Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1596616

Luminaire Tested: HLB3LSFS5-HI-4000K

Issue Date: 10/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1596616
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (A2600511A001)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	10/7/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	HALO
Catalog Number:	HLB3LSFS5-HI-4000K
Description:	HLB3 3" ROUND SLIM LOW GLARE CANLESS LED DOWNLIGHT
Light Source:	4000K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

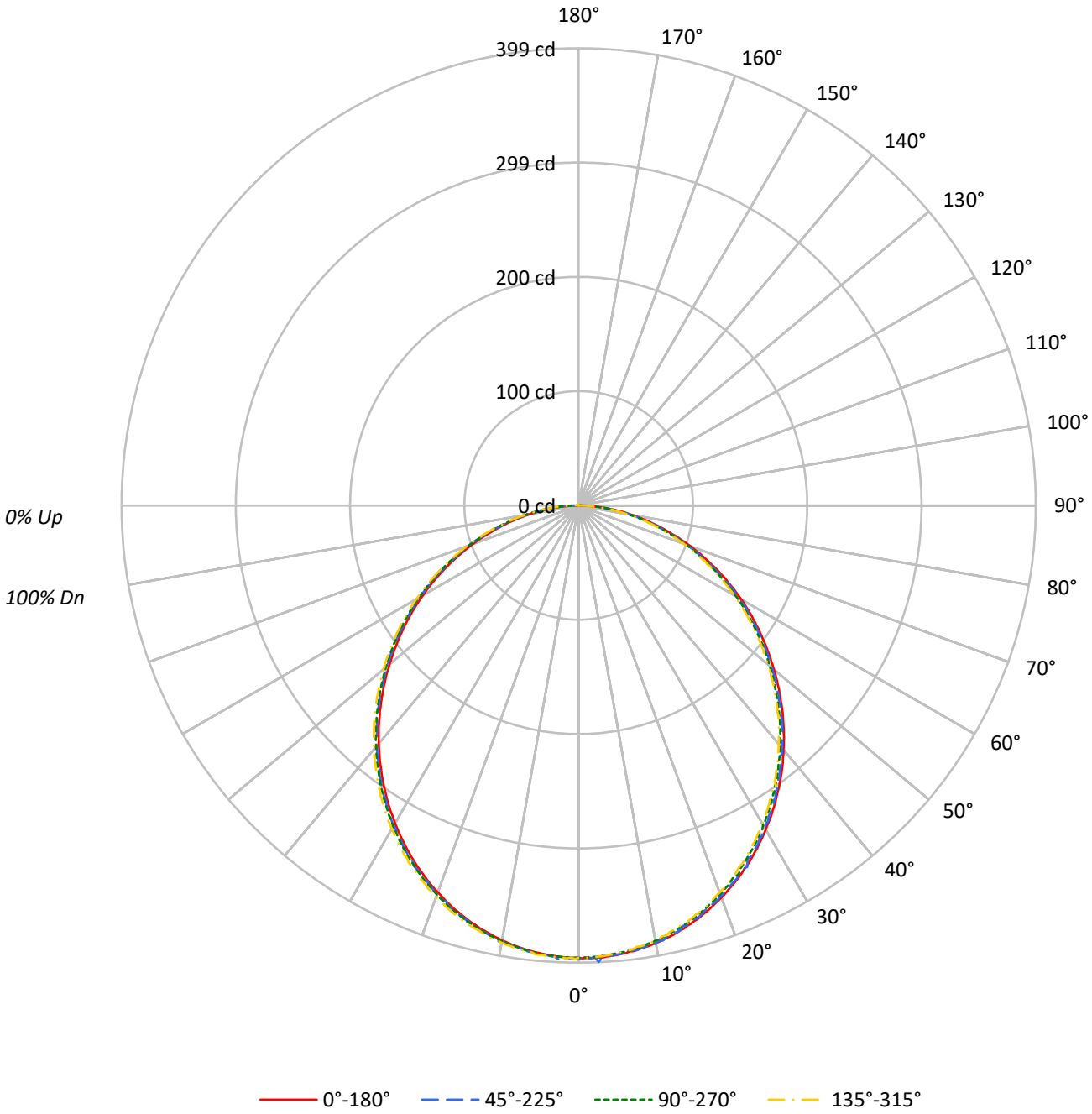
Lumens per Lamp:	N/A
Luminaire Lumens:	1080.0 lumens
Efficiency:	N/A
Efficacy:	102.9 lumens/watt
Spacing Criteria (0/90/45):	1.22 / 1.22 / 1.34
Luminous Opening:	Rectangular (W 0.18' x L: 0.18' x H: 0')
CIE Type:	Direct
Input Watts (W):	10.5
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (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			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	55	67	59	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	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	125356	125356	125356	125356
5°	125357	124943	124943	125070
10°	125034	124325	124261	124422
15°	124193	123306	122911	123503
20°	122999	121851	121378	122087
25°	121507	120212	119546	120422
30°	119720	117998	117448	118547
35°	117582	115684	115064	116381
40°	115294	113347	112477	114051
45°	112696	110497	109555	111350
50°	109853	107433	106397	108470
55°	107007	104296	103245	105513
60°	104030	100793	99777	102316
65°	100324	96570	95744	98822
70°	95944	92047	90840	94459
75°	90982	86690	85096	90246
80°	85714	80231	78221	85531
85°	80836	70641	69184	80472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 315°
Vertical Angle: 89.5°
Luminance: 156378 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	3.5
10°-20°	106.0	9.8
20°-30°	158.5	14.7
30°-40°	187.8	17.4
40°-50°	190.9	17.7
50°-60°	169.8	15.7
60°-70°	129.1	12.0
70°-80°	76.3	7.1
80°-90°	23.2	2.2
90°-100°	0.2	0.0
100°-110°	0.1	0.0
110°-120°	0.1	0.0
120°-130°	0.2	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	301.9	27.9
0°-40°	489.6	45.3
0°-60°	850.3	78.7
0°-90°	1078.9	99.9
90°-120°	0.4	0.0
90°-150°	0.9	0.1
90°-180°	1.0	0.1
0°-180°	1080.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	395	395	395	395	395	
5°	394	392	392	393	394	37
15°	378	375	374	376	378	107
25°	347	343	341	344	347	160
35°	304	299	297	300	304	190
45°	251	246	244	248	251	194
55°	193	188	187	191	193	173
65°	134	129	128	132	134	132
75°	74	71	69	74	74	79
85°	22	19	19	22	22	23
90°	2	0	0	2	2	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	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°	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0
0.5°	395.3	393.6	395.2	395.8	394.5	395.0	395.7	395.5	394.7	395.6	395.5
1°	395.0	398.0	395.2	396.0	394.5	394.7	394.8	394.7	394.8	394.2	395.0
1.5°	395.0	394.0	395.8	395.1	394.3	394.9	394.7	394.7	394.7	395.1	396.3
2°	395.1	395.6	393.9	395.2	394.4	394.4	394.6	394.4	394.4	394.7	393.8
2.5°	394.8	394.7	398.8	395.3	394.0	394.3	394.0	394.4	394.3	394.0	396.8
3°	395.1	395.0	394.8	395.0	393.6	393.8	394.0	393.9	393.9	396.1	394.4
3.5°	394.5	393.9	394.1	395.1	393.7	393.6	393.5	393.5	393.5	393.1	394.3
4°	394.2	394.7	394.2	394.5	393.1	393.0	393.0	393.1	393.1	393.0	393.6
4.5°	394.1	394.6	393.4	393.3	392.7	392.8	393.0	392.7	392.8	393.3	393.0
5°	393.5	393.0	393.4	393.8	392.2	392.1	392.0	392.3	392.2	392.8	393.2
5.5°	393.2	393.6	392.6	392.6	391.9	392.0	391.6	391.6	391.7	391.8	392.1
6°	392.9	393.7	392.4	392.2	391.4	391.3	390.5	391.6	391.3	391.5	392.0
6.5°	391.9	388.4	392.4	392.0	390.6	390.7	390.7	390.3	390.7	391.2	391.7
7°	391.9	392.5	390.8	391.5	390.2	390.2	390.4	389.9	390.0	390.5	389.9
7.5°	391.4	392.9	391.2	391.4	389.5	389.4	388.4	389.3	389.4	389.4	389.8
8°	390.4	389.6	390.2	389.7	389.0	388.8	388.5	388.5	388.6	389.4	390.1
8.5°	389.9	390.4	389.6	389.3	388.2	388.0	387.8	387.6	387.8	388.3	388.4
9°	389.3	389.2	389.5	388.6	387.3	387.0	387.0	387.0	387.0	386.9	388.2
9.5°	388.6	388.5	387.3	387.3	386.7	386.3	386.4	385.7	386.1	387.0	387.7
10°	388.0	387.6	388.7	387.3	385.8	385.6	384.9	385.4	385.6	385.3	385.5
10.5°	387.1	386.8	385.8	384.8	385.0	384.5	384.7	384.2	384.3	385.6	386.8
11°	386.2	386.1	386.8	387.0	384.0	383.8	383.0	383.1	383.5	383.2	383.1
11.5°	385.1	385.2	383.9	383.4	382.9	382.6	383.1	382.1	382.3	381.7	383.6
12°	384.5	384.1	383.1	382.7	382.0	381.7	380.9	381.2	381.2	382.0	382.5
12.5°	383.5	383.1	382.5	382.8	381.0	380.7	379.8	380.2	380.1	379.7	381.1
13°	382.5	382.4	381.9	380.8	380.1	379.4	380.5	379.0	379.3	379.8	380.6
13.5°	381.3	380.9	381.1	380.0	379.0	378.4	377.6	377.6	378.0	377.9	379.5
14°	380.5	380.1	377.9	379.1	377.6	377.3	376.5	376.8	376.6	378.2	377.5
14.5°	378.9	379.0	378.6	377.2	376.6	375.9	376.2	375.3	375.6	376.0	377.2
15°	378.0	377.7	376.9	376.9	375.3	374.8	374.2	373.9	374.1	374.6	374.8
15.5°	376.5	376.4	375.1	375.0	374.0	373.4	373.0	372.9	372.9	373.8	374.5
16°	375.6	375.2	374.5	373.5	372.8	372.0	371.4	371.5	371.5	372.5	372.3
16.5°	374.1	373.7	373.6	373.1	371.2	370.5	370.6	370.1	370.1	370.0	372.1
17°	372.8	372.8	370.8	371.3	370.0	369.6	368.7	368.6	368.9	370.7	369.9
17.5°	371.5	371.3	369.8	369.6	368.8	367.8	367.4	367.3	367.3	367.5	368.9
18°	370.2	369.7	369.8	368.6	367.1	366.2	366.1	365.7	365.7	367.3	367.7
18.5°	368.6	369.0	367.2	366.9	365.6	365.5	364.4	364.1	364.3	364.3	364.6
19°	367.1	366.7	366.2	365.3	364.4	363.5	362.4	362.5	362.7	363.6	364.6
19.5°	365.7	365.0	364.7	364.0	362.6	361.6	360.9	361.1	360.9	361.0	362.8
20°	364.2	364.0	362.4	362.4	360.8	360.3	359.7	359.4	359.4	361.8	360.7
20.5°	362.7	362.3	361.6	360.5	359.6	358.6	358.1	357.7	357.9	359.4	359.9
21°	361.1	360.6	359.7	358.8	357.7	356.8	356.6	356.0	356.2	356.9	357.5
21.5°	359.3	358.7	358.1	357.3	356.3	355.4	354.4	354.2	354.4	354.8	356.6
22°	357.6	357.5	356.5	355.4	354.1	353.4	352.6	352.6	352.7	355.0	353.2

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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°	356.0	355.6	*354.8*	353.7	351.9	351.7	351.2	350.7	350.9	351.8	352.6
23°	354.3	353.8	*353.5*	352.0	351.4	349.8	349.5	348.8	348.9	348.7	351.7
23.5°	352.6	351.8	*350.2*	349.9	350.5	348.1	347.0	347.2	347.0	349.0	348.6
24°	350.6	350.3	*349.3*	348.0	346.9	346.2	345.0	345.2	345.3	345.1	347.3
24.5°	348.6	347.3	*348.1*	346.4	345.2	344.4	343.9	343.3	343.3	342.0	346.2
25°	347.0	347.2	*348.0*	344.4	343.3	342.2	341.7	341.1	341.4	345.2	342.5
25.5°	345.2	345.2	*342.3*	342.5	341.2	340.5	339.7	339.3	339.5	340.1	341.6
26°	343.3	342.5	*341.4*	340.6	339.1	338.4	337.6	337.2	337.4	338.0	339.5
26.5°	341.2	339.2	*340.2*	338.4	337.2	336.5	335.7	335.4	335.4	336.5	337.3
27°	339.0	341.0	*337.1*	336.4	335.5	334.3	333.3	333.1	333.2	333.9	335.5
27.5°	337.3	335.7	*335.7*	334.5	333.2	332.3	331.6	331.2	331.1	332.4	333.5
28°	335.1	334.0	*333.9*	332.1	331.5	330.1	329.3	328.8	329.2	330.4	331.0
28.5°	333.0	332.3	*331.0*	330.2	329.0	327.9	327.2	327.2	327.0	326.2	329.3
29°	330.9	330.7	*329.6*	328.1	326.4	325.8	325.1	324.7	324.9	326.8	327.3
29.5°	328.8	327.7	*326.7*	325.3	325.6	323.8	322.9	322.6	322.6	323.4	324.5
30°	326.7	326.6	*324.8*	324.3	322.0	321.2	321.0	320.3	320.5	321.4	322.9
30.5°	324.3	324.1	*322.3*	320.9	320.4	319.2	318.4	318.2	318.0	319.0	320.6
31°	322.3	323.0	*321.1*	319.5	317.9	317.1	316.3	315.6	315.8	317.0	318.4
31.5°	320.0	318.1	*317.6*	316.8	315.8	314.6	313.7	313.7	313.7	314.4	315.9
32°	317.7	317.8	*316.0*	314.6	313.4	312.2	311.6	311.3	311.3	312.5	314.0
32.5°	315.4	314.2	*313.6*	313.3	310.8	310.0	309.0	308.4	309.1	309.5	311.3
33°	313.2	312.7	*312.3*	309.0	309.0	307.5	306.5	307.1	306.6	307.3	308.9
33.5°	310.8	310.2	*308.8*	307.9	306.2	305.3	305.1	304.2	304.1	305.3	306.2
34°	308.5	307.5	*307.2*	304.6	303.8	302.9	301.9	301.6	301.8	303.0	304.7
34.5°	305.8	305.6	*303.1*	302.9	301.8	300.4	297.9	299.3	299.3	300.2	301.9
35°	303.5	302.9	*302.0*	300.4	298.6	297.8	300.0	296.8	297.0	298.1	299.3
35.5°	301.3	300.4	*298.6*	297.5	297.0	295.6	294.8	294.2	294.4	294.9	296.9
36°	298.7	297.9	*296.0*	295.3	294.8	293.1	292.6	291.9	292.0	294.7	294.4
36.5°	296.4	295.5	*295.0*	292.8	291.8	290.6	289.5	289.4	289.3	290.6	292.1
37°	293.8	292.9	*291.7*	290.2	289.2	287.9	287.4	287.0	286.8	287.4	289.0
37.5°	291.4	290.5	*289.1*	287.6	286.4	285.5	284.6	283.9	284.4	285.1	287.0
38°	288.8	287.0	*286.8*	285.1	284.1	282.8	282.2	281.8	281.8	283.3	283.8
38.5°	286.3	285.5	*283.9*	282.4	281.4	280.0	279.4	279.1	279.3	280.3	282.0
39°	283.4	283.4	*280.8*	280.1	279.1	277.5	276.9	276.5	276.7	277.5	279.0
39.5°	281.1	279.5	*279.3*	277.0	276.2	275.2	274.3	273.7	273.9	275.5	276.4
40°	278.3	278.0	*275.7*	274.4	273.6	272.3	271.6	271.1	271.5	272.8	274.1
40.5°	275.7	275.6	*273.5*	271.9	270.6	269.7	269.2	268.6	268.7	269.0	271.1
41°	272.9	271.3	*270.5*	269.0	268.4	267.0	265.9	265.6	266.0	267.8	268.8
41.5°	270.5	270.3	*267.9*	266.4	265.5	264.3	263.3	263.2	263.3	264.4	265.8
42°	267.5	265.9	*265.8*	263.5	262.9	261.6	261.1	260.4	260.8	261.8	263.0
42.5°	265.0	264.5	*262.8*	261.1	260.0	259.1	257.9	257.6	257.9	258.9	260.9
43°	262.3	260.4	*260.0*	258.4	257.7	256.0	255.5	255.0	255.2	256.5	258.0
43.5°	259.4	258.9	*257.3*	255.3	254.3	253.2	253.6	252.1	252.2	253.5	254.8
44°	256.8	255.3	*254.4*	252.7	251.8	250.5	249.3	249.2	249.9	250.6	252.3
44.5°	254.0	253.4	*251.3*	249.7	248.9	247.7	247.2	246.9	246.8	248.2	249.6

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CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	251.1	250.4	*249.4*	247.0	246.2	245.0	244.4	243.2	244.1	244.8	246.7
45.5°	248.4	247.3	*246.3*	244.1	243.6	242.1	241.3	241.4	241.1	243.0	243.9
46°	245.4	244.8	*242.3*	241.2	240.5	239.3	238.6	238.2	238.3	239.6	241.4
46.5°	242.6	241.8	*241.1*	238.7	237.7	236.4	235.7	235.4	235.5	236.8	238.2
47°	239.8	238.8	*237.2*	235.5	234.8	233.6	232.8	232.1	232.8	233.9	235.7
47.5°	237.0	236.2	*234.1*	232.8	232.0	230.6	230.4	229.9	229.7	230.9	232.4
48°	234.0	233.4	*232.0*	229.9	228.9	227.8	227.3	226.3	226.8	228.2	229.9
48.5°	231.2	230.2	*228.7*	226.9	226.5	224.8	224.0	223.8	224.2	225.5	226.8
49°	228.3	227.4	*226.4*	224.2	223.4	221.9	222.1	221.1	221.2	222.3	223.9
49.5°	225.5	224.6	*222.6*	221.3	220.6	219.2	218.5	217.6	218.2	219.7	221.1
50°	222.5	221.5	*220.3*	218.4	217.6	216.0	215.4	215.8	215.5	216.5	218.2
50.5°	219.6	218.9	*217.2*	215.5	214.9	213.2	212.9	212.3	212.4	214.2	215.2
51°	216.6	215.8	*214.3*	212.5	212.0	210.3	210.3	209.5	209.6	210.7	212.5
51.5°	213.9	212.8	*211.3*	209.5	209.2	207.5	206.3	206.4	206.6	207.4	209.7
52°	210.8	211.2	*208.2*	207.1	206.0	204.6	204.9	204.5	203.9	206.4	206.7
52.5°	208.0	206.6	*205.6*	205.1	203.4	202.0	201.2	200.8	200.8	202.0	203.5
53°	205.1	204.4	*202.7*	199.7	200.4	198.9	198.3	197.7	198.0	199.8	201.3
53.5°	202.2	201.5	*199.7*	198.7	197.4	196.0	195.2	195.0	195.1	196.3	198.1
54°	199.1	198.6	*197.3*	194.9	194.4	193.1	192.6	192.0	192.2	193.1	195.0
54.5°	196.3	195.9	*193.7*	192.3	191.4	190.3	189.3	189.0	189.4	190.7	192.3
55°	193.4	192.2	*190.9*	190.1	188.5	187.4	186.5	186.1	186.6	187.4	189.4
55.5°	190.7	189.8	*188.1*	185.7	185.3	184.4	183.5	183.1	183.6	184.6	186.3
56°	187.5	186.5	*185.3*	183.3	182.8	181.5	180.4	180.4	180.7	181.9	184.2
56.5°	184.7	183.4	*181.6*	180.9	179.7	178.7	177.5	177.1	177.8	178.6	180.5
57°	181.7	180.4	*179.7*	176.6	176.4	175.5	174.7	174.4	174.9	176.7	177.7
57.5°	178.8	177.4	*175.9*	174.8	173.7	172.7	171.6	171.4	171.9	172.9	174.8
58°	175.8	174.5	*173.2*	171.6	170.5	169.6	168.3	168.6	169.0	169.8	172.3
58.5°	172.9	171.5	*170.8*	168.1	167.8	166.7	165.9	165.0	166.1	167.1	168.5
59°	169.8	168.1	*167.1*	165.8	164.7	163.7	162.6	162.8	163.1	164.2	166.6
59.5°	167.0	165.2	*164.5*	162.6	161.7	160.8	159.7	159.8	160.1	161.2	162.6
60°	163.9	162.5	*162.4*	159.3	158.8	157.8	156.7	156.5	157.2	157.8	160.9
60.5°	160.8	159.3	*157.5*	156.6	155.7	154.7	153.9	153.3	154.2	155.5	157.4
61°	157.8	156.5	*155.6*	153.4	152.8	151.8	150.9	150.7	151.2	152.3	154.1
61.5°	154.9	153.9	*152.2*	150.2	149.8	148.7	147.9	147.8	148.2	149.2	151.5
62°	151.8	150.0	*149.3*	147.5	146.8	145.7	144.9	144.6	145.3	146.3	148.4
62.5°	148.8	147.4	*146.2*	144.5	143.8	142.8	141.9	141.7	142.3	143.4	145.8
63°	145.7	144.5	*143.1*	141.0	140.6	139.6	138.8	139.1	139.3	140.5	142.2
63.5°	142.8	141.3	*140.1*	138.0	137.7	136.7	135.8	135.6	136.4	137.5	139.5
64°	139.6	138.7	*137.1*	135.4	134.7	133.6	132.8	133.1	133.4	134.6	136.3
64.5°	136.6	135.2	*134.0*	132.2	131.6	130.7	130.0	129.5	130.4	131.8	133.5
65°	133.6	132.5	*130.9*	128.9	128.6	127.5	126.8	126.7	127.5	128.5	130.4
65.5°	130.5	129.9	*127.9*	126.1	125.6	124.6	123.8	124.0	124.5	125.8	127.1
66°	127.5	126.2	*124.8*	123.1	122.7	121.7	121.0	120.8	121.5	122.9	124.5
66.5°	124.5	123.7	*121.8*	120.5	119.7	118.5	117.5	117.7	118.5	119.4	121.3
67°	121.5	120.3	*118.8*	116.8	116.6	115.7	115.0	115.4	115.5	116.9	118.6

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	118.4	117.7	*115.8*	114.3	114.1	112.6	112.0	111.7	112.6	114.1	114.8
68°	115.4	114.1	*112.7*	111.3	110.7	109.6	108.9	108.7	109.7	110.5	113.7
68.5°	112.5	111.8	*109.8*	108.0	108.0	106.7	106.0	106.0	106.8	108.4	109.4
69°	109.5	108.5	*106.8*	105.0	105.1	103.8	103.2	103.1	103.8	105.1	106.6
69.5°	106.4	105.5	*103.8*	102.2	102.2	100.8	100.3	100.2	100.9	102.1	104.1
70°	103.4	102.5	*100.7*	99.4	99.2	97.9	97.4	97.3	97.9	99.2	101.6
70.5°	100.4	99.7	*98.0*	96.2	96.3	94.9	94.5	94.4	95.0	96.3	99.2
71°	97.5	96.7	*94.8*	93.5	93.3	92.0	91.6	91.5	92.1	93.4	96.7
71.5°	94.6	94.0	*91.9*	90.4	90.6	88.9	88.7	88.7	89.2	90.7	90.5
72°	91.6	90.8	*89.1*	87.8	87.8	86.1	85.8	85.8	86.3	87.8	89.8
72.5°	88.7	88.0	*86.1*	84.6	84.7	83.2	83.0	82.9	83.6	85.0	86.4
73°	85.8	85.0	*83.2*	82.0	82.4	80.3	80.1	80.1	80.6	82.1	83.1
73.5°	82.9	82.1	*80.3*	79.1	78.9	77.5	77.3	77.4	77.7	79.3	80.5
74°	80.0	79.4	*77.5*	76.2	76.0	74.6	74.5	74.5	75.0	76.6	78.2
74.5°	77.1	76.5	*74.7*	73.4	73.4	71.8	71.6	71.8	72.2	73.6	74.5
75°	74.2	73.8	*72.0*	70.9	70.7	69.0	68.9	69.1	69.4	71.1	72.3
75.5°	71.5	70.5	*69.2*	67.8	68.4	66.2	66.2	66.2	66.6	68.0	69.2
76°	68.6	68.2	*66.3*	65.1	64.9	63.5	63.4	63.6	63.9	65.5	66.8
76.5°	65.7	65.3	*63.6*	62.3	62.3	60.7	60.8	61.2	61.2	62.7	64.1
77°	63.1	62.4	*60.9*	59.9	59.8	58.0	58.1	57.2	58.5	60.1	60.8
77.5°	60.3	59.8	*58.2*	56.9	57.1	55.3	55.2	56.8	55.8	57.4	59.1
78°	57.6	57.1	*55.6*	54.4	54.4	52.7	52.8	52.9	53.2	54.8	55.7
78.5°	54.9	54.3	*52.8*	51.7	51.7	50.2	50.0	49.9	50.6	52.1	53.2
79°	52.3	51.4	*50.2*	49.0	49.0	47.5	47.4	47.4	48.0	49.6	50.9
79.5°	49.6	49.3	*47.6*	46.5	46.4	45.0	44.9	45.5	45.4	46.7	48.1
80°	46.9	46.2	*45.0*	43.3	43.9	42.4	42.3	41.6	42.8	44.6	45.6
80.5°	44.5	43.4	*42.5*	41.0	41.3	40.0	39.8	39.9	40.3	41.7	43.0
81°	41.9	41.0	*40.0*	38.6	38.8	37.5	37.3	37.8	37.8	39.3	40.6
81.5°	39.4	38.5	*37.4*	36.2	36.2	35.0	34.9	34.6	35.4	36.8	38.0
82°	36.9	36.1	*34.9*	33.8	33.8	32.6	32.4	32.5	32.9	34.3	35.6
82.5°	34.3	33.6	*32.4*	31.2	31.3	30.2	29.9	30.0	30.5	31.9	33.1
83°	31.8	31.2	*29.9*	28.8	28.9	27.8	27.6	27.5	28.1	29.5	30.6
83.5°	29.3	28.6	*27.5*	26.6	26.4	25.4	25.3	25.5	25.8	27.1	28.3
84°	27.0	26.3	*25.1*	24.0	24.1	23.1	22.9	22.9	23.5	24.8	26.0
84.5°	24.6	23.9	*22.7*	21.6	21.7	20.9	20.7	20.7	21.2	22.4	23.6
85°	22.2	21.5	*20.4*	19.3	19.4	18.5	18.4	18.5	19.0	20.1	21.3
85.5°	19.9	19.1	*18.1*	17.0	17.0	16.3	16.2	16.2	16.7	17.9	19.3
86°	17.6	16.9	*15.9*	14.9	14.9	14.1	14.1	14.1	14.6	15.7	16.9
86.5°	15.4	14.7	*13.8*	12.7	12.6	12.0	11.9	12.0	12.5	13.5	14.6
87°	13.2	12.5	*11.7*	10.7	10.4	9.8	9.8	9.9	10.4	11.4	12.5
87.5°	11.2	10.5	*9.6*	8.5	8.2	7.6	7.6	7.7	8.3	9.3	10.3
88°	9.2	8.4	*7.4*	6.1	5.9	5.4	5.4	5.6	6.2	7.1	8.2
88.5°	7.1	6.1	*4.8*	3.4	3.7	3.3	3.3	3.5	4.1	5.0	6.0
89°	4.7	3.7	*3.6*	2.6	1.5	1.4	1.6	1.9	2.3	2.9	3.8
89.5°	3.5	2.8	*2.5*	1.8	0.4	0.4	0.6	0.9	1.3	1.6	2.1

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	2.4	1.9	*1.3*	0.9	0.1	0.1	0.1	0.2	0.5	0.8	1.1
90.5°	1.3	1.0	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
91°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
91.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
93°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
93.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
94°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
94.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
96°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
96.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
97°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
97.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
98°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
98.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
99°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
99.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
101°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
101.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
102°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
102.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
104°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
104.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
105°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
105.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
106°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
106.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
107°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
107.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
108°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
108.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
109°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
109.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
111°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
111.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
112°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
113°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
113.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
114°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
114.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
115°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
115.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
116°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
116.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
117°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
117.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
118°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
118.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
119°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
119.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
120°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
120.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
121°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
121.5°	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
122°	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
122.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2
123°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2
123.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2
124°	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2
124.5°	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2
125°	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2
125.5°	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2
126°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
126.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
127°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
127.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
128°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
128.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
129°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
129.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
130°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
130.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
131°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
131.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
132°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
132.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
133°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
133.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
134°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
134.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
135.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
136°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
136.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
138°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
138.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
139°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
139.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
140°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
140.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
141°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
141.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
142°	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3
142.5°	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3
143°	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3
143.5°	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3
144°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3
144.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
146°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
146.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
147°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
147.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
148°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
148.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
149°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
149.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
151°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
151.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
157°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3
164.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.4
165°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.4
165.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.4
166°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.4
166.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.4
167°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.4
167.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.4
168°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.4
168.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4
169°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4
169.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4
170°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4
170.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
171°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
171.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
172°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
172.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
173°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
173.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
174°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
174.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3
175°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
175.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
176°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
176.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
177°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
177.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
178°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
178.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
179°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
179.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.3	0.3	*0.3*	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	395.0	395.0	395.0	395.0	395.0	395.0
0.5°	395.4	394.5	395.0	395.8	395.3	395.3
1°	397.2	394.6	394.8	394.5	395.1	395.0
1.5°	393.6	394.3	394.8	395.5	395.1	395.0
2°	395.9	394.3	394.6	394.8	395.0	395.1
2.5°	*393.3*	*394.1*	*394.7*	*394.4*	*394.9*	*394.8*
3°	396.6	393.7	394.2	394.6	394.5	395.1
3.5°	394.2	393.6	394.2	394.3	394.8	394.5
4°	394.5	393.4	393.7	394.6	394.1	394.2
4.5°	394.4	392.9	393.7	393.4	394.2	394.1
5°	393.5	392.6	393.0	393.6	393.5	393.5
5.5°	393.1	392.0	392.8	393.6	393.4	393.2
6°	392.5	391.8	391.9	392.2	392.8	392.9
6.5°	392.9	391.0	391.7	392.3	392.2	391.9
7°	390.9	390.6	391.3	391.3	392.0	391.9
7.5°	392.1	389.7	390.4	391.1	390.9	391.4
8°	389.5	389.2	389.7	390.4	390.7	390.4
8.5°	390.4	388.5	389.3	389.6	390.2	389.9
9°	388.1	387.7	388.5	388.8	389.0	389.3
9.5°	388.2	387.0	387.7	388.3	388.3	388.6
10°	388.1	386.1	386.8	387.4	387.8	388.0
10.5°	385.3	385.3	386.2	386.4	387.1	387.1
11°	385.5	384.4	385.4	385.5	386.5	386.2
11.5°	384.0	383.4	384.2	385.2	384.4	385.1
12°	383.4	382.4	383.2	383.9	384.5	384.5
12.5°	382.5	381.4	382.4	382.9	383.0	383.5
13°	381.1	380.2	381.3	381.5	382.9	382.5
13.5°	380.3	379.2	380.5	380.5	380.7	381.3
14°	379.0	377.9	379.1	379.8	380.3	380.5
14.5°	377.9	376.8	377.9	378.6	379.2	378.9
15°	376.4	375.9	376.8	377.8	382.9	378.0
15.5°	375.5	374.5	375.5	376.0	374.8	376.5
16°	374.0	373.2	374.2	375.1	375.7	375.6
16.5°	372.6	371.8	373.1	373.7	374.4	374.1
17°	371.5	370.4	371.6	372.5	372.4	372.8
17.5°	370.0	368.9	370.3	371.1	371.4	371.5
18°	368.5	368.1	368.7	369.7	370.3	370.2
18.5°	367.1	365.9	367.4	368.1	369.7	368.6
19°	365.7	364.6	365.9	366.1	366.9	367.1
19.5°	364.0	363.2	364.4	365.6	365.4	365.7
20°	362.4	361.5	362.9	363.6	364.3	364.2
20.5°	360.7	359.8	361.3	362.1	361.9	362.7
21°	358.9	358.3	359.6	360.4	360.9	361.1
21.5°	357.5	356.5	358.1	358.9	358.8	359.3
22°	355.7	355.0	356.4	357.2	358.5	357.6

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	354.0	353.0	354.5	355.1	359.3	356.0
23°	352.3	351.5	352.7	354.2	351.2	354.3
23.5°	350.3	349.7	351.2	351.9	353.5	352.6
24°	348.6	348.0	349.1	350.2	351.3	350.6
24.5°	346.6	345.7	347.4	348.5	348.1	348.6
25°	345.1	343.9	345.4	346.6	347.4	347.0
25.5°	342.7	342.2	343.5	344.9	346.2	345.2
26°	341.0	340.1	341.5	342.2	342.2	343.3
26.5°	338.9	338.1	339.6	341.0	343.0	341.2
27°	336.8	336.2	337.7	338.7	340.3	339.0
27.5°	334.9	334.1	335.6	336.5	336.4	337.3
28°	332.8	332.1	333.6	334.6	334.4	335.1
28.5°	330.5	329.8	331.4	332.5	332.4	333.0
29°	328.6	327.8	329.2	330.4	330.8	330.9
29.5°	326.2	325.6	327.2	328.1	329.1	328.8
30°	324.3	323.5	325.1	326.2	326.2	326.7
30.5°	321.9	321.3	322.8	323.9	324.4	324.3
31°	319.7	319.0	320.5	321.8	322.1	322.3
31.5°	317.5	316.9	318.5	319.9	320.4	320.0
32°	315.2	314.5	316.0	317.0	325.8	317.7
32.5°	312.8	312.2	314.0	315.1	311.0	315.4
33°	310.5	309.7	311.4	313.1	314.0	313.2
33.5°	308.3	307.6	309.2	310.1	311.9	310.8
34°	305.8	305.2	306.8	307.7	307.8	308.5
34.5°	303.4	302.6	304.5	305.7	306.2	305.8
35°	301.0	300.4	302.0	303.1	304.3	303.5
35.5°	298.5	298.1	299.6	300.5	300.5	301.3
36°	296.3	295.4	297.2	298.4	299.5	298.7
36.5°	293.5	293.0	294.7	295.6	296.2	296.4
37°	291.0	290.5	292.1	293.2	294.2	293.8
37.5°	288.7	288.2	289.8	290.7	290.3	291.4
38°	286.1	285.3	287.0	288.2	289.1	288.8
38.5°	283.5	283.0	284.6	285.8	286.0	286.3
39°	280.9	280.3	282.2	283.1	283.6	283.4
39.5°	278.3	277.8	279.4	280.6	281.3	281.1
40°	275.8	275.3	276.7	277.9	278.1	278.3
40.5°	273.2	272.4	274.1	275.3	276.5	275.7
41°	270.4	269.9	271.5	272.4	272.8	272.9
41.5°	267.7	267.0	268.8	269.9	271.2	270.5
42°	265.1	264.4	266.0	267.2	267.5	267.5
42.5°	262.4	261.8	263.3	264.6	265.0	265.0
43°	259.5	258.8	260.8	261.7	261.9	262.3
43.5°	256.8	256.3	257.9	259.3	260.1	259.4
44°	254.1	253.5	255.2	256.2	256.7	256.8
44.5°	251.2	250.7	252.4	253.6	253.8	254.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	248.8	248.1	249.6	250.7	251.5	251.1
45.5°	245.6	245.1	246.8	247.9	248.5	248.4
46°	242.9	242.4	244.1	245.2	245.6	245.4
46.5°	240.4	239.3	241.2	242.5	242.6	242.6
47°	237.3	236.8	238.3	239.4	240.5	239.8
47.5°	234.4	233.8	235.5	236.7	236.5	237.0
48°	231.6	231.1	232.8	233.7	235.0	234.0
48.5°	228.8	228.1	229.8	231.0	229.7	231.2
49°	225.8	225.3	226.9	228.1	229.8	228.3
49.5°	222.9	222.4	224.1	225.3	225.3	225.5
50°	220.2	219.7	221.1	222.3	222.3	222.5
50.5°	217.2	216.6	218.1	219.6	219.9	219.6
51°	214.2	213.9	215.2	216.6	217.1	216.6
51.5°	211.6	211.0	212.3	213.8	213.8	213.9
52°	208.5	208.0	209.4	210.8	211.5	210.8
52.5°	205.8	205.3	206.6	208.0	208.5	208.0
53°	202.8	202.3	203.7	205.0	205.2	205.1
53.5°	200.1	199.4	200.8	202.1	202.8	202.2
54°	196.9	196.5	197.9	199.2	198.9	199.1
54.5°	193.8	193.6	195.1	196.3	196.9	196.3
55°	191.6	190.7	192.2	193.2	193.4	193.4
55.5°	188.5	187.8	189.5	190.2	191.0	190.7
56°	185.3	184.9	186.5	187.7	187.5	187.5
56.5°	182.6	181.9	183.6	184.3	185.0	184.7
57°	179.6	179.0	180.7	181.5	181.6	181.7
57.5°	176.7	176.0	177.7	178.5	178.9	178.8
58°	173.6	173.1	174.9	175.5	175.6	175.8
58.5°	170.8	170.1	172.1	172.5	172.7	172.9
59°	167.8	167.1	168.8	169.7	170.0	169.8
59.5°	164.9	164.1	166.0	166.6	167.4	167.0
60°	161.9	161.2	163.0	163.6	163.9	163.9
60.5°	158.9	158.1	160.0	160.6	160.8	160.8
61°	156.0	155.2	157.1	157.8	158.2	157.8
61.5°	153.1	152.3	154.1	154.6	155.0	154.9
62°	150.2	149.4	151.1	151.8	152.0	151.8
62.5°	147.1	146.3	148.1	148.6	149.0	148.8
63°	144.0	143.4	144.9	145.7	146.1	145.7
63.5°	141.1	140.5	142.0	142.7	143.0	142.8
64°	138.2	137.5	139.0	139.6	139.9	139.6
64.5°	135.1	134.4	136.0	136.5	136.8	136.6
65°	132.2	131.6	132.9	133.6	133.9	133.6
65.5°	129.2	128.6	129.9	130.5	130.8	130.5
66°	126.1	125.5	126.9	127.4	127.7	127.5
66.5°	123.2	122.6	123.9	124.4	124.7	124.5
67°	120.1	119.5	120.8	121.5	121.9	121.5

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	117.2	117.0	117.9	118.4	118.6	118.4
68°	114.2	113.6	114.9	115.4	115.8	115.4
68.5°	111.2	110.7	111.9	112.5	112.8	112.5
69°	108.3	107.9	108.8	109.4	109.8	109.5
69.5°	105.3	105.0	105.9	106.4	106.7	106.4
70°	102.4	101.8	103.0	103.5	103.8	103.4
70.5°	99.5	99.2	100.1	100.5	100.8	100.4
71°	96.5	96.3	97.0	97.7	97.9	97.5
71.5°	93.6	93.1	94.1	94.9	95.0	94.6
72°	90.8	90.5	91.1	91.9	92.0	91.6
72.5°	87.9	87.7	88.3	89.0	89.2	88.7
73°	85.0	84.8	85.4	86.3	86.3	85.8
73.5°	82.2	81.9	82.6	83.4	83.4	82.9
74°	79.5	79.2	79.7	80.6	80.5	80.0
74.5°	76.7	76.3	76.9	77.6	77.7	77.1
75°	73.9	73.6	74.0	75.0	74.8	74.2
75.5°	71.2	70.8	71.3	72.0	72.2	71.5
76°	68.4	68.0	68.4	69.3	69.2	68.6
76.5°	65.6	65.3	65.6	66.5	66.5	65.7
77°	63.0	62.6	62.9	63.7	63.7	63.1
77.5°	60.3	59.9	60.3	61.0	60.9	60.3
78°	57.6	57.3	57.5	58.3	58.2	57.6
78.5°	54.9	54.5	55.0	55.6	55.5	54.9
79°	52.3	51.9	52.3	52.8	52.9	52.3
79.5°	49.7	49.2	49.6	50.2	50.1	49.6
80°	47.1	46.8	47.0	47.5	47.5	46.9
80.5°	44.5	44.3	44.6	45.0	44.8	44.5
81°	41.9	41.7	42.1	42.5	42.3	41.9
81.5°	39.4	39.2	39.6	40.0	39.8	39.4
82°	36.9	36.7	37.1	37.4	37.3	36.9
82.5°	34.5	34.2	34.5	34.9	34.8	34.3
83°	32.0	31.7	32.0	32.4	32.3	31.8
83.5°	29.5	29.2	29.6	29.9	29.9	29.3
84°	27.2	26.9	27.2	27.5	27.5	27.0
84.5°	24.8	24.5	24.9	25.2	25.1	24.6
85°	22.5	22.1	22.5	22.8	22.7	22.2
85.5°	20.2	19.7	20.3	20.5	20.4	19.9
86°	17.9	17.5	18.0	18.2	18.1	17.6
86.5°	15.7	15.2	15.7	15.9	15.8	15.4
87°	13.5	13.1	13.6	13.8	13.6	13.2
87.5°	11.4	11.0	11.6	11.7	11.5	11.2
88°	9.2	8.9	9.6	9.7	9.5	9.2
88.5°	7.0	6.8	7.5	7.6	7.5	7.1
89°	4.9	4.5	5.2	5.3	5.1	4.7
89.5°	2.8	3.4	4.2	4.3	4.1	3.5

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	1.4	2.3	3.2	3.2	3.1	2.4
90.5°	0.4	1.2	2.1	2.2	2.1	1.3
91°	0.1	0.1	1.1	1.1	1.1	0.1
91.5°	0.1	0.1	0.1	0.1	0.1	0.1
92°	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1
93°	0.1	0.1	0.1	0.1	0.1	0.1
93.5°	0.1	0.1	0.1	0.1	0.1	0.1
94°	0.1	0.1	0.1	0.1	0.1	0.1
94.5°	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.1	0.1	0.1	0.1	0.1	0.1
95.5°	0.1	0.1	0.1	0.1	0.1	0.1
96°	0.1	0.1	0.1	0.1	0.1	0.1
96.5°	0.1	0.1	0.1	0.1	0.1	0.1
97°	0.1	0.1	0.1	0.1	0.1	0.1
97.5°	0.1	0.1	0.1	0.1	0.1	0.1
98°	0.1	0.1	0.1	0.1	0.1	0.1
98.5°	0.1	0.1	0.1	0.1	0.1	0.1
99°	0.1	0.1	0.1	0.1	0.1	0.1
99.5°	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.1	0.1	0.1	0.1	0.1	0.1
100.5°	0.1	0.1	0.1	0.1	0.1	0.1
101°	0.1	0.1	0.1	0.1	0.1	0.1
101.5°	0.1	0.1	0.1	0.1	0.1	0.1
102°	0.1	0.1	0.1	0.1	0.1	0.1
102.5°	0.1	0.1	0.1	0.1	0.1	0.1
103°	0.1	0.1	0.1	0.1	0.1	0.1
103.5°	0.1	0.1	0.1	0.1	0.1	0.1
104°	0.1	0.1	0.1	0.1	0.1	0.1
104.5°	0.1	0.1	0.1	0.1	0.1	0.1
105°	0.1	0.1	0.1	0.1	0.1	0.1
105.5°	0.1	0.1	0.1	0.1	0.1	0.1
106°	0.1	0.1	0.1	0.1	0.1	0.1
106.5°	0.1	0.1	0.1	0.1	0.1	0.1
107°	0.1	0.1	0.1	0.1	0.1	0.1
107.5°	0.1	0.1	0.1	0.1	0.1	0.1
108°	0.1	0.1	0.1	0.1	0.1	0.1
108.5°	0.1	0.1	0.1	0.1	0.1	0.1
109°	0.1	0.1	0.1	0.1	0.1	0.1
109.5°	0.1	0.1	0.1	0.1	0.1	0.1
110°	0.1	0.1	0.1	0.1	0.1	0.1
110.5°	0.1	0.1	0.1	0.1	0.1	0.1
111°	0.1	0.1	0.1	0.1	0.1	0.1
111.5°	0.1	0.1	0.1	0.1	0.1	0.1
112°	0.1	0.1	0.1	0.1	0.1	0.1

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.1	0.1	0.1	0.1	0.1	0.1
113°	0.1	0.1	0.1	0.1	0.1	0.1
113.5°	0.1	0.1	0.1	0.1	0.1	0.1
114°	0.1	0.1	0.1	0.1	0.1	0.1
114.5°	0.1	0.1	0.1	0.2	0.1	0.1
115°	0.1	0.1	0.1	0.2	0.1	0.1
115.5°	0.1	0.1	0.1	0.2	0.1	0.1
116°	0.1	0.1	0.1	0.2	0.1	0.1
116.5°	0.1	0.1	0.1	0.2	0.1	0.1
117°	0.1	0.1	0.1	0.2	0.1	0.1
117.5°	0.1	0.1	0.1	0.2	0.1	0.1
118°	0.1	0.1	0.1	0.2	0.1	0.1
118.5°	0.1	0.1	0.1	0.2	0.1	0.1
119°	0.1	0.1	0.1	0.2	0.1	0.1
119.5°	0.1	0.2	0.1	0.2	0.1	0.1
120°	0.1	0.2	0.1	0.2	0.1	0.1
120.5°	0.1	0.2	0.2	0.2	0.1	0.1
121°	0.1	0.2	0.2	0.2	0.2	0.1
121.5°	0.1	0.2	0.2	0.2	0.2	0.1
122°	0.1	0.2	0.2	0.2	0.2	0.1
122.5°	0.2	0.2	0.2	0.2	0.2	0.2
123°	0.2	0.2	0.2	0.2	0.2	0.2
123.5°	0.2	0.2	0.2	0.2	0.2	0.2
124°	0.2	0.2	0.2	0.2	0.2	0.2
124.5°	0.2	0.2	0.2	0.2	0.2	0.2
125°	0.2	0.2	0.2	0.2	0.2	0.2
125.5°	0.2	0.2	0.2	0.2	0.2	0.2
126°	0.2	0.2	0.2	0.2	0.2	0.2
126.5°	0.2	0.2	0.2	0.2	0.2	0.2
127°	0.2	0.2	0.2	0.2	0.2	0.2
127.5°	0.2	0.2	0.2	0.2	0.2	0.2
128°	0.2	0.2	0.2	0.2	0.2	0.2
128.5°	0.2	0.2	0.2	0.2	0.2	0.2
129°	0.2	0.2	0.2	0.2	0.2	0.2
129.5°	0.2	0.2	0.2	0.2	0.2	0.2
130°	0.2	0.2	0.2	0.2	0.2	0.2
130.5°	0.2	0.2	0.2	0.2	0.2	0.2
131°	0.2	0.2	0.2	0.2	0.2	0.2
131.5°	0.2	0.2	0.2	0.2	0.2	0.2
132°	0.2	0.2	0.2	0.2	0.2	0.2
132.5°	0.2	0.2	0.2	0.2	0.2	0.2
133°	0.2	0.2	0.2	0.2	0.2	0.2
133.5°	0.2	0.2	0.2	0.2	0.2	0.2
134°	0.2	0.2	0.2	0.2	0.2	0.2
134.5°	0.2	0.2	0.2	0.2	0.2	0.2

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.2	0.2	0.2	0.2	0.2	0.2
135.5°	0.2	0.2	0.2	0.2	0.2	0.2
136°	0.2	0.2	0.2	0.2	0.2	0.2
136.5°	0.2	0.2	0.2	0.2	0.2	0.2
137°	0.2	0.2	0.2	0.2	0.2	0.2
137.5°	0.2	0.2	0.2	0.2	0.2	0.2
138°	0.2	0.2	0.2	0.2	0.2	0.2
138.5°	0.2	0.2	0.2	0.2	0.2	0.2
139°	0.2	0.2	0.2	0.2	0.2	0.2
139.5°	0.3	0.2	0.2	0.2	0.2	0.2
140°	0.3	0.2	0.2	0.2	0.2	0.2
140.5°	0.3	0.2	0.2	0.2	0.2	0.2
141°	0.3	0.2	0.2	0.2	0.2	0.2
141.5°	0.3	0.2	0.2	0.2	0.2	0.2
142°	0.3	0.2	0.2	0.2	0.2	0.2
142.5°	0.3	0.2	0.2	0.2	0.2	0.2
143°	0.3	0.2	0.2	0.2	0.2	0.2
143.5°	0.3	0.2	0.2	0.2	0.2	0.2
144°	0.3	0.2	0.2	0.2	0.2	0.2
144.5°	0.3	0.2	0.3	0.2	0.2	0.2
145°	0.3	0.2	0.3	0.2	0.2	0.2
145.5°	0.3	0.2	0.3	0.2	0.2	0.2
146°	0.3	0.2	0.3	0.2	0.2	0.2
146.5°	0.3	0.2	0.3	0.2	0.2	0.2
147°	0.3	0.2	0.3	0.2	0.2	0.2
147.5°	0.3	0.2	0.3	0.2	0.2	0.2
148°	0.3	0.2	0.3	0.2	0.2	0.2
148.5°	0.3	0.2	0.3	0.2	0.2	0.2
149°	0.3	0.2	0.3	0.2	0.2	0.2
149.5°	0.3	0.2	0.3	0.2	0.2	0.2
150°	0.3	0.2	0.3	0.2	0.2	0.2
150.5°	0.3	0.2	0.3	0.2	0.2	0.2
151°	0.3	0.3	0.3	0.2	0.3	0.2
151.5°	0.3	0.3	0.3	0.2	0.3	0.2
152°	0.3	0.3	0.3	0.3	0.3	0.2
152.5°	0.3	0.3	0.3	0.3	0.3	0.2
153°	0.3	0.3	0.3	0.3	0.3	0.2
153.5°	0.3	0.3	0.3	0.3	0.3	0.2
154°	0.3	0.3	0.3	0.3	0.3	0.2
154.5°	0.3	0.3	0.3	0.3	0.3	0.2
155°	0.3	0.3	0.3	0.3	0.3	0.2
155.5°	0.3	0.3	0.3	0.3	0.3	0.2
156°	0.3	0.3	0.3	0.3	0.3	0.2
156.5°	0.3	0.3	0.3	0.3	0.3	0.2
157°	0.3	0.3	0.3	0.3	0.3	0.2

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.3	0.3	0.3	0.3	0.3	0.2
158°	0.3	0.3	0.3	0.3	0.3	0.2
158.5°	0.3	0.3	0.3	0.3	0.3	0.2
159°	0.3	0.3	0.3	0.3	0.3	0.2
159.5°	0.3	0.3	0.3	0.3	0.3	0.2
160°	0.3	0.3	0.3	0.3	0.3	0.3
160.5°	0.4	0.3	0.3	0.3	0.3	0.3
161°	0.4	0.3	0.3	0.3	0.3	0.3
161.5°	0.4	0.3	0.3	0.3	0.3	0.3
162°	0.4	0.3	0.3	0.3	0.3	0.3
162.5°	0.4	0.3	0.3	0.3	0.3	0.3
163°	0.4	0.3	0.4	0.3	0.3	0.3
163.5°	0.4	0.3	0.4	0.3	0.3	0.3
164°	0.4	0.3	0.4	0.3	0.3	0.3
164.5°	0.4	0.3	0.4	0.3	0.3	0.3
165°	0.4	0.3	0.4	0.3	0.3	0.3
165.5°	0.4	0.3	0.4	0.3	0.3	0.3
166°	0.4	0.3	0.4	0.4	0.3	0.3
166.5°	0.4	0.3	0.4	0.4	0.3	0.3
167°	0.4	0.3	0.4	0.4	0.3	0.3
167.5°	0.4	0.3	0.4	0.4	0.3	0.3
168°	0.4	0.3	0.4	0.4	0.3	0.3
168.5°	0.4	0.3	0.4	0.4	0.3	0.3
169°	0.4	0.3	0.4	0.4	0.3	0.3
169.5°	0.4	0.3	0.4	0.4	0.3	0.3
170°	0.4	0.3	0.4	0.4	0.3	0.3
170.5°	0.4	0.3	0.4	0.4	0.3	0.3
171°	0.4	0.3	0.4	0.4	0.3	0.3
171.5°	0.4	0.3	0.4	0.4	0.3	0.3
172°	0.4	0.3	0.4	0.4	0.3	0.3
172.5°	0.4	0.3	0.4	0.4	0.3	0.3
173°	0.3	0.3	0.4	0.3	0.3	0.3
173.5°	0.3	0.3	0.4	0.3	0.3	0.3
174°	0.3	0.4	0.3	0.3	0.3	0.3
174.5°	0.4	0.3	0.3	0.3	0.3	0.3
175°	0.4	0.3	0.3	0.3	0.3	0.3
175.5°	0.4	0.3	0.3	0.3	0.3	0.3
176°	0.3	0.3	0.3	0.3	0.3	0.3
176.5°	0.3	0.3	0.3	0.3	0.3	0.3
177°	0.3	0.3	0.3	0.3	0.3	0.3
177.5°	0.3	0.3	0.3	0.3	0.3	0.3
178°	0.3	0.3	0.3	0.3	0.3	0.3
178.5°	0.3	0.3	0.3	0.3	0.3	0.3
179°	0.3	0.3	0.3	0.3	0.3	0.3
179.5°	0.3	0.3	0.3	0.3	0.3	0.3

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.3	0.3	0.3	0.3	0.3	0.3

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TEST NUMBER: P1596616
CATALOG NUMBER: HLB3LSFS5-HI-4000K

CIE UGR TABLE:

Reflectances:											
	Ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
	Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
	Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	28.34	29.98	28.71	30.29	30.61	28.16	29.80	28.53	30.11	30.43
	3H	30.19	31.67	30.57	32.00	32.36	29.96	31.44	30.34	31.77	32.13
	4H	30.91	32.30	31.31	32.65	33.03	30.65	32.04	31.05	32.39	32.77
	6H	31.47	32.76	31.88	33.13	33.52	31.18	32.47	31.59	32.84	33.23
	8H	31.67	32.90	32.09	33.29	33.69	31.36	32.59	31.79	32.98	33.39
	12H	31.77	32.95	32.20	33.34	33.77	31.44	32.63	31.87	33.01	33.44
4H	2H	28.98	30.37	29.38	30.72	31.10	28.80	30.19	29.20	30.54	30.92
	3H	31.05	32.22	31.46	32.62	33.02	30.82	31.99	31.23	32.39	32.79
	4H	31.91	32.96	32.34	33.38	33.82	31.63	32.69	32.07	33.11	33.55
	6H	32.61	33.53	33.06	33.98	34.43	32.30	33.22	32.75	33.66	34.12
	8H	32.86	33.73	33.32	34.17	34.64	32.53	33.39	32.99	33.84	34.30
	12H	33.03	33.81	33.51	34.29	34.76	32.67	33.45	33.15	33.93	34.40
8H	4H	32.23	33.10	32.70	33.55	34.01	31.96	32.83	32.42	33.27	33.74
	6H	33.07	33.79	33.57	34.28	34.76	32.75	33.47	33.24	33.96	34.44
	8H	33.41	34.06	33.92	34.57	35.06	33.06	33.71	33.57	34.21	34.70
	12H	33.68	34.25	34.19	34.75	35.31	33.28	33.86	33.79	34.35	34.91
12H	4H	32.27	33.06	32.76	33.53	34.00	32.00	32.78	32.48	33.26	33.73
	6H	33.14	33.79	33.65	34.30	34.79	32.82	33.47	33.33	33.97	34.46
	8H	33.55	34.12	34.05	34.61	35.17	33.18	33.76	33.69	34.25	34.81

END OF REPORT