

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: P294445

Luminaire Tested: **RL6069S1EWHDM-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A1809075B001)  
Test Lab: EVERFINE  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RL6069S1EWHDM-5000K  
Description: 6 IN HALO RL DIRECT MOUNT (600 LUMEN) - 5000K  
Light Source: -  
Ballast/Driver: -

**Summary**

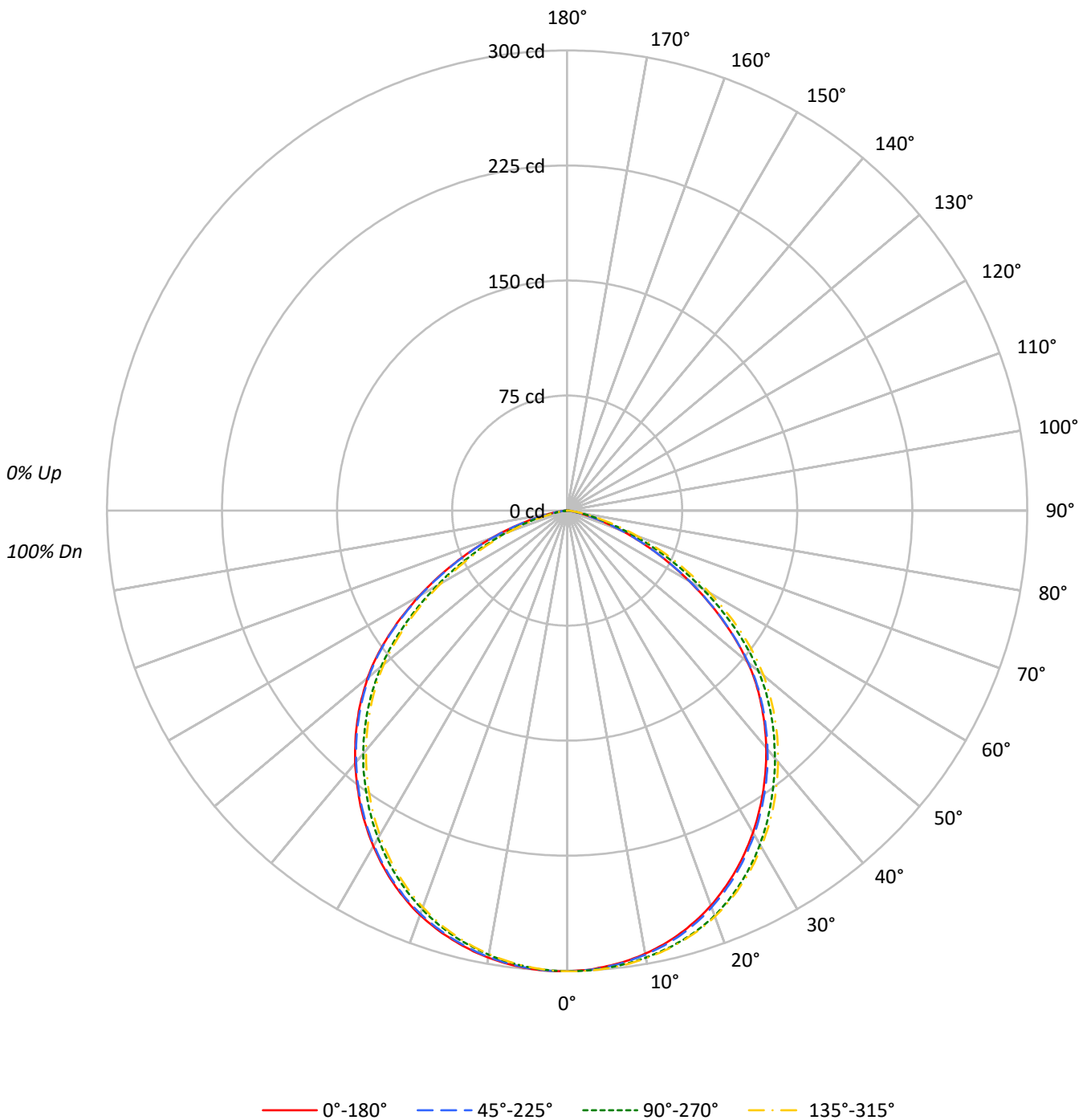
Lumens per Lamp: 706.09 (1 lamp)  
Luminaire Lumens: 734.2 lumens  
Efficiency: 104.0%  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.7  
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



TEST NUMBER: P294445  
CATALOG NUMBER: RL6069S1EWHDM-5000K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	50	30	10	0		
RCR																										
0	124	124	124	124	121	121	121	121	116	116	116	111	111	111	106	106	106	104	104	104	104	104	104	104		
1	115	110	106	103	112	108	104	101	104	101	98	100	97	95	96	94	92	90	90	90	90	90	90	90		
2	105	97	91	86	103	96	90	85	92	87	83	89	84	81	86	82	79	77	77	77	77	77	77	77		
3	96	86	79	72	94	85	78	72	82	76	71	79	74	69	76	72	68	66	66	66	66	66	66	66		
4	89	77	69	62	86	76	68	62	73	66	61	71	65	60	69	63	59	57	57	57	57	57	57	57		
5	82	69	60	54	80	68	60	54	66	59	53	64	57	52	62	56	52	50	50	50	50	50	50	50		
6	76	62	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	44	44	44	44	44	44	44		
7	70	57	48	42	69	56	48	42	54	47	41	53	46	41	52	46	41	39	39	39	39	39	39	39		
8	65	52	43	38	64	51	43	37	50	42	37	49	42	37	47	41	37	35	35	35	35	35	35	35		
9	61	48	39	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31	31	31	31	31	31	31		
10	57	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	29	29	29	29	29	29	29		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	16468	16468	16468	16468
5°	16410	16470	16481	16432
10°	16327	16472	16472	16366
15°	16192	16464	16436	16283
20°	15985	16393	16364	16131
25°	15690	16199	16211	15908
30°	15338	15914	15990	15610
35°	14917	15513	15720	15238
40°	14448	15078	15386	14799
45°	13877	14575	14986	14257
50°	13083	13893	14490	13492
55°	11765	12750	13572	12320
60°	10076	11161	12203	10767
65°	8133	9262	10468	8976
70°	5930	7069	8383	6828
75°	3601	4639	5867	4427
80°	1831	2431	3346	2241
85°	943	1447	2013	1447



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	28.4	3.9	4.0
10°-20°	81.2	11.1	11.5
20°-30°	121.8	16.6	17.3
30°-40°	143.4	19.5	20.3
40°-50°	143.4	19.5	20.3
50°-60°	117.7	16.0	16.7
60°-70°	70.7	9.6	10.0
70°-80°	24.5	3.3	3.5
80°-90°	2.9	0.4	0.4
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°	231.5	31.5	32.8
0°-40°	374.9	51.1	53.1
0°-60°	636.1	86.6	90.1
0°-90°	734.2	100.0	104.0
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°	734.2	100.0	104.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	300	300	300	300	300	
5°	298	299	300	299	298	28
15°	285	290	290	287	285	80
25°	259	268	268	263	259	119
35°	223	232	235	228	223	139
45°	179	188	193	184	179	138
55°	123	133	142	129	123	110
65°	63	71	81	69	63	62
75°	17	22	28	21	17	19
85°	2	2	3	2	2	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°	300.4	300.4	300.4	300.4	300.4	300.4	300.4	300.4	300.4	300.4	300.4
0.5°	300.2	300.2	300.4	300.7	300.3	300.3	300.5	300.4	300.4	300.4	300.5
1°	300.1	300.1	300.3	300.6	300.3	300.4	300.5	300.5	300.4	300.4	300.4
1.5°	300.0	300.0	300.2	300.5	300.3	300.4	300.4	300.5	300.4	300.4	300.4
2°	299.8	299.8	300.0	300.4	300.2	300.3	300.4	300.5	300.4	300.4	300.3
2.5°	299.7	299.6	299.8	300.3	300.1	300.2	300.3	300.4	300.3	300.3	300.1
3°	299.5	299.5	299.7	300.1	300.0	300.2	300.2	300.3	300.2	300.2	300.0
3.5°	299.2	299.3	299.5	299.9	299.8	300.0	300.1	300.2	300.0	300.0	299.8
4°	298.8	298.9	299.2	299.7	299.7	299.9	300.0	300.0	299.9	299.8	299.6
4.5°	298.5	298.6	298.9	299.5	299.5	299.7	299.8	299.8	299.7	299.6	299.5
5°	298.2	298.3	298.6	299.3	299.3	299.5	299.6	299.7	299.5	299.4	299.3
5.5°	297.9	298.0	298.2	298.9	299.1	299.3	299.5	299.4	299.3	299.1	299.0
6°	297.5	297.6	297.9	298.6	298.8	299.0	299.3	299.1	299.0	298.8	298.6
6.5°	297.0	297.2	297.5	298.2	298.6	298.8	298.9	298.8	298.7	298.4	298.4
7°	296.6	296.8	297.0	297.9	298.2	298.4	298.6	298.5	298.4	298.1	298.0
7.5°	296.1	296.3	296.6	297.5	297.8	298.1	298.3	298.2	298.0	297.7	297.7
8°	295.6	295.8	296.1	297.0	297.5	297.7	298.0	297.8	297.7	297.3	297.4
8.5°	295.1	295.3	295.6	296.6	297.2	297.4	297.6	297.4	297.3	296.9	296.8
9°	294.5	294.8	295.1	296.1	296.8	297.0	297.2	297.0	296.8	296.5	296.4
9.5°	294.0	294.2	294.5	295.6	296.3	296.6	296.8	296.5	296.4	296.0	295.9
10°	293.3	293.6	294.0	295.1	295.9	296.1	296.3	296.0	295.9	295.5	295.4
10.5°	292.6	293.0	293.3	294.5	295.4	295.7	295.9	295.5	295.4	295.0	295.0
11°	291.9	292.2	292.7	293.9	294.9	295.2	295.4	295.0	294.9	294.4	294.4
11.5°	291.3	291.6	292.0	293.3	294.4	294.7	294.9	294.4	294.3	293.8	293.8
12°	290.5	290.8	291.3	292.7	293.9	294.1	294.3	293.9	293.8	293.2	293.2
12.5°	289.7	290.1	290.6	292.0	293.3	293.6	293.8	293.2	293.1	292.5	292.5
13°	288.9	289.4	289.8	291.3	292.7	293.0	293.2	292.5	292.5	291.9	291.9
13.5°	288.1	288.5	289.0	290.5	292.1	292.4	292.5	291.9	291.8	291.2	291.2
14°	287.2	287.7	288.2	289.8	291.4	291.7	291.9	291.2	291.1	290.4	290.4
14.5°	286.3	286.8	287.3	289.0	290.7	291.0	291.2	290.4	290.3	289.7	289.7
15°	285.3	285.9	286.4	288.2	290.1	290.3	290.5	289.7	289.6	288.8	288.9
15.5°	284.3	284.9	285.4	287.3	289.3	289.6	289.8	288.9	288.8	288.1	288.2
16°	283.3	283.9	284.5	286.3	288.5	288.8	289.0	288.1	288.0	287.2	287.3
16.5°	282.2	282.9	283.4	285.3	287.8	288.0	288.3	287.2	287.2	286.4	286.5
17°	281.2	281.8	282.3	284.3	286.9	287.2	287.4	286.4	286.3	285.4	285.5
17.5°	280.1	280.7	281.3	283.3	286.0	286.3	286.6	285.5	285.4	284.6	284.7
18°	278.9	279.6	280.2	282.2	285.1	285.4	285.7	284.6	284.5	283.6	283.8
18.5°	277.7	278.4	279.0	281.0	284.1	284.4	284.8	283.6	283.5	282.7	282.8
19°	276.5	277.2	277.8	279.8	283.1	283.4	283.8	282.7	282.5	281.7	281.8
19.5°	275.3	275.9	276.6	278.6	282.1	282.4	282.8	281.7	281.5	280.7	280.8
20°	274.0	274.7	275.3	277.4	281.0	281.4	281.7	280.7	280.5	279.7	279.7
20.5°	272.7	273.3	274.0	276.1	279.9	280.3	280.6	279.6	279.5	278.7	278.7
21°	271.3	272.1	272.6	274.9	278.7	279.1	279.5	278.5	278.4	277.5	277.6
21.5°	269.9	270.6	271.3	273.6	277.4	277.9	278.3	277.3	277.2	276.3	276.4
22°	268.4	269.2	269.9	272.2	276.1	276.6	277.1	276.1	275.9	275.1	275.2



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CATALOG NUMBER: RL6069S1EWHDM-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	267.0	267.7	268.5	270.7	274.9	275.4	275.7	274.8	274.7	273.9	274.0
23°	265.6	266.3	267.0	269.3	273.5	274.1	274.5	273.6	273.4	272.6	272.7
23.5°	264.2	264.8	265.6	267.9	272.2	272.7	273.2	272.4	272.2	271.3	271.3
24°	262.6	263.3	264.1	266.4	270.7	271.3	271.9	270.9	270.8	270.0	270.1
24.5°	261.0	261.9	262.6	264.9	269.3	269.9	270.5	269.6	269.5	268.6	268.7
25°	259.4	260.3	260.9	263.3	267.8	268.4	269.0	268.2	268.0	267.1	267.3
25.5°	257.9	258.7	259.3	261.8	266.4	266.9	267.6	266.7	266.6	265.7	265.9
26°	256.2	257.1	257.8	260.2	264.8	265.4	266.1	265.3	265.2	264.3	264.4
26.5°	254.6	255.4	256.1	258.5	263.2	263.9	264.6	263.8	263.8	262.8	262.9
27°	252.9	253.7	254.4	256.8	261.6	262.4	263.1	262.3	262.3	261.3	261.4
27.5°	251.2	252.0	252.7	255.1	260.1	260.8	261.5	260.8	260.7	259.7	260.0
28°	249.4	250.4	251.0	253.4	258.3	259.0	260.0	259.1	259.2	258.2	258.4
28.5°	247.7	248.6	249.2	251.7	256.7	257.3	258.3	257.5	257.6	256.6	256.9
29°	245.9	246.8	247.5	249.9	254.9	255.6	256.7	255.8	255.9	254.9	255.2
29.5°	244.1	245.0	245.7	248.1	253.1	253.8	254.9	254.2	254.3	253.2	253.5
30°	242.3	243.2	243.9	246.2	251.4	252.0	253.2	252.5	252.6	251.7	251.9
30.5°	240.5	241.3	242.0	244.4	249.5	250.2	251.4	250.8	251.0	250.0	250.2
31°	238.6	239.5	240.1	242.5	247.6	248.4	249.6	249.1	249.4	248.3	248.5
31.5°	236.7	237.6	238.2	240.6	245.8	246.5	247.8	247.2	247.6	246.5	246.8
32°	234.8	235.8	236.3	238.7	243.8	244.6	246.0	245.4	245.8	244.7	245.0
32.5°	232.8	233.9	234.4	236.8	242.0	242.7	244.2	243.7	243.9	242.9	243.2
33°	230.8	231.9	232.4	234.9	240.0	240.7	242.3	241.8	242.2	241.1	241.4
33.5°	228.9	229.9	230.4	232.8	237.9	238.7	240.5	240.0	240.4	239.2	239.6
34°	226.9	228.0	228.5	230.7	235.9	236.7	238.5	238.1	238.6	237.5	237.7
34.5°	224.9	226.0	226.5	228.7	233.9	234.7	236.6	236.2	236.7	235.6	235.9
35°	222.9	224.1	224.5	226.7	231.8	232.6	234.6	234.3	234.9	233.7	234.0
35.5°	220.9	222.1	222.4	224.6	229.8	230.5	232.6	232.3	233.0	231.8	232.1
36°	218.8	220.0	220.3	222.6	227.7	228.4	230.6	230.3	231.0	229.9	230.2
36.5°	216.7	217.9	218.3	220.4	225.6	226.4	228.5	228.4	228.9	227.9	228.2
37°	214.7	215.8	216.1	218.3	223.5	224.3	226.4	226.5	227.0	225.9	226.2
37.5°	212.6	213.7	214.1	216.1	221.4	222.2	224.4	224.5	225.0	223.9	224.2
38°	210.5	211.6	212.0	214.0	219.3	220.2	222.3	222.4	223.0	222.0	222.3
38.5°	208.4	209.6	209.9	211.9	217.2	218.0	220.2	220.4	221.0	220.0	220.2
39°	206.2	207.4	207.7	209.7	215.1	215.9	218.1	218.3	219.0	217.9	218.2
39.5°	204.1	205.3	205.5	207.6	213.0	213.8	216.0	216.2	217.0	215.8	216.1
40°	201.9	203.1	203.2	205.3	210.7	211.5	213.8	214.1	215.0	213.8	214.0
40.5°	199.7	200.9	201.1	203.1	208.5	209.3	211.6	212.0	212.9	211.8	211.9
41°	197.5	198.7	198.8	200.9	206.2	207.1	209.5	209.9	210.7	209.6	209.8
41.5°	195.2	196.4	196.5	198.7	204.0	204.9	207.3	207.7	208.6	207.6	207.7
42°	193.0	194.1	194.2	196.3	201.8	202.7	205.2	205.6	206.5	205.4	205.6
42.5°	190.7	191.9	191.9	194.0	199.6	200.4	203.0	203.4	204.4	203.2	203.5
43°	188.4	189.6	189.6	191.7	197.3	198.1	200.8	201.2	202.3	201.1	201.3
43.5°	186.0	187.3	187.2	189.3	195.0	195.8	198.5	199.0	200.1	198.9	199.1
44°	183.7	185.0	185.0	186.9	192.7	193.5	196.1	196.7	197.8	196.7	196.9
44.5°	181.4	182.6	182.5	184.5	190.3	191.2	193.8	194.4	195.6	194.5	194.6



TEST NUMBER: P294445

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	179.0	180.3	180.1	182.1	188.0	188.9	191.5	192.2	193.3	192.3	192.3
45.5°	176.7	177.9	177.7	179.7	185.6	186.6	189.2	189.9	191.1	190.1	190.0
46°	174.3	175.5	175.2	177.2	183.2	184.1	186.8	187.5	188.9	187.8	187.9
46.5°	171.9	173.2	172.8	174.8	180.8	181.7	184.4	185.2	186.6	185.4	185.5
47°	169.4	170.6	170.5	172.3	178.4	179.4	182.0	182.8	184.3	183.2	183.1
47.5°	167.0	168.2	167.8	169.9	175.9	176.9	179.5	180.3	181.8	180.8	180.8
48°	164.5	165.5	165.3	167.2	173.4	174.5	177.0	177.9	179.4	178.4	178.4
48.5°	161.8	162.9	162.7	164.6	170.8	172.1	174.6	175.5	177.0	176.1	176.0
49°	159.2	160.2	159.9	162.0	168.2	169.5	172.1	173.0	174.6	173.7	173.6
49.5°	156.4	157.4	157.0	159.4	165.5	166.9	169.7	170.7	172.2	171.3	171.2
50°	153.4	154.5	154.2	156.6	162.9	164.2	167.1	168.0	169.9	168.8	168.7
50.5°	150.5	151.7	151.2	153.6	160.3	161.4	164.5	165.4	167.3	166.2	166.3
51°	147.5	148.7	148.3	150.7	157.4	158.6	161.8	162.8	164.7	163.7	163.7
51.5°	144.7	145.8	145.3	147.8	154.5	155.9	159.1	160.1	162.1	161.1	161.0
52°	141.7	142.8	142.2	144.7	151.6	152.9	156.2	157.3	159.3	158.3	158.3
52.5°	138.6	139.7	139.2	141.7	148.6	150.0	153.4	154.5	156.6	155.6	155.6
53°	135.6	136.7	136.1	138.6	145.7	147.0	150.4	151.5	153.8	152.8	152.8
53.5°	132.4	133.5	132.9	135.6	142.7	144.0	147.6	148.6	150.8	149.9	149.9
54°	129.3	130.4	129.8	132.4	139.6	141.0	144.6	145.6	148.0	146.9	147.0
54.5°	126.1	127.2	126.7	129.4	136.5	138.0	141.5	142.7	145.0	144.0	144.1
55°	123.1	124.1	123.6	126.3	133.4	134.8	138.5	139.8	142.0	141.2	141.1
55.5°	120.0	120.8	120.5	122.9	130.2	131.9	135.4	136.7	139.0	138.1	138.0
56°	116.9	117.7	117.3	119.8	127.0	128.8	132.4	133.7	135.9	135.1	135.0
56.5°	113.8	114.5	114.2	116.7	123.9	125.6	129.4	130.7	133.0	132.1	132.0
57°	110.6	111.4	111.0	113.6	120.8	122.3	126.3	127.4	129.9	129.0	128.9
57.5°	107.4	108.2	107.8	110.3	117.6	119.2	123.1	124.3	126.8	125.9	125.9
58°	104.3	105.1	104.7	107.2	114.4	116.1	120.0	121.3	123.6	122.7	122.8
58.5°	101.2	102.0	101.5	104.1	111.2	112.9	116.9	118.1	120.6	119.6	119.6
59°	98.1	98.9	98.5	100.9	108.1	109.7	113.7	115.1	117.4	116.6	116.5
59.5°	95.0	95.6	95.3	97.8	104.9	106.7	110.6	112.0	114.3	113.5	113.5
60°	91.9	92.6	92.2	94.7	101.8	103.5	107.5	108.8	111.3	110.4	110.3
60.5°	88.9	89.7	89.1	91.7	98.8	100.3	104.4	105.7	108.2	107.2	107.2
61°	85.8	86.6	86.0	88.6	95.6	97.1	101.3	102.6	105.1	104.1	104.2
61.5°	82.8	83.5	83.0	85.5	92.4	94.0	98.1	99.5	102.0	100.9	101.1
62°	79.8	80.6	80.0	82.5	89.4	90.9	95.1	96.3	99.0	98.0	97.9
62.5°	76.9	77.6	77.2	79.5	86.3	87.9	92.0	93.3	95.8	94.9	94.9
63°	74.0	74.7	74.2	76.6	83.2	85.0	88.9	90.3	92.7	91.9	91.8
63.5°	71.2	71.8	71.4	73.7	80.2	81.9	85.9	87.4	89.7	88.9	88.8
64°	68.3	69.0	68.5	70.8	77.4	78.8	83.0	84.3	86.7	85.9	85.8
64.5°	65.5	66.1	65.7	67.9	74.4	75.9	79.8	81.3	83.6	82.8	82.9
65°	62.7	63.3	62.8	65.1	71.4	73.0	77.0	78.3	80.7	79.8	79.8
65.5°	59.9	60.6	60.0	62.3	68.6	70.0	74.0	75.3	77.7	76.8	77.0
66°	57.2	57.9	57.3	59.5	65.6	67.3	71.0	72.4	74.8	74.0	74.0
66.5°	54.6	55.1	54.8	56.7	62.8	64.4	68.2	69.5	71.9	71.1	71.0
67°	51.9	52.5	51.9	54.1	60.0	61.6	65.3	66.7	69.0	68.2	68.1





TEST NUMBER: P294445

CATALOG NUMBER: RL6069S1EWHDM-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	49.3	49.8	49.4	51.5	57.3	58.8	62.5	63.8	66.1	65.3	65.3
68°	46.7	47.3	46.7	48.9	54.6	56.1	59.8	61.0	63.4	62.5	62.6
68.5°	44.2	44.8	44.3	46.3	52.0	53.3	57.0	58.3	60.6	59.7	59.8
69°	41.8	42.2	41.8	43.7	49.2	50.6	54.4	55.3	57.9	57.0	57.0
69.5°	39.2	39.9	39.3	41.3	46.7	48.0	51.5	52.7	55.0	54.2	54.4
70°	37.0	37.4	37.0	38.7	44.1	45.5	48.9	50.0	52.3	51.6	51.6
70.5°	34.6	35.0	34.7	36.4	41.7	42.9	46.3	47.4	49.6	48.9	49.0
71°	32.4	32.8	32.3	34.2	39.1	40.4	43.8	44.8	47.0	46.3	46.4
71.5°	30.1	30.7	30.2	31.9	36.8	38.0	41.3	42.3	44.4	43.8	43.9
72°	28.0	28.6	27.9	29.8	34.4	35.5	38.7	39.7	41.9	41.2	41.4
72.5°	26.0	26.5	26.0	27.5	32.1	33.2	36.3	37.3	39.4	38.7	38.8
73°	24.1	24.4	24.1	25.5	30.0	31.0	34.0	35.0	36.9	36.3	36.3
73.5°	22.3	22.4	22.2	23.6	27.7	28.9	31.7	32.6	34.6	34.0	34.0
74°	20.5	20.6	20.3	21.7	25.7	26.8	29.4	30.4	32.2	31.6	31.7
74.5°	18.7	18.9	18.6	19.9	23.8	24.6	27.3	28.1	29.9	29.5	29.6
75°	17.0	17.2	16.9	18.1	21.9	22.6	25.3	26.1	27.7	27.3	27.4
75.5°	15.3	15.6	15.3	16.6	20.1	20.7	23.3	24.0	25.6	25.1	25.4
76°	13.8	14.3	13.7	14.9	18.3	18.9	21.3	22.0	23.6	23.1	23.3
76.5°	12.6	12.8	12.5	13.5	16.6	17.2	19.4	20.1	21.6	21.1	21.2
77°	11.4	11.3	11.3	12.2	14.9	15.7	17.7	18.3	19.8	19.3	19.5
77.5°	10.0	10.2	9.9	11.0	13.5	14.2	16.1	16.7	18.0	17.5	17.7
78°	9.1	9.3	9.0	9.6	12.2	12.8	14.6	15.1	16.4	16.0	16.2
78.5°	7.9	8.1	7.8	8.7	11.0	11.5	13.0	13.4	14.8	14.4	14.6
79°	7.1	7.3	7.0	7.6	9.6	10.1	11.6	11.9	13.1	12.8	12.9
79.5°	6.2	6.3	6.1	6.7	8.8	9.2	10.5	10.8	11.8	11.6	11.6
80°	5.8	5.8	5.5	5.9	7.7	7.9	9.4	9.7	10.6	10.2	10.4
80.5°	5.1	5.0	4.9	5.2	6.7	7.2	8.1	8.5	9.4	9.1	9.3
81°	4.5	4.4	4.3	4.8	5.9	6.2	7.2	7.5	8.2	7.9	7.9
81.5°	4.1	4.1	4.1	4.1	5.2	5.8	6.2	6.5	7.3	7.2	7.1
82°	3.7	3.7	3.5	4.0	4.8	5.0	5.8	6.0	6.3	6.1	6.1
82.5°	3.3	3.3	3.2	3.3	4.2	4.4	4.9	5.2	5.8	5.5	5.7
83°	2.9	2.9	2.8	3.0	4.1	4.1	4.2	4.6	5.0	4.9	4.9
83.5°	2.5	2.4	2.4	2.5	3.3	3.5	4.1	4.2	4.3	4.3	4.2
84°	2.3	2.3	2.3	2.3	3.0	3.2	3.4	4.0	4.1	4.1	4.1
84.5°	1.8	1.7	1.7	2.2	2.6	2.9	3.1	3.3	3.7	3.5	3.4
85°	1.5	1.5	1.5	1.7	2.3	2.4	2.7	3.0	3.2	3.3	3.2
85.5°	1.6	1.5	1.6	1.4	2.2	2.3	2.3	2.5	2.9	2.9	2.8
86°	0.7	0.7	0.7	0.9	1.7	1.7	2.3	2.3	2.4	2.4	2.3
86.5°	0.6	0.6	0.6	0.6	1.3	1.4	1.7	2.1	2.3	2.3	2.2
87°	0.5	0.4	0.4	0.5	1.0	1.6	1.4	1.6	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.6	0.8	1.4	1.5	1.4	1.5	1.5
88°	0.0	0.0	0.0	0.3	0.5	0.6	0.6	0.8	1.5	1.5	1.5
88.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.6	0.6	0.7	0.6
89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.6	0.5
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: P294445

CATALOG NUMBER: RL6069S1EWHDM-5000K

**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: P294445

CATALOG NUMBER: RL6069S1EWHDM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	300.4	300.4	300.4	300.4	300.4	300.4
0.5°	300.7	300.3	300.2	300.4	300.3	300.2
1°	300.7	300.2	300.1	300.2	300.1	300.1
1.5°	300.6	300.1	300.0	300.1	300.0	300.0
2°	300.6	300.0	299.9	300.0	299.8	299.8
2.5°	300.5	299.8	299.7	299.8	299.7	299.7
3°	300.3	299.7	299.5	299.6	299.5	299.5
3.5°	300.2	299.5	299.3	299.3	299.3	299.2
4°	300.0	299.2	299.1	299.0	299.0	298.8
4.5°	299.8	298.9	298.8	298.7	298.6	298.5
5°	299.5	298.6	298.5	298.4	298.3	298.2
5.5°	299.3	298.2	298.1	298.0	298.0	297.9
6°	298.9	297.9	297.7	297.7	297.6	297.5
6.5°	298.6	297.5	297.4	297.2	297.2	297.0
7°	298.2	297.0	297.0	296.8	296.8	296.6
7.5°	297.8	296.6	296.5	296.3	296.3	296.1
8°	297.4	296.1	296.1	295.8	295.8	295.6
8.5°	297.0	295.7	295.6	295.3	295.2	295.1
9°	296.5	295.2	295.0	294.8	294.7	294.5
9.5°	296.0	294.6	294.5	294.2	294.1	294.0
10°	295.5	294.0	294.0	293.6	293.5	293.3
10.5°	295.0	293.4	293.4	292.9	292.9	292.6
11°	294.4	292.8	292.7	292.3	292.2	291.9
11.5°	293.8	292.2	292.1	291.6	291.5	291.3
12°	293.2	291.4	291.4	290.9	290.8	290.5
12.5°	292.5	290.7	290.7	290.2	290.1	289.7
13°	291.8	290.0	290.0	289.4	289.3	288.9
13.5°	291.1	289.3	289.3	288.6	288.5	288.1
14°	290.4	288.6	288.5	287.7	287.6	287.2
14.5°	289.6	287.7	287.7	286.9	286.7	286.3
15°	288.8	286.9	286.8	286.0	285.8	285.3
15.5°	288.0	286.0	285.9	285.1	284.8	284.3
16°	287.2	285.1	285.0	284.1	283.8	283.3
16.5°	286.4	284.1	284.1	283.1	282.9	282.2
17°	285.5	283.2	283.1	282.0	281.8	281.2
17.5°	284.6	282.1	282.0	281.0	280.7	280.1
18°	283.6	281.1	281.0	279.9	279.6	278.9
18.5°	282.7	280.0	279.9	278.7	278.4	277.7
19°	281.7	278.9	278.8	277.6	277.2	276.5
19.5°	280.6	277.7	277.6	276.4	276.0	275.3
20°	279.6	276.5	276.4	275.2	274.8	274.0
20.5°	278.5	275.3	275.2	273.9	273.4	272.7
21°	277.3	274.1	274.0	272.6	272.2	271.3
21.5°	276.1	272.8	272.6	271.3	270.7	269.9
22°	274.9	271.5	271.3	269.9	269.4	268.4



TEST NUMBER: P294445

CATALOG NUMBER: RL6069S1EWHDM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	273.6	270.2	270.0	268.5	267.9	267.0
23°	272.4	268.8	268.5	267.1	266.5	265.6
23.5°	271.1	267.4	267.1	265.6	265.0	264.2
24°	269.7	266.0	265.8	264.3	263.6	262.6
24.5°	268.3	264.5	264.3	262.7	262.1	261.0
25°	266.9	263.0	262.8	261.1	260.5	259.4
25.5°	265.4	261.5	261.3	259.6	258.9	257.9
26°	264.0	259.9	259.7	258.0	257.5	256.2
26.5°	262.6	258.4	258.1	256.4	255.7	254.6
27°	260.9	256.8	256.5	254.7	254.0	252.9
27.5°	259.4	255.2	254.9	253.0	252.3	251.2
28°	257.9	253.5	253.2	251.3	250.7	249.4
28.5°	256.2	251.8	251.5	249.6	248.9	247.7
29°	254.5	250.1	249.8	247.9	247.2	245.9
29.5°	252.8	248.3	248.0	246.1	245.5	244.1
30°	251.2	246.6	246.2	244.3	243.6	242.3
30.5°	249.6	244.8	244.3	242.5	241.7	240.5
31°	247.9	243.0	242.5	240.6	239.9	238.6
31.5°	246.1	241.1	240.6	238.8	238.0	236.7
32°	244.2	239.3	238.8	236.9	236.2	234.8
32.5°	242.4	237.5	236.9	234.9	234.2	232.8
33°	240.6	235.5	235.0	233.0	232.3	230.8
33.5°	238.7	233.7	233.0	231.0	230.4	228.9
34°	236.9	231.7	231.0	229.1	228.4	226.9
34.5°	235.0	229.7	229.0	227.0	226.4	224.9
35°	233.0	227.7	226.9	225.0	224.4	222.9
35.5°	231.1	225.6	224.9	223.0	222.4	220.9
36°	229.1	223.6	222.9	220.9	220.4	218.8
36.5°	227.1	221.5	220.8	218.9	218.4	216.7
37°	225.1	219.5	218.8	216.7	216.3	214.7
37.5°	223.1	217.4	216.7	214.8	214.1	212.6
38°	221.1	215.5	214.6	212.7	212.1	210.5
38.5°	219.1	213.4	212.4	210.5	210.0	208.4
39°	217.0	211.1	210.3	208.3	207.9	206.2
39.5°	214.9	208.9	208.2	206.1	205.7	204.1
40°	212.8	206.8	206.0	203.9	203.5	201.9
40.5°	210.6	204.6	203.8	201.7	201.3	199.7
41°	208.5	202.4	201.5	199.6	199.1	197.5
41.5°	206.4	200.2	199.4	197.4	196.9	195.2
42°	204.2	197.9	197.2	195.1	194.6	193.0
42.5°	201.9	195.6	194.9	192.7	192.4	190.7
43°	199.6	193.3	192.6	190.4	190.1	188.4
43.5°	197.4	190.9	190.4	188.1	187.9	186.0
44°	195.1	188.6	188.1	185.8	185.5	183.7
44.5°	192.8	186.3	185.7	183.5	183.1	181.4



TEST NUMBER: P294445

CATALOG NUMBER: RL6069S1EWHDM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	190.5	183.9	183.3	181.1	180.8	179.0
45.5°	188.2	181.5	181.0	178.8	178.5	176.7
46°	185.8	179.0	178.6	176.3	176.1	174.3
46.5°	183.4	176.5	176.2	174.0	173.7	171.9
47°	180.9	174.1	173.8	171.5	171.3	169.4
47.5°	178.6	171.5	171.4	169.1	168.8	167.0
48°	176.1	169.0	168.7	166.6	166.2	164.5
48.5°	173.6	166.3	166.2	164.1	163.7	161.8
49°	171.2	163.7	163.6	161.5	161.1	159.2
49.5°	168.7	161.0	161.0	158.8	158.5	156.4
50°	166.0	158.2	158.3	156.1	155.7	153.4
50.5°	163.4	155.5	155.6	153.1	152.7	150.5
51°	160.8	152.7	152.7	150.3	149.9	147.5
51.5°	158.1	149.8	149.8	147.4	146.9	144.7
52°	155.3	146.9	146.9	144.5	144.0	141.7
52.5°	152.5	143.9	144.0	141.6	141.0	138.6
53°	149.5	141.0	141.0	138.4	137.9	135.6
53.5°	146.6	138.0	137.9	135.4	134.9	132.4
54°	143.7	134.8	135.0	132.3	131.8	129.3
54.5°	140.6	131.8	131.8	129.2	128.6	126.1
55°	137.6	128.9	128.7	126.1	125.4	123.1
55.5°	134.5	125.8	125.7	123.1	122.3	120.0
56°	131.6	122.7	122.6	119.9	119.1	116.9
56.5°	128.6	119.7	119.5	116.8	116.0	113.8
57°	125.4	116.5	116.4	113.7	112.9	110.6
57.5°	122.2	113.4	113.4	110.5	109.8	107.4
58°	119.1	110.3	110.1	107.3	106.6	104.3
58.5°	116.1	107.3	107.0	104.3	103.5	101.2
59°	113.1	104.3	104.1	101.1	100.3	98.1
59.5°	110.0	101.2	100.9	98.1	97.2	95.0
60°	106.9	98.2	97.8	94.9	94.2	91.9
60.5°	103.8	95.2	94.8	92.0	91.2	88.9
61°	100.6	92.2	91.8	88.9	88.2	85.8
61.5°	97.6	89.2	88.8	85.8	85.2	82.8
62°	94.5	86.2	85.8	82.8	82.1	79.8
62.5°	91.6	83.3	82.8	79.9	79.1	76.9
63°	88.5	80.4	79.8	77.0	76.2	74.0
63.5°	85.6	77.6	77.0	74.1	73.3	71.2
64°	82.5	74.7	74.1	71.4	70.6	68.3
64.5°	79.6	71.8	71.2	68.4	67.6	65.5
65°	76.8	69.2	68.5	65.6	64.8	62.7
65.5°	73.9	66.2	65.6	62.7	62.0	59.9
66°	71.1	63.5	62.8	60.0	59.2	57.2
66.5°	68.2	60.7	60.1	57.3	56.4	54.6
67°	65.4	58.1	57.4	54.7	53.8	51.9



TEST NUMBER: P294445

CATALOG NUMBER: RL6069S1EWHDM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	62.5	55.4	54.7	52.0	51.2	49.3
68°	59.8	52.8	52.3	49.3	48.6	46.7
68.5°	57.0	50.1	49.5	46.8	46.1	44.2
69°	54.4	47.6	47.0	44.2	43.6	41.8
69.5°	51.7	45.0	44.4	41.9	41.1	39.2
70°	49.1	42.6	41.9	39.3	38.6	37.0
70.5°	46.5	40.3	39.6	37.0	36.3	34.6
71°	44.1	37.9	37.1	34.6	34.0	32.4
71.5°	41.6	35.4	34.8	32.4	31.8	30.1
72°	39.0	33.2	32.6	30.1	29.6	28.0
72.5°	36.7	31.1	30.4	27.9	27.4	26.0
73°	34.3	29.1	28.3	26.1	25.5	24.1
73.5°	32.1	26.9	26.0	24.1	23.6	22.3
74°	29.8	24.8	24.0	22.2	21.7	20.5
74.5°	27.7	22.8	22.1	20.3	19.9	18.7
75°	25.7	20.9	20.3	18.6	18.2	17.0
75.5°	23.6	19.1	18.5	16.9	16.6	15.3
76°	21.6	17.4	16.9	15.3	14.9	13.8
76.5°	19.8	15.9	15.5	13.6	13.4	12.6
77°	18.0	14.4	13.8	12.4	12.1	11.4
77.5°	16.3	12.8	12.4	11.1	11.0	10.0
78°	14.8	11.6	11.2	9.8	9.6	9.1
78.5°	13.2	10.1	9.8	8.8	8.7	7.9
79°	11.8	9.1	8.8	7.9	7.7	7.1
79.5°	10.6	7.9	7.7	6.9	6.8	6.2
80°	9.6	7.1	6.8	6.0	5.9	5.8
80.5°	8.2	6.1	5.9	5.3	5.3	5.1
81°	7.3	5.5	5.2	4.8	4.8	4.5
81.5°	6.3	4.9	4.7	4.2	4.2	4.1
82°	5.9	4.3	4.1	4.0	4.0	3.7
82.5°	5.1	4.1	4.0	3.4	3.4	3.3
83°	4.4	3.5	3.3	3.1	3.1	2.9
83.5°	4.1	3.2	3.1	2.7	2.6	2.5
84°	3.8	2.8	2.5	2.4	2.3	2.3
84.5°	3.3	2.4	2.3	2.4	2.3	1.8
85°	2.9	2.3	2.2	1.7	1.7	1.5
85.5°	2.5	1.7	1.8	1.5	1.5	1.6
86°	2.3	1.4	1.4	1.6	1.4	0.7
86.5°	1.9	1.7	1.2	0.7	0.6	0.6
87°	1.6	0.7	0.6	0.6	0.5	0.5
87.5°	1.5	0.6	0.5	0.5	0.0	0.0
88°	0.8	0.4	0.0	0.0	0.0	0.0
88.5°	0.6	0.0	0.0	0.0	0.0	0.0
89°	0.5	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: P294445

CATALOG NUMBER: RL6069S1EWHDM-5000K

**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)