

## GENERATION BRANDS

## Goniophotometer Test Report

Filename: ALVA-LED-922

Lamp Output: 1 lamp, rated Lumens/lamp: 230.4

Max Candela: 421.9 at Horizontal: 125°H, Vertical: 5Å°

Luminous Opening: Point

Test Date: 02-Mar-2015 08:01:13

Test Lab: Radiant Zemax ProSource

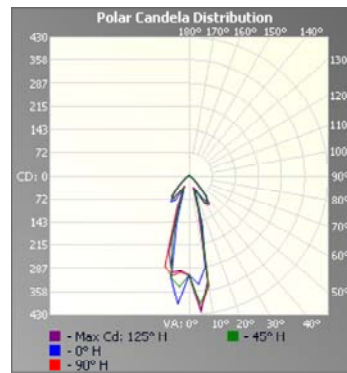
Color Constant: 2220K - 87.8CRI

Photometry : Type C

CIE Class: Direct

Cutoff Class: Cutoff

Nema Type: 3 X 5

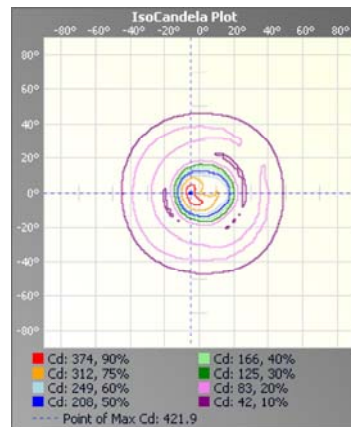
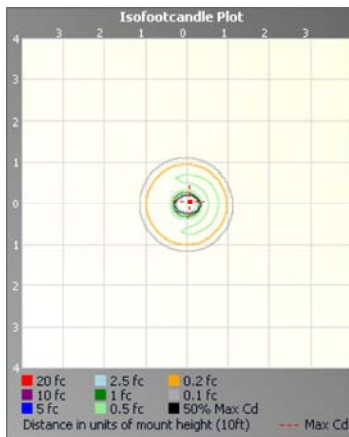


## Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	107.2	46.5%	46.5%
0-40	162.3	70.5%	70.5%
0-60	218.1	94.7%	94.6%
60-90	11.4	4.9%	4.9%
70-100	5.4	2.3%	2.3%
90-120	1.0	0.4%	0.4%
0-90	229.5	99.6%	99.6%
90-180	1.0	0.4%	0.4%
0-180	230.4	100%	100%

## Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	32.6	14.2%	90-100	0.9	0.4%
10-20	47.3	20.5%	100-110	0.0	0%
20-30	27.3	11.9%	110-120	0	0%
30-40	55.1	23.9%	120-130	0	0%
40-50	39.4	17.1%	130-140	0	0%
50-60	16.4	7.1%	140-150	0	0%
60-70	6.9	3.0%	150-160	0	0%
70-80	2.9	1.3%	160-170	0	0%
80-90	1.5	0.7%	170-180	0	0%



## Candela Table - Type C

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225		
0	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307		
5	337	345	351	361	363	374	381	388	391	398	404	406	409	410	411	415	414	415	415	417	417	419	418	419	421	422	422	421	421	420	420	416	411	412	407	403	398	393	389	382	376	370	367	357	353	344		
10	287	292	295	311	316	327	338	339	347	347	349	359	356	364	355	355	348	345	343	335	332	332	325	334	324	329	326	330	334	335	338	334	326	328	319	322	322	322	319	324	321	323	322	324	324	321		
15	160	155	149	146	146	151	148	141	140	138	136	132	130	127	126	121	117	114	112	106	104	102	104	105	108	112	118	121	123	123	128	133	134	134	134	141	151	159	164	174	181	187	188	189	196	201		
20	57	55	58	54	53	54	51	50	49	49	47	46	45	44	43	44	41	38	37	37	38	37	36	36	37	38	40	39	40	40	43	43	45	48	49	52	53	59	59	61	66	64	66	67	73			
25	45	46	46	48	49	48	51	53	52	52	53	54	53	54	54	55	55	54	55	56	55	54	54	53	53	55	55	54	54	55	54	53	55	53	53	53	53	51	50	48	47	44	43	41	40	39		
30	79	82	82	86	90	88	93	95	97	95	100	101	99	100	96	99	99	102	102	101	101	104	101	97	102	102	102	103	101	100	101	95	93	94	90	89	87	84	81	77	73	68	66	63	61	58		
35	96	97	99	100	100	99	99	102	103	103	105	106	104	105	106	106	106	107	108	108	108	109	108	107	106	109	109	108	108	107	102	101	101	100	100	98	98	97	96	95	93	91	90	90	89	86		
40	82	78	79	81	80	80	79	77	81	78	81	79	79	79	79	79	77	77	80	77	79	78	80	80	80	80	83	79	83	78	78	78	78	76	75	76	78	77	78	81	84	84	84	84	86	83		
45	51	50	47	47	47	46	46	43	45	43	43	44	43	43	41	43	43	44	41	44	40	41	39	41	41	40	41	40	42	41	42	43	43	44	45	46	49	49	49	50	51	53	54	53	55	54		
50	29	28	28	28	27	27	27	27	27	27	26	25	25	25	25	25	24	24	24	24	24	23	23	24	24	24	24	24	24	24	24	25	26	26	27	27	28	28	29	29	30	30	32	31	32			
55	17	17	18	18	18	17	17	17	17	17	17	16	16	16	16	16	16	16	15	15	15	15	15	15	15	15	15	15	15	16	16	16	17	17	17	18	17	18	18	18	18	19	19	19	19			
60	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	11	11	11	11	11	11	12	12	12		
65	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7				
70	4	4	4	5	4	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5		
75	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3		
80	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
85	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	1	1	1	1	1	1			
90	1	1	1	1	2	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	1	1	1	1	1	2	1	2	1	2	2	2			
95	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	1	1	1	1	1	1			
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

## Luminaire Report Summary

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Reported data calculated from manufacturer's data file, based on IES recommended methods.