

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P855588

Luminaire Tested: **HLS6099FS1EWH-2700K**

Issue Date: 7/16/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P855588
 Test Lab:
 Issue Date: 7/16/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: HLS6099FS1EWH-2700K
 Description: 6IN 900LM, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: 925.48 (1 lamp)
 Luminaire Lumens: 900.0 lumens
 Efficiency: 97.2%
 Efficacy: 84.1 lumens/watt
 Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
 Luminous Opening: Circular (Dia: 0.5' x H: 0')
 CIE Type: Direct

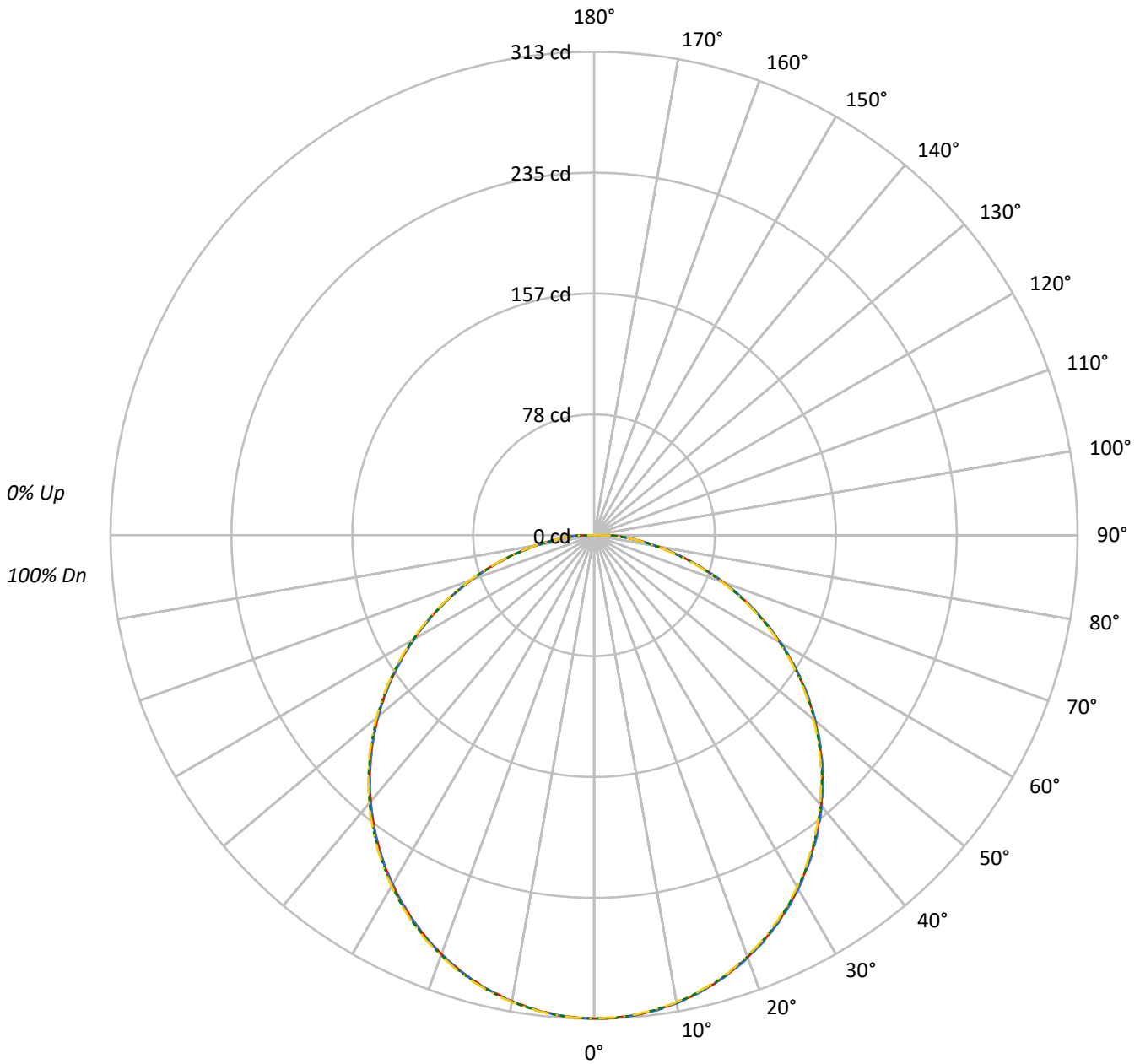
Input Watts (W): 10.7
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



Meas		Calibration Due Date	
Instrument	Identificatio		
Photometer	GONIO 1 11111111	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

TEST NUMBER: P855588
CATALOG NUMBER: HLS6099FS1EWH-2700K

Luminous Intensity Polar Plot



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



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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	50	30	10	0
RCR																					
0	116	116	116	116	113	113	113	113	108	108	108	103	103	103	99	99	99	99	99	99	97
1	105	101	96	92	103	98	94	91	94	91	88	90	88	85	87	85	83	87	85	83	81
2	96	87	81	75	93	86	79	74	82	77	72	79	74	71	76	72	69	76	72	69	67
3	87	77	69	62	85	75	68	62	72	66	60	69	64	59	67	62	58	67	62	58	56
4	80	68	59	53	77	67	58	52	64	57	51	62	56	51	60	54	50	60	54	50	48
5	73	61	52	45	71	59	51	45	57	50	44	55	49	44	54	48	43	54	48	43	41
6	68	55	46	39	66	54	45	39	52	44	39	50	44	38	49	43	38	49	43	38	36
7	63	49	41	35	61	49	40	35	47	40	34	46	39	34	44	38	34	44	38	34	32
8	58	45	37	31	57	44	36	31	43	36	31	42	35	30	41	35	30	41	35	30	28
9	55	41	33	28	53	41	33	28	40	33	28	39	32	27	38	32	27	38	32	27	26
10	51	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17153	17153	17153	17153
5°	17153	17136	17114	17131
10°	17112	17101	17045	17062
15°	17066	17049	16958	17004
20°	16965	16930	16836	16871
25°	16846	16822	16695	16755
30°	16718	16667	16509	16579
35°	16550	16517	16323	16376
40°	16381	16323	16102	16166
45°	16172	16126	15847	15932
50°	15923	15863	15547	15641
55°	15636	15598	15197	15292
60°	15284	15229	14769	14878
65°	14814	14762	14243	14308
70°	14249	14153	13560	13560
75°	13598	13492	12772	12687
80°	13133	12849	12123	11807
85°	14718	13901	13083	12454

TEST NUMBER: P855588
 CATALOG NUMBER: HLS6099FS1EWH-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	29.6	3.3	3.2
10°-20°	84.6	9.4	9.1
20°-30°	127.8	14.2	13.8
30°-40°	153.7	17.1	16.6
40°-50°	159.3	17.7	17.2
50°-60°	144.2	16.0	15.6
60°-70°	110.7	12.3	12.0
70°-80°	65.7	7.3	7.1
80°-90°	24.2	2.7	2.6
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	242.0	26.9	26.1
0°-40°	395.7	44.0	42.8
0°-60°	699.3	77.7	75.6
0°-90°	900.0	100.0	97.2
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	900.0	100.0	97.2

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	313	313	313	313	313	
5°	312	311	311	311	312	30
15°	301	300	299	300	301	85
25°	278	278	276	277	278	128
35°	247	247	244	245	247	155
45°	209	208	204	206	209	161
55°	164	163	159	160	164	146
65°	114	114	110	110	114	113
75°	64	64	60	60	64	68
85°	23	22	21	20	23	26
90°	0	0	0	0	0	

TEST NUMBER: P855588
 CATALOG NUMBER: HLS6099FS1EWH-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	312.9	312.9	312.9	312.9	312.9	312.9	312.9	312.9	312.9	312.9	312.9
0.5°	312.9	313.0	313.0	313.2	312.8	313.0	313.0	312.9	312.8	312.7	312.7
1°	312.9	312.7	313.1	313.4	312.9	313.2	312.8	312.9	312.7	312.8	312.9
1.5°	312.9	312.6	312.8	313.1	312.8	313.0	312.4	312.7	312.6	312.4	312.7
2°	312.7	312.7	312.8	312.8	312.7	312.7	312.6	312.8	312.6	312.3	312.5
2.5°	312.8	312.6	312.7	313.0	312.8	312.9	312.5	312.6	312.3	312.5	312.4
3°	312.4	312.5	312.6	312.8	312.3	312.7	312.3	312.6	312.0	312.1	312.1
3.5°	312.2	312.4	312.4	312.6	312.1	312.3	312.1	312.0	312.0	311.9	311.9
4°	312.2	312.0	312.3	312.7	312.1	312.3	311.8	311.9	311.8	311.7	311.8
4.5°	312.0	311.7	312.0	312.1	311.8	312.0	311.4	312.0	311.5	311.1	311.4
5°	311.7	311.6	311.9	311.9	311.4	311.6	311.5	311.5	311.0	310.9	311.0
5.5°	311.5	311.4	311.5	311.9	311.3	311.5	310.9	311.1	310.6	310.9	310.9
6°	311.0	311.1	311.1	311.2	310.9	310.9	310.5	311.0	310.3	310.2	310.3
6.5°	310.6	310.7	310.7	310.9	310.4	310.7	310.3	310.2	310.2	309.9	309.9
7°	310.3	310.3	310.5	310.9	310.2	310.4	309.8	310.2	309.5	309.4	309.5
7.5°	310.1	309.9	310.2	310.1	309.7	309.7	309.3	309.7	309.0	308.7	309.1
8°	309.5	309.5	309.8	309.6	309.1	309.3	309.1	309.2	308.7	308.3	308.6
8.5°	308.9	309.0	309.3	309.3	308.9	309.0	308.5	308.8	307.9	308.1	308.3
9°	308.6	308.6	308.6	308.8	308.3	308.3	307.9	308.2	307.4	307.5	307.6
9.5°	307.9	308.1	308.2	308.1	307.5	308.0	307.7	307.3	307.1	306.9	306.9
10°	307.4	307.4	307.8	308.0	307.2	307.2	306.9	307.3	306.2	306.1	306.4
10.5°	306.9	306.9	307.2	306.9	306.7	306.6	306.1	306.4	305.8	305.5	305.9
11°	306.2	306.3	306.5	306.4	305.9	306.2	305.9	305.8	305.3	305.0	305.1
11.5°	305.6	305.7	305.9	306.0	305.5	305.5	305.1	305.1	304.2	304.2	304.4
12°	305.2	305.2	305.1	305.3	304.8	304.7	304.3	304.4	303.5	303.6	303.8
12.5°	304.1	304.5	304.5	304.4	303.8	304.3	303.7	303.8	303.1	302.9	303.0
13°	303.5	303.6	303.9	304.1	303.3	303.1	302.9	302.9	302.1	302.0	302.2
13.5°	302.9	302.9	303.1	303.1	302.6	302.4	302.0	302.3	301.4	301.5	301.6
14°	302.1	302.5	302.3	302.2	301.7	301.9	301.6	301.6	300.9	300.4	300.6
14.5°	301.4	301.4	301.7	301.8	301.0	301.1	300.6	300.5	299.6	299.6	299.8
15°	300.7	300.8	300.6	300.9	300.4	300.2	299.8	300.0	298.8	299.1	299.1
15.5°	299.5	299.9	299.7	299.8	299.2	299.2	298.8	298.9	298.2	297.9	298.0
16°	298.7	298.9	299.1	299.2	298.4	298.3	297.9	298.0	297.0	296.8	297.1
16.5°	297.9	298.0	298.2	298.1	297.6	297.7	296.9	297.2	296.1	296.2	296.2
17°	297.0	297.4	297.2	297.1	296.5	296.5	296.4	296.1	295.2	295.1	295.0
17.5°	295.9	296.0	296.4	296.5	295.7	295.8	295.2	295.2	293.9	293.9	294.1
18°	294.9	295.3	295.3	295.3	294.5	294.6	294.1	294.2	292.7	293.1	293.2
18.5°	293.9	294.3	294.2	294.2	293.3	293.4	293.0	293.1	292.1	291.8	292.0
19°	292.8	293.1	293.3	293.3	292.7	292.6	292.0	292.2	290.9	290.6	290.8
19.5°	291.8	291.9	292.3	292.2	291.4	291.4	291.0	290.9	289.7	289.8	289.8
20°	290.8	291.2	291.0	291.0	290.2	290.4	289.9	289.8	288.6	288.6	288.9
20.5°	289.6	289.9	290.0	290.1	289.3	289.4	288.6	288.8	287.4	287.3	287.6
21°	288.5	288.8	288.9	288.8	288.0	287.9	287.6	287.5	286.1	286.5	286.4
21.5°	287.4	287.7	287.5	287.7	286.9	286.9	286.5	286.6	285.2	285.0	285.3
22°	286.1	286.5	286.5	286.7	285.9	285.9	285.2	285.1	283.9	283.6	283.9

TEST NUMBER: P855588
 CATALOG NUMBER: HLS6099FS1EWH-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	284.9	285.1	285.4	285.2	284.4	284.5	284.0	283.9	282.5	282.8	282.7
23°	283.9	284.3	284.1	284.0	283.3	283.2	282.7	282.9	281.3	281.4	281.6
23.5°	282.5	283.0	283.0	283.0	282.0	282.0	281.5	281.3	280.0	279.9	280.2
24°	281.2	281.5	281.7	281.6	280.7	280.6	280.4	280.2	278.4	278.7	278.6
24.5°	280.0	280.3	280.0	280.4	279.2	279.5	278.7	278.8	277.2	277.1	277.5
25°	278.5	279.0	278.9	278.9	278.1	277.9	277.3	277.2	276.0	275.8	276.0
25.5°	277.1	277.3	277.7	277.3	276.6	276.6	276.3	276.1	274.5	274.8	274.5
26°	275.9	276.1	276.1	276.2	275.3	275.5	274.6	274.7	273.1	273.1	273.2
26.5°	274.3	274.8	275.0	274.8	273.8	273.7	273.2	273.3	271.5	271.6	271.8
27°	272.9	273.2	273.4	273.2	272.4	272.3	272.1	271.9	270.0	270.3	270.3
27.5°	271.6	272.0	271.9	272.1	271.1	271.2	270.4	270.2	268.7	268.8	269.1
28°	270.2	270.7	270.6	270.5	269.6	269.4	268.9	269.1	267.2	267.1	267.3
28.5°	268.5	268.7	269.1	268.7	268.0	268.0	267.6	267.4	265.6	265.8	265.6
29°	267.3	267.4	267.6	267.5	266.7	266.5	265.9	265.7	264.1	264.0	264.3
29.5°	265.6	266.0	266.2	266.0	264.9	264.8	264.4	264.4	262.3	262.6	262.7
30°	264.1	264.3	264.4	264.3	263.3	263.3	263.1	262.6	260.8	261.0	261.0
30.5°	262.4	262.7	262.7	262.8	261.8	262.0	261.1	261.0	259.2	259.2	259.4
31°	260.8	261.3	261.3	261.0	260.4	260.1	259.6	259.6	257.6	257.5	257.9
31.5°	259.0	259.3	259.7	259.4	258.6	258.6	258.1	257.8	256.0	256.2	256.0
32°	257.7	257.9	257.9	258.0	257.2	256.9	256.4	256.2	254.5	254.3	254.5
32.5°	256.0	256.4	256.4	256.3	255.3	255.1	254.7	254.7	252.6	252.7	252.9
33°	254.3	254.5	254.7	254.6	253.6	253.4	253.2	252.8	250.8	250.9	251.0
33.5°	252.6	252.7	253.1	253.1	252.1	251.9	251.2	251.3	249.2	249.1	249.3
34°	250.9	251.4	251.4	251.2	250.3	250.1	249.6	249.4	247.3	247.3	247.7
34.5°	249.0	249.2	249.6	249.4	248.5	248.3	247.8	247.6	245.7	245.8	245.6
35°	247.3	247.6	247.7	247.7	246.8	246.3	246.0	245.9	243.9	243.7	243.8
35.5°	245.7	246.0	246.1	245.9	245.0	244.8	244.2	244.0	242.1	242.1	242.3
36°	243.8	244.1	244.1	244.2	243.2	243.0	242.6	242.4	240.2	240.4	240.3
36.5°	242.0	242.2	242.5	242.4	241.4	241.2	240.6	240.5	238.5	238.4	238.5
37°	240.3	240.6	240.8	240.5	239.5	239.6	238.9	238.6	236.5	236.4	236.7
37.5°	238.2	238.4	238.8	238.8	237.8	237.5	237.1	236.9	234.6	234.7	234.6
38°	236.4	236.7	236.9	236.9	235.8	235.4	235.2	234.7	232.7	232.7	232.7
38.5°	234.6	234.9	235.0	235.0	233.8	233.8	233.2	232.9	230.9	230.8	230.9
39°	232.6	232.9	233.0	233.2	232.1	231.8	231.3	231.3	228.8	228.9	228.8
39.5°	230.6	230.8	231.2	231.0	230.2	229.8	229.2	229.0	227.0	226.9	227.0
40°	228.9	229.2	229.3	229.2	228.1	228.0	227.6	227.2	225.0	224.8	225.2
40.5°	226.7	227.1	227.2	227.5	226.4	226.0	225.6	225.2	222.9	223.1	223.0
41°	224.8	225.1	225.5	225.2	224.2	223.9	223.5	223.1	221.0	220.9	220.9
41.5°	222.9	223.2	223.3	223.4	222.2	222.2	221.5	221.3	219.1	218.9	219.1
42°	220.9	221.2	221.2	221.5	220.3	220.0	219.5	219.2	216.9	217.0	217.0
42.5°	218.8	219.1	219.4	219.1	218.2	217.8	217.4	217.3	214.8	214.7	214.9
43°	216.9	217.2	217.3	217.3	216.1	216.0	215.5	215.1	212.9	212.7	213.0
43.5°	214.7	214.9	215.0	215.3	214.3	213.8	213.5	213.1	210.7	210.8	210.7
44°	212.7	212.8	213.3	213.1	212.1	211.7	211.3	211.2	208.6	208.6	208.5
44.5°	210.5	210.9	211.0	211.1	209.9	209.7	209.3	208.9	206.6	206.4	206.7

TEST NUMBER: P855588
 CATALOG NUMBER: HLS6099FS1EWH-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	208.6	209.0	208.9	209.1	208.0	207.6	207.3	206.9	204.4	204.4	204.4
45.5°	206.3	206.6	207.0	206.8	205.8	205.5	204.9	204.8	202.2	202.2	202.2
46°	204.3	204.6	204.6	204.9	203.6	203.3	203.0	202.4	200.2	199.8	200.1
46.5°	202.1	202.4	202.6	202.6	201.5	201.1	200.8	200.5	198.1	198.0	197.9
47°	199.9	200.1	200.5	200.4	199.2	199.0	198.7	198.4	195.7	195.7	195.7
47.5°	197.8	198.1	198.3	198.4	197.2	197.1	196.5	196.1	193.6	193.5	193.6
48°	195.7	195.9	196.2	196.2	195.1	194.7	194.4	194.0	191.5	191.3	191.3
48.5°	193.3	193.6	193.9	193.8	192.7	192.5	191.9	191.6	189.1	189.1	189.0
49°	191.2	191.5	191.7	191.8	190.6	190.2	189.9	189.5	186.9	186.6	186.9
49.5°	189.1	189.3	189.6	189.5	188.3	188.0	187.7	187.3	184.7	184.6	184.4
50°	186.7	186.8	187.2	187.3	186.0	185.8	185.4	185.0	182.3	182.2	182.2
50.5°	184.3	184.6	184.8	184.8	184.0	183.7	183.2	182.8	180.1	180.0	180.0
51°	182.2	182.5	182.7	182.6	181.7	181.3	181.0	180.4	178.0	177.8	177.8
51.5°	179.9	180.1	180.5	180.5	179.3	179.1	178.4	178.2	175.5	175.4	175.5
52°	177.7	177.9	178.1	178.2	177.2	176.7	176.3	175.9	173.1	172.9	173.1
52.5°	175.4	175.5	176.0	175.9	174.7	174.3	174.0	173.5	170.9	170.8	170.7
53°	172.9	173.1	173.5	173.7	172.3	172.1	171.7	171.3	168.6	168.4	168.4
53.5°	170.6	170.8	171.1	171.1	170.1	169.7	169.4	168.9	166.3	166.1	166.1
54°	168.4	168.6	168.9	168.9	167.7	167.4	167.2	166.5	163.9	163.7	163.7
54.5°	166.1	166.2	166.4	166.7	165.5	165.2	164.5	164.3	161.5	161.2	161.3
55°	163.6	163.9	164.1	164.2	163.2	162.6	162.5	161.8	159.0	158.8	158.9
55.5°	161.3	161.4	161.8	161.8	160.5	160.3	160.0	159.5	156.6	156.6	156.5
56°	158.7	158.9	159.2	159.5	158.1	158.0	157.5	157.0	154.5	154.1	154.0
56.5°	156.4	156.6	156.9	156.9	155.9	155.5	155.1	154.7	151.8	151.7	151.6
57°	154.1	154.3	154.7	154.6	153.5	153.2	152.8	152.3	149.4	149.3	149.1
57.5°	151.6	151.8	152.1	152.4	151.2	150.8	150.2	149.9	147.1	146.8	146.8
58°	149.1	149.4	149.7	149.8	148.5	148.2	148.0	147.4	144.6	144.4	144.4
58.5°	146.8	146.9	147.3	147.3	146.1	145.8	145.6	145.0	142.0	142.0	141.7
59°	144.2	144.4	144.7	145.0	143.8	143.4	143.0	142.4	139.7	139.5	139.2
59.5°	141.7	142.0	142.3	142.4	141.3	140.9	140.6	140.1	137.2	137.0	136.9
60°	139.4	139.6	140.0	140.0	138.9	138.5	138.1	137.7	134.7	134.5	134.4
60.5°	136.9	137.1	137.4	137.6	136.4	136.0	135.6	135.1	132.3	131.9	131.9
61°	134.4	134.6	134.9	135.0	133.8	133.5	133.2	132.7	129.8	129.5	129.4
61.5°	132.0	132.0	132.4	132.6	131.4	131.1	130.7	130.1	127.2	127.1	126.8
62°	129.3	129.6	129.9	130.1	128.9	128.6	128.2	127.6	124.8	124.5	124.3
62.5°	126.8	127.1	127.4	127.5	126.3	126.0	125.6	125.3	122.3	121.9	122.0
63°	124.3	124.6	125.0	125.1	123.9	123.6	123.2	122.7	119.8	119.5	119.3
63.5°	122.0	122.1	122.4	122.6	121.4	121.1	120.6	120.2	117.2	116.9	116.7
64°	119.4	119.6	119.9	120.0	118.8	118.5	118.2	117.6	114.7	114.4	114.3
64.5°	116.8	117.0	117.2	117.5	116.2	116.0	115.5	115.1	112.1	111.9	111.7
65°	114.2	114.4	114.7	115.0	113.8	113.4	113.1	112.6	109.8	109.4	109.1
65.5°	111.7	111.9	112.3	112.4	111.2	110.9	110.6	110.2	107.3	106.9	106.7
66°	109.2	109.5	109.8	109.9	108.8	108.5	108.1	107.6	104.6	104.3	104.0
66.5°	106.7	106.9	107.2	107.4	106.1	105.8	105.5	105.1	102.1	101.7	101.4
67°	104.1	104.3	104.7	104.8	103.5	103.3	103.0	102.5	99.7	99.2	99.0

TEST NUMBER: P855588
 CATALOG NUMBER: HLS6099FS1EWH-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	101.5	101.7	102.0	102.2	101.1	100.8	100.4	100.0	97.0	96.7	96.4
68°	99.0	99.2	99.5	99.7	98.5	98.1	97.9	97.4	94.6	94.3	93.9
68.5°	96.5	96.7	97.1	97.1	95.9	95.8	95.5	95.0	92.1	91.7	91.4
69°	93.9	94.2	94.6	94.6	93.5	93.2	92.8	92.5	89.5	89.1	88.8
69.5°	91.5	91.6	92.0	92.1	90.9	90.6	90.3	89.9	87.0	86.7	86.2
70°	88.9	89.0	89.4	89.5	88.3	88.2	87.9	87.4	84.6	84.2	83.8
70.5°	86.4	86.5	86.9	87.0	85.9	85.6	85.3	85.0	82.1	81.7	81.3
71°	83.8	84.0	84.3	84.4	83.4	83.1	82.8	82.5	79.7	79.3	78.9
71.5°	81.2	81.5	81.8	81.8	80.9	80.7	80.5	80.1	77.2	76.8	76.4
72°	78.9	79.1	79.4	79.5	78.4	78.2	78.0	77.6	74.7	74.3	74.0
72.5°	76.4	76.6	76.8	77.0	75.9	75.7	75.5	75.1	72.2	71.8	71.3
73°	73.9	74.1	74.4	74.4	73.4	73.2	73.0	72.6	69.9	69.4	68.9
73.5°	71.4	71.6	71.9	72.0	71.0	70.7	70.4	70.2	67.3	67.0	66.5
74°	69.0	69.1	69.4	69.5	68.4	68.3	68.1	67.8	65.0	64.7	64.2
74.5°	66.5	66.8	67.0	67.0	66.1	65.9	65.7	65.4	62.7	62.2	61.7
75°	64.2	64.4	64.6	64.7	63.7	63.4	63.3	63.0	60.3	59.9	59.3
75.5°	61.9	62.0	62.2	62.2	61.2	61.1	60.9	60.7	58.0	57.5	56.9
76°	59.4	59.6	59.9	59.8	58.8	58.6	58.5	58.3	55.7	55.1	54.6
76.5°	57.1	57.2	57.4	57.4	56.4	56.3	56.1	56.0	53.3	52.9	52.4
77°	54.8	55.0	55.0	55.1	54.1	53.9	53.9	53.7	51.2	50.7	50.1
77.5°	52.5	52.7	52.8	52.7	51.8	51.6	51.6	51.5	49.0	48.4	47.8
78°	50.3	50.5	50.6	50.6	49.5	49.5	49.4	49.3	46.8	46.2	45.7
78.5°	48.2	48.2	48.3	48.3	47.2	47.2	47.1	47.0	44.5	44.1	43.4
79°	45.9	46.1	46.2	46.1	45.1	45.0	44.9	44.9	42.5	42.0	41.3
79.5°	43.8	43.9	43.9	43.9	42.9	42.8	42.7	42.7	40.3	39.8	39.2
80°	41.6	41.8	41.8	41.7	40.7	40.7	40.7	40.6	38.4	37.8	37.2
80.5°	39.6	39.6	39.6	39.6	38.6	38.6	38.6	38.6	36.4	35.9	35.3
81°	37.5	37.6	37.7	37.5	36.6	36.7	36.7	36.7	34.5	34.0	33.3
81.5°	35.7	35.7	35.8	35.6	34.6	34.6	34.6	34.7	32.6	32.0	31.4
82°	33.9	33.9	33.9	33.7	32.7	32.6	32.7	32.8	30.8	30.2	29.5
82.5°	32.1	32.1	32.0	31.9	30.7	30.7	30.8	30.8	28.9	28.4	27.7
83°	30.3	30.3	30.2	30.0	28.8	28.9	29.0	29.1	27.2	26.6	26.0
83.5°	28.4	28.5	28.3	28.1	27.0	27.1	27.2	27.3	25.5	25.0	24.3
84°	26.6	26.6	26.5	26.2	25.3	25.4	25.5	25.6	23.8	23.4	22.7
84.5°	25.0	24.9	24.8	24.6	23.6	23.7	23.8	24.0	22.3	21.9	21.2
85°	23.4	23.4	23.2	22.9	22.1	22.1	22.2	22.4	20.8	20.4	19.7
85.5°	21.9	21.9	21.6	21.4	20.5	20.6	20.7	20.9	19.3	18.9	18.3
86°	20.4	20.4	20.1	19.8	18.9	19.1	19.3	19.5	18.0	17.5	16.9
86.5°	19.0	18.9	18.7	18.3	17.5	17.6	17.9	18.1	16.6	16.2	15.6
87°	17.6	17.6	17.2	16.9	16.1	16.3	16.5	16.7	15.3	14.9	14.4
87.5°	16.3	16.2	15.9	15.6	14.8	15.0	15.2	15.4	14.1	13.7	13.2
88°	15.1	15.0	14.6	14.3	13.6	13.7	14.0	14.2	12.9	12.5	12.1
88.5°	13.8	13.7	13.4	13.1	12.4	12.5	12.8	13.0	11.8	11.4	11.0
89°	12.7	12.5	12.3	11.9	11.3	11.4	11.7	11.9	10.7	10.4	10.0
89.5°	11.5	11.5	11.2	10.8	10.2	10.3	10.6	10.8	9.6	9.5	9.2

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



TEST NUMBER: P855588
CATALOG NUMBER: HLS6099FS1EWH-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: P855588
 CATALOG NUMBER: HLS6099FS1EWH-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	312.9	312.9	312.9	312.9	312.9	312.9
0.5°	313.0	312.9	313.0	312.7	312.8	312.9
1°	312.9	312.8	312.8	312.8	313.0	312.9
1.5°	312.9	312.6	313.1	312.5	312.8	312.9
2°	312.7	312.6	312.8	312.7	312.7	312.7
2.5°	312.6	312.4	312.5	312.4	312.7	312.8
3°	312.5	312.0	312.6	312.3	312.5	312.4
3.5°	312.0	312.0	312.2	312.0	312.2	312.2
4°	311.8	311.8	311.9	312.0	312.1	312.2
4.5°	311.7	311.5	312.0	311.4	311.6	312.0
5°	311.3	311.3	311.4	311.4	311.3	311.7
5.5°	311.1	310.6	311.2	311.0	311.2	311.5
6°	310.9	310.4	310.7	310.6	310.9	311.0
6.5°	310.0	310.2	310.4	310.3	310.3	310.6
7°	309.7	309.7	310.2	309.8	310.2	310.3
7.5°	309.3	309.3	309.5	309.3	309.4	310.1
8°	308.7	308.8	309.2	309.1	309.0	309.5
8.5°	308.4	308.1	308.8	308.4	308.6	308.9
9°	307.9	307.9	308.0	308.1	308.0	308.6
9.5°	307.1	307.2	307.7	307.5	307.5	307.9
10°	306.5	306.5	307.0	306.7	306.9	307.4
10.5°	306.0	306.1	306.3	306.2	306.0	306.9
11°	305.3	305.4	306.1	305.7	305.8	306.2
11.5°	304.8	304.5	304.9	305.0	305.2	305.6
12°	303.8	304.2	304.2	304.5	304.4	305.2
12.5°	303.1	303.3	303.9	303.5	303.8	304.1
13°	302.7	302.4	302.8	302.7	302.9	303.5
13.5°	301.8	302.0	302.1	302.1	302.1	302.9
14°	300.8	301.0	301.6	301.4	301.6	302.1
14.5°	300.3	300.1	300.4	300.4	300.6	301.4
15°	299.1	299.6	299.7	299.8	299.7	300.7
15.5°	298.3	298.4	298.9	298.7	299.1	299.5
16°	297.5	297.4	298.0	297.8	297.9	298.7
16.5°	296.3	296.8	297.1	297.0	296.9	297.9
17°	295.3	295.6	295.9	295.9	296.2	297.0
17.5°	294.6	294.5	294.9	295.0	295.1	295.9
18°	293.3	293.8	294.2	294.2	294.1	294.9
18.5°	292.1	292.6	293.0	292.8	293.1	293.9
19°	291.3	291.4	291.9	291.8	291.8	292.8
19.5°	290.1	290.4	290.8	290.9	290.8	291.8
20°	288.8	289.2	289.4	289.6	289.8	290.8
20.5°	287.7	288.1	288.5	288.4	288.5	289.6
21°	286.5	287.2	287.4	287.6	287.6	288.5
21.5°	285.5	285.8	286.2	286.2	286.3	287.4
22°	284.1	284.6	285.2	285.0	284.9	286.1

TEST NUMBER: P855588
 CATALOG NUMBER: HLS6099FS1EWH-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	282.8	283.3	283.6	283.9	283.9	284.9
23°	281.8	282.0	282.2	282.5	282.5	283.9
23.5°	280.2	280.8	281.4	281.2	281.3	282.5
24°	278.9	279.4	279.7	280.0	280.0	281.2
24.5°	277.6	278.1	278.4	278.4	278.3	280.0
25°	276.2	277.0	277.1	277.1	277.2	278.5
25.5°	274.9	275.0	275.6	275.9	275.9	277.1
26°	273.3	273.8	274.3	274.4	274.2	275.9
26.5°	271.8	272.6	272.7	272.8	273.0	274.3
27°	270.7	271.2	271.5	271.5	271.6	272.9
27.5°	268.9	269.5	270.1	270.0	270.0	271.6
28°	267.4	268.3	268.3	268.6	268.8	270.2
28.5°	266.1	266.5	266.9	267.0	267.1	268.5
29°	264.3	264.9	265.4	265.4	265.5	267.3
29.5°	262.6	263.4	263.7	264.0	264.0	265.6
30°	261.3	261.9	262.2	262.3	262.2	264.1
30.5°	259.4	260.2	260.6	260.6	260.7	262.4
31°	257.9	258.7	258.8	259.1	259.2	260.8
31.5°	256.3	257.2	257.5	257.6	257.5	259.0
32°	254.4	255.3	255.6	255.8	256.0	257.7
32.5°	252.8	253.5	253.8	254.3	254.2	256.0
33°	251.3	251.9	252.4	252.4	252.4	254.3
33.5°	249.4	250.2	250.4	250.5	250.8	252.6
34°	247.7	248.5	248.6	248.9	248.9	250.9
34.5°	245.9	246.8	247.1	247.3	247.2	249.0
35°	244.1	244.7	245.1	245.3	245.6	247.3
35.5°	242.4	243.0	243.2	243.7	243.4	245.7
36°	240.6	241.4	241.6	241.8	241.7	243.8
36.5°	238.7	239.5	239.6	239.8	240.2	242.0
37°	237.0	237.5	237.8	238.2	238.1	240.3
37.5°	234.8	235.8	236.0	236.1	236.3	238.2
38°	233.0	233.7	233.9	234.2	234.4	236.4
38.5°	231.2	231.8	232.1	232.6	232.3	234.6
39°	229.1	229.9	230.2	230.4	230.4	232.6
39.5°	227.3	228.0	228.2	228.4	228.6	230.6
40°	225.3	225.9	226.3	226.7	226.5	228.9
40.5°	223.1	224.2	224.2	224.6	224.6	226.7
41°	221.2	221.9	222.2	222.5	222.7	224.8
41.5°	219.3	219.8	220.3	220.6	220.5	222.9
42°	217.0	218.1	218.0	218.4	218.6	220.9
42.5°	215.1	215.9	216.0	216.3	216.6	218.8
43°	212.9	213.7	214.1	214.4	214.3	216.9
43.5°	210.7	211.9	212.0	212.3	212.5	214.7
44°	208.9	209.6	209.9	210.3	210.3	212.7
44.5°	206.7	207.5	207.8	208.2	208.2	210.5

TEST NUMBER: P855588

CATALOG NUMBER: HLS6099FS1EWH-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	204.4	205.5	205.5	205.9	206.1	208.6
45.5°	202.4	203.2	203.4	203.8	203.8	206.3
46°	200.1	201.2	201.3	201.7	201.7	204.3
46.5°	198.1	199.1	199.1	199.5	199.6	202.1
47°	195.8	196.8	197.2	197.4	197.4	199.9
47.5°	193.6	194.6	194.7	195.0	195.3	197.8
48°	191.4	192.4	192.5	192.9	193.0	195.7
48.5°	189.1	190.2	190.3	190.8	190.8	193.3
49°	186.8	187.9	188.1	188.4	188.6	191.2
49.5°	184.7	185.6	185.8	186.1	186.2	189.1
50°	182.3	183.4	183.6	184.0	184.2	186.7
50.5°	180.1	181.2	181.2	181.6	181.9	184.3
51°	177.9	178.9	179.1	179.3	179.5	182.2
51.5°	175.4	176.5	176.6	177.1	177.3	179.9
52°	173.1	174.2	174.4	174.6	174.9	177.7
52.5°	170.9	171.8	172.1	172.4	172.5	175.4
53°	168.4	169.5	169.6	170.1	170.2	172.9
53.5°	166.2	167.2	167.3	167.6	167.9	170.6
54°	163.8	164.8	165.1	165.3	165.5	168.4
54.5°	161.3	162.4	162.6	163.0	163.1	166.1
55°	159.0	160.0	160.3	160.5	160.7	163.6
55.5°	156.6	157.6	157.8	158.1	158.3	161.3
56°	154.1	155.1	155.3	155.8	155.9	158.7
56.5°	151.8	152.8	153.0	153.2	153.5	156.4
57°	149.2	150.4	150.6	150.9	151.2	154.1
57.5°	146.8	147.9	148.1	148.4	148.5	151.6
58°	144.4	145.4	145.6	145.9	146.2	149.1
58.5°	141.9	143.0	143.2	143.4	143.8	146.8
59°	139.4	140.5	140.6	141.0	141.1	144.2
59.5°	137.1	138.1	138.2	138.5	138.9	141.7
60°	134.4	135.7	135.8	136.1	136.4	139.4
60.5°	131.9	133.0	133.2	133.5	133.7	136.9
61°	129.5	130.5	130.7	131.1	131.3	134.4
61.5°	126.9	128.0	128.1	128.5	128.9	132.0
62°	124.4	125.4	125.6	125.9	126.2	129.3
62.5°	121.8	122.9	123.2	123.4	123.8	126.8
63°	119.2	120.6	120.7	121.0	121.4	124.3
63.5°	116.8	117.9	118.0	118.3	118.7	122.0
64°	114.2	115.3	115.5	115.9	116.2	119.4
64.5°	111.6	112.7	112.9	113.3	113.6	116.8
65°	109.2	110.3	110.5	110.7	111.1	114.2
65.5°	106.6	107.7	107.8	108.2	108.6	111.7
66°	104.0	105.2	105.3	105.7	106.1	109.2
66.5°	101.5	102.5	102.8	103.0	103.4	106.7
67°	98.8	99.9	100.2	100.6	100.9	104.1

TEST NUMBER: P855588
 CATALOG NUMBER: HLS6099FS1EWH-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	96.3	97.4	97.6	97.9	98.4	101.5
68°	93.9	94.9	95.3	95.4	95.8	99.0
68.5°	91.2	92.4	92.6	93.0	93.3	96.5
69°	88.6	89.8	90.1	90.4	90.8	93.9
69.5°	86.2	87.2	87.4	87.8	88.2	91.5
70°	83.7	84.6	84.9	85.3	85.8	88.9
70.5°	81.2	82.1	82.3	82.7	83.1	86.4
71°	78.7	79.6	79.9	80.3	80.8	83.8
71.5°	76.2	77.0	77.4	77.8	78.2	81.2
72°	73.7	74.6	74.9	75.3	75.7	78.9
72.5°	71.1	72.1	72.3	72.7	73.3	76.4
73°	68.7	69.6	69.8	70.3	70.8	73.9
73.5°	66.3	67.0	67.3	67.7	68.3	71.4
74°	63.8	64.6	65.0	65.4	66.0	69.0
74.5°	61.4	62.3	62.6	63.0	63.6	66.5
75°	59.0	59.9	60.1	60.6	61.2	64.2
75.5°	56.6	57.4	57.8	58.2	58.8	61.9
76°	54.2	55.1	55.4	55.9	56.5	59.4
76.5°	51.9	52.7	53.0	53.5	54.1	57.1
77°	49.7	50.5	50.9	51.3	51.9	54.8
77.5°	47.4	48.2	48.6	49.1	49.7	52.5
78°	45.3	46.0	46.3	46.9	47.4	50.3
78.5°	43.0	43.8	44.1	44.7	45.3	48.2
79°	40.9	41.6	41.9	42.5	43.1	45.9
79.5°	38.7	39.5	39.8	40.3	41.0	43.8
80°	36.8	37.4	37.7	38.3	38.9	41.6
80.5°	34.8	35.5	35.8	36.4	36.9	39.6
81°	32.9	33.7	33.9	34.5	34.9	37.5
81.5°	30.9	31.8	32.0	32.7	33.1	35.7
82°	29.1	29.9	30.2	30.8	31.3	33.9
82.5°	27.2	28.0	28.3	29.0	29.5	32.1
83°	25.5	26.1	26.5	27.1	27.7	30.3
83.5°	23.9	24.5	24.8	25.3	26.0	28.4
84°	22.2	22.8	23.1	23.7	24.4	26.6
84.5°	20.7	21.4	21.6	22.1	22.8	25.0
85°	19.3	19.8	20.1	20.7	21.3	23.4
85.5°	17.8	18.4	18.6	19.2	19.8	21.9
86°	16.5	17.0	17.2	17.8	18.4	20.4
86.5°	15.2	15.7	15.9	16.4	17.0	19.0
87°	14.0	14.4	14.6	15.1	15.7	17.6
87.5°	12.8	13.2	13.4	13.9	14.5	16.3
88°	11.7	12.1	12.3	12.7	13.3	15.1
88.5°	10.6	11.0	11.2	11.6	12.2	13.8
89°	9.6	10.0	10.1	10.6	11.1	12.7
89.5°	8.8	9.0	9.2	9.6	10.1	11.5

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269


NVLAP Lab Code: 200050-0



TEST NUMBER: P855588
CATALOG NUMBER: HLS6099FS1EWH-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

(END OF REPORT)