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: P1596614

Luminaire Tested: HLB3LSFS5-HI-3000K

Issue Date: 10/7/2026

Report Generated By 670265710 / DESKTOP-98SHLC4

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1596614
	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-3000K
Description:	HLB3 3" ROUND SLIM LOW GLARE CANLESS LED DOWNLIGHT
Light Source:	3000K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

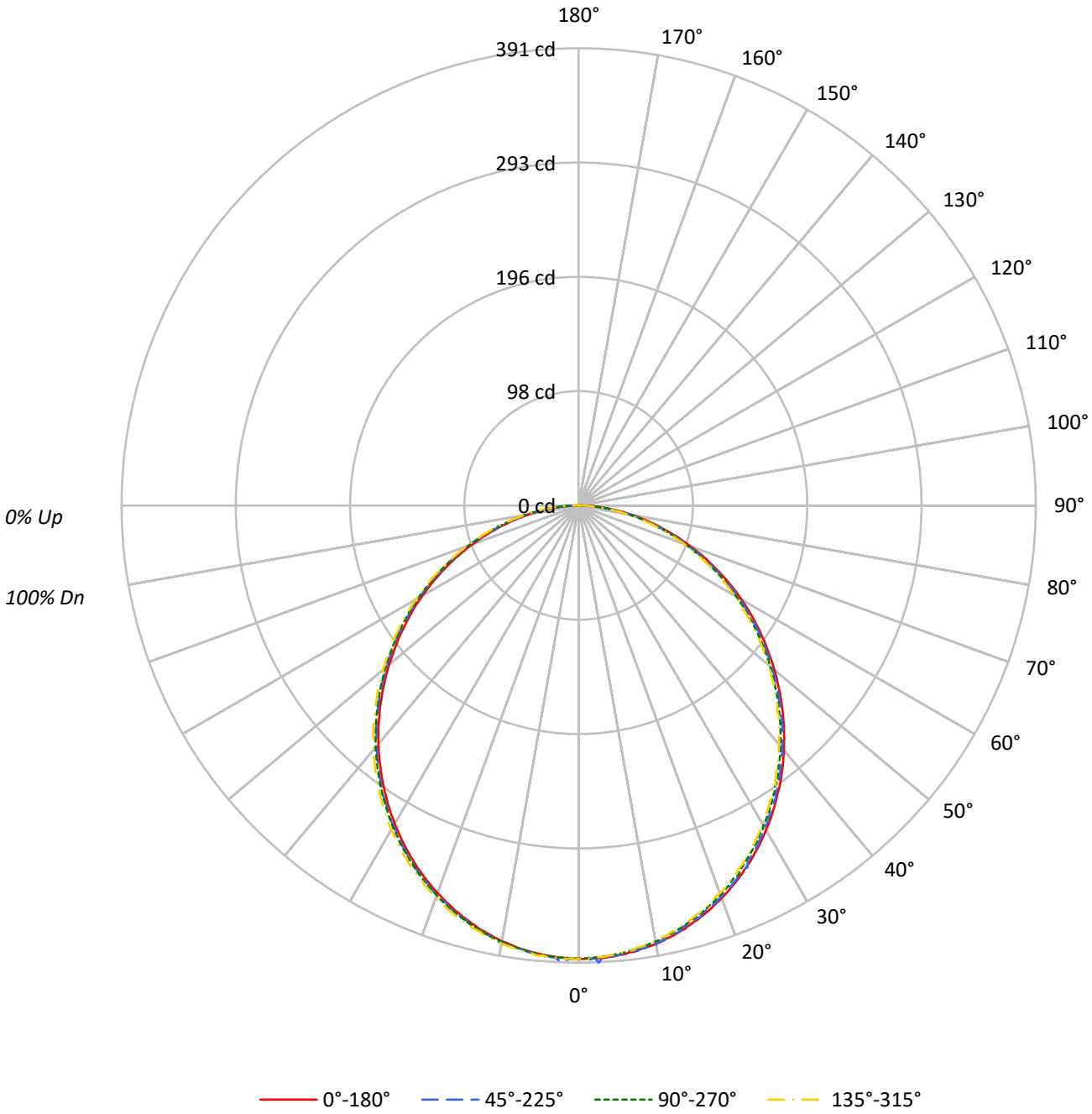
Lumens per Lamp:	N/A
Luminaire Lumens:	1060.0 lumens
Efficiency:	N/A
Efficacy:	102.9 lumens/watt
Spacing Criteria (0/90/45):	1.22 / 1.22 / 1.34
Luminous Opening:	Rectangular (W 0.18' x L: 0.18' x H: 0')
CIE Type:	Direct
Input Watts (W):	10.3
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (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°	123039	123039	123039	123039
5°	123031	122617	122649	122777
10°	122714	122037	121973	122102
15°	121893	121006	120611	121236
20°	120703	119588	119115	119825
25°	119231	117970	117340	118181
30°	117485	115799	115286	116349
35°	115413	113514	112933	114212
40°	113181	111234	110364	111938
45°	110587	108478	107490	109285
50°	107828	105459	104422	106446
55°	105015	102415	101308	103577
60°	102125	98888	97936	100412
65°	98447	94843	94017	96945
70°	94181	90376	89170	92696
75°	89388	85096	83502	88652
80°	84252	78769	76759	83886
85°	79380	69184	67727	79015

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 315°
Vertical Angle: 89.5°
Luminance: 152741 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	3.5
10°-20°	104.1	9.8
20°-30°	155.6	14.7
30°-40°	184.3	17.4
40°-50°	187.4	17.7
50°-60°	166.7	15.7
60°-70°	126.7	12.0
70°-80°	74.8	7.1
80°-90°	22.8	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°	0.1	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	296.3	27.9
0°-40°	480.6	45.3
0°-60°	834.6	78.7
0°-90°	1058.9	99.9
90°-120°	0.4	0.0
90°-150°	0.8	0.1
90°-180°	1.0	0.1
0°-180°	1060.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	388	388	388	388	388	
5°	386	385	385	385	386	37
15°	371	368	367	369	371	105
25°	340	337	335	338	340	157
35°	298	293	292	295	298	186
45°	246	242	240	244	246	190
55°	190	185	183	187	190	170
65°	131	126	125	129	131	130
75°	73	69	68	72	73	77
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°	387.7	387.7	*387.7*	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7
0.5°	387.9	386.3	*387.9*	388.5	387.2	387.7	388.4	388.2	387.4	388.3	388.2
1°	387.7	390.7	*387.9*	388.7	387.2	387.4	387.5	387.4	387.5	386.9	387.7
1.5°	387.7	386.7	*388.4*	387.7	387.0	387.6	387.4	387.4	387.4	387.8	389.0
2°	387.8	388.3	*386.7*	387.9	387.1	387.1	387.3	387.1	387.1	387.4	386.5
2.5°	*387.5*	*387.4*	*391.4*	*387.9*	*386.7*	*387.0*	*386.7*	*387.1*	*387.0*	*386.7*	*389.5*
3°	387.8	387.7	*387.5*	387.7	386.3	386.5	386.8	386.6	386.6	388.8	387.1
3.5°	387.2	386.6	*386.8*	387.8	386.4	386.3	386.3	386.2	386.2	385.8	387.0
4°	386.9	387.4	*386.9*	387.2	385.8	385.8	385.7	385.9	385.9	385.7	386.3
4.5°	386.8	387.3	*386.1*	386.0	385.5	385.5	385.7	385.4	385.5	386.0	385.7
5°	386.2	385.7	*386.1*	386.5	384.9	384.8	384.8	385.0	385.0	385.5	385.9
5.5°	385.9	386.3	*385.4*	385.4	384.6	384.7	384.3	384.3	384.4	384.5	384.9
6°	385.6	386.4	*385.1*	384.9	384.2	384.0	383.3	384.4	384.0	384.3	384.8
6.5°	384.7	381.2	*385.1*	384.7	383.4	383.5	383.5	383.1	383.5	384.0	384.4
7°	384.6	385.3	*383.6*	384.2	383.0	383.0	383.2	382.7	382.7	383.3	382.7
7.5°	384.2	385.6	*383.9*	384.1	382.3	382.2	381.2	382.1	382.2	382.2	382.6
8°	383.1	382.4	*382.9*	382.5	381.8	381.6	381.3	381.3	381.4	382.2	382.9
8.5°	382.7	383.2	*382.4*	382.1	381.0	380.8	380.6	380.4	380.6	381.1	381.2
9°	382.1	382.0	*382.3*	381.4	380.1	379.9	379.8	379.8	379.8	379.7	381.0
9.5°	381.4	381.3	*380.1*	380.2	379.5	379.2	379.3	378.6	378.9	379.9	380.6
10°	380.8	380.4	*381.5*	380.1	378.7	378.5	377.7	378.3	378.5	378.2	378.4
10.5°	380.0	379.6	*378.6*	377.6	377.9	377.4	377.6	377.1	377.2	378.4	379.7
11°	379.0	379.0	*379.6*	379.8	376.9	376.7	375.9	376.0	376.4	376.1	376.0
11.5°	378.0	378.1	*376.8*	376.3	375.8	375.5	376.0	375.0	375.3	374.7	376.5
12°	377.3	377.0	*376.0*	375.6	375.0	374.6	373.9	374.2	374.2	374.9	375.4
12.5°	376.4	376.0	*375.4*	375.7	374.0	373.6	372.8	373.1	373.1	372.6	374.1
13°	375.4	375.3	*374.9*	373.7	373.0	372.4	373.5	372.0	372.3	372.7	373.5
13.5°	374.2	373.8	*374.0*	373.0	371.9	371.4	370.6	370.6	371.0	370.9	372.5
14°	373.5	373.0	*370.9*	372.0	370.6	370.4	369.5	369.8	369.7	371.1	370.5
14.5°	371.9	372.0	*371.6*	370.2	369.7	368.9	369.3	368.4	368.7	369.1	370.2
15°	371.0	370.7	*369.9*	369.9	368.3	367.9	367.3	367.0	367.1	367.6	367.9
15.5°	369.5	369.4	*368.1*	368.0	367.1	366.5	366.1	366.0	366.0	366.9	367.6
16°	368.7	368.3	*367.6*	366.6	365.9	365.1	364.5	364.6	364.6	365.6	365.4
16.5°	367.2	366.7	*366.7*	366.2	364.4	363.6	363.7	363.2	363.2	363.2	365.2
17°	365.9	365.9	*363.9*	364.4	363.2	362.8	361.9	361.7	362.1	363.8	363.1
17.5°	364.6	364.4	*363.0*	362.8	362.0	361.0	360.6	360.5	360.5	360.7	362.1
18°	363.4	362.9	*363.0*	361.7	360.3	359.5	359.3	358.9	358.9	360.5	360.8
18.5°	361.7	362.2	*360.4*	360.1	358.8	358.7	357.7	357.3	357.5	357.5	357.8
19°	360.3	359.9	*359.5*	358.5	357.7	356.7	355.7	355.7	355.9	356.9	357.8
19.5°	359.0	358.3	*358.0*	357.2	355.8	354.9	354.2	354.4	354.2	354.3	356.1
20°	357.4	357.3	*355.7*	355.7	354.1	353.7	353.0	352.7	352.7	355.1	354.0
20.5°	356.0	355.6	*354.9*	353.8	353.0	351.9	351.5	351.1	351.2	352.7	353.3
21°	354.4	353.9	*353.0*	352.1	351.0	350.2	350.0	349.4	349.6	350.3	350.9
21.5°	352.7	352.0	*351.5*	350.7	349.7	348.8	347.9	347.7	347.8	348.2	350.0
22°	351.0	350.9	*349.9*	348.8	347.5	346.8	346.0	346.1	346.1	348.4	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°	349.4	349.0	*348.2*	347.2	345.4	345.2	344.7	344.3	344.4	345.3	346.1
23°	347.8	347.2	*346.9*	345.5	344.9	343.3	343.0	342.3	342.5	342.3	345.1
23.5°	346.0	345.2	*343.8*	343.4	344.0	341.7	340.6	340.7	340.5	342.5	342.1
24°	344.1	343.8	*342.8*	341.6	340.4	339.8	338.6	338.8	339.0	338.7	340.9
24.5°	342.2	340.9	*341.6*	340.0	338.9	338.0	337.6	337.0	336.9	335.6	339.8
25°	340.5	340.8	*341.6*	338.0	336.9	335.9	335.4	334.8	335.1	338.8	336.2
25.5°	338.8	338.8	*335.9*	336.2	334.9	334.2	333.4	333.0	333.3	333.8	335.3
26°	336.9	336.1	*335.0*	334.3	332.8	332.1	331.4	330.9	331.1	331.8	333.2
26.5°	334.9	332.9	*333.9*	332.2	330.9	330.2	329.4	329.2	329.2	330.3	331.1
27°	332.7	334.7	*330.9*	330.2	329.3	328.1	327.1	326.9	327.0	327.7	329.3
27.5°	331.0	329.5	*329.5*	328.3	327.0	326.2	325.5	325.1	325.0	326.2	327.3
28°	328.9	327.8	*327.7*	326.0	325.4	324.0	323.2	322.7	323.1	324.3	324.9
28.5°	326.8	326.1	*324.9*	324.1	322.9	321.8	321.2	321.1	321.0	320.2	323.2
29°	324.8	324.6	*323.5*	322.0	320.4	319.7	319.1	318.7	318.8	320.8	321.2
29.5°	322.8	321.7	*320.6*	319.2	319.6	317.8	316.9	316.6	316.7	317.5	318.5
30°	320.6	320.6	*318.8*	318.3	316.0	315.3	315.0	314.4	314.6	315.5	317.0
30.5°	318.3	318.1	*316.4*	315.0	314.4	313.3	312.5	312.4	312.1	313.1	314.6
31°	316.4	317.0	*315.1*	313.6	312.0	311.2	310.5	309.8	310.0	311.1	312.5
31.5°	314.0	312.2	*311.7*	310.9	310.0	308.8	307.9	307.9	307.9	308.6	310.0
32°	311.8	312.0	*310.2*	308.8	307.6	306.4	305.8	305.6	305.5	306.7	308.2
32.5°	309.6	308.4	*307.8*	307.5	305.0	304.3	303.3	302.7	303.4	303.8	305.5
33°	307.4	306.9	*306.5*	303.2	303.3	301.8	300.8	301.4	300.9	301.6	303.1
33.5°	305.0	304.4	*303.1*	302.2	300.6	299.6	299.5	298.5	298.4	299.6	300.6
34°	302.8	301.8	*301.5*	299.0	298.2	297.3	296.3	296.0	296.2	297.4	299.1
34.5°	300.1	300.0	*297.5*	297.3	296.2	294.8	292.4	293.8	293.8	294.6	296.3
35°	297.9	297.3	*296.4*	294.8	293.0	292.3	294.5	291.3	291.5	292.6	293.8
35.5°	295.8	294.8	*293.1*	292.0	291.5	290.1	289.4	288.7	289.0	289.4	291.4
36°	293.2	292.3	*290.5*	289.9	289.4	287.6	287.2	286.5	286.6	289.3	289.0
36.5°	290.9	290.0	*289.6*	287.4	286.4	285.2	284.1	284.1	284.0	285.2	286.7
37°	288.4	287.4	*286.3*	284.8	283.8	282.6	282.1	281.7	281.5	282.1	283.7
37.5°	286.0	285.1	*283.7*	282.3	281.1	280.3	279.4	278.7	279.1	279.8	281.7
38°	283.5	281.6	*281.5*	279.8	278.9	277.5	277.0	276.6	276.6	278.1	278.6
38.5°	281.0	280.2	*278.6*	277.2	276.1	274.8	274.2	274.0	274.1	275.1	276.8
39°	278.2	278.2	*275.6*	274.9	274.0	272.4	271.7	271.4	271.6	272.4	273.8
39.5°	275.9	274.3	*274.1*	271.9	271.1	270.1	269.2	268.6	268.8	270.4	271.2
40°	273.2	272.9	*270.6*	269.3	268.5	267.3	266.5	266.1	266.4	267.8	269.0
40.5°	270.6	270.5	*268.5*	266.9	265.6	264.7	264.2	263.6	263.8	264.0	266.1
41°	267.9	266.2	*265.4*	264.1	263.4	262.1	261.0	260.7	261.1	262.9	263.8
41.5°	265.5	265.3	*262.9*	261.5	260.6	259.4	258.5	258.3	258.4	259.5	260.9
42°	262.5	261.0	*260.9*	258.6	258.0	256.7	256.3	255.6	255.9	257.0	258.2
42.5°	260.1	259.6	*257.9*	256.3	255.1	254.3	253.2	252.9	253.1	254.1	256.1
43°	257.4	255.6	*255.2*	253.6	252.9	251.3	250.8	250.3	250.5	251.7	253.2
43.5°	254.6	254.1	*252.5*	250.6	249.6	248.5	248.9	247.4	247.6	248.8	250.1
44°	252.0	250.6	*249.7*	248.0	247.1	245.9	244.7	244.6	245.3	246.0	247.6
44.5°	249.3	248.7	*246.7*	245.1	244.3	243.1	242.6	242.3	242.2	243.6	244.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	246.4	245.8	*244.8*	242.4	241.7	240.4	239.9	238.7	239.5	240.2	242.1
45.5°	243.8	242.7	*241.8*	239.5	239.1	237.6	236.8	236.9	236.6	238.5	239.4
46°	240.9	240.3	*237.8*	236.7	236.1	234.8	234.2	233.8	233.9	235.2	236.9
46.5°	238.1	237.3	*236.6*	234.2	233.3	232.0	231.4	231.0	231.2	232.4	233.8
47°	235.4	234.4	*232.8*	231.1	230.5	229.2	228.5	227.8	228.5	229.6	231.3
47.5°	232.6	231.9	*229.8*	228.5	227.7	226.4	226.2	225.7	225.5	226.6	228.1
48°	229.7	229.1	*227.7*	225.6	224.7	223.6	223.0	222.1	222.6	224.0	225.7
48.5°	226.9	225.9	*224.4*	222.7	222.3	220.7	219.8	219.6	220.0	221.3	222.6
49°	224.1	223.2	*222.2*	220.0	219.3	217.8	218.0	217.0	217.1	218.2	219.7
49.5°	221.3	220.4	*218.5*	217.2	216.5	215.1	214.4	213.6	214.2	215.6	217.0
50°	218.4	217.4	*216.2*	214.3	213.6	212.0	211.4	211.8	211.5	212.5	214.1
50.5°	215.6	214.8	*213.2*	211.5	210.9	209.3	209.0	208.4	208.5	210.2	211.2
51°	212.6	211.8	*210.3*	208.6	208.0	206.5	206.4	205.7	205.7	206.8	208.6
51.5°	209.9	208.9	*207.3*	205.6	205.4	203.7	202.5	202.6	202.8	203.5	205.8
52°	206.9	207.3	*204.3*	203.3	202.2	200.8	201.1	200.7	200.1	202.6	202.9
52.5°	204.1	202.8	*201.8*	201.3	199.6	198.2	197.4	197.1	197.1	198.2	199.7
53°	201.3	200.7	*199.0*	196.0	196.7	195.2	194.6	194.0	194.3	196.1	197.6
53.5°	198.5	197.8	*196.0*	195.0	193.8	192.4	191.6	191.4	191.5	192.7	194.4
54°	195.4	194.9	*193.6*	191.3	190.8	189.5	189.0	188.5	188.7	189.5	191.4
54.5°	192.7	192.3	*190.1*	188.8	187.9	186.7	185.8	185.5	185.9	187.2	188.8
55°	189.8	188.7	*187.4*	186.6	185.1	183.9	183.0	182.6	183.1	183.9	185.9
55.5°	187.1	186.3	*184.6*	182.2	181.9	181.0	180.1	179.7	180.2	181.2	182.8
56°	184.0	183.0	*181.9*	179.9	179.4	178.2	177.1	177.0	177.3	178.6	180.8
56.5°	181.3	180.0	*178.2*	177.5	176.4	175.3	174.2	173.8	174.5	175.3	177.2
57°	178.3	177.1	*176.4*	173.3	173.1	172.3	171.4	171.1	171.7	173.4	174.4
57.5°	175.5	174.1	*172.7*	171.6	170.5	169.5	168.5	168.2	168.7	169.7	171.6
58°	172.5	171.3	*170.0*	168.4	167.4	166.5	165.2	165.5	165.9	166.6	169.2
58.5°	169.7	168.4	*167.6*	165.0	164.7	163.6	162.8	162.0	163.1	164.0	165.4
59°	166.7	165.0	*164.0*	162.7	161.6	160.7	159.6	159.8	160.1	161.2	163.5
59.5°	163.9	162.2	*161.4*	159.6	158.7	157.8	156.8	156.9	157.2	158.2	159.6
60°	160.9	159.5	*159.4*	156.3	155.8	154.8	153.8	153.6	154.3	154.9	157.9
60.5°	157.8	156.4	*154.6*	153.7	152.9	151.9	151.0	150.4	151.3	152.7	154.5
61°	154.9	153.6	*152.7*	150.6	150.0	148.9	148.1	148.0	148.4	149.5	151.2
61.5°	152.0	151.0	*149.3*	147.4	147.0	145.9	145.1	145.1	145.5	146.5	148.7
62°	149.0	147.2	*146.5*	144.8	144.0	143.0	142.2	141.9	142.6	143.6	145.6
62.5°	146.0	144.6	*143.5*	141.9	141.1	140.2	139.3	139.1	139.7	140.8	143.1
63°	143.0	141.8	*140.5*	138.4	138.0	137.1	136.3	136.5	136.7	137.9	139.6
63.5°	140.1	138.6	*137.5*	135.4	135.1	134.1	133.2	133.1	133.9	135.0	136.9
64°	137.0	136.1	*134.5*	132.9	132.2	131.1	130.4	130.6	131.0	132.1	133.7
64.5°	134.1	132.7	*131.5*	129.8	129.2	128.2	127.6	127.1	128.0	129.3	131.0
65°	131.1	130.0	*128.5*	126.5	126.3	125.2	124.5	124.4	125.2	126.2	128.0
65.5°	128.1	127.5	*125.6*	123.8	123.3	122.3	121.5	121.7	122.2	123.5	124.8
66°	125.2	123.9	*122.5*	120.8	120.4	119.5	118.8	118.5	119.2	120.7	122.1
66.5°	122.2	121.4	*119.6*	118.2	117.5	116.3	115.3	115.5	116.3	117.2	119.0
67°	119.2	118.0	*116.6*	114.6	114.4	113.6	112.8	113.2	113.4	114.8	116.4

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

Scaled Data Report

TEST NUMBER: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	116.2	115.5	*113.7*	112.2	112.0	110.6	109.9	109.6	110.5	112.0	112.7
68°	113.3	112.0	*110.6*	109.2	108.7	107.6	106.9	106.7	107.7	108.4	111.6
68.5°	110.4	109.7	*107.7*	106.0	106.0	104.7	104.1	104.1	104.8	106.4	107.4
69°	107.4	106.5	*104.8*	103.1	103.2	101.8	101.2	101.2	101.9	103.1	104.6
69.5°	104.4	103.5	*101.8*	100.3	100.3	98.9	98.4	98.4	99.0	100.3	102.2
70°	101.5	100.6	*98.8*	97.6	97.4	96.1	95.6	95.5	96.1	97.4	99.7
70.5°	98.6	97.8	*96.2*	94.5	94.5	93.2	92.7	92.7	93.2	94.5	97.3
71°	95.7	94.9	*93.1*	91.8	91.6	90.3	89.9	89.8	90.4	91.7	94.9
71.5°	92.8	92.3	*90.2*	88.8	88.9	87.3	87.0	87.0	87.5	89.1	88.8
72°	89.9	89.1	*87.4*	86.2	86.1	84.5	84.3	84.2	84.7	86.1	88.2
72.5°	87.0	86.4	*84.5*	83.1	83.1	81.7	81.4	81.4	82.0	83.4	84.8
73°	84.2	83.4	*81.7*	80.5	80.9	78.9	78.6	78.6	79.1	80.6	81.5
73.5°	81.3	80.6	*78.8*	77.7	77.4	76.0	75.8	76.0	76.3	77.8	79.0
74°	78.5	77.9	*76.1*	74.8	74.6	73.2	73.1	73.2	73.6	75.2	76.7
74.5°	75.7	75.1	*73.3*	72.1	72.1	70.5	70.3	70.5	70.9	72.3	73.1
75°	72.9	72.5	*70.6*	69.6	69.4	67.7	67.6	67.8	68.1	69.8	70.9
75.5°	70.1	69.2	*67.9*	66.5	67.1	65.0	64.9	65.0	65.4	66.8	67.9
76°	67.4	66.9	*65.1*	63.9	63.7	62.3	62.3	62.4	62.7	64.3	65.6
76.5°	64.5	64.1	*62.4*	61.2	61.2	59.6	59.7	60.1	60.0	61.6	62.9
77°	61.9	61.2	*59.8*	58.8	58.7	56.9	57.0	56.2	57.4	59.0	59.6
77.5°	59.2	58.7	*57.1*	55.8	56.0	54.3	54.2	55.7	54.8	56.4	58.1
78°	56.5	56.0	*54.6*	53.4	53.4	51.8	51.8	52.0	52.2	53.8	54.7
78.5°	53.9	53.3	*51.9*	50.8	50.8	49.2	49.1	48.9	49.6	51.1	52.2
79°	51.3	50.5	*49.3*	48.1	48.1	46.7	46.5	46.5	47.1	48.6	50.0
79.5°	48.7	48.4	*46.7*	45.7	45.6	44.2	44.0	44.7	44.6	45.9	47.2
80°	46.1	45.3	*44.1*	42.5	43.1	41.6	41.5	40.9	42.0	43.7	44.7
80.5°	43.6	42.6	*41.7*	40.2	40.6	39.2	39.0	39.1	39.6	40.9	42.2
81°	41.2	40.2	*39.2*	37.9	38.0	36.8	36.6	37.1	37.1	38.6	39.8
81.5°	38.7	37.8	*36.7*	35.5	35.5	34.4	34.2	33.9	34.7	36.1	37.3
82°	36.2	35.4	*34.3*	33.2	33.2	32.0	31.8	31.9	32.3	33.6	34.9
82.5°	33.7	33.0	*31.8*	30.7	30.8	29.6	29.3	29.5	29.9	31.3	32.5
83°	31.2	30.6	*29.3*	28.3	28.3	27.3	27.1	26.9	27.6	29.0	30.1
83.5°	28.8	28.0	*27.0*	26.1	25.9	25.0	24.9	25.0	25.3	26.6	27.8
84°	26.5	25.8	*24.7*	23.5	23.6	22.7	22.5	22.4	23.0	24.3	25.5
84.5°	24.1	23.5	*22.3*	21.2	21.3	20.5	20.3	20.3	20.8	22.0	23.2
85°	21.8	21.1	*20.1*	19.0	19.0	18.2	18.0	18.1	18.6	19.8	20.9
85.5°	19.5	18.7	*17.8*	16.7	16.7	16.0	15.9	15.9	16.4	17.5	18.9
86°	17.3	16.6	*15.6*	14.6	14.6	13.9	13.8	13.9	14.3	15.4	16.6
86.5°	15.1	14.4	*13.5*	12.5	12.4	11.7	11.7	11.8	12.2	13.3	14.4
87°	13.0	12.3	*11.5*	10.5	10.2	9.6	9.6	9.7	10.2	11.2	12.2
87.5°	11.0	10.3	*9.5*	8.3	8.0	7.5	7.5	7.6	8.1	9.1	10.1
88°	9.0	8.2	*7.3*	6.0	5.8	5.3	5.3	5.5	6.0	7.0	8.0
88.5°	7.0	6.0	*4.7*	3.4	3.6	3.2	3.2	3.4	4.0	4.9	5.9
89°	4.6	3.6	*3.6*	2.6	1.5	1.4	1.5	1.8	2.2	2.9	3.8
89.5°	3.5	2.7	*2.4*	1.7	0.4	0.4	0.6	0.9	1.2	1.6	2.0

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	2.4	1.8	1.2	0.9	0.1	0.1	0.1	0.2	0.5	0.8	1.0
90.5°	1.2	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: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
122°	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
122.5°	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
123°	0.2	0.1	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	0.1	0.2
124°	0.2	0.2	0.2	0.2	0.1	0.1	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	0.1	0.2	0.2
125.5°	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2
126°	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	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: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

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	0.2
140°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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	0.2	0.3
141.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
142°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
142.5°	0.2	0.2	0.2	0.2	0.2	0.2	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	0.2	0.2	0.2	0.3	0.3
144.5°	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3
145°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3
145.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	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	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155.5°	0.2	0.2	0.2	0.2	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: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

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°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161°	0.2	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	0.3
165°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3
165.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3
166°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3
166.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3
167°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3
167.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3
168°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3
168.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3
169°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3
169.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3
170°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
170.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
171°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
171.5°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
172°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
172.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
173°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
173.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
174°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3
174.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3
175°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3
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: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

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: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	387.7	387.7	387.7	387.7	387.7	387.7
0.5°	388.1	387.2	387.7	388.5	388.0	387.9
1°	389.8	387.3	387.5	387.2	387.8	387.7
1.5°	386.3	387.0	387.5	388.1	387.8	387.7
2°	388.6	387.0	387.3	387.5	387.7	387.8
2.5°	*386.0*	*386.8*	*387.4*	*387.1*	*387.6*	*387.5*
3°	389.2	386.4	386.9	387.3	387.2	387.8
3.5°	386.9	386.3	386.9	387.0	387.5	387.2
4°	387.2	386.1	386.4	387.3	386.8	386.9
4.5°	387.1	385.6	386.4	386.2	386.9	386.8
5°	386.2	385.4	385.7	386.3	386.2	386.2
5.5°	385.8	384.8	385.6	386.3	386.1	385.9
6°	385.2	384.5	384.7	385.0	385.5	385.6
6.5°	385.6	383.8	384.5	385.0	385.0	384.7
7°	383.6	383.3	384.0	384.0	384.7	384.6
7.5°	384.9	382.5	383.2	383.9	383.7	384.2
8°	382.2	382.0	382.5	383.2	383.4	383.1
8.5°	383.2	381.3	382.1	382.4	382.9	382.7
9°	380.9	380.5	381.3	381.6	381.8	382.1
9.5°	381.0	379.8	380.5	381.2	381.1	381.4
10°	380.9	378.9	379.6	380.3	380.6	380.8
10.5°	378.1	378.2	379.0	379.3	379.9	380.0
11°	378.4	377.3	378.2	378.3	379.3	379.0
11.5°	376.9	376.3	377.1	378.1	377.3	378.0
12°	376.3	375.4	376.1	376.8	377.4	377.3
12.5°	375.4	374.4	375.3	375.8	375.9	376.4
13°	374.0	373.2	374.3	374.4	375.8	375.4
13.5°	373.2	372.1	373.4	373.4	373.7	374.2
14°	372.0	370.9	372.1	372.8	373.2	373.5
14.5°	370.9	369.8	370.9	371.6	372.2	371.9
15°	369.4	369.0	369.8	370.8	375.8	371.0
15.5°	368.6	367.6	368.5	369.0	367.9	369.5
16°	367.1	366.3	367.2	368.1	368.7	368.7
16.5°	365.7	365.0	366.2	366.7	367.4	367.2
17°	364.6	363.6	364.8	365.6	365.5	365.9
17.5°	363.2	362.0	363.5	364.2	364.5	364.6
18°	361.7	361.3	361.8	362.8	363.5	363.4
18.5°	360.3	359.2	360.6	361.2	362.8	361.7
19°	358.9	357.9	359.1	359.3	360.1	360.3
19.5°	357.2	356.5	357.7	358.8	358.6	359.0
20°	355.7	354.8	356.2	356.8	357.5	357.4
20.5°	354.0	353.1	354.6	355.4	355.2	356.0
21°	352.3	351.6	353.0	353.8	354.2	354.4
21.5°	350.9	349.9	351.5	352.2	352.1	352.7
22°	349.1	348.4	349.8	350.6	351.8	351.0

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	347.5	346.5	348.0	348.5	352.6	349.4
23°	345.7	345.0	346.2	347.6	344.7	347.8
23.5°	343.8	343.3	344.7	345.4	346.9	346.0
24°	342.1	341.5	342.6	343.7	344.8	344.1
24.5°	340.1	339.3	341.0	342.0	341.7	342.2
25°	338.7	337.5	339.0	340.1	340.9	340.5
25.5°	336.4	335.9	337.2	338.5	339.8	338.8
26°	334.7	333.8	335.2	335.8	335.8	336.9
26.5°	332.6	331.8	333.3	334.7	336.6	334.9
27°	330.6	330.0	331.4	332.5	334.0	332.7
27.5°	328.7	327.9	329.4	330.3	330.1	331.0
28°	326.7	326.0	327.5	328.4	328.2	328.9
28.5°	324.4	323.7	325.3	326.3	326.2	326.8
29°	322.5	321.7	323.1	324.3	324.7	324.8
29.5°	320.1	319.6	321.2	322.1	323.0	322.8
30°	318.3	317.5	319.1	320.2	320.2	320.6
30.5°	315.9	315.4	316.9	317.9	318.4	318.3
31°	313.8	313.1	314.6	315.8	316.2	316.4
31.5°	311.6	311.0	312.6	314.0	314.5	314.0
32°	309.4	308.6	310.1	311.2	319.7	311.8
32.5°	307.0	306.4	308.2	309.3	305.3	309.6
33°	304.8	304.0	305.6	307.3	308.1	307.4
33.5°	302.6	301.9	303.5	304.3	306.1	305.0
34°	300.1	299.6	301.1	302.0	302.1	302.8
34.5°	297.8	297.0	298.9	300.1	300.5	300.1
35°	295.4	294.8	296.4	297.5	298.7	297.9
35.5°	292.9	292.6	294.0	294.9	294.9	295.8
36°	290.8	289.9	291.7	292.8	294.0	293.2
36.5°	288.1	287.6	289.3	290.1	290.7	290.9
37°	285.7	285.1	286.7	287.8	288.8	288.4
37.5°	283.4	282.8	284.4	285.3	284.9	286.0
38°	280.8	280.0	281.7	282.8	283.7	283.5
38.5°	278.2	277.7	279.4	280.5	280.7	281.0
39°	275.7	275.1	277.0	277.8	278.3	278.2
39.5°	273.2	272.7	274.2	275.4	276.1	275.9
40°	270.7	270.2	271.5	272.8	273.0	273.2
40.5°	268.1	267.3	269.1	270.2	271.4	270.6
41°	265.4	264.9	266.5	267.4	267.7	267.9
41.5°	262.7	262.1	263.8	264.9	266.2	265.5
42°	260.2	259.5	261.1	262.3	262.5	262.5
42.5°	257.5	257.0	258.5	259.7	260.1	260.1
43°	254.7	254.0	255.9	256.8	257.1	257.4
43.5°	252.0	251.6	253.2	254.5	255.3	254.6
44°	249.4	248.8	250.5	251.5	252.0	252.0
44.5°	246.6	246.0	247.8	249.0	249.1	249.3

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

Scaled Data Report

TEST NUMBER: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	244.2	243.5	245.0	246.0	246.8	246.4
45.5°	241.0	240.6	242.2	243.3	243.9	243.8
46°	238.4	237.9	239.6	240.7	241.1	240.9
46.5°	235.9	234.9	236.7	238.0	238.1	238.1
47°	232.9	232.5	233.9	235.0	236.0	235.4
47.5°	230.0	229.5	231.2	232.3	232.1	232.6
48°	227.3	226.9	228.4	229.4	230.6	229.7
48.5°	224.5	223.8	225.5	226.7	225.5	226.9
49°	221.6	221.1	222.7	223.9	225.5	224.1
49.5°	218.8	218.3	219.9	221.1	221.2	221.3
50°	216.1	215.6	217.0	218.2	218.2	218.4
50.5°	213.2	212.6	214.1	215.5	215.8	215.6
51°	210.2	209.9	211.2	212.6	213.1	212.6
51.5°	207.6	207.1	208.4	209.8	209.8	209.9
52°	204.6	204.2	205.5	206.9	207.6	206.9
52.5°	202.0	201.5	202.8	204.1	204.6	204.1
53°	199.0	198.6	200.0	201.2	201.4	201.3
53.5°	196.4	195.7	197.1	198.3	199.0	198.5
54°	193.2	192.8	194.2	195.5	195.3	195.4
54.5°	190.2	190.0	191.5	192.6	193.3	192.7
55°	188.1	187.2	188.6	189.7	189.8	189.8
55.5°	185.0	184.3	185.9	186.7	187.5	187.1
56°	181.9	181.5	183.1	184.3	184.1	184.0
56.5°	179.2	178.5	180.2	180.8	181.6	181.3
57°	176.2	175.7	177.3	178.1	178.2	178.3
57.5°	173.4	172.8	174.4	175.2	175.6	175.5
58°	170.4	169.9	171.7	172.3	172.4	172.5
58.5°	167.6	166.9	168.9	169.3	169.5	169.7
59°	164.7	164.0	165.7	166.6	166.9	166.7
59.5°	161.8	161.1	162.9	163.5	164.3	163.9
60°	158.9	158.2	160.0	160.6	160.8	160.9
60.5°	156.0	155.2	157.1	157.7	157.8	157.8
61°	153.1	152.3	154.2	154.9	155.2	154.9
61.5°	150.2	149.5	151.2	151.8	152.2	152.0
62°	147.4	146.6	148.3	149.0	149.2	149.0
62.5°	144.4	143.6	145.4	145.9	146.3	146.0
63°	141.4	140.7	142.2	143.0	143.4	143.0
63.5°	138.5	137.9	139.4	140.0	140.3	140.1
64°	135.7	135.0	136.4	137.0	137.3	137.0
64.5°	132.6	131.9	133.4	134.0	134.3	134.1
65°	129.7	129.1	130.5	131.1	131.4	131.1
65.5°	126.8	126.2	127.5	128.1	128.3	128.1
66°	123.8	123.2	124.6	125.1	125.4	125.2
66.5°	120.9	120.3	121.6	122.1	122.4	122.2
67°	117.9	117.3	118.6	119.2	119.6	119.2

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

Scaled Data Report

TEST NUMBER: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	115.0	114.9	115.7	116.2	116.4	116.2
68°	112.1	111.5	112.8	113.3	113.6	113.3
68.5°	109.1	108.7	109.9	110.4	110.7	110.4
69°	106.2	105.9	106.8	107.4	107.8	107.4
69.5°	103.4	103.0	104.0	104.4	104.8	104.4
70°	100.5	99.9	101.1	101.6	101.8	101.5
70.5°	97.6	97.3	98.2	98.6	98.9	98.6
71°	94.7	94.6	95.2	95.9	96.1	95.7
71.5°	91.9	91.4	92.3	93.1	93.2	92.8
72°	89.1	88.9	89.4	90.2	90.3	89.9
72.5°	86.3	86.1	86.7	87.3	87.5	87.0
73°	83.5	83.2	83.8	84.7	84.7	84.2
73.5°	80.7	80.4	81.0	81.8	81.9	81.3
74°	78.1	77.7	78.2	79.1	79.0	78.5
74.5°	75.3	74.9	75.5	76.2	76.2	75.7
75°	72.5	72.3	72.7	73.6	73.5	72.9
75.5°	69.9	69.5	69.9	70.7	70.8	70.1
76°	67.1	66.7	67.1	68.0	67.9	67.4
76.5°	64.4	64.1	64.4	65.3	65.3	64.5
77°	61.9	61.4	61.8	62.5	62.5	61.9
77.5°	59.2	58.8	59.2	59.9	59.8	59.2
78°	56.6	56.2	56.5	57.2	57.2	56.5
78.5°	53.9	53.5	53.9	54.5	54.5	53.9
79°	51.3	50.9	51.3	51.9	51.9	51.3
79.5°	48.8	48.3	48.7	49.3	49.2	48.7
80°	46.2	45.9	46.1	46.6	46.6	46.1
80.5°	43.7	43.4	43.8	44.2	44.0	43.6
81°	41.2	41.0	41.3	41.7	41.5	41.2
81.5°	38.7	38.5	38.8	39.2	39.1	38.7
82°	36.2	36.0	36.4	36.7	36.6	36.2
82.5°	33.8	33.5	33.9	34.3	34.1	33.7
83°	31.4	31.1	31.4	31.8	31.7	31.2
83.5°	29.0	28.7	29.1	29.4	29.3	28.8
84°	26.7	26.4	26.7	27.0	27.0	26.5
84.5°	24.4	24.0	24.4	24.7	24.6	24.1
85°	22.1	21.7	22.1	22.4	22.2	21.8
85.5°	19.8	19.4	19.9	20.1	20.0	19.5
86°	17.6	17.2	17.6	17.8	17.8	17.3
86.5°	15.4	14.9	15.5	15.7	15.5	15.1
87°	13.3	12.8	13.3	13.5	13.3	13.0
87.5°	11.2	10.8	11.4	11.5	11.3	11.0
88°	9.0	8.8	9.4	9.5	9.3	9.0
88.5°	6.9	6.7	7.3	7.5	7.3	7.0
89°	4.8	4.4	5.1	5.2	5.0	4.6
89.5°	2.8	3.3	4.1	4.2	4.0	3.5

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

Scaled Data Report

TEST NUMBER: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	1.3	2.3	3.1	3.2	3.0	2.4
90.5°	0.4	1.2	2.1	2.1	2.0	1.2
91°	0.1	0.1	1.1	1.1	1.0	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: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

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	0.1	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	0.1	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	0.1	0.2	0.1	0.1
121°	0.1	0.2	0.2	0.2	0.1	0.1
121.5°	0.1	0.2	0.2	0.2	0.1	0.1
122°	0.1	0.2	0.2	0.2	0.2	0.1
122.5°	0.1	0.2	0.2	0.2	0.2	0.1
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: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

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°	0.2	0.2	0.2	0.2	0.2	0.2
140°	0.2	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	0.2	0.2	0.2	0.2
145°	0.3	0.2	0.2	0.2	0.2	0.2
145.5°	0.3	0.2	0.2	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	0.2	0.3	0.2	0.2	0.2
151.5°	0.3	0.2	0.3	0.2	0.2	0.2
152°	0.3	0.2	0.3	0.2	0.2	0.2
152.5°	0.3	0.2	0.3	0.2	0.2	0.2
153°	0.3	0.2	0.3	0.2	0.2	0.2
153.5°	0.3	0.2	0.3	0.3	0.2	0.2
154°	0.3	0.2	0.3	0.3	0.3	0.2
154.5°	0.3	0.2	0.3	0.3	0.3	0.2
155°	0.3	0.2	0.3	0.3	0.3	0.2
155.5°	0.3	0.2	0.3	0.3	0.3	0.2
156°	0.3	0.2	0.3	0.3	0.3	0.2
156.5°	0.3	0.2	0.3	0.3	0.3	0.2
157°	0.3	0.2	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: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.3	0.2	0.3	0.3	0.3	0.2
158°	0.3	0.2	0.3	0.3	0.3	0.2
158.5°	0.3	0.2	0.3	0.3	0.3	0.2
159°	0.3	0.2	0.3	0.3	0.3	0.2
159.5°	0.3	0.2	0.3	0.3	0.3	0.2
160°	0.3	0.3	0.3	0.3	0.3	0.2
160.5°	0.3	0.3	0.3	0.3	0.3	0.2
161°	0.3	0.3	0.3	0.3	0.3	0.2
161.5°	0.3	0.3	0.3	0.3	0.3	0.3
162°	0.3	0.3	0.3	0.3	0.3	0.3
162.5°	0.3	0.3	0.3	0.3	0.3	0.3
163°	0.3	0.3	0.3	0.3	0.3	0.3
163.5°	0.3	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	0.3	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°	0.3	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	0.2
172.5°	0.3	0.3	0.4	0.4	0.3	0.2
173°	0.3	0.3	0.4	0.3	0.2	0.2
173.5°	0.3	0.3	0.4	0.3	0.2	0.2
174°	0.3	0.4	0.3	0.3	0.2	0.2
174.5°	0.3	0.3	0.3	0.3	0.2	0.2
175°	0.4	0.3	0.3	0.3	0.2	0.2
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: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

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: P1596614
CATALOG NUMBER: HLB3LSFS5-HI-3000K

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	28.28	29.91	28.65	30.23	30.55	28.10	29.73	28.47	30.05	30.37
	3H	30.13	31.61	30.51	31.94	32.30	29.90	31.38	30.28	31.70	32.07
	4H	30.84	32.24	31.24	32.59	32.97	30.59	31.98	30.99	32.33	32.71
	6H	31.41	32.70	31.82	33.06	33.46	31.12	32.41	31.53	32.77	33.17
	8H	31.60	32.84	32.03	33.23	33.63	31.30	32.53	31.72	32.92	33.32
	12H	31.70	32.89	32.14	33.27	33.70	31.38	32.56	31.81	32.94	33.38
4H	2H	28.91	30.30	29.31	30.65	31.03	28.73	30.13	29.13	30.47	30.85
	3H	30.99	32.16	31.40	32.56	32.96	30.75	31.92	31.16	32.32	32.72
	4H	31.84	32.90	32.27	33.31	33.75	31.57	32.63	32.00	33.04	33.48
	6H	32.54	33.47	33.00	33.91	34.37	32.23	33.16	32.69	33.60	34.06
	8H	32.80	33.66	33.26	34.11	34.58	32.46	33.33	32.92	33.77	34.24
	12H	32.97	33.75	33.45	34.22	34.70	32.61	33.39	33.09	33.86	34.33
8H	4H	32.17	33.04	32.63	33.48	33.95	31.90	32.77	32.36	33.21	33.68
	6H	33.01	33.73	33.50	34.22	34.70	32.69	33.41	33.18	33.90	34.37
	8H	33.35	34.00	33.86	34.51	34.99	32.99	33.64	33.50	34.15	34.64
	12H	33.61	34.19	34.12	34.68	35.24	33.22	33.79	33.73	34.29	34.85
12H	4H	32.21	32.99	32.69	33.47	33.94	31.94	32.72	32.42	33.20	33.67
	6H	33.08	33.73	33.59	34.23	34.72	32.75	33.40	33.26	33.91	34.40
	8H	33.48	34.06	33.99	34.55	35.11	33.12	33.69	33.63	34.19	34.75

END OF REPORT