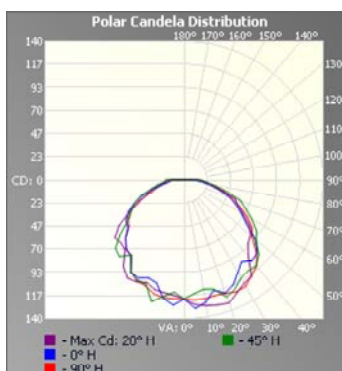


GENERATION BRANDS

Goniophotometer Test Report

Filename: 16091 - BOXIE SMALL LED
Manufacturer: TECH LIGHTING
Lamp Output: 1 lamp, rated Lumens/lamp: 435.3
Max Candela: 132.0 at Horizontal: 20°, Vertical: 20°
Input Wattage: 12
Luminous Opening: Point
Test Date: 29-Sep-2016 09:29:43
Test Lab: GENERATION BRANDS INTERNAL TESTING
Color Constant: 2885K - 84.0 CRI
Photometry : Type C
CIE Class: Direct
Cutoff Class: Semicutoff
Nema Type: 5 X 7

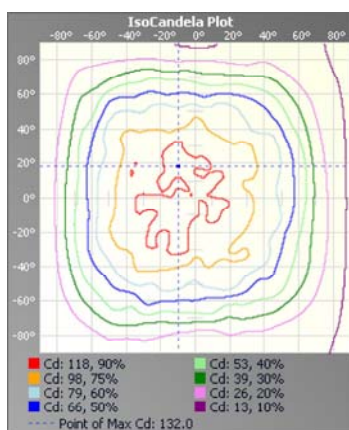
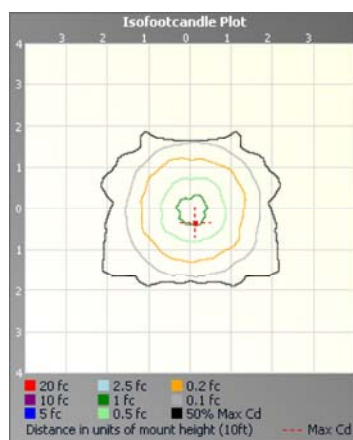


Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	99.0	22.7%	22.7%
0-40	166.4	38.2%	38.2%
0-60	310.2	71.3%	71.3%
60-90	120.8	27.8%	27.8%
70-100	66.4	15.3%	15.3%
90-120	4.3	1%	1%
0-90	431.0	99%	99%
90-180	4.3	1%	1%
0-180	435.3	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	11.6	2.7%	90-100	4.3	1%
10-20	34.0	7.8%	100-110	0	0%
20-30	53.5	12.3%	110-120	0	0%
30-40	67.4	15.5%	120-130	0	0%
40-50	73.5	16.9%	130-140	0	0%
50-60	70.3	16.1%	140-150	0	0%
60-70	58.7	13.5%	150-160	0	0%
70-80	39.9	9.2%	160-170	0	0%
80-90	22.2	5.1%	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	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120		
5	130	130	130	128	126	123	121	117	115	115	119	121	125	130	132	131	128	125	121	118	117	118	118	119	119	120	120	120	121	121	122	123	123	124	125	126	126	127	124	122	118	117	113	111	112	112	113	113
10	125	126	128	129	129	125	120	117	112	112	114	117	120	125	126	125	123	122	121	120	120	120	120	119	119	121	123	125	126	126	125	125	125	124	122	122	121	120	118	117	115	114	114	116	118	119	119	119
15	115	119	123	127	130	127	123	119	115	114	113	113	113	114	114	114	115	117	120	124	126	125	123	121	119	122	125	129	132	130	128	126	123	119	115	111	108	109	111	113	114	118	121	124	128	127	127	
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65	57	58	59	59	60	63	66	66	65	68	73	76	74	72	69	66	65	63	61	60	65	68	68	66	65	66	65	60	60	66	67	60	56	55	54	55	55	56	57	53	48	49	52	53	53	55		
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80	26	26	25	26	28	30	31	32	32	31	31	31	31	34	36	32	29	30	30	31	31	32	32	33	34	35	36	36	35	32	30	29	28	25	22	21	20	20	23	27	26	24	25	26	25			
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90	10	11	12	13	14	17	18	18	17	17	18	18	17	16	15	14	13	13	13	14	14	16	18	19	19	19	18	18	18	18	17	16	15	14	14	13	13	14	15	17	18	19	19	19	19			
95	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			
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.