

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: P869792

Luminaire Tested: HLBSL406FS5-2700K

Issue Date: 9/3/2024

Test Information

Test Method: LM-79-2019
Report Number: P869792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2402870-01A001)
Test Lab:
Issue Date: 9/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: HLBSL406FS5-2700K
Description: 4IN 750LM, 90CRI, DIMMING TO 10%
Light Source: SELECTABLE CCT 90CRI / 2700K CCT
Ballast/Driver: -

Summary

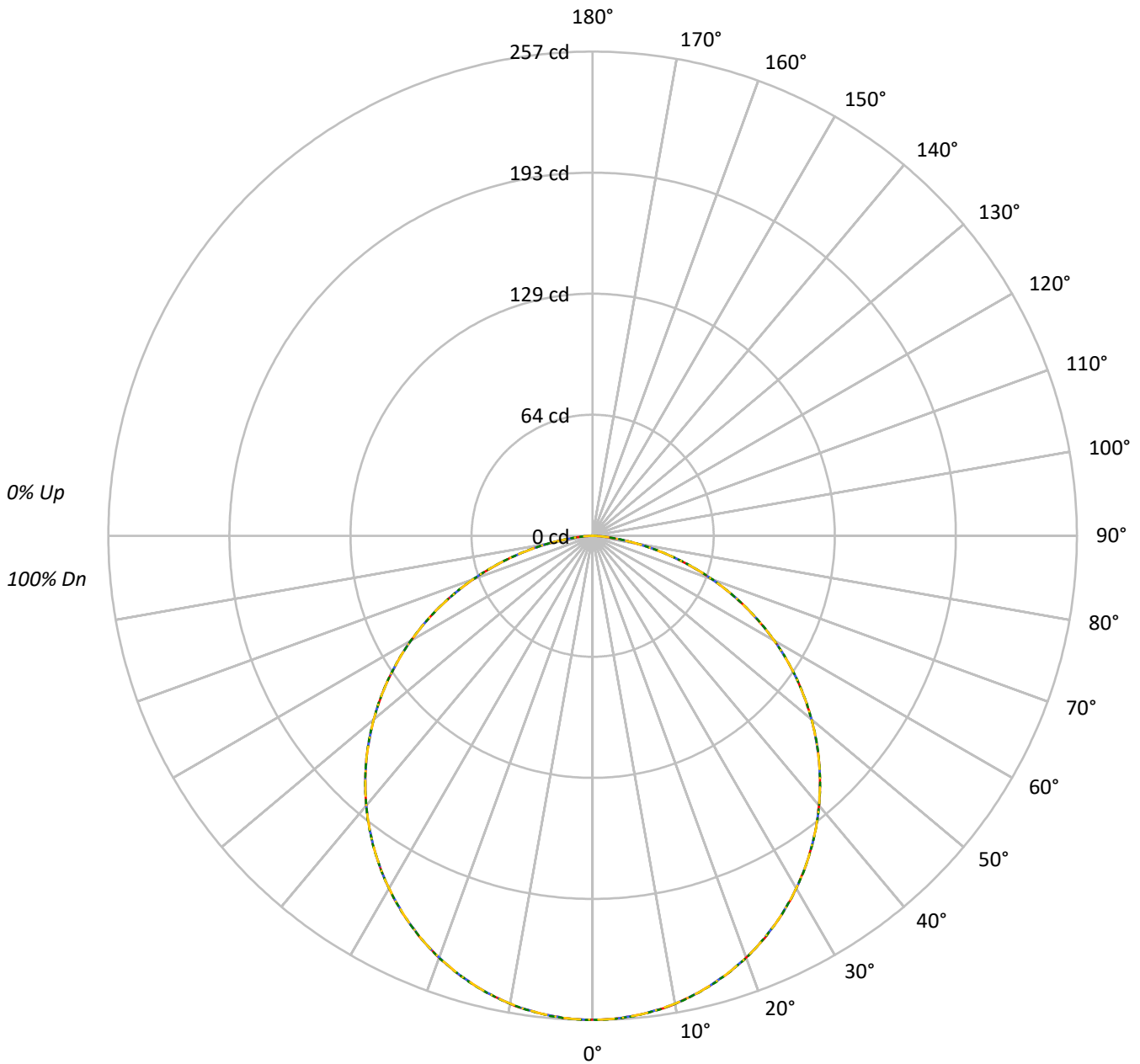
Lumens per Lamp: N/A
Luminaire Lumens: 720.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
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	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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84								
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72	70								
3	90	80	72	65	88	78	71	65	75	69	63	73	67	62	70	65	61	59								
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50								
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44								
6	70	57	48	41	68	56	47	41	54	47	41	52	46	41	51	45	40	38								
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34								
8	61	47	38	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	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	32331	32331	32331	32331
5°	32303	32328	32303	32328
10°	32229	32242	32229	32242
15°	32090	32103	32090	32103
20°	31915	31928	31915	31928
25°	31674	31688	31674	31688
30°	31403	31403	31403	31403
35°	31080	31096	31080	31096
40°	30705	30721	30705	30721
45°	30239	30256	30239	30256
50°	29681	29701	29681	29701
55°	28962	29006	28962	29006
60°	28014	28065	28014	28065
65°	26682	26741	26682	26741
70°	24764	24837	24764	24837
75°	21881	21930	21881	21930
80°	17249	17394	17249	17394
85°	10108	10252	10108	10252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 30256 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.3	3.4
10°-20°	69.5	9.7
20°-30°	105.1	14.6
30°-40°	126.5	17.6
40°-50°	131.0	18.2
50°-60°	117.9	16.4
60°-70°	88.6	12.3
70°-80°	47.6	6.6
80°-90°	9.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	198.9	27.6
0°-40°	325.4	45.2
0°-60°	574.3	79.8
0°-90°	720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	720.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	257	257	257	257	257	
5°	256	256	256	256	256	24
15°	246	246	246	246	246	70
25°	228	228	228	228	228	105
35°	202	202	202	202	202	127
45°	170	170	170	170	170	131
55°	132	132	132	132	132	118
65°	90	90	90	90	90	89
75°	45	45	45	45	45	48
85°	7	7	7	7	7	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9
0.5°	257.0	257.0	256.9	256.8	257.0	256.8	256.9	257.0	257.0	257.0	256.9
1°	256.9	256.9	256.9	256.8	257.0	256.8	256.9	256.9	256.9	256.9	256.9
1.5°	256.8	256.8	256.8	256.7	256.9	256.7	256.8	256.8	256.8	256.8	256.8
2°	256.7	256.7	256.7	256.6	256.8	256.6	256.7	256.7	256.7	256.7	256.7
2.5°	256.6	256.6	256.6	256.5	256.7	256.5	256.6	256.6	256.6	256.6	256.6
3°	256.5	256.5	256.5	256.4	256.6	256.4	256.5	256.5	256.5	256.5	256.5
3.5°	256.4	256.3	256.3	256.2	256.5	256.2	256.3	256.3	256.4	256.3	256.3
4°	256.1	256.2	256.1	256.0	256.2	256.0	256.1	256.2	256.1	256.2	256.1
4.5°	255.9	256.0	255.9	255.8	256.0	255.8	255.9	256.0	255.9	256.0	255.9
5°	255.7	255.7	255.6	255.6	255.9	255.6	255.6	255.7	255.7	255.7	255.6
5.5°	255.5	255.5	255.4	255.4	255.6	255.4	255.4	255.5	255.5	255.5	255.4
6°	255.2	255.2	255.2	255.1	255.3	255.1	255.2	255.2	255.2	255.2	255.2
6.5°	254.9	254.8	254.9	254.8	255.0	254.8	254.9	254.8	254.9	254.8	254.9
7°	254.6	254.5	254.5	254.4	254.6	254.4	254.5	254.5	254.6	254.5	254.5
7.5°	254.2	254.2	254.1	254.0	254.3	254.0	254.1	254.2	254.2	254.2	254.1
8°	253.9	253.9	253.9	253.8	254.0	253.8	253.9	253.9	253.9	253.9	253.9
8.5°	253.6	253.5	253.5	253.4	253.6	253.4	253.5	253.5	253.6	253.5	253.5
9°	253.2	253.1	253.0	253.0	253.1	253.0	253.0	253.1	253.2	253.1	253.0
9.5°	252.8	252.6	252.6	252.5	252.7	252.5	252.6	252.6	252.8	252.6	252.6
10°	252.2	252.2	252.1	252.0	252.3	252.0	252.1	252.2	252.2	252.2	252.1
10.5°	251.7	251.7	251.6	251.5	251.8	251.5	251.6	251.7	251.7	251.7	251.6
11°	251.1	251.2	251.1	251.1	251.3	251.1	251.1	251.2	251.1	251.2	251.1
11.5°	250.6	250.6	250.6	250.5	250.7	250.5	250.6	250.6	250.6	250.6	250.6
12°	250.1	250.0	250.0	249.9	250.1	249.9	250.0	250.0	250.1	250.0	250.0
12.5°	249.5	249.4	249.4	249.3	249.5	249.3	249.4	249.4	249.5	249.4	249.4
13°	249.0	248.9	248.9	248.8	249.0	248.8	248.9	248.9	249.0	248.9	248.9
13.5°	248.3	248.4	248.3	248.2	248.4	248.2	248.3	248.4	248.3	248.4	248.3
14°	247.6	247.7	247.6	247.5	247.7	247.5	247.6	247.7	247.6	247.7	247.6
14.5°	247.0	247.0	247.0	246.8	247.1	246.8	247.0	247.0	247.0	247.0	247.0
15°	246.3	246.2	246.2	246.2	246.4	246.2	246.2	246.2	246.3	246.2	246.2
15.5°	245.5	245.5	245.5	245.4	245.7	245.4	245.5	245.5	245.5	245.5	245.5
16°	244.8	244.8	244.8	244.7	244.8	244.7	244.8	244.8	244.8	244.8	244.8
16.5°	244.2	244.2	244.1	244.0	244.1	244.0	244.1	244.2	244.2	244.2	244.1
17°	243.4	243.4	243.3	243.2	243.3	243.2	243.3	243.4	243.4	243.4	243.3
17.5°	242.6	242.6	242.5	242.4	242.6	242.4	242.5	242.6	242.6	242.6	242.5
18°	241.7	241.7	241.6	241.6	241.8	241.6	241.6	241.7	241.7	241.7	241.6
18.5°	240.9	240.8	240.7	240.7	240.9	240.7	240.7	240.8	240.9	240.8	240.7
19°	240.0	240.0	239.9	239.8	240.0	239.8	239.9	240.0	240.0	240.0	239.9
19.5°	239.2	239.2	239.1	239.0	239.2	239.0	239.1	239.2	239.2	239.2	239.1
20°	238.3	238.3	238.2	238.1	238.4	238.1	238.2	238.3	238.3	238.3	238.2
20.5°	237.4	237.3	237.3	237.2	237.4	237.2	237.3	237.3	237.4	237.3	237.3
21°	236.4	236.4	236.3	236.3	236.5	236.3	236.3	236.4	236.4	236.4	236.3



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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°	233.5	233.4	233.5	233.3	233.5	233.3	233.5	233.4	233.5	233.4	233.5
23°	232.5	232.4	232.4	232.3	232.4	232.3	232.4	232.4	232.5	232.4	232.4
23.5°	231.5	231.4	231.3	231.2	231.4	231.2	231.3	231.4	231.5	231.4	231.3
24°	230.3	230.2	230.2	230.2	230.3	230.2	230.2	230.2	230.3	230.2	230.2
24.5°	229.2	229.2	229.2	229.2	229.3	229.2	229.2	229.2	229.2	229.2	229.2
25°	228.1	228.1	228.1	228.0	228.2	228.0	228.1	228.1	228.1	228.1	228.1
25.5°	227.0	227.0	227.0	226.9	227.1	226.9	227.0	227.0	227.0	227.0	227.0
26°	225.9	225.9	225.8	225.8	225.9	225.8	225.8	225.9	225.9	225.9	225.8
26.5°	224.9	224.8	224.7	224.7	224.8	224.7	224.7	224.8	224.9	224.8	224.7
27°	223.6	223.6	223.5	223.5	223.6	223.5	223.5	223.6	223.6	223.6	223.5
27.5°	222.3	222.3	222.3	222.3	222.4	222.3	222.3	222.3	222.3	222.3	222.3
28°	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1
28.5°	220.0	219.9	219.9	219.9	220.0	219.9	219.9	219.9	220.0	219.9	219.9
29°	218.7	218.6	218.6	218.6	218.7	218.6	218.6	218.6	218.7	218.6	218.6
29.5°	217.4	217.4	217.3	217.3	217.4	217.3	217.3	217.4	217.4	217.4	217.3
30°	216.1	216.1	216.0	216.0	216.1	216.0	216.0	216.1	216.1	216.1	216.0
30.5°	214.9	214.8	214.8	214.8	214.9	214.8	214.8	214.8	214.9	214.8	214.8
31°	213.5	213.4	213.5	213.4	213.5	213.4	213.5	213.4	213.5	213.4	213.5
31.5°	212.1	212.1	212.1	212.0	212.2	212.0	212.1	212.1	212.1	212.1	212.1
32°	210.8	210.8	210.8	210.8	210.9	210.8	210.8	210.8	210.8	210.8	210.8
32.5°	209.5	209.4	209.4	209.4	209.6	209.4	209.4	209.4	209.5	209.4	209.4
33°	208.1	208.0	208.0	208.0	208.1	208.0	208.0	208.0	208.1	208.0	208.0
33.5°	206.6	206.5	206.6	206.5	206.7	206.5	206.6	206.5	206.6	206.5	206.6
34°	205.2	205.2	205.2	205.2	205.3	205.2	205.2	205.2	205.2	205.2	205.2
34.5°	203.7	203.7	203.7	203.7	203.9	203.7	203.7	203.7	203.7	203.7	203.7
35°	202.3	202.2	202.2	202.2	202.4	202.2	202.2	202.2	202.3	202.2	202.2
35.5°	200.9	200.8	200.8	200.8	201.0	200.8	200.8	200.8	200.9	200.8	200.8
36°	199.4	199.3	199.3	199.3	199.4	199.3	199.3	199.3	199.4	199.3	199.3
36.5°	197.8	197.8	197.8	197.8	197.9	197.8	197.8	197.8	197.8	197.8	197.8
37°	196.3	196.3	196.3	196.3	196.5	196.3	196.3	196.3	196.3	196.3	196.3
37.5°	194.8	194.7	194.8	194.7	194.9	194.7	194.8	194.7	194.8	194.7	194.8
38°	193.2	193.2	193.2	193.1	193.3	193.1	193.2	193.2	193.2	193.2	193.2
38.5°	191.8	191.7	191.7	191.6	191.8	191.6	191.7	191.7	191.8	191.7	191.7
39°	190.1	190.1	190.1	190.0	190.2	190.0	190.1	190.1	190.1	190.1	190.1
39.5°	188.4	188.5	188.5	188.4	188.5	188.4	188.5	188.5	188.4	188.5	188.5
40°	186.9	186.9	186.9	186.9	187.0	186.9	186.9	186.9	186.9	186.9	186.9
40.5°	185.2	185.2	185.2	185.2	185.3	185.2	185.2	185.2	185.2	185.2	185.2
41°	183.6	183.5	183.5	183.5	183.7	183.5	183.5	183.5	183.6	183.5	183.5
41.5°	182.0	182.0	181.9	181.9	182.1	181.9	181.9	182.0	182.0	182.0	181.9
42°	180.3	180.3	180.2	180.2	180.4	180.2	180.2	180.3	180.3	180.3	180.2
42.5°	178.5	178.5	178.5	178.5	178.7	178.5	178.5	178.5	178.5	178.5	178.5
43°	176.9	176.9	176.9	176.8	177.0	176.8	176.9	176.9	176.9	176.9	176.9
43.5°	175.2	175.1	175.1	175.1	175.2	175.1	175.1	175.1	175.2	175.1	175.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	169.9	169.8	169.9	169.9	170.0	169.9	169.9	169.8	169.9	169.8	169.9
45.5°	168.2	168.1	168.2	168.2	168.3	168.2	168.2	168.1	168.2	168.1	168.2
46°	166.5	166.3	166.4	166.3	166.5	166.3	166.4	166.3	166.5	166.3	166.4
46.5°	164.6	164.5	164.5	164.5	164.7	164.5	164.5	164.5	164.6	164.5	164.5
47°	162.8	162.8	162.7	162.7	162.9	162.7	162.7	162.8	162.8	162.8	162.7
47.5°	160.9	160.9	160.9	160.9	161.0	160.9	160.9	160.9	160.9	160.9	160.9
48°	159.0	159.0	159.0	159.0	159.2	159.0	159.0	159.0	159.0	159.0	159.0
48.5°	157.2	157.2	157.2	157.2	157.4	157.2	157.2	157.2	157.2	157.2	157.2
49°	155.3	155.3	155.3	155.3	155.5	155.3	155.3	155.3	155.3	155.3	155.3
49.5°	153.5	153.5	153.5	153.5	153.6	153.5	153.5	153.5	153.5	153.5	153.5
50°	151.6	151.6	151.6	151.6	151.7	151.6	151.6	151.6	151.6	151.6	151.6
50.5°	149.6	149.6	149.6	149.6	149.7	149.6	149.6	149.6	149.6	149.6	149.6
51°	147.8	147.8	147.8	147.8	147.9	147.8	147.8	147.8	147.8	147.8	147.8
51.5°	145.8	145.8	145.8	145.8	145.9	145.8	145.8	145.8	145.8	145.8	145.8
52°	144.0	144.0	144.0	143.9	144.1	143.9	144.0	144.0	144.0	144.0	144.0
52.5°	141.9	141.9	142.0	141.9	142.1	141.9	142.0	141.9	141.9	141.9	142.0
53°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
53.5°	138.1	138.0	138.0	138.0	138.1	138.0	138.0	138.0	138.1	138.0	138.0
54°	136.1	136.0	136.0	136.0	136.1	136.0	136.0	136.0	136.1	136.0	136.0
54.5°	134.1	134.0	134.1	134.1	134.2	134.1	134.1	134.0	134.1	134.0	134.1
55°	132.0	132.0	132.0	132.0	132.2	132.0	132.0	132.0	132.0	132.0	132.0
55.5°	130.1	130.0	130.0	130.0	130.2	130.0	130.0	130.0	130.1	130.0	130.0
56°	127.9	127.9	128.0	127.9	128.1	127.9	128.0	127.9	127.9	127.9	128.0
56.5°	125.8	125.9	125.9	125.9	126.0	125.9	125.9	125.9	125.8	125.9	125.9
57°	123.9	123.9	123.8	123.8	124.0	123.8	123.8	123.9	123.9	123.9	123.8
57.5°	121.8	121.7	121.7	121.8	121.9	121.8	121.7	121.7	121.8	121.7	121.7
58°	119.7	119.7	119.7	119.7	119.9	119.7	119.7	119.7	119.7	119.7	119.7
58.5°	117.6	117.6	117.6	117.6	117.7	117.6	117.6	117.6	117.6	117.6	117.6
59°	115.6	115.6	115.6	115.6	115.7	115.6	115.6	115.6	115.6	115.6	115.6
59.5°	113.4	113.4	113.4	113.4	113.5	113.4	113.4	113.4	113.4	113.4	113.4
60°	111.3	111.3	111.3	111.3	111.5	111.3	111.3	111.3	111.3	111.3	111.3
60.5°	109.2	109.1	109.2	109.2	109.3	109.2	109.2	109.1	109.2	109.1	109.2
61°	107.0	107.0	107.0	107.0	107.1	107.0	107.0	107.0	107.0	107.0	107.0
61.5°	104.9	104.9	104.9	104.9	105.0	104.9	104.9	104.9	104.9	104.9	104.9
62°	102.7	102.7	102.7	102.7	102.8	102.7	102.7	102.7	102.7	102.7	102.7
62.5°	100.6	100.6	100.6	100.6	100.7	100.6	100.6	100.6	100.6	100.6	100.6
63°	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.3	98.3	98.3	98.4
63.5°	96.2	96.2	96.2	96.3	96.3	96.3	96.2	96.2	96.2	96.2	96.2
64°	94.0	94.0	94.0	94.0	94.1	94.0	94.0	94.0	94.0	94.0	94.0
64.5°	91.9	91.9	91.9	91.9	92.0	91.9	91.9	91.9	91.9	91.9	91.9
65°	89.6	89.6	89.7	89.6	89.8	89.6	89.7	89.6	89.6	89.6	89.7
65.5°	87.4	87.4	87.5	87.5	87.6	87.5	87.5	87.4	87.4	87.4	87.5
66°	85.1	85.2	85.2	85.2	85.3	85.2	85.2	85.2	85.1	85.2	85.2



TEST NUMBER: P869792
 CATALOG NUMBER: HLBSL406FS5-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	78.5	78.5	78.5	78.6	78.7	78.6	78.5	78.5	78.5	78.5	78.5
68°	76.3	76.3	76.3	76.4	76.5	76.4	76.3	76.3	76.3	76.3	76.3
68.5°	74.0	74.0	74.1	74.1	74.2	74.1	74.1	74.0	74.0	74.0	74.1
69°	71.8	71.8	71.9	71.9	72.0	71.9	71.9	71.8	71.8	71.8	71.9
69.5°	69.5	69.5	69.6	69.6	69.7	69.6	69.6	69.5	69.5	69.5	69.6
70°	67.3	67.3	67.4	67.4	67.5	67.4	67.4	67.3	67.3	67.3	67.4
70.5°	65.0	65.0	65.1	65.1	65.2	65.1	65.1	65.0	65.0	65.0	65.1
71°	62.8	62.9	62.9	62.9	63.0	62.9	62.9	62.9	62.8	62.9	62.9
71.5°	60.5	60.5	60.6	60.6	60.7	60.6	60.6	60.5	60.5	60.5	60.6
72°	58.3	58.3	58.4	58.4	58.5	58.4	58.4	58.3	58.3	58.3	58.4
72.5°	56.0	56.0	56.1	56.1	56.2	56.1	56.1	56.0	56.0	56.0	56.1
73°	53.8	53.8	53.9	53.9	54.0	53.9	53.9	53.8	53.8	53.8	53.9
73.5°	51.5	51.6	51.6	51.7	51.7	51.7	51.6	51.6	51.5	51.6	51.6
74°	49.4	49.4	49.4	49.5	49.6	49.5	49.4	49.4	49.4	49.4	49.4
74.5°	47.1	47.2	47.2	47.2	47.3	47.2	47.2	47.2	47.1	47.2	47.2
75°	45.0	45.0	45.0	45.1	45.1	45.1	45.0	45.0	45.0	45.0	45.0
75.5°	42.7	42.7	42.8	42.8	42.9	42.8	42.8	42.7	42.7	42.7	42.8
76°	40.5	40.5	40.5	40.6	40.7	40.6	40.5	40.5	40.5	40.5	40.5
76.5°	38.3	38.3	38.4	38.5	38.8	38.5	38.4	38.3	38.3	38.3	38.4
77°	36.2	36.3	36.2	36.3	36.6	36.3	36.2	36.3	36.2	36.3	36.2
77.5°	34.1	34.2	34.2	34.2	34.5	34.2	34.2	34.2	34.1	34.2	34.2
78°	32.0	32.0	32.1	32.0	32.3	32.0	32.1	32.0	32.0	32.0	32.1
78.5°	30.0	30.0	30.0	30.0	30.1	30.0	30.0	30.0	30.0	30.0	30.0
79°	27.9	27.9	27.9	27.9	28.1	27.9	27.9	27.9	27.9	27.9	27.9
79.5°	25.9	25.9	25.9	26.0	26.1	26.0	25.9	25.9	25.9	25.9	25.9
80°	23.8	23.8	23.9	24.0	24.0	24.0	23.9	23.8	23.8	23.8	23.9
80.5°	21.9	21.9	21.9	22.0	22.0	22.0	21.9	21.9	21.9	21.9	21.9
81°	20.0	20.0	20.1	20.1	20.2	20.1	20.1	20.0	20.0	20.0	20.1
81.5°	18.1	18.1	18.2	18.2	18.3	18.2	18.2	18.1	18.1	18.1	18.2
82°	16.3	16.3	16.4	16.5	16.5	16.5	16.4	16.3	16.3	16.3	16.4
82.5°	14.6	14.6	14.6	14.7	14.7	14.7	14.6	14.6	14.6	14.6	14.6
83°	12.8	12.8	12.9	13.0	13.0	13.0	12.9	12.8	12.8	12.8	12.9
83.5°	11.2	11.3	11.4	11.4	11.5	11.4	11.4	11.3	11.2	11.3	11.4
84°	9.7	9.7	9.8	9.9	9.9	9.9	9.8	9.7	9.7	9.7	9.8
84.5°	8.3	8.3	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.3	8.4
85°	7.0	7.0	7.1	7.1	7.1	7.1	7.1	7.0	7.0	7.0	7.1
85.5°	5.7	5.7	5.7	5.8	6.0	5.8	5.7	5.7	5.7	5.7	5.7
86°	4.4	4.5	4.6	4.7	4.9	4.7	4.6	4.5	4.4	4.5	4.6
86.5°	3.5	3.4	3.5	3.6	3.8	3.6	3.5	3.4	3.5	3.4	3.5
87°	2.6	2.5	2.6	2.6	2.8	2.6	2.6	2.5	2.6	2.5	2.6
87.5°	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9
88°	1.2	1.1	1.2	1.3	1.3	1.3	1.2	1.1	1.2	1.1	1.2
88.5°	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.6	0.6	0.6	0.7



TEST NUMBER: P869792
CATALOG NUMBER: HLBSL406FS5-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P869792

CATALOG NUMBER: HLBSL406FS5-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	256.9	256.9	256.9	256.9	256.9	256.9
0.5°	256.8	257.0	256.8	256.9	257.0	257.0
1°	256.8	257.0	256.8	256.9	256.9	256.9
1.5°	256.7	256.9	256.7	256.8	256.8	256.8
2°	256.6	256.8	256.6	256.7	256.7	256.7
2.5°	256.5	256.7	256.5	256.6	256.6	256.6
3°	256.4	256.6	256.4	256.5	256.5	256.5
3.5°	256.2	256.5	256.2	256.3	256.3	256.4
4°	256.0	256.2	256.0	256.1	256.2	256.1
4.5°	255.8	256.0	255.8	255.9	256.0	255.9
5°	255.6	255.9	255.6	255.6	255.7	255.7
5.5°	255.4	255.6	255.4	255.4	255.5	255.5
6°	255.1	255.3	255.1	255.2	255.2	255.2
6.5°	254.8	255.0	254.8	254.9	254.8	254.9
7°	254.4	254.6	254.4	254.5	254.5	254.6
7.5°	254.0	254.3	254.0	254.1	254.2	254.2
8°	253.8	254.0	253.8	253.9	253.9	253.9
8.5°	253.4	253.6	253.4	253.5	253.5	253.6
9°	253.0	253.1	253.0	253.0	253.1	253.2
9.5°	252.5	252.7	252.5	252.6	252.6	252.8
10°	252.0	252.3	252.0	252.1	252.2	252.2
10.5°	251.5	251.8	251.5	251.6	251.7	251.7
11°	251.1	251.3	251.1	251.1	251.2	251.1
11.5°	250.5	250.7	250.5	250.6	250.6	250.6
12°	249.9	250.1	249.9	250.0	250.0	250.1
12.5°	249.3	249.5	249.3	249.4	249.4	249.5
13°	248.8	249.0	248.8	248.9	248.9	249.0
13.5°	248.2	248.4	248.2	248.3	248.4	248.3
14°	247.5	247.7	247.5	247.6	247.7	247.6
14.5°	246.8	247.1	246.8	247.0	247.0	247.0
15°	246.2	246.4	246.2	246.2	246.2	246.3
15.5°	245.4	245.7	245.4	245.5	245.5	245.5
16°	244.7	244.8	244.7	244.8	244.8	244.8
16.5°	244.0	244.1	244.0	244.1	244.2	244.2
17°	243.2	243.3	243.2	243.3	243.4	243.4
17.5°	242.4	242.6	242.4	242.5	242.6	242.6
18°	241.6	241.8	241.6	241.6	241.7	241.7
18.5°	240.7	240.9	240.7	240.7	240.8	240.9
19°	239.8	240.0	239.8	239.9	240.0	240.0
19.5°	239.0	239.2	239.0	239.1	239.2	239.2
20°	238.1	238.4	238.1	238.2	238.3	238.3
20.5°	237.2	237.4	237.2	237.3	237.3	237.4
21°	236.3	236.5	236.3	236.3	236.4	236.4



TEST NUMBER: P869792
 CATALOG NUMBER: HLBSL406FS5-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	233.3	233.5	233.3	233.5	233.4	233.5
23°	232.3	232.4	232.3	232.4	232.4	232.5
23.5°	231.2	231.4	231.2	231.3	231.4	231.5
24°	230.2	230.3	230.2	230.2	230.2	230.3
24.5°	229.2	229.3	229.2	229.2	229.2	229.2
25°	228.0	228.2	228.0	228.1	228.1	228.1
25.5°	226.9	227.1	226.9	227.0	227.0	227.0
26°	225.8	225.9	225.8	225.8	225.9	225.9
26.5°	224.7	224.8	224.7	224.7	224.8	224.9
27°	223.5	223.6	223.5	223.5	223.6	223.6
27.5°	222.3	222.4	222.3	222.3	222.3	222.3
28°	221.1	221.1	221.1	221.1	221.1	221.1
28.5°	219.9	220.0	219.9	219.9	219.9	220.0
29°	218.6	218.7	218.6	218.6	218.6	218.7
29.5°	217.3	217.4	217.3	217.3	217.4	217.4
30°	216.0	216.1	216.0	216.0	216.1	216.1
30.5°	214.8	214.9	214.8	214.8	214.8	214.9
31°	213.4	213.5	213.4	213.5	213.4	213.5
31.5°	212.0	212.2	212.0	212.1	212.1	212.1
32°	210.8	210.9	210.8	210.8	210.8	210.8
32.5°	209.4	209.6	209.4	209.4	209.4	209.5
33°	208.0	208.1	208.0	208.0	208.0	208.1
33.5°	206.5	206.7	206.5	206.6	206.5	206.6
34°	205.2	205.3	205.2	205.2	205.2	205.2
34.5°	203.7	203.9	203.7	203.7	203.7	203.7
35°	202.2	202.4	202.2	202.2	202.2	202.3
35.5°	200.8	201.0	200.8	200.8	200.8	200.9
36°	199.3	199.4	199.3	199.3	199.3	199.4
36.5°	197.8	197.9	197.8	197.8	197.8	197.8
37°	196.3	196.5	196.3	196.3	196.3	196.3
37.5°	194.7	194.9	194.7	194.8	194.7	194.8
38°	193.1	193.3	193.1	193.2	193.2	193.2
38.5°	191.6	191.8	191.6	191.7	191.7	191.8
39°	190.0	190.2	190.0	190.1	190.1	190.1
39.5°	188.4	188.5	188.4	188.5	188.5	188.4
40°	186.9	187.0	186.9	186.9	186.9	186.9
40.5°	185.2	185.3	185.2	185.2	185.2	185.2
41°	183.5	183.7	183.5	183.5	183.5	183.6
41.5°	181.9	182.1	181.9	181.9	182.0	182.0
42°	180.2	180.4	180.2	180.2	180.3	180.3
42.5°	178.5	178.7	178.5	178.5	178.5	178.5
43°	176.8	177.0	176.8	176.9	176.9	176.9
43.5°	175.1	175.2	175.1	175.1	175.1	175.2



TEST NUMBER: P869792
 CATALOG NUMBER: HLBSL406FS5-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	169.9	170.0	169.9	169.9	169.8	169.9
45.5°	168.2	168.3	168.2	168.2	168.1	168.2
46°	166.3	166.5	166.3	166.4	166.3	166.5
46.5°	164.5	164.7	164.5	164.5	164.5	164.6
47°	162.7	162.9	162.7	162.7	162.8	162.8
47.5°	160.9	161.0	160.9	160.9	160.9	160.9
48°	159.0	159.2	159.0	159.0	159.0	159.0
48.5°	157.2	157.4	157.2	157.2	157.2	157.2
49°	155.3	155.5	155.3	155.3	155.3	155.3
49.5°	153.5	153.6	153.5	153.5	153.5	153.5
50°	151.6	151.7	151.6	151.6	151.6	151.6
50.5°	149.6	149.7	149.6	149.6	149.6	149.6
51°	147.8	147.9	147.8	147.8	147.8	147.8
51.5°	145.8	145.9	145.8	145.8	145.8	145.8
52°	143.9	144.1	143.9	144.0	144.0	144.0
52.5°	141.9	142.1	141.9	142.0	141.9	141.9
53°	140.0	140.0	140.0	140.0	140.0	140.0
53.5°	138.0	138.1	138.0	138.0	138.0	138.1
54°	136.0	136.1	136.0	136.0	136.0	136.1
54.5°	134.1	134.2	134.1	134.1	134.0	134.1
55°	132.0	132.2	132.0	132.0	132.0	132.0
55.5°	130.0	130.2	130.0	130.0	130.0	130.1
56°	127.9	128.1	127.9	128.0	127.9	127.9
56.5°	125.9	126.0	125.9	125.9	125.9	125.8
57°	123.8	124.0	123.8	123.8	123.9	123.9
57.5°	121.8	121.9	121.8	121.7	121.7	121.8
58°	119.7	119.9	119.7	119.7	119.7	119.7
58.5°	117.6	117.7	117.6	117.6	117.6	117.6
59°	115.6	115.7	115.6	115.6	115.6	115.6
59.5°	113.4	113.5	113.4	113.4	113.4	113.4
60°	111.3	111.5	111.3	111.3	111.3	111.3
60.5°	109.2	109.3	109.2	109.2	109.1	109.2
61°	107.0	107.1	107.0	107.0	107.0	107.0
61.5°	104.9	105.0	104.9	104.9	104.9	104.9
62°	102.7	102.8	102.7	102.7	102.7	102.7
62.5°	100.6	100.7	100.6	100.6	100.6	100.6
63°	98.4	98.4	98.4	98.4	98.3	98.3
63.5°	96.3	96.3	96.3	96.2	96.2	96.2
64°	94.0	94.1	94.0	94.0	94.0	94.0
64.5°	91.9	92.0	91.9	91.9	91.9	91.9
65°	89.6	89.8	89.6	89.7	89.6	89.6
65.5°	87.5	87.6	87.5	87.5	87.4	87.4
66°	85.2	85.3	85.2	85.2	85.2	85.1



TEST NUMBER: P869792
 CATALOG NUMBER: HLBSL406FS5-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	78.6	78.7	78.6	78.5	78.5	78.5
68°	76.4	76.5	76.4	76.3	76.3	76.3
68.5°	74.1	74.2	74.1	74.1	74.0	74.0
69°	71.9	72.0	71.9	71.9	71.8	71.8
69.5°	69.6	69.7	69.6	69.6	69.5	69.5
70°	67.4	67.5	67.4	67.4	67.3	67.3
70.5°	65.1	65.2	65.1	65.1	65.0	65.0
71°	62.9	63.0	62.9	62.9	62.9	62.8
71.5°	60.6	60.7	60.6	60.6	60.5	60.5
72°	58.4	58.5	58.4	58.4	58.3	58.3
72.5°	56.1	56.2	56.1	56.1	56.0	56.0
73°	53.9	54.0	53.9	53.9	53.8	53.8
73.5°	51.7	51.7	51.7	51.6	51.6	51.5
74°	49.5	49.6	49.5	49.4	49.4	49.4
74.5°	47.2	47.3	47.2	47.2	47.2	47.1
75°	45.1	45.1	45.1	45.0	45.0	45.0
75.5°	42.8	42.9	42.8	42.8	42.7	42.7
76°	40.6	40.7	40.6	40.5	40.5	40.5
76.5°	38.5	38.8	38.5	38.4	38.3	38.3
77°	36.3	36.6	36.3	36.2	36.3	36.2
77.5°	34.2	34.5	34.2	34.2	34.2	34.1
78°	32.0	32.3	32.0	32.1	32.0	32.0
78.5°	30.0	30.1	30.0	30.0	30.0	30.0
79°	27.9	28.1	27.9	27.9	27.9	27.9
79.5°	26.0	26.1	26.0	25.9	25.9	25.9
80°	24.0	24.0	24.0	23.9	23.8	23.8
80.5°	22.0	22.0	22.0	21.9	21.9	21.9
81°	20.1	20.2	20.1	20.1	20.0	20.0
81.5°	18.2	18.3	18.2	18.2	18.1	18.1
82°	16.5	16.5	16.5	16.4	16.3	16.3
82.5°	14.7	14.7	14.7	14.6	14.6	14.6
83°	13.0	13.0	13.0	12.9	12.8	12.8
83.5°	11.4	11.5	11.4	11.4	11.3	11.2
84°	9.9	9.9	9.9	9.8	9.7	9.7
84.5°	8.4	8.4	8.4	8.4	8.3	8.3
85°	7.1	7.1	7.1	7.1	7.0	7.0
85.5°	5.8	6.0	5.8	5.7	5.7	5.7
86°	4.7	4.9	4.7	4.6	4.5	4.4
86.5°	3.6	3.8	3.6	3.5	3.4	3.5
87°	2.6	2.8	2.6	2.6	2.5	2.6
87.5°	1.9	2.0	1.9	1.9	1.9	1.9
88°	1.3	1.3	1.3	1.2	1.1	1.2
88.5°	0.8	0.8	0.8	0.7	0.6	0.6



TEST NUMBER: P869792
CATALOG NUMBER: HLBSL406FS5-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	235.4	235.4	235.4	235.2	235.5	235.2	235.4	235.4	235.4	235.4	235.4
22°	234.5	234.5	234.5	234.4	234.5	234.4	234.5	234.5	234.5	234.5	234.5



44°	173.4	173.3	173.4	173.3	173.5	173.3	173.4	173.3	173.4	173.3	173.4
44.5°	171.7	171.6	171.7	171.6	171.8	171.6	171.7	171.6	171.7	171.6	171.7



66.5°	83.0	83.0	83.0	83.1	83.1	83.1	83.0	83.0	83.0	83.0	83.0
67°	80.7	80.7	80.8	80.8	80.9	80.8	80.8	80.7	80.7	80.7	80.8



89°	0.2	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.2	0.3	0.3
89.5°	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.2

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21.5°	235.2	235.5	235.2	235.4	235.4	235.4
22°	234.4	234.5	234.4	234.5	234.5	234.5



44°	173.3	173.5	173.3	173.4	173.3	173.4
44.5°	171.6	171.8	171.6	171.7	171.6	171.7

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66.5°	83.1	83.1	83.1	83.0	83.0	83.0
67°	80.8	80.9	80.8	80.8	80.7	80.7

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89°	0.4	0.5	0.4	0.3	0.3	0.2
89.5°	0.2	0.3	0.2	0.2	0.1	0.1

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(END OF REPORT)