.3
19.5°	409.8	410.1	410.9	411.4	411.9	411.4	410.9	410.1	409.8	410.1	410.9
20°	409.4	409.9	410.3	411.2	411.5	411.2	410.3	409.9	409.4	409.9	410.3
20.5°	409.3	409.7	410.4	410.8	411.4	410.8	410.4	409.7	409.3	409.7	410.4
21°	408.6	409.2	409.8	410.5	411.4	410.5	409.8	409.2	408.6	409.2	409.8

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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°	407.0	407.7	408.5	408.9	409.6	408.9	408.5	407.7	407.0	407.7	408.5
23°	406.6	406.9	407.7	408.6	408.8	408.6	407.7	406.9	406.6	406.9	407.7
23.5°	405.9	406.3	407.0	407.8	408.7	407.8	407.0	406.3	405.9	406.3	407.0
24°	405.2	405.4	405.9	406.9	407.5	406.9	405.9	405.4	405.2	405.4	405.9
24.5°	404.1	404.6	405.4	406.5	407.3	406.5	405.4	404.6	404.1	404.6	405.4
25°	403.8	403.7	404.7	405.3	406.2	405.3	404.7	403.7	403.8	403.7	404.7
25.5°	402.3	403.2	403.8	404.7	405.3	404.7	403.8	403.2	402.3	403.2	403.8
26°	401.7	402.0	402.8	403.8	403.8	403.8	402.8	402.0	401.7	402.0	402.8
26.5°	400.1	400.9	401.6	402.9	403.2	402.9	401.6	400.9	400.1	400.9	401.6
27°	399.2	399.9	400.6	401.6	402.0	401.6	400.6	399.9	399.2	399.9	400.6
27.5°	398.5	398.6	399.6	400.4	401.1	400.4	399.6	398.6	398.5	398.6	399.6
28°	396.8	397.2	398.4	399.0	399.6	399.0	398.4	397.2	396.8	397.2	398.4
28.5°	395.6	396.0	396.8	397.9	398.6	397.9	396.8	396.0	395.6	396.0	396.8
29°	393.8	394.6	395.4	396.7	396.7	396.7	395.4	394.6	393.8	394.6	395.4
29.5°	392.8	393.3	394.2	395.0	396.0	395.0	394.2	393.3	392.8	393.3	394.2
30°	390.9	391.5	392.7	393.4	393.9	393.4	392.7	391.5	390.9	391.5	392.7
30.5°	389.4	389.6	390.7	391.8	393.2	391.8	390.7	389.6	389.4	389.6	390.7
31°	387.8	388.2	389.5	390.2	391.0	390.2	389.5	388.2	387.8	388.2	389.5
31.5°	386.3	386.3	387.2	388.4	389.2	388.4	387.2	386.3	386.3	386.3	387.2
32°	384.2	384.5	385.6	386.7	387.0	386.7	385.6	384.5	384.2	384.5	385.6
32.5°	382.2	382.8	383.6	384.9	385.3	384.9	383.6	382.8	382.2	382.8	383.6
33°	380.4	380.7	381.6	382.4	383.2	382.4	381.6	380.7	380.4	380.7	381.6
33.5°	378.2	378.7	379.6	380.6	381.4	380.6	379.6	378.7	378.2	378.7	379.6
34°	375.8	376.3	377.5	378.7	378.9	378.7	377.5	376.3	375.8	376.3	377.5
34.5°	373.7	374.2	375.3	376.5	377.0	376.5	375.3	374.2	373.7	374.2	375.3
35°	371.6	371.6	373.0	374.1	374.3	374.1	373.0	371.6	371.6	371.6	373.0
35.5°	368.9	369.4	370.7	371.6	372.5	371.6	370.7	369.4	368.9	369.4	370.7
36°	366.7	366.1	368.1	369.2	369.8	369.2	368.1	366.1	366.7	366.1	368.1
36.5°	363.6	364.3	365.6	366.5	367.0	366.5	365.6	364.3	363.6	364.3	365.6
37°	361.4	361.3	363.0	364.0	364.6	364.0	363.0	361.3	361.4	361.3	363.0
37.5°	358.5	359.0	360.4	361.3	362.1	361.3	360.4	359.0	358.5	359.0	360.4
38°	355.6	355.9	357.1	358.6	358.9	358.6	357.1	355.9	355.6	355.9	357.1
38.5°	352.6	353.3	354.4	355.5	356.3	355.5	354.4	353.3	352.6	353.3	354.4
39°	349.8	350.2	351.5	352.8	353.4	352.8	351.5	350.2	349.8	350.2	351.5
39.5°	346.6	347.4	348.7	349.6	350.2	349.6	348.7	347.4	346.6	347.4	348.7
40°	343.8	344.3	345.5	346.8	346.8	346.8	345.5	344.3	343.8	344.3	345.5
40.5°	340.3	340.9	342.4	343.4	343.8	343.4	342.4	340.9	340.3	340.9	342.4
41°	337.4	337.9	339.0	340.1	340.8	340.1	339.0	337.9	337.4	337.9	339.0
41.5°	333.9	334.4	335.8	337.0	337.3	337.0	335.8	334.4	333.9	334.4	335.8
42°	330.9	331.5	332.5	333.7	333.8	333.7	332.5	331.5	330.9	331.5	332.5
42.5°	327.6	327.8	329.1	330.0	330.8	330.0	329.1	327.8	327.6	327.8	329.1
43°	324.1	324.5	325.7	326.7	326.9	326.7	325.7	324.5	324.1	324.5	325.7
43.5°	320.4	320.8	321.8	323.1	323.5	323.1	321.8	320.8	320.4	320.8	321.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	309.6	309.9	311.3	312.0	312.5	312.0	311.3	309.9	309.6	309.9	311.3
45.5°	306.0	306.4	307.3	308.2	308.8	308.2	307.3	306.4	306.0	306.4	307.3
46°	302.5	302.5	303.6	304.7	304.9	304.7	303.6	302.5	302.5	302.5	303.6
46.5°	298.4	298.8	299.8	300.9	301.3	300.9	299.8	298.8	298.4	298.8	299.8
47°	294.5	294.6	295.9	297.1	297.3	297.1	295.9	294.6	294.5	294.6	295.9
47.5°	290.8	291.1	292.0	293.2	293.7	293.2	292.0	291.1	290.8	291.1	292.0
48°	286.6	287.0	288.0	289.0	289.2	289.0	288.0	287.0	286.6	287.0	288.0
48.5°	283.0	283.0	284.4	285.1	285.2	285.1	284.4	283.0	283.0	283.0	284.4
49°	278.6	279.1	280.2	281.2	281.6	281.2	280.2	279.1	278.6	279.1	280.2
49.5°	275.0	275.2	276.1	277.4	277.5	277.4	276.1	275.2	275.0	275.2	276.1
50°	270.7	271.1	272.0	273.1	273.1	273.1	272.0	271.1	270.7	271.1	272.0
50.5°	266.8	266.5	268.1	269.2	269.2	269.2	268.1	266.5	266.8	266.5	268.1
51°	262.9	262.7	263.7	264.9	264.9	264.9	263.7	262.7	262.9	262.7	263.7
51.5°	259.1	258.7	259.8	261.0	260.8	261.0	259.8	258.7	259.1	258.7	259.8
52°	255.1	254.3	255.6	256.7	256.6	256.7	255.6	254.3	255.1	254.3	255.6
52.5°	250.7	250.4	251.5	252.5	252.4	252.5	251.5	250.4	250.7	250.4	251.5
53°	246.7	246.3	247.4	248.3	248.1	248.3	247.4	246.3	246.7	246.3	247.4
53.5°	242.5	242.1	243.3	244.3	243.8	244.3	243.3	242.1	242.5	242.1	243.3
54°	238.6	237.7	239.0	240.0	239.7	240.0	239.0	237.7	238.6	237.7	239.0
54.5°	234.1	233.8	234.6	235.7	235.7	235.7	234.6	233.8	234.1	233.8	234.6
55°	230.3	229.5	230.7	231.7	231.2	231.7	230.7	229.5	230.3	229.5	230.7
55.5°	225.7	225.3	226.5	227.4	226.9	227.4	226.5	225.3	225.7	225.3	226.5
56°	221.6	221.2	222.2	223.1	222.8	223.1	222.2	221.2	221.6	221.2	222.2
56.5°	217.5	216.9	218.1	219.3	218.7	219.3	218.1	216.9	217.5	216.9	218.1
57°	213.4	212.6	214.0	214.9	214.2	214.9	214.0	212.6	213.4	212.6	214.0
57.5°	208.9	208.8	209.7	210.6	210.5	210.6	209.7	208.8	208.9	208.8	209.7
58°	205.1	204.5	205.3	206.4	206.2	206.4	205.3	204.5	205.1	204.5	205.3
58.5°	201.0	200.4	201.4	202.3	202.1	202.3	201.4	200.4	201.0	200.4	201.4
59°	196.6	196.3	197.1	198.1	197.5	198.1	197.1	196.3	196.6	196.3	197.1
59.5°	192.6	192.2	193.1	193.8	193.9	193.8	193.1	192.2	192.6	192.2	193.1
60°	188.4	188.1	188.9	189.9	189.4	189.9	188.9	188.1	188.4	188.1	188.9
60.5°	184.4	184.0	184.9	185.5	185.3	185.5	184.9	184.0	184.4	184.0	184.9
61°	180.2	180.0	180.9	181.6	181.4	181.6	180.9	180.0	180.2	180.0	180.9
61.5°	176.3	176.0	176.8	177.5	177.2	177.5	176.8	176.0	176.3	176.0	176.8
62°	172.2	172.1	172.6	173.5	173.2	173.5	172.6	172.1	172.2	172.1	172.6
62.5°	168.1	168.1	168.8	169.3	169.0	169.3	168.8	168.1	168.1	168.1	168.8
63°	164.0	164.0	164.7	165.3	165.0	165.3	164.7	164.0	164.0	164.0	164.7
63.5°	160.3	160.1	160.7	161.4	161.3	161.4	160.7	160.1	160.3	160.1	160.7
64°	156.4	156.2	156.7	157.4	157.2	157.4	156.7	156.2	156.4	156.2	156.7
64.5°	152.4	152.3	152.8	153.4	153.3	153.4	152.8	152.3	152.4	152.3	152.8
65°	148.5	148.5	149.0	149.5	149.2	149.5	149.0	148.5	148.5	148.5	149.0
65.5°	144.6	144.6	145.0	145.5	145.5	145.5	145.0	144.6	144.6	144.6	145.0
66°	140.6	140.7	141.2	141.6	141.7	141.6	141.2	140.7	140.6	140.7	141.2

TEST NUMBER: P938677

CATALOG NUMBER: HLB6LSFS5-1200LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	129.3	129.5	129.8	130.2	130.3	130.2	129.8	129.5	129.3	129.5	129.8
68°	125.6	125.8	126.1	126.6	126.4	126.6	126.1	125.8	125.6	125.8	126.1
68.5°	122.0	122.0	122.4	122.7	122.9	122.7	122.4	122.0	122.0	122.0	122.4
69°	118.5	118.4	118.8	119.1	119.0	119.1	118.8	118.4	118.5	118.4	118.8
69.5°	114.8	114.8	115.1	115.4	115.4	115.4	115.1	114.8	114.8	114.8	115.1
70°	111.2	111.2	111.5	111.8	111.8	111.8	111.5	111.2	111.2	111.2	111.5
70.5°	107.5	107.6	107.9	108.2	108.3	108.2	107.9	107.6	107.5	107.6	107.9
71°	103.9	104.1	104.4	104.6	104.6	104.6	104.4	104.1	103.9	104.1	104.4
71.5°	100.5	100.7	100.8	101.2	101.3	101.2	100.8	100.7	100.5	100.7	100.8
72°	97.1	97.2	97.4	97.7	97.7	97.7	97.4	97.2	97.1	97.2	97.4
72.5°	93.7	93.8	94.0	94.3	94.3	94.3	94.0	93.8	93.7	93.8	94.0
73°	90.3	90.6	90.7	91.0	90.9	91.0	90.7	90.6	90.3	90.6	90.7
73.5°	87.2	87.2	87.4	87.7	87.7	87.7	87.4	87.2	87.2	87.2	87.4
74°	83.8	84.0	84.1	84.3	84.2	84.3	84.1	84.0	83.8	84.0	84.1
74.5°	80.5	80.7	80.9	81.1	81.0	81.1	80.9	80.7	80.5	80.7	80.9
75°	77.4	77.5	77.8	78.0	77.8	78.0	77.8	77.5	77.4	77.5	77.8
75.5°	74.3	74.4	74.6	74.8	74.8	74.8	74.6	74.4	74.3	74.4	74.6
76°	71.2	71.2	71.4	71.5	71.5	71.5	71.4	71.2	71.2	71.2	71.4
76.5°	68.1	68.1	68.3	68.4	68.4	68.4	68.3	68.1	68.1	68.1	68.3
77°	65.2	65.1	65.3	65.5	65.3	65.5	65.3	65.1	65.2	65.1	65.3
77.5°	62.2	62.1	62.4	62.4	62.4	62.4	62.4	62.1	62.2	62.1	62.4
78°	59.3	59.1	59.3	59.4	59.3	59.4	59.3	59.1	59.3	59.1	59.3
78.5°	56.3	56.1	56.4	56.5	56.3	56.5	56.4	56.1	56.3	56.1	56.4
79°	53.3	53.3	53.4	53.6	53.4	53.6	53.4	53.3	53.3	53.3	53.4
79.5°	50.5	50.4	50.6	50.7	50.5	50.7	50.6	50.4	50.5	50.4	50.6
80°	47.7	47.6	47.8	47.8	47.7	47.8	47.8	47.6	47.7	47.6	47.8
80.5°	44.9	44.8	45.0	45.1	44.9	45.1	45.0	44.8	44.9	44.8	45.0
81°	42.1	42.1	42.2	42.3	42.2	42.3	42.2	42.1	42.1	42.1	42.2
81.5°	39.3	39.2	39.4	39.6	39.4	39.6	39.4	39.2	39.3	39.2	39.4
82°	36.7	36.6	36.7	36.9	36.6	36.9	36.7	36.6	36.7	36.6	36.7
82.5°	34.0	33.9	34.1	34.2	33.8	34.2	34.1	33.9	34.0	33.9	34.1
83°	31.4	31.4	31.5	31.6	31.4	31.6	31.5	31.4	31.4	31.4	31.5
83.5°	28.8	28.8	28.9	29.0	28.8	29.0	28.9	28.8	28.8	28.8	28.9
84°	26.3	26.2	26.3	26.4	26.2	26.4	26.3	26.2	26.3	26.2	26.3
84.5°	23.7	23.7	23.9	24.0	23.8	24.0	23.9	23.7	23.7	23.7	23.9
85°	21.2	21.2	21.3	21.4	21.2	21.4	21.3	21.2	21.2	21.2	21.3
85.5°	18.8	18.7	18.9	19.0	18.8	19.0	18.9	18.7	18.8	18.7	18.9
86°	16.3	16.3	16.4	16.5	16.4	16.5	16.4	16.3	16.3	16.3	16.4
86.5°	13.9	13.9	14.0	14.0	13.9	14.0	14.0	13.9	13.9	13.9	14.0
87°	11.7	11.6	11.7	11.8	11.7	11.8	11.7	11.6	11.7	11.6	11.7
87.5°	9.3	9.3	9.3	9.4	9.3	9.4	9.3	9.3	9.3	9.3	9.3
88°	7.0	7.0	7.0	7.1	7.0	7.1	7.0	7.0	7.0	7.0	7.0
88.5°	4.7	4.6	4.6	4.7	4.7	4.7	4.6	4.6	4.7	4.6	4.6



TEST NUMBER: P938677
CATALOG NUMBER: HLB6LSFS5-1200LM-3000K

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: P938677

CATALOG NUMBER: HLB6LSFS5-1200LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	408.7	408.7	408.7	408.7	408.7	408.7
0.5°	409.0	409.1	409.0	408.3	408.7	408.3
1°	408.8	409.1	408.8	408.5	408.9	408.0
1.5°	408.7	409.5	408.7	408.9	408.6	407.9
2°	409.1	409.1	409.1	408.8	408.7	408.3
2.5°	409.2	409.2	409.2	409.1	408.9	408.8
3°	409.1	410.0	409.1	409.0	408.9	409.2
3.5°	409.0	409.3	409.0	409.3	409.0	408.9
4°	409.4	409.9	409.4	409.4	409.0	408.8
4.5°	409.5	409.5	409.5	409.6	409.1	409.3
5°	409.7	410.3	409.7	409.6	409.4	409.4
5.5°	409.7	409.9	409.7	409.6	409.3	409.4
6°	409.8	410.0	409.8	409.5	409.5	409.4
6.5°	410.2	410.1	410.2	409.8	409.5	409.4
7°	410.1	410.1	410.1	409.9	409.8	409.7
7.5°	410.2	410.6	410.2	410.2	410.1	409.7
8°	410.0	410.6	410.0	410.4	410.0	410.2
8.5°	410.5	411.1	410.5	410.7	410.3	410.1
9°	410.9	411.1	410.9	410.9	410.1	410.8
9.5°	411.1	411.6	411.1	411.1	410.5	410.3
10°	411.1	411.7	411.1	411.2	410.8	410.8
10.5°	411.6	412.0	411.6	410.9	410.8	410.5
11°	411.5	411.8	411.5	411.5	411.1	410.9
11.5°	412.2	411.9	412.2	411.1	411.2	410.9
12°	411.7	412.1	411.7	411.5	411.3	411.3
12.5°	411.8	412.9	411.8	411.5	411.2	410.6
13°	411.9	412.4	411.9	411.8	411.6	411.4
13.5°	412.0	413.0	412.0	411.7	411.4	411.3
14°	412.6	412.7	412.6	412.0	411.5	411.3
14.5°	412.4	412.8	412.4	411.8	411.5	411.3
15°	412.6	412.6	412.6	411.9	411.3	410.8
15.5°	412.7	412.9	412.7	412.1	411.3	411.8
16°	412.2	412.9	412.2	412.1	411.3	411.3
16.5°	412.3	413.0	412.3	411.7	411.2	411.3
17°	412.4	412.9	412.4	411.7	411.3	411.1
17.5°	412.1	412.4	412.1	411.6	411.3	410.9
18°	412.0	412.8	412.0	411.3	410.9	410.5
18.5°	411.8	412.8	411.8	411.1	410.8	410.7
19°	411.8	411.9	411.8	411.3	410.3	410.2
19.5°	411.4	411.9	411.4	410.9	410.1	409.8
20°	411.2	411.5	411.2	410.3	409.9	409.4
20.5°	410.8	411.4	410.8	410.4	409.7	409.3
21°	410.5	411.4	410.5	409.8	409.2	408.6

TEST NUMBER: P938677

CATALOG NUMBER: HLB6LSFS5-1200LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	408.9	409.6	408.9	408.5	407.7	407.0
23°	408.6	408.8	408.6	407.7	406.9	406.6
23.5°	407.8	408.7	407.8	407.0	406.3	405.9
24°	406.9	407.5	406.9	405.9	405.4	405.2
24.5°	406.5	407.3	406.5	405.4	404.6	404.1
25°	405.3	406.2	405.3	404.7	403.7	403.8
25.5°	404.7	405.3	404.7	403.8	403.2	402.3
26°	403.8	403.8	403.8	402.8	402.0	401.7
26.5°	402.9	403.2	402.9	401.6	400.9	400.1
27°	401.6	402.0	401.6	400.6	399.9	399.2
27.5°	400.4	401.1	400.4	399.6	398.6	398.5
28°	399.0	399.6	399.0	398.4	397.2	396.8
28.5°	397.9	398.6	397.9	396.8	396.0	395.6
29°	396.7	396.7	396.7	395.4	394.6	393.8
29.5°	395.0	396.0	395.0	394.2	393.3	392.8
30°	393.4	393.9	393.4	392.7	391.5	390.9
30.5°	391.8	393.2	391.8	390.7	389.6	389.4
31°	390.2	391.0	390.2	389.5	388.2	387.8
31.5°	388.4	389.2	388.4	387.2	386.3	386.3
32°	386.7	387.0	386.7	385.6	384.5	384.2
32.5°	384.9	385.3	384.9	383.6	382.8	382.2
33°	382.4	383.2	382.4	381.6	380.7	380.4
33.5°	380.6	381.4	380.6	379.6	378.7	378.2
34°	378.7	378.9	378.7	377.5	376.3	375.8
34.5°	376.5	377.0	376.5	375.3	374.2	373.7
35°	374.1	374.3	374.1	373.0	371.6	371.6
35.5°	371.6	372.5	371.6	370.7	369.4	368.9
36°	369.2	369.8	369.2	368.1	366.1	366.7
36.5°	366.5	367.0	366.5	365.6	364.3	363.6
37°	364.0	364.6	364.0	363.0	361.3	361.4
37.5°	361.3	362.1	361.3	360.4	359.0	358.5
38°	358.6	358.9	358.6	357.1	355.9	355.6
38.5°	355.5	356.3	355.5	354.4	353.3	352.6
39°	352.8	353.4	352.8	351.5	350.2	349.8
39.5°	349.6	350.2	349.6	348.7	347.4	346.6
40°	346.8	346.8	346.8	345.5	344.3	343.8
40.5°	343.4	343.8	343.4	342.4	340.9	340.3
41°	340.1	340.8	340.1	339.0	337.9	337.4
41.5°	337.0	337.3	337.0	335.8	334.4	333.9
42°	333.7	333.8	333.7	332.5	331.5	330.9
42.5°	330.0	330.8	330.0	329.1	327.8	327.6
43°	326.7	326.9	326.7	325.7	324.5	324.1
43.5°	323.1	323.5	323.1	321.8	320.8	320.4

TEST NUMBER: P938677

CATALOG NUMBER: HLB6LSFS5-1200LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	312.0	312.5	312.0	311.3	309.9	309.6
45.5°	308.2	308.8	308.2	307.3	306.4	306.0
46°	304.7	304.9	304.7	303.6	302.5	302.5
46.5°	300.9	301.3	300.9	299.8	298.8	298.4
47°	297.1	297.3	297.1	295.9	294.6	294.5
47.5°	293.2	293.7	293.2	292.0	291.1	290.8
48°	289.0	289.2	289.0	288.0	287.0	286.6
48.5°	285.1	285.2	285.1	284.4	283.0	283.0
49°	281.2	281.6	281.2	280.2	279.1	278.6
49.5°	277.4	277.5	277.4	276.1	275.2	275.0
50°	273.1	273.1	273.1	272.0	271.1	270.7
50.5°	269.2	269.2	269.2	268.1	266.5	266.8
51°	264.9	264.9	264.9	263.7	262.7	262.9
51.5°	261.0	260.8	261.0	259.8	258.7	259.1
52°	256.7	256.6	256.7	255.6	254.3	255.1
52.5°	252.5	252.4	252.5	251.5	250.4	250.7
53°	248.3	248.1	248.3	247.4	246.3	246.7
53.5°	244.3	243.8	244.3	243.3	242.1	242.5
54°	240.0	239.7	240.0	239.0	237.7	238.6
54.5°	235.7	235.7	235.7	234.6	233.8	234.1
55°	231.7	231.2	231.7	230.7	229.5	230.3
55.5°	227.4	226.9	227.4	226.5	225.3	225.7
56°	223.1	222.8	223.1	222.2	221.2	221.6
56.5°	219.3	218.7	219.3	218.1	216.9	217.5
57°	214.9	214.2	214.9	214.0	212.6	213.4
57.5°	210.6	210.5	210.6	209.7	208.8	208.9
58°	206.4	206.2	206.4	205.3	204.5	205.1
58.5°	202.3	202.1	202.3	201.4	200.4	201.0
59°	198.1	197.5	198.1	197.1	196.3	196.6
59.5°	193.8	193.9	193.8	193.1	192.2	192.6
60°	189.9	189.4	189.9	188.9	188.1	188.4
60.5°	185.5	185.3	185.5	184.9	184.0	184.4
61°	181.6	181.4	181.6	180.9	180.0	180.2
61.5°	177.5	177.2	177.5	176.8	176.0	176.3
62°	173.5	173.2	173.5	172.6	172.1	172.2
62.5°	169.3	169.0	169.3	168.8	168.1	168.1
63°	165.3	165.0	165.3	164.7	164.0	164.0
63.5°	161.4	161.3	161.4	160.7	160.1	160.3
64°	157.4	157.2	157.4	156.7	156.2	156.4
64.5°	153.4	153.3	153.4	152.8	152.3	152.4
65°	149.5	149.2	149.5	149.0	148.5	148.5
65.5°	145.5	145.5	145.5	145.0	144.6	144.6
66°	141.6	141.7	141.6	141.2	140.7	140.6



TEST NUMBER: P938677

CATALOG NUMBER: HLB6LSFS5-1200LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	130.2	130.3	130.2	129.8	129.5	129.3
68°	126.6	126.4	126.6	126.1	125.8	125.6
68.5°	122.7	122.9	122.7	122.4	122.0	122.0
69°	119.1	119.0	119.1	118.8	118.4	118.5
69.5°	115.4	115.4	115.4	115.1	114.8	114.8
70°	111.8	111.8	111.8	111.5	111.2	111.2
70.5°	108.2	108.3	108.2	107.9	107.6	107.5
71°	104.6	104.6	104.6	104.4	104.1	103.9
71.5°	101.2	101.3	101.2	100.8	100.7	100.5
72°	97.7	97.7	97.7	97.4	97.2	97.1
72.5°	94.3	94.3	94.3	94.0	93.8	93.7
73°	91.0	90.9	91.0	90.7	90.6	90.3
73.5°	87.7	87.7	87.7	87.4	87.2	87.2
74°	84.3	84.2	84.3	84.1	84.0	83.8
74.5°	81.1	81.0	81.1	80.9	80.7	80.5
75°	78.0	77.8	78.0	77.8	77.5	77.4
75.5°	74.8	74.8	74.8	74.6	74.4	74.3
76°	71.5	71.5	71.5	71.4	71.2	71.2
76.5°	68.4	68.4	68.4	68.3	68.1	68.1
77°	65.5	65.3	65.5	65.3	65.1	65.2
77.5°	62.4	62.4	62.4	62.4	62.1	62.2
78°	59.4	59.3	59.4	59.3	59.1	59.3
78.5°	56.5	56.3	56.5	56.4	56.1	56.3
79°	53.6	53.4	53.6	53.4	53.3	53.3
79.5°	50.7	50.5	50.7	50.6	50.4	50.5
80°	47.8	47.7	47.8	47.8	47.6	47.7
80.5°	45.1	44.9	45.1	45.0	44.8	44.9
81°	42.3	42.2	42.3	42.2	42.1	42.1
81.5°	39.6	39.4	39.6	39.4	39.2	39.3
82°	36.9	36.6	36.9	36.7	36.6	36.7
82.5°	34.2	33.8	34.2	34.1	33.9	34.0
83°	31.6	31.4	31.6	31.5	31.4	31.4
83.5°	29.0	28.8	29.0	28.9	28.8	28.8
84°	26.4	26.2	26.4	26.3	26.2	26.3
84.5°	24.0	23.8	24.0	23.9	23.7	23.7
85°	21.4	21.2	21.4	21.3	21.2	21.2
85.5°	19.0	18.8	19.0	18.9	18.7	18.8
86°	16.5	16.4	16.5	16.4	16.3	16.3
86.5°	14.0	13.9	14.0	14.0	13.9	13.9
87°	11.8	11.7	11.8	11.7	11.6	11.7
87.5°	9.4	9.3	9.4	9.3	9.3	9.3
88°	7.1	7.0	7.1	7.0	7.0	7.0
88.5°	4.7	4.7	4.7	4.6	4.6	4.7



TEST NUMBER: P938677

CATALOG NUMBER: HLB6LSFS5-1200LM-3000K

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°	408.4	408.7	409.4	410.5	410.6	410.5	409.4	408.7	408.4	408.7	409.4
22°	407.6	408.0	408.6	409.5	410.3	409.5	408.6	408.0	407.6	408.0	408.6



44°	316.9	317.1	318.4	319.2	319.7	319.2	318.4	317.1	316.9	317.1	318.4
44.5°	313.1	313.7	314.8	315.8	316.2	315.8	314.8	313.7	313.1	313.7	314.8



66.5°	136.7	136.9	137.4	137.9	137.8	137.9	137.4	136.9	136.7	136.9	137.4
67°	133.0	133.2	133.5	134.1	134.0	134.1	133.5	133.2	133.0	133.2	133.5



89°	2.5	2.5	2.7	2.8	3.1	2.8	2.7	2.5	2.5	2.5	2.7
89.5°	1.4	1.4	1.6	1.5	1.6	1.5	1.6	1.4	1.4	1.4	1.6





21.5°	410.5	410.6	410.5	409.4	408.7	408.4
22°	409.5	410.3	409.5	408.6	408.0	407.6



44°	319.2	319.7	319.2	318.4	317.1	316.9
44.5°	315.8	316.2	315.8	314.8	313.7	313.1



66.5°	137.9	137.8	137.9	137.4	136.9	136.7
67°	134.1	134.0	134.1	133.5	133.2	133.0



89°	2.8	3.1	2.8	2.7	2.5	2.5
89.5°	1.5	1.6	1.5	1.6	1.4	1.4



(END OF REPORT)