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: P1596620

Luminaire Tested: HLB3LSFS5-LO-3500K

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:	P1596620
	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-LO-3500K
Description:	HLB3 3" ROUND SLIM LOW GLARE CANLESS LED DOWNLIGHT
Light Source:	3500K CCT, 90 CRI LEDS
Ballast/Driver:	-

Summary

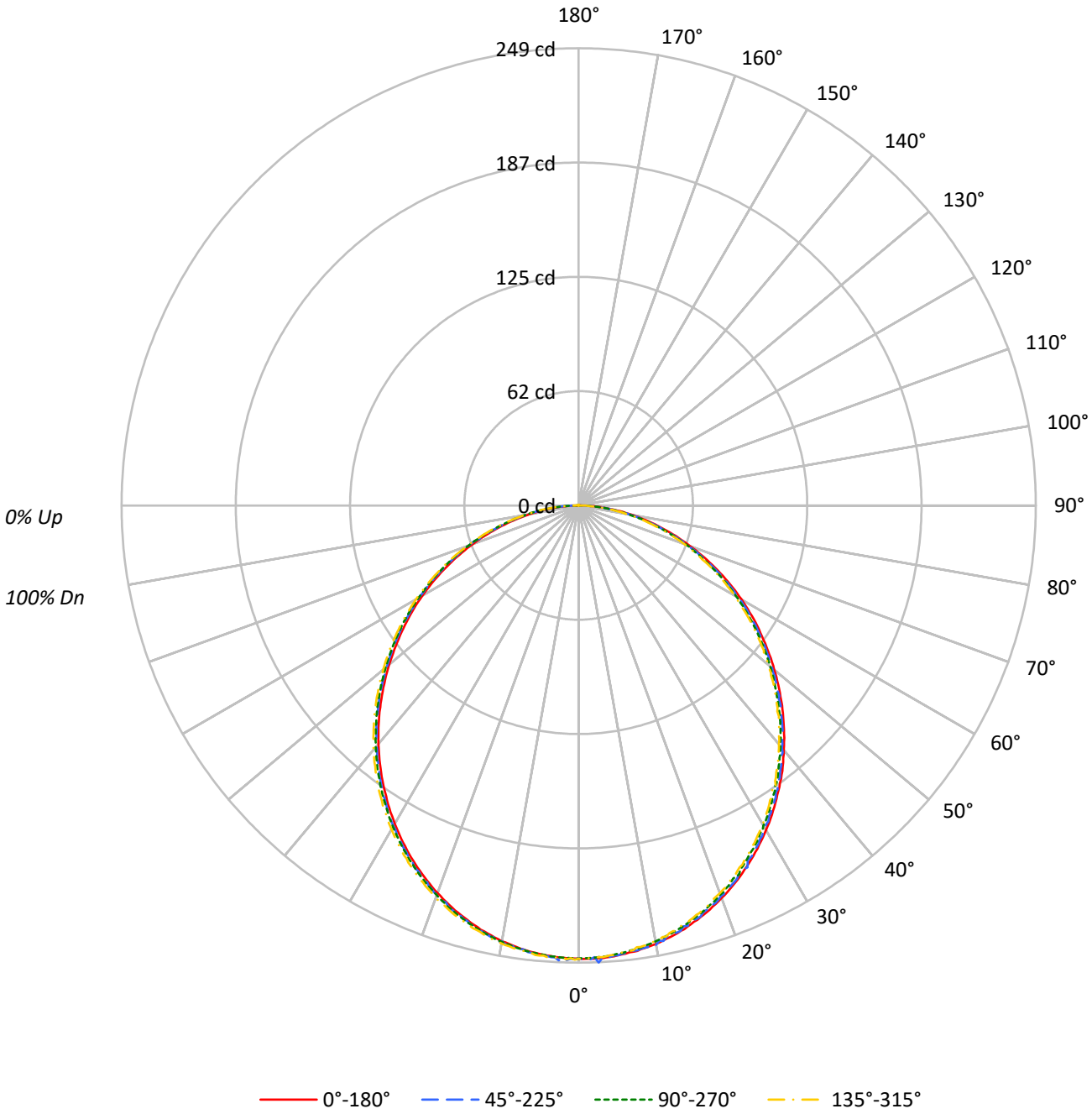
Lumens per Lamp:	N/A
Luminaire Lumens:	675.0 lumens
Efficiency:	N/A
Efficacy:	107.1 lumens/watt
Spacing Criteria (0/90/45):	1.22 / 1.22 / 1.34
Luminous Opening:	Rectangular (W 0.18' x L: 0.18' x H: 0')
CIE Type:	Direct
Input Watts (W):	6.3
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	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°	78355	78355	78355	78355
5°	78336	78081	78113	78177
10°	78146	77695	77663	77760
15°	77604	77045	76815	77210
20°	76866	76157	75853	76292
25°	75916	75110	74725	75250
30°	74830	73767	73400	74097
35°	73494	72293	71905	72758
40°	72043	70842	70303	71256
45°	70418	69072	68444	69611
50°	68627	67146	66504	67788
55°	66893	65178	64514	65953
60°	64995	62964	62329	63979
65°	62703	60375	59849	61726
70°	59942	57529	56787	59014
75°	56894	54197	53216	56404
80°	53548	50076	48979	53366
85°	50614	44059	43331	50249

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 315°
Vertical Angle: 89.5°
Luminance: 98191 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.3	3.5
10°-20°	66.3	9.8
20°-30°	99.1	14.7
30°-40°	117.4	17.4
40°-50°	119.3	17.7
50°-60°	106.1	15.7
60°-70°	80.7	12.0
70°-80°	47.7	7.1
80°-90°	14.5	2.2
90°-100°	0.1	0.0
100°-110°	0.1	0.0
110°-120°	0.1	0.0
120°-130°	0.1	0.0
130°-140°	0.1	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°	188.7	27.9
0°-40°	306.0	45.3
0°-60°	531.5	78.7
0°-90°	674.3	99.9
90°-120°	0.3	0.0
90°-150°	0.6	0.1
90°-180°	1.0	0.1
0°-180°	675.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	247	247	247	247	247	
5°	246	245	245	245	246	23
15°	236	234	234	235	236	67
25°	217	214	213	215	217	100
35°	190	187	186	188	190	119
45°	157	154	152	155	157	121
55°	121	118	117	119	121	108
65°	84	80	80	82	84	83
75°	46	44	43	46	46	49
85°	14	12	12	14	14	15
90°	2	0	0	1	2	1
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°	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9
0.5°	247.0	246.0	247.0	247.4	246.5	246.9	247.3	247.2	246.7	247.2	247.2
1°	246.9	248.8	247.0	247.5	246.6	246.7	246.7	246.7	246.8	246.4	246.9
1.5°	246.9	246.2	247.3	246.9	246.5	246.8	246.7	246.7	246.7	246.9	247.7
2°	247.0	247.3	246.2	247.0	246.5	246.5	246.6	246.5	246.5	246.7	246.1
2.5°	246.8	246.7	249.2	247.0	246.3	246.4	246.2	246.5	246.4	246.3	248.0
3°	246.9	246.9	246.8	246.9	246.0	246.1	246.3	246.2	246.2	247.6	246.5
3.5°	246.6	246.2	246.3	247.0	246.1	246.0	246.0	245.9	245.9	245.7	246.4
4°	246.4	246.7	246.4	246.6	245.7	245.6	245.6	245.7	245.7	245.6	246.0
4.5°	246.3	246.6	245.9	245.8	245.5	245.5	245.6	245.4	245.5	245.8	245.6
5°	245.9	245.6	245.9	246.1	245.1	245.0	245.0	245.2	245.2	245.5	245.8
5.5°	245.7	246.0	245.4	245.4	244.9	245.0	244.7	244.7	244.8	244.9	245.1
6°	245.5	246.1	245.2	245.1	244.6	244.5	244.1	244.8	244.5	244.7	245.0
6.5°	245.0	242.8	245.2	245.0	244.1	244.2	244.2	244.0	244.2	244.5	244.8
7°	244.9	245.3	244.3	244.7	243.9	243.9	244.0	243.7	243.7	244.1	243.7
7.5°	244.7	245.6	244.5	244.6	243.5	243.4	242.7	243.3	243.4	243.4	243.6
8°	244.0	243.5	243.8	243.6	243.1	243.0	242.8	242.8	242.8	243.4	243.8
8.5°	243.7	244.0	243.5	243.3	242.6	242.5	242.4	242.2	242.4	242.7	242.7
9°	243.3	243.3	243.4	242.9	242.1	241.9	241.9	241.9	241.8	241.8	242.6
9.5°	242.9	242.8	242.1	242.1	241.7	241.5	241.5	241.1	241.3	241.9	242.3
10°	242.5	242.3	243.0	242.0	241.1	241.0	240.5	240.9	241.0	240.8	240.9
10.5°	242.0	241.7	241.1	240.5	240.6	240.3	240.5	240.1	240.2	241.0	241.8
11°	241.4	241.3	241.7	241.9	240.0	239.9	239.4	239.5	239.7	239.5	239.4
11.5°	240.7	240.7	239.9	239.6	239.3	239.1	239.5	238.8	239.0	238.6	239.8
12°	240.3	240.1	239.4	239.2	238.8	238.6	238.1	238.3	238.3	238.7	239.1
12.5°	239.7	239.4	239.1	239.3	238.1	237.9	237.4	237.6	237.6	237.3	238.2
13°	239.1	239.0	238.7	238.0	237.5	237.1	237.8	236.9	237.1	237.4	237.8
13.5°	238.3	238.0	238.2	237.5	236.8	236.5	236.0	236.0	236.2	236.2	237.2
14°	237.8	237.5	236.2	236.9	236.0	235.8	235.3	235.5	235.4	236.3	236.0
14.5°	236.8	236.9	236.6	235.7	235.4	234.9	235.1	234.6	234.8	235.0	235.7
15°	236.2	236.1	235.5	235.6	234.5	234.3	233.9	233.7	233.8	234.1	234.3
15.5°	235.3	235.2	234.4	234.3	233.8	233.4	233.1	233.0	233.0	233.6	234.1
16°	234.8	234.5	234.1	233.5	233.0	232.5	232.1	232.2	232.2	232.8	232.7
16.5°	233.8	233.5	233.5	233.2	232.0	231.6	231.6	231.3	231.3	231.3	232.6
17°	233.0	233.0	231.8	232.1	231.3	231.0	230.5	230.3	230.6	231.7	231.2
17.5°	232.2	232.0	231.1	231.0	230.5	229.9	229.7	229.6	229.6	229.7	230.6
18°	231.4	231.1	231.1	230.4	229.4	228.9	228.8	228.6	228.6	229.5	229.8
18.5°	230.3	230.6	229.5	229.3	228.5	228.4	227.8	227.5	227.7	227.7	227.9
19°	229.5	229.2	228.9	228.3	227.8	227.2	226.5	226.5	226.7	227.3	227.9
19.5°	228.6	228.2	227.9	227.5	226.6	226.0	225.6	225.7	225.6	225.6	226.7
20°	227.6	227.5	226.5	226.5	225.5	225.2	224.8	224.6	224.6	226.1	225.5
20.5°	226.7	226.5	226.0	225.3	224.8	224.1	223.8	223.6	223.7	224.6	225.0
21°	225.7	225.4	224.8	224.2	223.5	223.0	222.9	222.5	222.6	223.0	223.5
21.5°	224.6	224.2	223.8	223.3	222.7	222.1	221.5	221.4	221.5	221.8	222.9
22°	223.5	223.4	222.8	222.1	221.3	220.8	220.4	220.4	220.4	221.9	220.7

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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°	222.5	222.2	*221.8*	221.1	219.9	219.8	219.5	219.2	219.3	219.9	220.4
23°	221.5	221.1	*220.9*	220.0	219.6	218.6	218.4	218.0	218.1	218.0	219.8
23.5°	220.4	219.8	*218.9*	218.7	219.1	217.6	216.9	217.0	216.9	218.1	217.9
24°	219.1	219.0	*218.3*	217.5	216.8	216.4	215.6	215.8	215.8	215.7	217.1
24.5°	217.9	217.1	*217.5*	216.5	215.8	215.2	215.0	214.6	214.5	213.7	216.4
25°	216.8	217.0	*217.5*	215.3	214.5	213.9	213.5	213.2	213.4	215.8	214.1
25.5°	215.7	215.8	*213.9*	214.1	213.3	212.8	212.3	212.0	212.2	212.5	213.5
26°	214.5	214.0	*213.4*	212.9	211.9	211.5	211.0	210.7	210.9	211.3	212.2
26.5°	213.3	212.0	*212.6*	211.5	210.7	210.3	209.8	209.6	209.6	210.3	210.8
27°	211.9	213.1	*210.7*	210.3	209.7	209.0	208.3	208.2	208.2	208.7	209.7
27.5°	210.8	209.8	*209.8*	209.0	208.3	207.7	207.3	207.0	207.0	207.7	208.4
28°	209.4	208.8	*208.7*	207.6	207.2	206.3	205.8	205.5	205.7	206.5	206.9
28.5°	208.1	207.7	*206.9*	206.4	205.6	204.9	204.5	204.5	204.4	203.9	205.8
29°	206.8	206.7	*206.0*	205.1	204.0	203.6	203.2	202.9	203.0	204.3	204.5
29.5°	205.5	204.8	*204.2*	203.3	203.5	202.4	201.8	201.6	201.7	202.2	202.8
30°	204.2	204.2	*203.0*	202.7	201.3	200.8	200.6	200.2	200.3	200.9	201.8
30.5°	202.7	202.6	*201.5*	200.6	200.2	199.5	199.0	198.9	198.8	199.4	200.4
31°	201.5	201.8	*200.7*	199.7	198.7	198.2	197.7	197.3	197.4	198.1	199.0
31.5°	200.0	198.8	*198.5*	198.0	197.4	196.6	196.1	196.1	196.1	196.5	197.4
32°	198.6	198.7	*197.5*	196.6	195.9	195.1	194.7	194.6	194.5	195.3	196.2
32.5°	197.1	196.4	*196.0*	195.8	194.2	193.8	193.1	192.7	193.2	193.4	194.6
33°	195.8	195.4	*195.2*	193.1	193.1	192.2	191.5	191.9	191.6	192.1	193.0
33.5°	194.2	193.9	*193.0*	192.4	191.4	190.8	190.7	190.1	190.0	190.8	191.4
34°	192.8	192.2	*192.0*	190.4	189.9	189.3	188.7	188.5	188.6	189.4	190.5
34.5°	191.1	191.0	*189.5*	189.3	188.6	187.7	186.2	187.1	187.1	187.6	188.7
35°	189.7	189.3	*188.8*	187.8	186.6	186.1	187.5	185.5	185.6	186.3	187.1
35.5°	188.3	187.7	*186.6*	186.0	185.7	184.7	184.3	183.9	184.0	184.3	185.6
36°	186.7	186.2	*185.0*	184.6	184.3	183.2	182.9	182.4	182.5	184.2	184.0
36.5°	185.3	184.7	*184.4*	183.0	182.4	181.6	180.9	180.9	180.8	181.6	182.6
37°	183.6	183.0	*182.3*	181.4	180.7	180.0	179.6	179.4	179.2	179.6	180.6
37.5°	182.2	181.6	*180.7*	179.8	179.0	178.5	177.9	177.5	177.8	178.2	179.4
38°	180.5	179.3	*179.2*	178.2	177.6	176.7	176.4	176.1	176.1	177.1	177.4
38.5°	178.9	178.4	*177.4*	176.5	175.8	175.0	174.6	174.5	174.5	175.2	176.3
39°	177.1	177.1	*175.5*	175.1	174.5	173.4	173.0	172.8	172.9	173.5	174.4
39.5°	175.7	174.7	*174.6*	173.1	172.6	172.0	171.4	171.1	171.2	172.2	172.7
40°	173.9	173.8	*172.3*	171.5	171.0	170.2	169.7	169.5	169.7	170.5	171.3
40.5°	172.3	172.2	*171.0*	170.0	169.1	168.5	168.3	167.9	168.0	168.1	169.5
41°	170.6	169.5	*169.0*	168.2	167.8	166.9	166.2	166.0	166.2	167.4	168.0
41.5°	169.1	168.9	*167.4*	166.5	165.9	165.2	164.6	164.5	164.5	165.3	166.1
42°	167.2	166.2	*166.1*	164.7	164.3	163.5	163.2	162.8	163.0	163.7	164.4
42.5°	165.6	165.3	*164.2*	163.2	162.5	161.9	161.2	161.0	161.2	161.8	163.1
43°	163.9	162.8	*162.5*	161.5	161.0	160.0	159.7	159.4	159.5	160.3	161.3
43.5°	162.1	161.8	*160.8*	159.6	159.0	158.3	158.5	157.6	157.7	158.4	159.2
44°	160.5	159.6	*159.0*	157.9	157.4	156.6	155.8	155.7	156.2	156.6	157.7
44.5°	158.7	158.4	*157.1*	156.1	155.6	154.8	154.5	154.3	154.2	155.1	156.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	156.9	156.5	*155.9*	154.4	153.9	153.1	152.7	152.0	152.5	153.0	154.2
45.5°	155.3	154.6	*154.0*	152.5	152.2	151.3	150.8	150.9	150.7	151.9	152.4
46°	153.4	153.0	*151.4*	150.7	150.3	149.5	149.1	148.9	149.0	149.7	150.9
46.5°	151.6	151.1	*150.7*	149.2	148.6	147.8	147.3	147.1	147.2	148.0	148.9
47°	149.9	149.2	*148.2*	147.2	146.8	146.0	145.5	145.0	145.5	146.2	147.3
47.5°	148.1	147.7	*146.3*	145.5	145.0	144.2	144.0	143.7	143.6	144.3	145.3
48°	146.3	145.9	*145.0*	143.7	143.1	142.4	142.0	141.4	141.8	142.6	143.7
48.5°	144.5	143.9	*142.9*	141.8	141.5	140.5	140.0	139.9	140.1	140.9	141.8
49°	142.7	142.1	*141.5*	140.1	139.6	138.7	138.8	138.2	138.3	138.9	139.9
49.5°	140.9	140.4	*139.1*	138.3	137.8	137.0	136.6	136.0	136.4	137.3	138.2
50°	139.0	138.4	*137.7*	136.5	136.0	135.0	134.6	134.9	134.7	135.3	136.3
50.5°	137.3	136.8	*135.8*	134.7	134.3	133.3	133.1	132.7	132.8	133.9	134.5
51°	135.4	134.8	*133.9*	132.8	132.5	131.5	131.4	131.0	131.0	131.7	132.8
51.5°	133.7	133.0	*132.0*	130.9	130.8	129.7	128.9	129.0	129.1	129.6	131.0
52°	131.7	132.0	*130.1*	129.4	128.8	127.9	128.1	127.8	127.4	129.0	129.2
52.5°	130.0	129.1	*128.5*	128.2	127.1	126.2	125.7	125.5	125.5	126.2	127.2
53°	128.2	127.8	*126.7*	124.8	125.3	124.3	123.9	123.6	123.8	124.9	125.8
53.5°	126.4	125.9	*124.8*	124.2	123.4	122.5	122.0	121.9	121.9	122.7	123.8
54°	124.4	124.1	*123.3*	121.8	121.5	120.7	120.3	120.0	120.1	120.7	121.9
54.5°	122.7	122.4	*121.0*	120.2	119.6	118.9	118.3	118.1	118.4	119.2	120.2
55°	120.9	120.1	*119.3*	118.8	117.8	117.1	116.6	116.3	116.6	117.1	118.4
55.5°	119.2	118.6	*117.6*	116.1	115.8	115.2	114.7	114.4	114.8	115.4	116.4
56°	117.2	116.6	*115.8*	114.6	114.2	113.4	112.8	112.7	112.9	113.7	115.1
56.5°	115.5	114.6	*113.5*	113.1	112.3	111.7	110.9	110.7	111.1	111.6	112.8
57°	113.6	112.8	*112.3*	110.4	110.3	109.7	109.2	109.0	109.3	110.4	111.1
57.5°	111.8	110.9	*110.0*	109.3	108.6	107.9	107.3	107.1	107.4	108.1	109.2
58°	109.9	109.1	*108.2*	107.2	106.6	106.0	105.2	105.4	105.6	106.1	107.7
58.5°	108.0	107.2	*106.7*	105.0	104.9	104.2	103.7	103.2	103.8	104.4	105.3
59°	106.1	105.1	*104.4*	103.6	102.9	102.3	101.7	101.8	101.9	102.6	104.1
59.5°	104.4	103.3	*102.8*	101.6	101.1	100.5	99.8	99.9	100.1	100.8	101.7
60°	102.4	101.6	*101.5*	99.5	99.2	98.6	98.0	97.8	98.2	98.7	100.6
60.5°	100.5	99.6	*98.4*	97.9	97.3	96.7	96.2	95.8	96.4	97.2	98.4
61°	98.6	97.8	*97.2*	95.9	95.5	94.8	94.3	94.2	94.5	95.2	96.3
61.5°	96.8	96.2	*95.1*	93.9	93.6	92.9	92.4	92.4	92.6	93.3	94.7
62°	94.9	93.8	*93.3*	92.2	91.7	91.0	90.6	90.3	90.8	91.4	92.7
62.5°	93.0	92.1	*91.4*	90.3	89.9	89.3	88.7	88.6	88.9	89.6	91.1
63°	91.1	90.3	*89.4*	88.2	87.9	87.3	86.8	86.9	87.1	87.8	88.9
63.5°	89.2	88.3	*87.6*	86.2	86.1	85.4	84.8	84.8	85.3	85.9	87.2
64°	87.3	86.7	*85.7*	84.6	84.2	83.5	83.0	83.2	83.4	84.1	85.2
64.5°	85.4	84.5	*83.8*	82.7	82.3	81.7	81.2	80.9	81.5	82.4	83.4
65°	83.5	82.8	*81.8*	80.5	80.4	79.7	79.3	79.2	79.7	80.3	81.5
65.5°	81.6	81.2	*80.0*	78.8	78.5	77.9	77.4	77.5	77.8	78.6	79.4
66°	79.7	78.9	*78.0*	76.9	76.7	76.1	75.6	75.5	75.9	76.8	77.8
66.5°	77.8	77.3	*76.1*	75.3	74.8	74.0	73.4	73.6	74.1	74.7	75.8
67°	75.9	75.2	*74.2*	73.0	72.9	72.3	71.9	72.1	72.2	73.1	74.1

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

Scaled Data Report

TEST NUMBER: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	74.0	73.6	*72.4*	71.5	71.3	70.4	70.0	69.8	70.4	71.3	71.8
68°	72.1	71.3	*70.5*	69.6	69.2	68.5	68.1	67.9	68.6	69.1	71.1
68.5°	70.3	69.9	*68.6*	67.5	67.5	66.7	66.3	66.3	66.7	67.8	68.4
69°	68.4	67.8	*66.7*	65.6	65.7	64.8	64.5	64.5	64.9	65.7	66.6
69.5°	66.5	65.9	*64.8*	63.9	63.9	63.0	62.7	62.6	63.1	63.8	65.1
70°	64.6	64.1	*62.9*	62.1	62.0	61.2	60.9	60.8	61.2	62.0	63.5
70.5°	62.8	62.3	*61.2*	60.1	60.2	59.3	59.1	59.0	59.4	60.2	62.0
71°	60.9	60.4	*59.3*	58.4	58.3	57.5	57.3	57.2	57.5	58.4	60.4
71.5°	59.1	58.7	*57.4*	56.5	56.6	55.6	55.4	55.4	55.7	56.7	56.5
72°	57.3	56.7	*55.7*	54.9	54.9	53.8	53.7	53.6	53.9	54.9	56.2
72.5°	55.4	55.0	*53.8*	52.9	52.9	52.0	51.9	51.8	52.2	53.1	54.0
73°	53.6	53.1	*52.0*	51.3	51.5	50.2	50.0	50.1	50.4	51.3	51.9
73.5°	51.8	51.3	*50.2*	49.5	49.3	48.4	48.3	48.4	48.6	49.6	50.3
74°	50.0	49.6	*48.5*	47.6	47.5	46.6	46.6	46.6	46.9	47.9	48.9
74.5°	48.2	47.8	*46.7*	45.9	45.9	44.9	44.7	44.9	45.1	46.0	46.6
75°	46.4	46.1	*45.0*	44.3	44.2	43.1	43.1	43.2	43.4	44.4	45.2
75.5°	44.7	44.1	*43.2*	42.4	42.7	41.4	41.3	41.4	41.6	42.5	43.2
76°	42.9	42.6	*41.5*	40.7	40.6	39.7	39.6	39.8	39.9	41.0	41.8
76.5°	41.1	40.8	*39.7*	38.9	39.0	38.0	38.0	38.2	38.2	39.2	40.0
77°	39.4	39.0	*38.1*	37.4	37.4	36.3	36.3	35.8	36.6	37.5	38.0
77.5°	37.7	37.4	*36.4*	35.5	35.7	34.6	34.5	35.5	34.9	35.9	37.0
78°	36.0	35.7	*34.8*	34.0	34.0	33.0	33.0	33.1	33.3	34.3	34.8
78.5°	34.3	33.9	*33.0*	32.3	32.3	31.3	31.3	31.2	31.6	32.5	33.3
79°	32.7	32.1	*31.4*	30.6	30.7	29.7	29.6	29.6	30.0	31.0	31.8
79.5°	31.0	30.8	*29.7*	29.1	29.0	28.1	28.0	28.4	28.4	29.2	30.0
80°	29.3	28.9	*28.1*	27.1	27.4	26.5	26.4	26.0	26.8	27.9	28.5
80.5°	27.8	27.1	*26.5*	25.6	25.8	25.0	24.9	24.9	25.2	26.1	26.9
81°	26.2	25.6	*25.0*	24.1	24.2	23.4	23.3	23.6	23.6	24.6	25.3
81.5°	24.6	24.1	*23.4*	22.6	22.6	21.9	21.8	21.6	22.1	23.0	23.7
82°	23.0	22.5	*21.8*	21.1	21.1	20.4	20.2	20.3	20.6	21.4	22.2
82.5°	21.4	21.0	*20.3*	19.5	19.6	18.9	18.7	18.8	19.0	19.9	20.7
83°	19.9	19.5	*18.7*	18.0	18.0	17.4	17.2	17.2	17.6	18.5	19.2
83.5°	18.3	17.9	*17.2*	16.6	16.5	15.9	15.8	15.9	16.1	16.9	17.7
84°	16.8	16.4	*15.7*	15.0	15.0	14.5	14.3	14.3	14.7	15.5	16.2
84.5°	15.4	15.0	*14.2*	13.5	13.5	13.1	12.9	12.9	13.2	14.0	14.8
85°	13.9	13.4	*12.8*	12.1	12.1	11.6	11.5	11.6	11.9	12.6	13.3
85.5°	12.4	11.9	*11.3*	10.6	10.6	10.2	10.1	10.1	10.5	11.2	12.1
86°	11.0	10.6	*10.0*	9.3	9.3	8.8	8.8	8.8	9.1	9.8	10.5
86.5°	9.6	9.2	*8.6*	8.0	7.9	7.5	7.4	7.5	7.8	8.5	9.1
87°	8.3	7.8	*7.3*	6.7	6.5	6.1	6.1	6.2	6.5	7.1	7.8
87.5°	7.0	6.6	*6.0*	5.3	5.1	4.8	4.8	4.8	5.2	5.8	6.4
88°	5.7	5.2	*4.6*	3.8	3.7	3.4	3.4	3.5	3.8	4.5	5.1
88.5°	4.4	3.8	*3.0*	2.2	2.3	2.0	2.1	2.2	2.5	3.1	3.7
89°	2.9	2.3	*2.3*	1.6	1.0	0.9	1.0	1.2	1.4	1.8	2.4
89.5°	2.2	1.7	*1.5*	1.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3

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

Scaled Data Report

TEST NUMBER: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	1.5	1.2	*0.8*	0.6	0.1	0.1	0.1	0.2	0.3	0.5	0.7
90.5°	0.8	0.6	*0.0*	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
91°	0.1	0.1	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
91.5°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
92°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
92.5°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
93°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
93.5°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
94°	0.0	0.0	*0.0*	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1
94.5°	0.0	0.0	*0.0*	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
95°	0.0	0.0	*0.0*	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
95.5°	0.0	0.0	*0.0*	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
96°	0.0	0.0	*0.0*	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
96.5°	0.0	0.0	*0.0*	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
97°	0.0	0.0	*0.0*	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
97.5°	0.0	0.0	*0.0*	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
98°	0.0	0.0	*0.0*	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
98.5°	0.0	0.0	*0.0*	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
99°	0.0	0.0	*0.0*	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
99.5°	0.0	0.0	*0.0*	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.0	0.0	*0.1*	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100.5°	0.0	0.0	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
101°	0.0	0.0	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
101.5°	0.0	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
102°	0.0	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: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

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	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
122.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
123°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
123.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
124°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
124.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
125°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
125.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
126°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
126.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
127°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
127.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
128°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
128.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
129°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
129.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
130°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
130.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
131°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
131.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
132°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
132.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
133°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
133.5°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
134°	0.1	0.1	*0.1*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
134.5°	0.1	0.1	*0.1*	0.1	0.1	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: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
135.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
136°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
136.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
137°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
137.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
138°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
138.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
139°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
139.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
140°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
140.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
141°	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2
141.5°	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2
142°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2
142.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
143°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
143.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
146°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
146.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
147°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
147.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
148°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
148.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
149°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
149.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
150°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
150.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
151°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
151.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
152°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
152.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
153°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
153.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
154°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
154.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
155°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
155.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
156°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
156.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
157°	0.1	0.1	0.1	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: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
158°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
158.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
159°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
159.5°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
160°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
160.5°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
161°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
161.5°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
162°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
162.5°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
163°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
163.5°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
164°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
164.5°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
165°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2
165.5°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2
166°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2
166.5°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2
167°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
167.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
168°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
168.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
169°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
169.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
170°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
170.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
171°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
171.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
172°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
172.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
173°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
173.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
174°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
174.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
176°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
176.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
177°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
177.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
178°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
178.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
179°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
179.5°	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: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	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: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	246.9	246.9	246.9	246.9	246.9	246.9
0.5°	247.1	246.6	246.9	247.4	247.1	247.0
1°	248.2	246.6	246.7	246.6	246.9	246.9
1.5°	246.0	246.4	246.8	247.2	246.9	246.9
2°	247.4	246.4	246.6	246.7	246.9	247.0
2.5°	*245.8*	*246.3*	*246.7*	*246.5*	*246.8*	*246.8*
3°	247.9	246.1	246.4	246.6	246.6	246.9
3.5°	246.4	246.0	246.4	246.4	246.8	246.6
4°	246.6	245.9	246.1	246.6	246.3	246.4
4.5°	246.5	245.5	246.1	245.9	246.4	246.3
5°	245.9	245.4	245.6	246.0	245.9	245.9
5.5°	245.7	245.0	245.5	246.0	245.9	245.7
6°	245.3	244.8	245.0	245.1	245.5	245.5
6.5°	245.5	244.4	244.8	245.2	245.1	245.0
7°	244.3	244.1	244.6	244.5	245.0	244.9
7.5°	245.1	243.6	244.0	244.4	244.3	244.7
8°	243.4	243.2	243.6	244.0	244.2	244.0
8.5°	244.0	242.8	243.3	243.5	243.8	243.7
9°	242.6	242.3	242.8	243.0	243.1	243.3
9.5°	242.6	241.9	242.3	242.7	242.7	242.9
10°	242.6	241.3	241.7	242.2	242.4	242.5
10.5°	240.8	240.8	241.4	241.5	241.9	242.0
11°	240.9	240.3	240.8	240.9	241.6	241.4
11.5°	240.0	239.6	240.1	240.8	240.2	240.7
12°	239.6	239.0	239.5	239.9	240.3	240.3
12.5°	239.1	238.4	239.0	239.3	239.4	239.7
13°	238.2	237.6	238.3	238.4	239.3	239.1
13.5°	237.7	237.0	237.8	237.8	238.0	238.3
14°	236.9	236.2	236.9	237.4	237.7	237.8
14.5°	236.2	235.5	236.2	236.6	237.0	236.8
15°	235.2	235.0	235.5	236.1	239.3	236.2
15.5°	234.7	234.1	234.7	235.0	234.3	235.3
16°	233.7	233.3	233.8	234.4	234.8	234.8
16.5°	232.9	232.4	233.2	233.5	234.0	233.8
17°	232.2	231.5	232.3	232.8	232.8	233.0
17.5°	231.3	230.5	231.4	231.9	232.1	232.2
18°	230.3	230.1	230.4	231.0	231.5	231.4
18.5°	229.4	228.7	229.6	230.0	231.1	230.3
19°	228.5	227.9	228.7	228.8	229.3	229.5
19.5°	227.5	227.0	227.8	228.5	228.3	228.6
20°	226.5	225.9	226.8	227.2	227.7	227.6
20.5°	225.4	224.9	225.8	226.3	226.2	226.7
21°	224.3	223.9	224.8	225.3	225.6	225.7
21.5°	223.4	222.8	223.8	224.3	224.2	224.6
22°	222.3	221.9	222.7	223.3	224.0	223.5

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	221.3	220.6	221.6	222.0	224.5	222.5
23°	220.2	219.7	220.4	221.4	219.5	221.5
23.5°	219.0	218.6	219.5	220.0	220.9	220.4
24°	217.9	217.5	218.2	218.9	219.6	219.1
24.5°	216.6	216.1	217.1	217.8	217.6	217.9
25°	215.7	214.9	215.9	216.6	217.1	216.8
25.5°	214.2	213.9	214.7	215.5	216.4	215.7
26°	213.1	212.6	213.4	213.9	213.9	214.5
26.5°	211.8	211.3	212.2	213.1	214.4	213.3
27°	210.5	210.1	211.0	211.7	212.7	211.9
27.5°	209.3	208.8	209.8	210.3	210.2	210.8
28°	208.0	207.6	208.5	209.1	209.0	209.4
28.5°	206.6	206.1	207.1	207.8	207.7	208.1
29°	205.4	204.9	205.7	206.5	206.8	206.8
29.5°	203.8	203.5	204.5	205.1	205.7	205.5
30°	202.7	202.2	203.2	203.9	203.9	204.2
30.5°	201.2	200.8	201.8	202.4	202.7	202.7
31°	199.8	199.4	200.3	201.1	201.3	201.5
31.5°	198.4	198.1	199.0	200.0	200.2	200.0
32°	197.0	196.5	197.5	198.1	203.6	198.6
32.5°	195.5	195.1	196.3	196.9	194.4	197.1
33°	194.1	193.6	194.6	195.7	196.2	195.8
33.5°	192.7	192.2	193.2	193.8	194.9	194.2
34°	191.1	190.8	191.7	192.3	192.4	192.8
34.5°	189.6	189.1	190.3	191.1	191.4	191.1
35°	188.1	187.8	188.7	189.5	190.2	189.7
35.5°	186.5	186.3	187.2	187.8	187.8	188.3
36°	185.2	184.6	185.8	186.5	187.2	186.7
36.5°	183.5	183.1	184.2	184.7	185.1	185.3
37°	181.9	181.6	182.5	183.3	183.9	183.6
37.5°	180.4	180.1	181.1	181.7	181.4	182.2
38°	178.8	178.3	179.4	180.1	180.7	180.5
38.5°	177.2	176.9	177.9	178.6	178.7	178.9
39°	175.6	175.2	176.4	176.9	177.2	177.1
39.5°	174.0	173.6	174.6	175.4	175.8	175.7
40°	172.4	172.0	172.9	173.7	173.8	173.9
40.5°	170.7	170.2	171.3	172.1	172.8	172.3
41°	169.0	168.7	169.7	170.3	170.5	170.6
41.5°	167.3	166.9	168.0	168.7	169.5	169.1
42°	165.7	165.2	166.3	167.0	167.2	167.2
42.5°	164.0	163.7	164.6	165.4	165.6	165.6
43°	162.2	161.7	163.0	163.6	163.7	163.9
43.5°	160.5	160.2	161.2	162.1	162.6	162.1
44°	158.8	158.4	159.5	160.1	160.4	160.5
44.5°	157.0	156.7	157.8	158.5	158.6	158.7

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

Scaled Data Report

TEST NUMBER: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	155.5	155.1	156.0	156.7	157.2	156.9
45.5°	153.5	153.2	154.2	154.9	155.3	155.3
46°	151.8	151.5	152.6	153.3	153.5	153.4
46.5°	150.2	149.6	150.8	151.6	151.6	151.6
47°	148.3	148.0	148.9	149.6	150.3	149.9
47.5°	146.5	146.1	147.2	147.9	147.8	148.1
48°	144.7	144.5	145.5	146.1	146.9	146.3
48.5°	143.0	142.5	143.6	144.4	143.6	144.5
49°	141.1	140.8	141.8	142.6	143.6	142.7
49.5°	139.3	139.0	140.0	140.8	140.8	140.9
50°	137.6	137.3	138.2	138.9	139.0	139.0
50.5°	135.7	135.4	136.3	137.2	137.4	137.3
51°	133.9	133.7	134.5	135.4	135.7	135.4
51.5°	132.2	131.9	132.7	133.6	133.6	133.7
52°	130.3	130.0	130.9	131.8	132.2	131.7
52.5°	128.6	128.3	129.1	130.0	130.3	130.0
53°	126.7	126.5	127.3	128.2	128.2	128.2
53.5°	125.0	124.6	125.5	126.3	126.7	126.4
54°	123.1	122.8	123.7	124.5	124.3	124.4
54.5°	121.1	121.0	122.0	122.7	123.1	122.7
55°	119.8	119.2	120.1	120.8	120.9	120.9
55.5°	117.8	117.4	118.4	118.9	119.4	119.2
56°	115.8	115.6	116.6	117.3	117.2	117.2
56.5°	114.1	113.7	114.8	115.2	115.6	115.5
57°	112.2	111.9	112.9	113.4	113.5	113.6
57.5°	110.4	110.0	111.1	111.5	111.8	111.8
58°	108.5	108.2	109.3	109.7	109.8	109.9
58.5°	106.7	106.3	107.6	107.8	107.9	108.0
59°	104.9	104.4	105.5	106.1	106.3	106.1
59.5°	103.1	102.6	103.8	104.1	104.6	104.4
60°	101.2	100.8	101.9	102.3	102.4	102.4
60.5°	99.3	98.8	100.0	100.4	100.5	100.5
61°	97.5	97.0	98.2	98.6	98.8	98.6
61.5°	95.7	95.2	96.3	96.6	96.9	96.8
62°	93.9	93.3	94.4	94.9	95.0	94.9
62.5°	92.0	91.5	92.6	92.9	93.1	93.0
63°	90.0	89.6	90.6	91.1	91.3	91.1
63.5°	88.2	87.8	88.7	89.2	89.3	89.2
64°	86.4	86.0	86.9	87.3	87.4	87.3
64.5°	84.5	84.0	85.0	85.3	85.5	85.4
65°	82.6	82.2	83.1	83.5	83.7	83.5
65.5°	80.7	80.4	81.2	81.5	81.7	81.6
66°	78.8	78.4	79.3	79.6	79.8	79.7
66.5°	77.0	76.6	77.5	77.7	77.9	77.8
67°	75.1	74.7	75.5	75.9	76.2	75.9

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

Scaled Data Report

TEST NUMBER: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	73.3	73.1	73.7	74.0	74.1	74.0
68°	71.4	71.0	71.8	72.1	72.4	72.1
68.5°	69.5	69.2	70.0	70.3	70.5	70.3
69°	67.7	67.5	68.0	68.4	68.6	68.4
69.5°	65.8	65.6	66.2	66.5	66.7	66.5
70°	64.0	63.6	64.4	64.7	64.9	64.6
70.5°	62.2	62.0	62.5	62.8	63.0	62.8
71°	60.3	60.2	60.6	61.1	61.2	60.9
71.5°	58.5	58.2	58.8	59.3	59.4	59.1
72°	56.7	56.6	57.0	57.5	57.5	57.3
72.5°	55.0	54.8	55.2	55.6	55.7	55.4
73°	53.1	53.0	53.4	53.9	53.9	53.6
73.5°	51.4	51.2	51.6	52.1	52.1	51.8
74°	49.7	49.5	49.8	50.3	50.3	50.0
74.5°	47.9	47.7	48.0	48.5	48.5	48.2
75°	46.2	46.0	46.3	46.9	46.8	46.4
75.5°	44.5	44.2	44.5	45.0	45.1	44.7
76°	42.7	42.5	42.7	43.3	43.2	42.9
76.5°	41.0	40.8	41.0	41.6	41.6	41.1
77°	39.4	39.1	39.3	39.8	39.8	39.4
77.5°	37.7	37.4	37.7	38.1	38.1	37.7
78°	36.0	35.8	36.0	36.4	36.4	36.0
78.5°	34.3	34.1	34.3	34.7	34.7	34.3
79°	32.7	32.4	32.7	33.0	33.0	32.7
79.5°	31.1	30.7	31.0	31.4	31.3	31.0
80°	29.4	29.2	29.4	29.7	29.7	29.3
80.5°	27.8	27.7	27.9	28.1	28.0	27.8
81°	26.2	26.1	26.3	26.6	26.4	26.2
81.5°	24.7	24.5	24.7	25.0	24.9	24.6
82°	23.1	22.9	23.2	23.4	23.3	23.0
82.5°	21.5	21.4	21.6	21.8	21.7	21.4
83°	20.0	19.8	20.0	20.2	20.2	19.9
83.5°	18.5	18.3	18.5	18.7	18.7	18.3
84°	17.0	16.8	17.0	17.2	17.2	16.8
84.5°	15.5	15.3	15.6	15.7	15.7	15.4
85°	14.1	13.8	14.1	14.3	14.2	13.9
85.5°	12.6	12.3	12.7	12.8	12.7	12.4
86°	11.2	10.9	11.2	11.3	11.3	11.0
86.5°	9.8	9.5	9.8	10.0	9.9	9.6
87°	8.5	8.2	8.5	8.6	8.5	8.3
87.5°	7.1	6.9	7.2	7.3	7.2	7.0
88°	5.8	5.6	6.0	6.0	6.0	5.7
88.5°	4.4	4.3	4.7	4.7	4.7	4.4
89°	3.1	2.8	3.3	3.3	3.2	2.9
89.5°	1.8	2.1	2.6	2.7	2.6	2.2

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

Scaled Data Report

TEST NUMBER: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.8	1.4	2.0	2.0	1.9	1.5
90.5°	0.3	0.8	1.3	1.4	1.3	0.8
91°	0.1	0.1	0.7	0.7	0.7	0.1
91.5°	0.0	0.0	0.1	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.1	0.0	0.0	0.0	0.0	0.0
93°	0.1	0.0	0.0	0.0	0.0	0.0
93.5°	0.1	0.0	0.0	0.0	0.0	0.0
94°	0.1	0.0	0.0	0.0	0.0	0.0
94.5°	0.1	0.0	0.0	0.0	0.0	0.0
95°	0.1	0.0	0.0	0.0	0.0	0.0
95.5°	0.1	0.0	0.0	0.0	0.0	0.0
96°	0.1	0.0	0.0	0.0	0.0	0.0
96.5°	0.1	0.0	0.0	0.0	0.0	0.0
97°	0.1	0.0	0.0	0.0	0.0	0.0
97.5°	0.1	0.0	0.0	0.0	0.0	0.0
98°	0.1	0.0	0.0	0.0	0.0	0.0
98.5°	0.1	0.0	0.0	0.0	0.0	0.0
99°	0.1	0.1	0.0	0.0	0.0	0.0
99.5°	0.1	0.1	0.0	0.1	0.0	0.0
100°	0.1	0.1	0.1	0.1	0.0	0.0
100.5°	0.1	0.1	0.1	0.1	0.0	0.0
101°	0.1	0.1	0.1	0.1	0.1	0.0
101.5°	0.1	0.1	0.1	0.1	0.1	0.0
102°	0.1	0.1	0.1	0.1	0.1	0.0
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: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

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	0.1	0.1	0.1
115.5°	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
116.5°	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
117.5°	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
118.5°	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
119.5°	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
120.5°	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
121.5°	0.1	0.1	0.1	0.1	0.1	0.1
122°	0.1	0.1	0.1	0.1	0.1	0.1
122.5°	0.1	0.1	0.1	0.1	0.1	0.1
123°	0.1	0.1	0.1	0.1	0.1	0.1
123.5°	0.1	0.1	0.1	0.1	0.1	0.1
124°	0.1	0.1	0.1	0.1	0.1	0.1
124.5°	0.1	0.1	0.1	0.1	0.1	0.1
125°	0.1	0.1	0.1	0.1	0.1	0.1
125.5°	0.1	0.1	0.1	0.1	0.1	0.1
126°	0.1	0.1	0.1	0.1	0.1	0.1
126.5°	0.1	0.1	0.1	0.1	0.1	0.1
127°	0.1	0.1	0.1	0.1	0.1	0.1
127.5°	0.1	0.1	0.1	0.1	0.1	0.1
128°	0.1	0.1	0.1	0.1	0.1	0.1
128.5°	0.1	0.1	0.1	0.1	0.1	0.1
129°	0.1	0.1	0.1	0.1	0.1	0.1
129.5°	0.1	0.1	0.1	0.1	0.1	0.1
130°	0.1	0.1	0.1	0.1	0.1	0.1
130.5°	0.1	0.1	0.1	0.1	0.1	0.1
131°	0.1	0.1	0.1	0.1	0.1	0.1
131.5°	0.1	0.1	0.1	0.1	0.1	0.1
132°	0.1	0.1	0.1	0.1	0.1	0.1
132.5°	0.1	0.1	0.1	0.1	0.1	0.1
133°	0.1	0.1	0.1	0.1	0.1	0.1
133.5°	0.1	0.1	0.1	0.1	0.1	0.1
134°	0.1	0.1	0.1	0.1	0.1	0.1
134.5°	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: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.1	0.1	0.1	0.1	0.1	0.1
135.5°	0.1	0.1	0.1	0.1	0.1	0.1
136°	0.1	0.1	0.1	0.1	0.1	0.1
136.5°	0.1	0.1	0.1	0.1	0.1	0.1
137°	0.1	0.1	0.1	0.1	0.1	0.1
137.5°	0.1	0.1	0.1	0.1	0.1	0.1
138°	0.2	0.1	0.1	0.1	0.1	0.1
138.5°	0.2	0.1	0.1	0.1	0.1	0.1
139°	0.2	0.1	0.1	0.1	0.1	0.1
139.5°	0.2	0.1	0.1	0.1	0.1	0.1
140°	0.2	0.1	0.1	0.1	0.1	0.1
140.5°	0.2	0.1	0.1	0.1	0.1	0.1
141°	0.2	0.1	0.1	0.1	0.1	0.1
141.5°	0.2	0.1	0.2	0.1	0.1	0.1
142°	0.2	0.1	0.2	0.1	0.1	0.1
142.5°	0.2	0.1	0.2	0.1	0.1	0.1
143°	0.2	0.1	0.2	0.1	0.1	0.1
143.5°	0.2	0.1	0.2	0.1	0.1	0.1
144°	0.2	0.1	0.2	0.1	0.1	0.1
144.5°	0.2	0.1	0.2	0.1	0.1	0.1
145°	0.2	0.1	0.2	0.1	0.1	0.1
145.5°	0.2	0.1	0.2	0.1	0.1	0.1
146°	0.2	0.1	0.2	0.1	0.1	0.1
146.5°	0.2	0.1	0.2	0.1	0.1	0.1
147°	0.2	0.2	0.2	0.1	0.1	0.1
147.5°	0.2	0.2	0.2	0.1	0.1	0.1
148°	0.2	0.2	0.2	0.1	0.1	0.1
148.5°	0.2	0.2	0.2	0.1	0.2	0.1
149°	0.2	0.2	0.2	0.2	0.2	0.1
149.5°	0.2	0.2	0.2	0.2	0.2	0.1
150°	0.2	0.2	0.2	0.2	0.2	0.1
150.5°	0.2	0.2	0.2	0.2	0.2	0.1
151°	0.2	0.2	0.2	0.2	0.2	0.1
151.5°	0.2	0.2	0.2	0.2	0.2	0.1
152°	0.2	0.2	0.2	0.2	0.2	0.1
152.5°	0.2	0.2	0.2	0.2	0.2	0.1
153°	0.2	0.2	0.2	0.2	0.2	0.1
153.5°	0.2	0.2	0.2	0.2	0.2	0.1
154°	0.2	0.2	0.2	0.2	0.2	0.1
154.5°	0.2	0.2	0.2	0.2	0.2	0.1
155°	0.2	0.2	0.2	0.2	0.2	0.1
155.5°	0.2	0.2	0.2	0.2	0.2	0.1
156°	0.2	0.2	0.2	0.2	0.2	0.1
156.5°	0.2	0.2	0.2	0.2	0.2	0.1
157°	0.2	0.2	0.2	0.2	0.2	0.1

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

Scaled Data Report

TEST NUMBER: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.2	0.2	0.2	0.2	0.2	0.1
158°	0.2	0.2	0.2	0.2	0.2	0.1
158.5°	0.2	0.2	0.2	0.2	0.2	0.1
159°	0.2	0.2	0.2	0.2	0.2	0.2
159.5°	0.2	0.2	0.2	0.2	0.2	0.2
160°	0.2	0.2	0.2	0.2	0.2	0.2
160.5°	0.2	0.2	0.2	0.2	0.2	0.2
161°	0.2	0.2	0.2	0.2	0.2	0.2
161.5°	0.2	0.2	0.2	0.2	0.2	0.2
162°	0.2	0.2	0.2	0.2	0.2	0.2
162.5°	0.2	0.2	0.2	0.2	0.2	0.2
163°	0.2	0.2	0.2	0.2	0.2	0.2
163.5°	0.2	0.2	0.2	0.2	0.2	0.2
164°	0.2	0.2	0.2	0.2	0.2	0.2
164.5°	0.2	0.2	0.2	0.2	0.2	0.2
165°	0.2	0.2	0.2	0.2	0.2	0.2
165.5°	0.2	0.2	0.2	0.2	0.2	0.2
166°	0.2	0.2	0.2	0.2	0.2	0.2
166.5°	0.2	0.2	0.2	0.2	0.2	0.2
167°	0.2	0.2	0.2	0.2	0.2	0.2
167.5°	0.2	0.2	0.2	0.2	0.2	0.2
168°	0.2	0.2	0.2	0.2	0.2	0.2
168.5°	0.2	0.2	0.2	0.2	0.2	0.2
169°	0.2	0.2	0.2	0.3	0.2	0.2
169.5°	0.2	0.2	0.2	0.3	0.2	0.2
170°	0.2	0.2	0.3	0.3	0.2	0.2
170.5°	0.2	0.2	0.3	0.3	0.2	0.2
171°	0.2	0.2	0.3	0.3	0.2	0.2
171.5°	0.2	0.2	0.3	0.3	0.2	0.2
172°	0.2	0.2	0.3	0.3	0.2	0.2
172.5°	0.2	0.2	0.3	0.2	0.2	0.2
173°	0.2	0.2	0.3	0.2	0.2	0.2
173.5°	0.2	0.2	0.2	0.2	0.2	0.2
174°	0.2	0.2	0.2	0.2	0.2	0.2
174.5°	0.2	0.2	0.2	0.2	0.2	0.2
175°	0.2	0.2	0.2	0.2	0.2	0.2
175.5°	0.2	0.2	0.2	0.2	0.2	0.2
176°	0.2	0.2	0.2	0.2	0.2	0.2
176.5°	0.2	0.2	0.2	0.2	0.2	0.2
177°	0.2	0.2	0.2	0.2	0.2	0.2
177.5°	0.2	0.2	0.2	0.2	0.2	0.2
178°	0.2	0.2	0.2	0.2	0.2	0.2
178.5°	0.2	0.2	0.2	0.2	0.2	0.2
179°	0.2	0.2	0.2	0.2	0.2	0.2
179.5°	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: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.2	0.2	0.2	0.2	0.2	0.2

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TEST NUMBER: P1596620
CATALOG NUMBER: HLB3LSFS5-LO-3500K

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	26.71	28.35	27.08	28.66	28.98	26.53	28.16	26.90	28.48	28.80
	3H	28.56	30.04	28.94	30.37	30.73	28.33	29.81	28.71	30.14	30.50
	4H	29.28	30.67	29.68	31.02	31.40	29.02	30.41	29.42	30.76	31.14
	6H	29.84	31.13	30.25	31.50	31.89	29.55	30.84	29.96	31.21	31.60
	8H	30.04	31.27	30.46	31.66	32.06	29.73	30.96	30.15	31.35	31.75
	12H	30.14	31.32	30.57	31.70	32.13	29.81	30.99	30.24	31.38	31.81
4H	2H	27.34	28.74	27.74	29.09	29.46	27.16	28.56	27.56	28.91	29.28
	3H	29.42	30.59	29.83	30.99	31.39	29.18	30.35	29.60	30.75	31.16
	4H	30.27	31.33	30.71	31.75	32.19	30.00	31.06	30.43	31.48	31.91
	6H	30.97	31.90	31.43	32.34	32.80	30.66	31.59	31.12	32.03	32.49
	8H	31.23	32.10	31.69	32.54	33.01	30.89	31.76	31.35	32.20	32.67
	12H	31.40	32.18	31.88	32.66	33.13	31.04	31.82	31.52	32.29	32.77
8H	4H	30.60	31.47	31.06	31.91	32.38	30.33	31.20	30.79	31.64	32.11
	6H	31.44	32.16	31.93	32.65	33.13	31.12	31.84	31.61	32.33	32.81
	8H	31.78	32.43	32.29	32.94	33.42	31.42	32.07	31.93	32.58	33.07
	12H	32.05	32.62	32.55	33.11	33.68	31.65	32.23	32.16	32.72	33.28
12H	4H	30.64	31.42	31.12	31.90	32.37	30.37	31.15	30.85	31.63	32.10
	6H	31.51	32.16	32.02	32.66	33.15	31.18	31.83	31.69	32.34	32.83
	8H	31.91	32.49	32.42	32.98	33.54	31.55	32.13	32.06	32.62	33.18

END OF REPORT