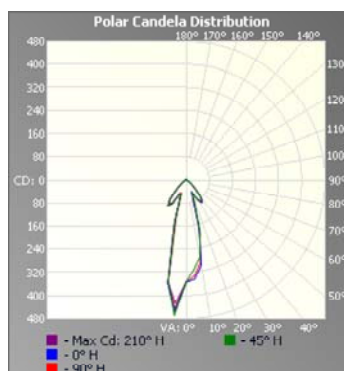


GENERATION BRANDS

Goniophotometer Test Report

Filename: ALVA-LED-930
Manufacturer: TECH LIGHTING
Lamp Output: 1 lamp, rated Lumens/lamp: 240.5
Max Candela: 473.3 at Horizontal: 210°, Vertical: 5Â°
Luminous Opening: Point
Test Date: 27-Feb-2015 08:24:17
Test Lab: Radiant Zemax ProSource
Color Constant: 2933K - 96.1CRI
Photometry: Type C
CIE Class: Direct
Cutoff Class: Cutoff
Nema Type: 5 X 5

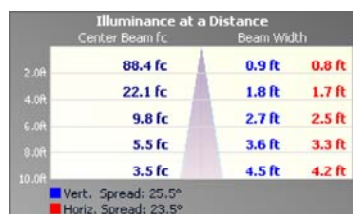
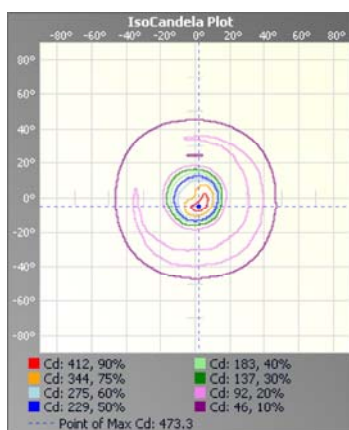
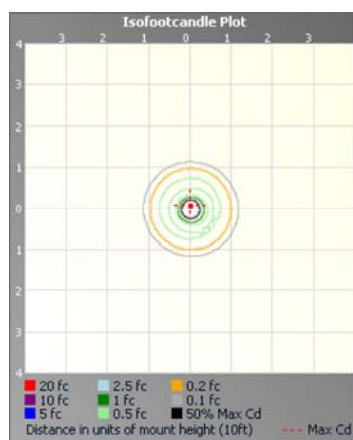


Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	109.4	45.5%	45.5%
0-40	167.7	69.7%	69.7%
0-60	227.0	94.4%	94.4%
60-90	12.4	5.2%	5.2%
70-100	5.9	2.4%	2.4%
90-120	1.1	0.5%	0.5%
0-90	239.4	99.5%	99.5%
90-180	1.1	0.5%	0.5%
0-180	240.5	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	34.8	14.5%	90-100	1.1	0.4%
10-20	45.9	19.1%	100-110	0.0	0%
20-30	28.6	11.9%	110-120	0	0%
30-40	58.4	24.3%	120-130	0	0%
40-50	41.5	17.3%	130-140	0	0%
50-60	17.7	7.4%	140-150	0	0%
60-70	7.6	3.2%	150-160	0	0%
70-80	3.2	1.3%	160-170	0	0%
80-90	1.6	0.7%	170-180	0	0%



Candela Table - Type C

	base type																																															
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	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354		
5	344	337	332	326	323	318	316	313	312	311	310	311	312	315	316	319	323	327	333	340	347	355	361	367	377	386	390	401	412	416	427	430	436	442	448	452	457	461	464	468	466	470	473	472	472	470	470	
10	300	293	288	286	281	280	277	275	273	272	273	275	276	280	280	283	284	285	288	290	293	298	302	311	316	326	329	335	343	349	356	360	359	366	358	363	365	361	354	363	356	360	362	358	358	354	354	
15	173	173	172	176	178	180	180	180	184	187	189	187	186	185	185	182	180	178	177	178	176	168	164	160	159	159	164	162	162	161	166	170	170	169	158	156	155	148	142	141	147	148	146	146	150	151	151	
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70	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
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90	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2	2	2	2	2	1	1	1	1	1	1	2	2	2	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	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		

