

T8 HO LED LAMPS VS. T8 FLUORESCENT LAMPS



These tests were taken to compare Active Grow T8 22W HO 4FT LED Horticultural Lamps and T8 32W 4FT fluorescent lamps in a 2 tube T8/T12 fixture. The test focuses on three main areas: Energy Consumption, Spectral Analysis and PPFD Coverage*



T8 FLUORESCENT LAMPS

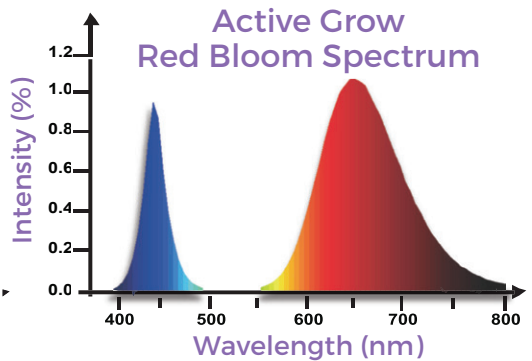
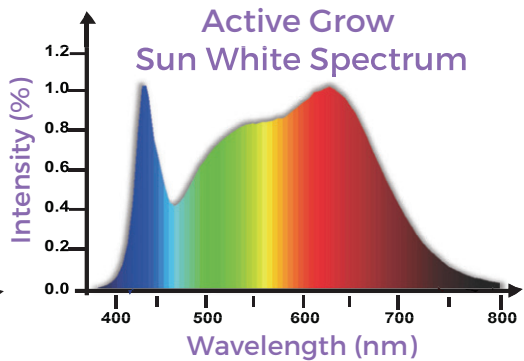
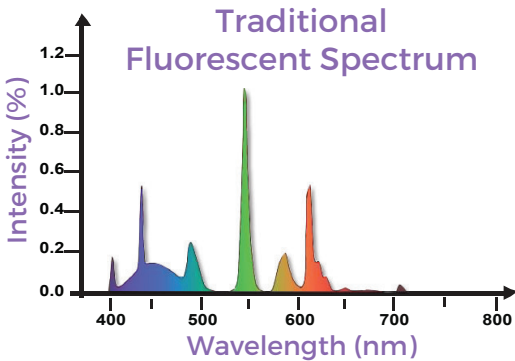
120V / 55.8 WATTS / 0.81 AMPS



T8 HO LED LAMPS

120V / 44.2 WATTS / 0.38 AMPS
14.6 WATTS SAVED OR 25% ENERGY SAVINGS
50% AMPERAGE SAVINGS

SPECTRAL ANALYSIS



T8 FLUORESCENT 2 TUBE FIXTURE PPFD READINGS**

T8 HO LED SUN WHITE 2 TUBE FIXTURE PPFD READINGS**

T8 HO LED RED BLOOM 2 TUBE FIXTURE PPFD READINGS**

12" above the plant canopy

12"	20	26	30	31	30	28	22
6"	37	45	50	54	50	47	38
0"	51	59	71	73	68	61	49
6"	41	51	57	57	59	50	42
12"	24	31	31	34	33	29	22
	18"	12"	6"	0"	6"	12"	18"

12" above the plant canopy

12"	29	34	36	37	34	30	24
6"	54	70	77	78	73	66	48
0"	72	99	104	113	105	100	77
6"	55	73	83	84	82	73	55
12"	27	35	41	41	41	36	29
	18"	12"	6"	0"	6"	12"	18"

12" above the plant canopy

12"	20	27	30	30	29	25	22
6"	40	55	59	61	60	54	41
0"	58	75	83	87	83	75	58
6"	49	58	62	62	58	52	39
12"	25	28	32	33	31	28	24
	18"	12"	6"	0"	6"	12"	18"

6" above the plant canopy

12"	17	19	22	23	21	18	16
6"	58	70	74	78	73	70	57
0"	121	142	148	153	145	139	119
6"	62	74	78	80	76	72	60
12"	19	21	26	25	22	19	17
	18"	12"	6"	0"	6"	12"	18"

6" above the plant canopy

12"	18	21	22	23	23	21	18
6"	56	75	86	98	95	84	56
0"	170	200	206	211	208	200	171
6"	82	92	93	94	93	87	72
12"	22	24	29	30	28	26	18
	18"	12"	6"	0"	6"	12"	18"

6" above the plant canopy

12"	17	19	20	23	21	19	18
6"	55	76	77	82	77	74	54
0"	136	160	165	170	166	160	137
6"	68	80	83	84	83	77	62
12"	20	22	27	28	26	23	18
	18"	12"	6"	0"	6"	12"	18"

*Power readings taken using Active Grow 22W T8 HO Horticultural Lamps and Phillips 32W T8 lamps in 6500K CCT fluorescent lamps in a Lithonia 1233 RE 2-light fixture. Power factor of ballast influences fluorescent performance and varies based on fixture/ballast type.
**PPFD calculations taken using a Plant Lighting Analyzer and do not include reflective surfaces or adjacent lights.

AG-T8HO-4FT-TEST-DATA-052918

