

Scaled data based on original data using
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: P522098

Luminaire Tested: **RLLV6069SE010WHDM-2700K-UNIT**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1809075B001)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RLLV6069SE010WHDM-2700K-UNIT
Description: Surface Mount Downlight Fixture, Single Unit
Light Source: (72) 2700K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

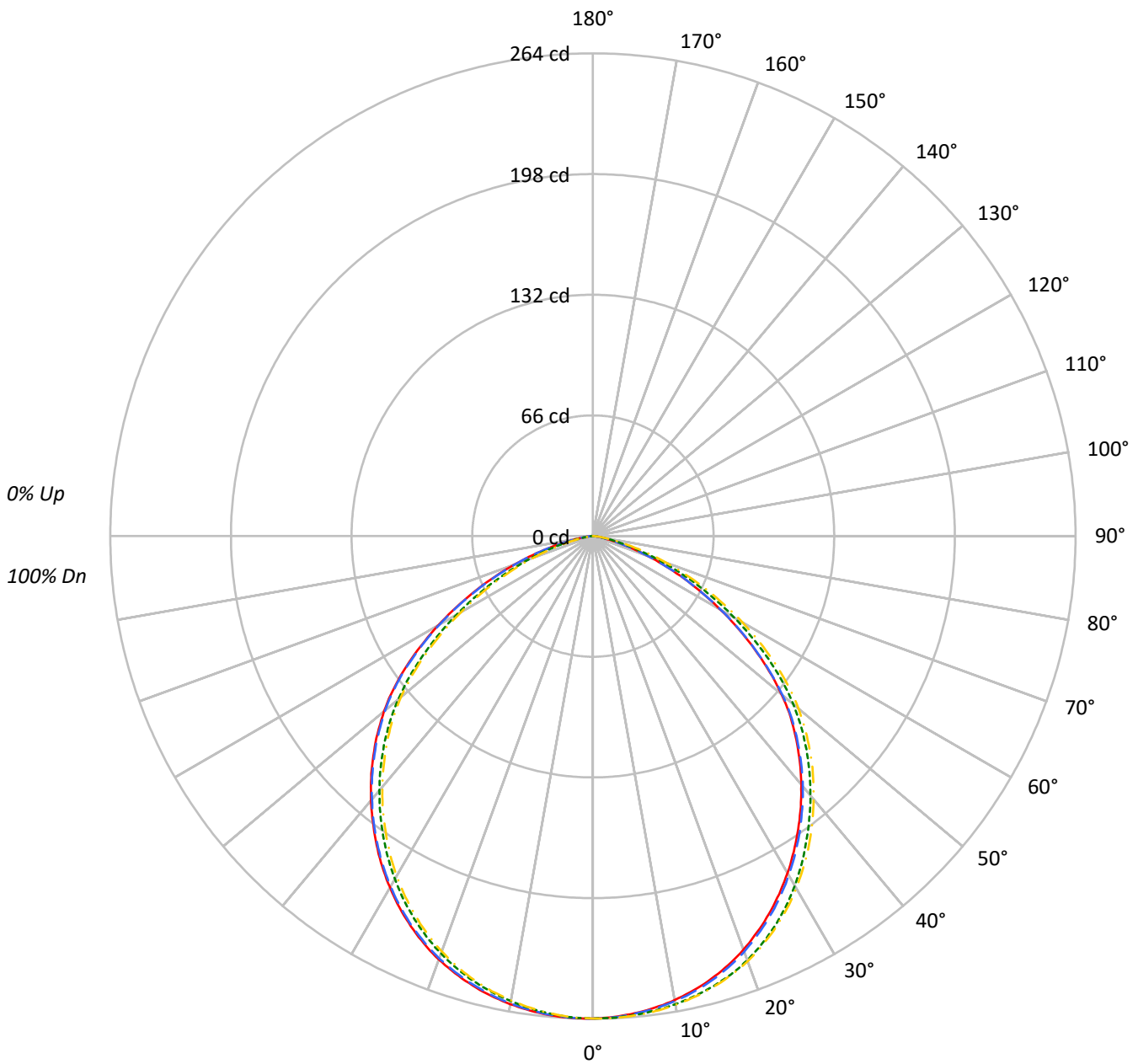
Lumens per Lamp: 706.09 (72 lamps)
Luminaire Lumens: 645.0 lumens
Efficiency: 1.3%
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 6.7
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: 25 FT



TEST NUMBER: P522098
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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	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
8	1	1	1	0	1	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	0
9	1	1	0	0	1	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0
10	1	1	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14467	14467	14467	14467
5°	14412	14467	14478	14434
10°	14340	14473	14473	14378
15°	14223	14467	14438	14302
20°	14042	14404	14375	14170
25°	13785	14233	14245	13979
30°	13477	13983	14040	13711
35°	13104	13626	13806	13385
40°	12695	13246	13518	13003
45°	12195	12808	13164	12528
50°	11488	12204	12725	11855
55°	10332	11202	11928	10819
60°	8848	9802	10723	9462
65°	7147	8133	9197	7874
70°	5209	6219	7373	5995
75°	3156	4067	5147	3876
80°	1610	2115	2904	1989
85°	818	1321	1824	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.0	3.9	0.0
10°-20°	71.4	11.1	0.1
20°-30°	107.0	16.6	0.2
30°-40°	126.0	19.5	0.2
40°-50°	126.0	19.5	0.2
50°-60°	103.4	16.0	0.2
60°-70°	62.1	9.6	0.1
70°-80°	21.5	3.3	0.0
80°-90°	2.6	0.4	0.0
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°	203.4	31.5	0.4
0°-40°	329.3	51.1	0.6
0°-60°	558.8	86.6	1.1
0°-90°	645.0	100.0	1.3
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°	645.0	100.0	1.3

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	264	264	264	264	264	
5°	262	263	263	262	262	25
15°	251	255	254	252	251	71
25°	228	235	236	231	228	105
35°	196	204	206	200	196	122
45°	157	165	170	162	157	121
55°	108	117	125	113	108	96
65°	55	63	71	61	55	55
75°	15	19	24	18	15	17
85°	1	2	3	2	1	2
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°	263.9	263.9	263.9	263.9	263.9	263.9	263.9	263.9	263.9	263.9	263.9
0.5°	263.7	263.7	263.9	264.1	263.8	263.8	263.9	263.9	263.9	263.9	263.9
1°	263.7	263.7	263.8	264.1	263.8	263.9	263.9	263.9	263.9	263.9	263.9
1.5°	263.6	263.5	263.7	264.0	263.7	263.9	263.9	263.9	263.9	263.9	263.9
2°	263.4	263.4	263.6	263.9	263.7	263.8	263.9	263.9	263.9	263.9	263.8
2.5°	263.3	263.2	263.4	263.8	263.7	263.7	263.8	263.9	263.8	263.8	263.7
3°	263.1	263.1	263.3	263.7	263.6	263.7	263.7	263.7	263.7	263.7	263.6
3.5°	262.8	262.9	263.0	263.5	263.4	263.6	263.6	263.7	263.6	263.6	263.4
4°	262.5	262.6	262.8	263.3	263.3	263.5	263.5	263.6	263.5	263.4	263.2
4.5°	262.3	262.3	262.6	263.1	263.1	263.3	263.4	263.4	263.3	263.2	263.1
5°	261.9	262.0	262.3	262.9	262.9	263.1	263.2	263.3	263.1	263.0	262.9
5.5°	261.7	261.8	261.9	262.6	262.8	262.9	263.0	263.0	262.9	262.8	262.7
6°	261.3	261.4	261.7	262.3	262.5	262.7	262.9	262.8	262.7	262.5	262.4
6.5°	261.0	261.1	261.3	261.9	262.3	262.5	262.6	262.5	262.4	262.1	262.1
7°	260.5	260.7	261.0	261.7	261.9	262.1	262.4	262.2	262.1	261.9	261.9
7.5°	260.1	260.3	260.5	261.3	261.7	261.9	262.0	261.9	261.9	261.6	261.5
8°	259.6	259.9	260.2	261.0	261.4	261.6	261.8	261.6	261.5	261.2	261.2
8.5°	259.3	259.4	259.7	260.5	261.1	261.2	261.4	261.3	261.1	260.9	260.8
9°	258.7	258.9	259.3	260.1	260.7	260.9	261.1	260.9	260.8	260.4	260.3
9.5°	258.3	258.4	258.7	259.7	260.3	260.5	260.7	260.4	260.3	260.1	260.0
10°	257.6	257.9	258.3	259.2	260.0	260.2	260.3	260.1	260.0	259.5	259.5
10.5°	257.0	257.4	257.7	258.7	259.5	259.8	259.9	259.5	259.5	259.2	259.1
11°	256.5	256.7	257.1	258.2	259.1	259.3	259.4	259.2	259.1	258.6	258.6
11.5°	255.8	256.1	256.6	257.6	258.6	258.9	259.1	258.6	258.5	258.2	258.2
12°	255.2	255.5	255.9	257.1	258.2	258.4	258.5	258.2	258.1	257.6	257.6
12.5°	254.5	254.9	255.2	256.5	257.6	257.9	258.1	257.6	257.5	257.0	257.0
13°	253.8	254.2	254.6	255.9	257.1	257.4	257.6	257.0	256.9	256.4	256.5
13.5°	253.1	253.5	253.9	255.2	256.6	256.8	257.0	256.4	256.4	255.8	255.8
14°	252.3	252.8	253.2	254.6	256.0	256.3	256.5	255.8	255.8	255.1	255.1
14.5°	251.5	252.0	252.3	253.9	255.4	255.7	255.8	255.1	255.0	254.5	254.5
15°	250.6	251.2	251.6	253.2	254.9	255.0	255.2	254.5	254.4	253.8	253.8
15.5°	249.7	250.3	250.7	252.3	254.1	254.4	254.6	253.8	253.7	253.1	253.2
16°	248.9	249.4	249.9	251.5	253.4	253.7	253.9	253.1	253.0	252.3	252.4
16.5°	248.0	248.5	248.9	250.6	252.8	253.1	253.2	252.3	252.3	251.6	251.7
17°	247.0	247.6	248.0	249.7	252.1	252.3	252.4	251.6	251.5	250.7	250.8
17.5°	246.1	246.6	247.1	248.9	251.3	251.5	251.8	250.8	250.7	250.0	250.1
18°	245.0	245.6	246.1	247.9	250.5	250.6	250.9	250.0	249.9	249.1	249.3
18.5°	244.0	244.5	245.1	246.9	249.6	249.8	250.2	249.1	249.0	248.3	248.5
19°	242.9	243.5	244.0	245.8	248.8	248.9	249.3	248.4	248.2	247.4	247.6
19.5°	241.9	242.4	243.0	244.8	247.8	248.0	248.4	247.4	247.3	246.6	246.7
20°	240.7	241.3	241.9	243.6	246.9	247.1	247.5	246.6	246.4	245.7	245.8
20.5°	239.5	240.1	240.7	242.6	245.9	246.2	246.5	245.6	245.5	244.8	244.8
21°	238.4	239.1	239.5	241.5	244.8	245.2	245.5	244.6	244.5	243.7	243.8
21.5°	237.1	237.7	238.4	240.3	243.7	244.1	244.5	243.6	243.5	242.8	242.8
22°	235.8	236.5	237.1	239.2	242.6	243.0	243.4	242.6	242.4	241.7	241.8



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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°	234.6	235.2	235.8	237.8	241.5	241.9	242.2	241.4	241.3	240.6	240.7
23°	233.3	234.0	234.6	236.7	240.3	240.9	241.1	240.3	240.1	239.4	239.5
23.5°	232.1	232.6	233.3	235.3	239.2	239.6	240.0	239.3	239.2	238.4	238.4
24°	230.7	231.4	232.0	234.0	237.8	238.4	238.9	238.0	237.9	237.2	237.3
24.5°	229.3	230.1	230.6	232.7	236.6	237.1	237.6	236.8	236.7	235.9	236.0
25°	227.9	228.7	229.2	231.4	235.3	235.8	236.4	235.6	235.5	234.7	234.9
25.5°	226.6	227.2	227.9	230.0	234.0	234.5	235.1	234.3	234.2	233.4	233.6
26°	225.1	225.9	226.5	228.6	232.6	233.2	233.8	233.1	233.0	232.2	232.3
26.5°	223.6	224.4	225.0	227.1	231.3	231.8	232.5	231.7	231.7	230.8	231.0
27°	222.1	222.9	223.5	225.6	229.8	230.6	231.1	230.5	230.4	229.5	229.7
27.5°	220.7	221.4	222.0	224.1	228.5	229.1	229.7	229.1	229.0	228.1	228.4
28°	219.1	220.0	220.5	222.6	227.0	227.5	228.4	227.6	227.7	226.9	227.0
28.5°	217.5	218.3	218.9	221.0	225.5	226.1	226.9	226.2	226.3	225.3	225.6
29°	216.0	216.8	217.5	219.5	223.9	224.5	225.4	224.7	224.8	223.9	224.2
29.5°	214.4	215.2	215.8	217.9	222.4	223.0	223.9	223.3	223.4	222.5	222.7
30°	212.9	213.7	214.2	216.3	220.9	221.4	222.5	221.8	221.8	221.1	221.3
30.5°	211.3	212.0	212.6	214.7	219.2	219.9	220.9	220.3	220.5	219.6	219.9
31°	209.6	210.4	211.0	213.1	217.5	218.3	219.2	218.8	219.1	218.1	218.3
31.5°	207.9	208.8	209.3	211.4	215.9	216.6	217.7	217.2	217.5	216.6	216.8
32°	206.2	207.1	207.6	209.7	214.2	214.9	216.1	215.6	215.9	214.9	215.2
32.5°	204.5	205.4	205.9	208.0	212.5	213.1	214.5	214.0	214.3	213.4	213.7
33°	202.8	203.7	204.2	206.3	210.8	211.4	212.9	212.4	212.8	211.8	212.1
33.5°	201.0	202.0	202.4	204.5	209.0	209.7	211.3	210.8	211.2	210.2	210.5
34°	199.3	200.3	200.8	202.7	207.2	207.9	209.6	209.1	209.6	208.6	208.8
34.5°	197.5	198.5	199.0	200.9	205.4	206.1	207.9	207.5	207.9	207.0	207.2
35°	195.8	196.8	197.2	199.2	203.6	204.4	206.1	205.8	206.3	205.3	205.6
35.5°	194.0	195.1	195.4	197.4	201.8	202.5	204.4	204.1	204.6	203.6	203.9
36°	192.2	193.2	193.6	195.5	200.0	200.7	202.6	202.4	202.9	201.9	202.2
36.5°	190.4	191.4	191.7	193.7	198.3	198.9	200.8	200.6	201.1	200.2	200.5
37°	188.6	189.6	189.8	191.8	196.4	197.0	199.0	199.0	199.4	198.4	198.7
37.5°	186.8	187.8	188.1	189.9	194.5	195.2	197.1	197.2	197.6	196.7	197.0
38°	184.9	186.0	186.2	188.0	192.7	193.4	195.3	195.4	195.9	195.0	195.2
38.5°	183.1	184.1	184.4	186.1	190.8	191.5	193.5	193.6	194.1	193.2	193.5
39°	181.2	182.2	182.5	184.3	188.9	189.6	191.6	191.8	192.4	191.4	191.7
39.5°	179.2	180.3	180.5	182.4	187.1	187.8	189.7	189.9	190.6	189.6	189.8
40°	177.4	178.4	178.5	180.4	185.1	185.9	187.8	188.1	188.9	187.8	188.0
40.5°	175.4	176.5	176.7	178.4	183.1	183.9	185.9	186.2	187.0	186.1	186.2
41°	173.5	174.6	174.7	176.5	181.2	181.9	184.0	184.4	185.1	184.2	184.4
41.5°	171.5	172.5	172.7	174.5	179.2	180.0	182.1	182.5	183.3	182.4	182.5
42°	169.5	170.5	170.6	172.4	177.3	178.1	180.2	180.7	181.4	180.5	180.6
42.5°	167.5	168.6	168.7	170.4	175.4	176.1	178.3	178.7	179.5	178.5	178.8
43°	165.5	166.6	166.6	168.4	173.3	174.0	176.4	176.7	177.7	176.7	176.8
43.5°	163.4	164.5	164.4	166.3	171.3	172.1	174.4	174.8	175.7	174.8	174.8
44°	161.4	162.5	162.5	164.3	169.3	170.0	172.3	172.8	173.8	172.8	173.0
44.5°	159.3	160.4	160.3	162.1	167.1	167.9	170.3	170.8	171.8	170.8	170.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	157.3	158.3	158.2	160.0	165.2	165.9	168.2	168.8	169.8	168.9	169.0
45.5°	155.2	156.3	156.1	157.8	163.1	163.9	166.1	166.8	167.8	166.9	166.9
46°	153.0	154.2	153.9	155.7	160.9	161.7	164.1	164.7	165.9	165.0	165.1
46.5°	151.0	152.1	151.8	153.5	158.9	159.7	162.0	162.7	163.9	162.9	163.0
47°	148.8	149.9	149.7	151.3	156.7	157.5	159.9	160.6	161.9	160.9	160.8
47.5°	146.7	147.7	147.5	149.3	154.5	155.5	157.7	158.4	159.7	158.8	158.8
48°	144.5	145.4	145.2	146.9	152.3	153.3	155.6	156.3	157.6	156.7	156.7
48.5°	142.1	143.1	142.9	144.6	150.0	151.2	153.3	154.2	155.5	154.7	154.6
49°	139.9	140.8	140.5	142.3	147.7	148.9	151.2	152.0	153.4	152.6	152.5
49.5°	137.3	138.2	138.0	140.0	145.4	146.6	149.1	149.9	151.2	150.4	150.4
50°	134.7	135.7	135.5	137.5	143.1	144.3	146.8	147.7	149.2	148.3	148.2
50.5°	132.2	133.3	132.8	135.0	140.8	141.8	144.5	145.3	146.9	146.0	146.1
51°	129.6	130.6	130.3	132.3	138.2	139.3	142.2	143.0	144.7	143.8	143.8
51.5°	127.1	128.1	127.7	129.8	135.7	137.0	139.8	140.6	142.5	141.6	141.5
52°	124.5	125.4	124.9	127.1	133.1	134.3	137.2	138.2	139.9	139.1	139.1
52.5°	121.7	122.7	122.3	124.4	130.5	131.8	134.7	135.7	137.5	136.7	136.7
53°	119.1	120.1	119.5	121.8	128.0	129.2	132.1	133.1	135.1	134.2	134.2
53.5°	116.3	117.2	116.8	119.1	125.4	126.5	129.7	130.5	132.5	131.7	131.7
54°	113.7	114.6	114.0	116.4	122.6	123.8	127.0	127.9	130.0	129.1	129.2
54.5°	110.8	111.8	111.3	113.7	119.9	121.2	124.3	125.4	127.4	126.6	126.6
55°	108.1	109.0	108.5	110.9	117.2	118.4	121.7	122.8	124.8	124.1	124.0
55.5°	105.4	106.1	105.9	108.0	114.5	115.9	119.0	120.0	122.1	121.3	121.2
56°	102.6	103.3	103.1	105.2	111.6	113.1	116.3	117.4	119.4	118.7	118.6
56.5°	99.9	100.7	100.4	102.5	108.9	110.3	113.7	114.8	116.8	116.1	115.9
57°	97.2	97.9	97.5	99.8	106.1	107.5	111.0	112.0	114.2	113.3	113.2
57.5°	94.4	95.1	94.6	97.0	103.3	104.7	108.1	109.3	111.3	110.6	110.6
58°	91.6	92.3	92.0	94.2	100.5	102.0	105.4	106.6	108.6	107.8	107.8
58.5°	88.9	89.6	89.2	91.5	97.7	99.1	102.6	103.8	105.9	105.1	105.0
59°	86.2	86.8	86.5	88.6	94.9	96.4	99.9	101.1	103.1	102.4	102.4
59.5°	83.4	84.0	83.7	85.9	92.1	93.7	97.2	98.3	100.5	99.7	99.7
60°	80.7	81.4	81.0	83.2	89.4	90.9	94.4	95.6	97.8	97.0	96.9
60.5°	78.1	78.8	78.3	80.6	86.7	88.1	91.7	92.8	95.0	94.2	94.2
61°	75.4	76.1	75.5	77.8	84.0	85.3	89.0	90.1	92.3	91.5	91.5
61.5°	72.8	73.4	72.9	75.2	81.2	82.5	86.2	87.5	89.6	88.7	88.8
62°	70.2	70.8	70.3	72.5	78.6	79.9	83.5	84.6	86.9	86.0	86.0
62.5°	67.6	68.2	67.8	69.9	75.8	77.2	80.8	82.0	84.1	83.3	83.3
63°	65.0	65.7	65.2	67.3	73.1	74.6	78.1	79.3	81.5	80.7	80.6
63.5°	62.6	63.1	62.7	64.8	70.5	71.9	75.4	76.8	78.8	78.1	78.0
64°	60.0	60.6	60.2	62.2	68.0	69.3	72.9	74.0	76.2	75.4	75.4
64.5°	57.6	58.1	57.7	59.7	65.3	66.7	70.2	71.4	73.5	72.8	72.8
65°	55.1	55.6	55.2	57.1	62.7	64.1	67.6	68.8	70.9	70.1	70.1
65.5°	52.7	53.2	52.7	54.7	60.3	61.5	65.0	66.2	68.3	67.5	67.6
66°	50.2	50.9	50.3	52.3	57.7	59.1	62.3	63.6	65.7	65.0	64.9
66.5°	48.0	48.4	48.1	49.8	55.2	56.6	59.9	61.1	63.2	62.5	62.3
67°	45.6	46.1	45.6	47.5	52.7	54.1	57.3	58.6	60.6	59.9	59.8



TEST NUMBER: P522098

CATALOG NUMBER: RLLV6069SE010WHDM-2700K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	43.3	43.8	43.3	45.2	50.3	51.7	54.9	56.1	58.0	57.4	57.4
68°	41.1	41.5	41.1	42.9	48.0	49.3	52.6	53.6	55.6	54.9	55.0
68.5°	38.8	39.3	38.8	40.6	45.7	46.8	50.1	51.1	53.2	52.5	52.5
69°	36.7	37.1	36.7	38.4	43.2	44.4	47.7	48.6	50.9	50.1	50.1
69.5°	34.4	35.1	34.5	36.3	41.0	42.2	45.3	46.3	48.3	47.6	47.7
70°	32.5	32.8	32.5	34.0	38.8	39.9	43.0	44.0	46.0	45.3	45.3
70.5°	30.4	30.8	30.4	32.0	36.6	37.7	40.6	41.7	43.6	43.0	43.0
71°	28.4	28.8	28.3	30.1	34.4	35.5	38.4	39.4	41.4	40.6	40.7
71.5°	26.5	27.0	26.5	28.0	32.3	33.4	36.3	37.1	39.0	38.4	38.6
72°	24.6	25.2	24.6	26.2	30.2	31.2	34.0	34.9	36.8	36.2	36.3
72.5°	22.9	23.3	22.8	24.1	28.3	29.2	31.9	32.7	34.6	34.0	34.1
73°	21.2	21.4	21.2	22.4	26.4	27.3	29.9	30.8	32.4	31.8	31.9
73.5°	19.6	19.7	19.6	20.7	24.3	25.4	27.9	28.7	30.3	29.9	29.9
74°	17.9	18.1	17.9	19.1	22.6	23.5	25.8	26.7	28.3	27.8	27.8
74.5°	16.4	16.6	16.3	17.5	20.9	21.6	24.0	24.7	26.3	25.9	25.9
75°	14.9	15.2	14.9	15.9	19.2	19.8	22.2	22.9	24.3	24.0	24.0
75.5°	13.5	13.7	13.4	14.5	17.6	18.2	20.5	21.1	22.5	22.1	22.3
76°	12.2	12.6	12.1	13.1	16.1	16.6	18.7	19.3	20.8	20.3	20.5
76.5°	11.0	11.2	11.0	11.8	14.5	15.1	17.0	17.7	19.0	18.5	18.7
77°	10.0	10.0	10.0	10.8	13.1	13.8	15.5	16.1	17.4	17.0	17.1
77.5°	8.8	9.0	8.7	9.7	11.8	12.5	14.2	14.6	15.8	15.4	15.5
78°	8.0	8.2	7.9	8.4	10.8	11.2	12.8	13.2	14.4	14.1	14.2
78.5°	6.9	7.1	6.9	7.6	9.7	10.1	11.4	11.8	13.0	12.6	12.8
79°	6.3	6.4	6.1	6.7	8.4	8.9	10.2	10.5	11.5	11.3	11.4
79.5°	5.5	5.6	5.4	5.9	7.7	8.1	9.2	9.5	10.4	10.1	10.1
80°	5.1	5.1	4.8	5.2	6.7	6.9	8.3	8.5	9.2	9.0	9.2
80.5°	4.5	4.4	4.3	4.6	5.9	6.3	7.1	7.4	8.3	8.0	8.2
81°	3.9	3.9	3.8	4.2	5.2	5.5	6.3	6.6	7.2	7.0	7.0
81.5°	3.6	3.6	3.6	3.6	4.6	5.0	5.5	5.7	6.4	6.3	6.2
82°	3.2	3.3	3.1	3.5	4.2	4.4	5.1	5.2	5.6	5.4	5.4
82.5°	2.9	2.9	2.8	2.9	3.7	3.9	4.3	4.6	5.1	4.8	5.0
83°	2.6	2.6	2.4	2.6	3.6	3.6	3.8	4.0	4.4	4.3	4.3
83.5°	2.2	2.2	2.2	2.2	3.0	3.1	3.6	3.7	3.8	3.9	3.7
84°	2.1	2.0	2.1	2.1	2.7	2.9	3.0	3.5	3.6	3.6	3.6
84.5°	1.6	1.5	1.5	1.9	2.2	2.5	2.8	2.9	3.2	3.1	3.0
85°	1.3	1.3	1.3	1.5	2.1	2.2	2.4	2.6	2.9	2.9	2.8
85.5°	1.3	1.3	1.4	1.2	2.0	2.1	2.1	2.2	2.5	2.5	2.5
86°	0.6	0.6	0.6	0.8	1.5	1.4	2.0	2.1	2.1	2.2	2.1
86.5°	0.5	0.4	0.5	0.5	1.2	1.3	1.4	1.9	2.0	2.1	2.0
87°	0.4	0.4	0.4	0.4	0.9	1.4	1.3	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.5	0.7	1.3	1.3	1.3	1.3	1.3
88°	0.0	0.0	0.0	0.3	0.4	0.5	0.5	0.7	1.3	1.3	1.3
88.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.5	0.5	0.6	0.5
89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522098

CATALOG NUMBER: RLLV6069SE010WHDM-2700K-UNIT

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	0.3	0.3	0.0



TEST NUMBER: P522098

CATALOG NUMBER: RLLV6069SE010WHDM-2700K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	263.9	263.9	263.9	263.9	263.9	263.9
0.5°	264.2	263.8	263.7	263.8	263.7	263.7
1°	264.2	263.7	263.7	263.7	263.7	263.7
1.5°	264.1	263.7	263.6	263.7	263.6	263.6
2°	264.1	263.6	263.5	263.6	263.4	263.4
2.5°	264.0	263.4	263.3	263.3	263.3	263.3
3°	263.8	263.3	263.1	263.2	263.1	263.1
3.5°	263.7	263.0	262.9	262.9	262.9	262.8
4°	263.5	262.8	262.8	262.7	262.7	262.5
4.5°	263.3	262.6	262.5	262.4	262.3	262.3
5°	263.1	262.3	262.2	262.1	262.0	261.9
5.5°	262.9	262.0	261.9	261.8	261.8	261.7
6°	262.6	261.7	261.6	261.5	261.4	261.3
6.5°	262.3	261.4	261.3	261.1	261.1	261.0
7°	261.9	261.0	260.9	260.7	260.7	260.5
7.5°	261.7	260.5	260.5	260.2	260.2	260.1
8°	261.3	260.2	260.1	259.9	259.9	259.6
8.5°	260.9	259.8	259.7	259.4	259.3	259.3
9°	260.5	259.3	259.2	258.9	258.9	258.7
9.5°	260.1	258.8	258.7	258.4	258.4	258.3
10°	259.6	258.3	258.3	257.9	257.9	257.6
10.5°	259.2	257.7	257.7	257.3	257.4	257.0
11°	258.6	257.2	257.2	256.7	256.7	256.5
11.5°	258.1	256.7	256.6	256.1	256.1	255.8
12°	257.6	256.0	256.0	255.5	255.5	255.2
12.5°	256.9	255.4	255.4	255.0	254.8	254.5
13°	256.4	254.8	254.8	254.2	254.1	253.8
13.5°	255.8	254.1	254.1	253.5	253.4	253.1
14°	255.1	253.6	253.4	252.8	252.7	252.3
14.5°	254.4	252.7	252.7	252.1	251.9	251.5
15°	253.8	252.0	252.0	251.3	251.1	250.6
15.5°	253.1	251.3	251.2	250.5	250.2	249.7
16°	252.3	250.5	250.4	249.6	249.3	248.9
16.5°	251.5	249.6	249.6	248.8	248.5	248.0
17°	250.7	248.8	248.7	247.8	247.5	247.0
17.5°	250.0	247.8	247.8	246.9	246.6	246.1
18°	249.1	246.9	246.9	245.9	245.6	245.0
18.5°	248.3	246.0	245.9	244.9	244.5	244.0
19°	247.4	245.0	244.9	243.8	243.5	242.9
19.5°	246.5	244.0	243.8	242.8	242.4	241.9
20°	245.6	242.9	242.8	241.8	241.4	240.7
20.5°	244.6	241.9	241.8	240.6	240.1	239.5
21°	243.6	240.9	240.7	239.5	239.2	238.4
21.5°	242.6	239.6	239.5	238.3	237.8	237.1
22°	241.5	238.5	238.4	237.1	236.7	235.8



TEST NUMBER: P522098

CATALOG NUMBER: RLLV6069SE010WHDM-2700K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	240.4	237.4	237.2	235.8	235.3	234.6
23°	239.3	236.1	235.9	234.6	234.1	233.3
23.5°	238.1	234.9	234.7	233.3	232.8	232.1
24°	236.9	233.7	233.5	232.2	231.5	230.7
24.5°	235.7	232.3	232.2	230.7	230.3	229.3
25°	234.4	231.1	230.9	229.4	228.8	227.9
25.5°	233.2	229.7	229.6	228.0	227.5	226.6
26°	231.9	228.3	228.1	226.6	226.2	225.1
26.5°	230.6	227.0	226.8	225.3	224.6	223.6
27°	229.2	225.6	225.3	223.7	223.2	222.1
27.5°	227.9	224.2	223.9	222.3	221.7	220.7
28°	226.5	222.7	222.5	220.8	220.2	219.1
28.5°	225.1	221.2	221.0	219.3	218.7	217.5
29°	223.6	219.7	219.4	217.8	217.2	216.0
29.5°	222.1	218.2	217.8	216.2	215.7	214.4
30°	220.7	216.6	216.3	214.6	214.0	212.9
30.5°	219.3	215.0	214.7	213.1	212.3	211.3
31°	217.7	213.5	213.0	211.4	210.7	209.6
31.5°	216.2	211.9	211.4	209.8	209.1	207.9
32°	214.5	210.2	209.7	208.1	207.5	206.2
32.5°	212.9	208.6	208.0	206.4	205.8	204.5
33°	211.4	207.0	206.4	204.6	204.1	202.8
33.5°	209.7	205.3	204.7	202.9	202.4	201.0
34°	208.1	203.5	202.9	201.2	200.6	199.3
34.5°	206.4	201.8	201.1	199.4	198.9	197.5
35°	204.7	200.0	199.3	197.6	197.2	195.8
35.5°	203.0	198.2	197.6	195.8	195.4	194.0
36°	201.2	196.4	195.8	194.0	193.6	192.2
36.5°	199.5	194.6	194.0	192.2	191.8	190.4
37°	197.7	192.8	192.2	190.5	190.0	188.6
37.5°	196.0	191.0	190.4	188.7	188.1	186.8
38°	194.2	189.3	188.5	186.9	186.3	184.9
38.5°	192.5	187.4	186.6	184.9	184.4	183.1
39°	190.6	185.5	184.8	183.0	182.6	181.2
39.5°	188.8	183.5	182.9	181.1	180.8	179.2
40°	187.0	181.7	180.9	179.1	178.8	177.4
40.5°	185.1	179.7	179.1	177.2	176.8	175.4
41°	183.2	177.8	177.0	175.3	174.9	173.5
41.5°	181.3	175.8	175.1	173.4	173.0	171.5
42°	179.3	173.9	173.2	171.3	171.0	169.5
42.5°	177.4	171.9	171.3	169.3	169.0	167.5
43°	175.4	169.8	169.2	167.3	167.0	165.5
43.5°	173.4	167.8	167.2	165.2	165.1	163.4
44°	171.4	165.7	165.2	163.2	162.9	161.4
44.5°	169.5	163.6	163.1	161.2	160.8	159.3



TEST NUMBER: P522098

CATALOG NUMBER: RLLV6069SE010WHDM-2700K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	167.4	161.6	161.0	159.1	158.8	157.3
45.5°	165.3	159.4	159.0	157.1	156.8	155.2
46°	163.2	157.3	156.9	154.9	154.7	153.0
46.5°	161.1	155.0	154.7	152.9	152.6	151.0
47°	159.0	153.0	152.7	150.7	150.4	148.8
47.5°	156.9	150.6	150.5	148.6	148.3	146.7
48°	154.7	148.5	148.2	146.4	146.0	144.5
48.5°	152.5	146.1	146.0	144.2	143.8	142.1
49°	150.4	143.8	143.8	141.8	141.6	139.9
49.5°	148.2	141.5	141.5	139.5	139.2	137.3
50°	145.9	139.0	139.1	137.2	136.7	134.7
50.5°	143.5	136.6	136.7	134.6	134.2	132.2
51°	141.2	134.1	134.2	132.1	131.7	129.6
51.5°	138.9	131.6	131.6	129.4	129.1	127.1
52°	136.4	129.1	129.0	126.9	126.5	124.5
52.5°	133.9	126.4	126.5	124.4	123.9	121.7
53°	131.3	123.9	123.9	121.6	121.1	119.1
53.5°	128.8	121.2	121.2	119.0	118.5	116.3
54°	126.2	118.5	118.6	116.3	115.7	113.7
54.5°	123.5	115.8	115.8	113.5	112.9	110.8
55°	120.8	113.2	113.0	110.8	110.2	108.1
55.5°	118.2	110.5	110.4	108.2	107.5	105.4
56°	115.6	107.8	107.6	105.3	104.7	102.6
56.5°	112.9	105.1	105.0	102.5	101.9	99.9
57°	110.2	102.4	102.3	99.8	99.2	97.2
57.5°	107.4	99.7	99.7	97.1	96.4	94.4
58°	104.7	97.0	96.8	94.3	93.7	91.6
58.5°	102.0	94.3	94.0	91.7	91.0	88.9
59°	99.3	91.7	91.4	88.8	88.1	86.2
59.5°	96.6	88.9	88.7	86.2	85.4	83.4
60°	93.8	86.3	85.9	83.4	82.8	80.7
60.5°	91.1	83.6	83.3	80.8	80.1	78.1
61°	88.4	81.0	80.6	78.0	77.5	75.4
61.5°	85.7	78.4	78.0	75.4	74.8	72.8
62°	83.1	75.7	75.4	72.8	72.1	70.2
62.5°	80.5	73.2	72.8	70.2	69.4	67.6
63°	77.8	70.6	70.2	67.6	66.9	65.0
63.5°	75.3	68.2	67.6	65.1	64.4	62.6
64°	72.5	65.6	65.1	62.7	62.0	60.0
64.5°	69.9	63.1	62.6	60.1	59.4	57.6
65°	67.5	60.7	60.2	57.6	56.9	55.1
65.5°	64.9	58.1	57.6	55.1	54.5	52.7
66°	62.4	55.8	55.2	52.7	52.0	50.2
66.5°	59.9	53.4	52.7	50.3	49.5	48.0
67°	57.4	51.0	50.4	48.1	47.3	45.6



TEST NUMBER: P522098

CATALOG NUMBER: RLLV6069SE010WHDM-2700K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	54.9	48.6	48.1	45.7	44.9	43.3
68°	52.6	46.4	45.9	43.3	42.7	41.1
68.5°	50.1	44.0	43.5	41.1	40.5	38.8
69°	47.7	41.8	41.3	38.8	38.3	36.7
69.5°	45.4	39.6	39.0	36.8	36.1	34.4
70°	43.1	37.4	36.8	34.4	33.9	32.5
70.5°	40.9	35.4	34.7	32.5	31.9	30.4
71°	38.7	33.3	32.7	30.4	29.9	28.4
71.5°	36.5	31.1	30.6	28.4	27.9	26.5
72°	34.2	29.2	28.6	26.5	26.0	24.6
72.5°	32.2	27.3	26.6	24.5	24.1	22.9
73°	30.1	25.6	24.8	22.9	22.4	21.2
73.5°	28.2	23.7	22.9	21.2	20.7	19.6
74°	26.2	21.8	21.1	19.5	19.0	17.9
74.5°	24.4	20.0	19.5	17.9	17.5	16.4
75°	22.5	18.3	17.8	16.3	16.0	14.9
75.5°	20.7	16.8	16.3	14.8	14.5	13.5
76°	19.0	15.3	14.8	13.5	13.1	12.2
76.5°	17.4	14.0	13.5	12.0	11.8	11.0
77°	15.8	12.6	12.1	10.9	10.7	10.0
77.5°	14.4	11.3	10.9	9.8	9.7	8.8
78°	13.0	10.1	9.8	8.6	8.4	8.0
78.5°	11.7	8.9	8.6	7.7	7.6	6.9
79°	10.3	8.0	7.7	6.9	6.7	6.3
79.5°	9.3	7.0	6.7	6.0	6.0	5.5
80°	8.4	6.3	5.9	5.3	5.2	5.1
80.5°	7.2	5.4	5.2	4.7	4.7	4.5
81°	6.5	4.8	4.6	4.2	4.2	3.9
81.5°	5.6	4.3	4.1	3.8	3.7	3.6
82°	5.2	3.8	3.7	3.5	3.5	3.2
82.5°	4.5	3.6	3.5	3.1	3.0	2.9
83°	3.9	3.1	2.9	2.7	2.7	2.6
83.5°	3.6	2.8	2.7	2.3	2.2	2.2
84°	3.3	2.5	2.2	2.1	2.1	2.1
84.5°	2.9	2.2	2.1	2.1	2.0	1.6
85°	2.6	2.1	2.0	1.5	1.5	1.3
85.5°	2.2	1.5	1.5	1.3	1.3	1.3
86°	2.0	1.3	1.2	1.4	1.3	0.6
86.5°	1.7	1.4	1.1	0.6	0.5	0.5
87°	1.3	0.6	0.5	0.5	0.4	0.4
87.5°	1.3	0.5	0.4	0.4	0.0	0.0
88°	0.7	0.4	0.0	0.0	0.0	0.0
88.5°	0.5	0.0	0.0	0.0	0.0	0.0
89°	0.4	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522098

CATALOG NUMBER: RLLV6069SE010WHDM-2700K-UNIT

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)