

# T5 HO LED LAMPS VS. T5 HO FLUORESCENT LAMPS



These tests were taken to compare Active Grow T5 24W HO 4FT LED Horticultural Lamps and T5 HO 54W 4FT fluorescent lamps in an 8 tube T5 HO fixture. The test focuses on three main areas: Energy Consumption, Spectral Analysis & PPFd coverage.

## ENERGY CONSUMPTION

T5 54W HO FLUORESCENT LAMPS



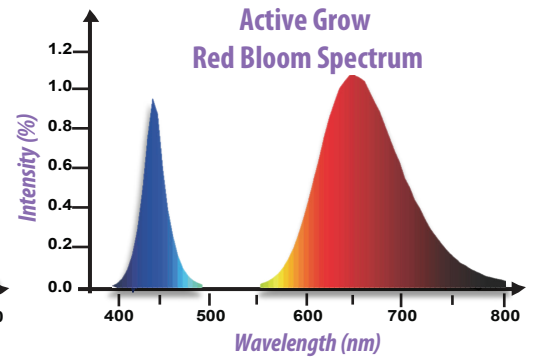
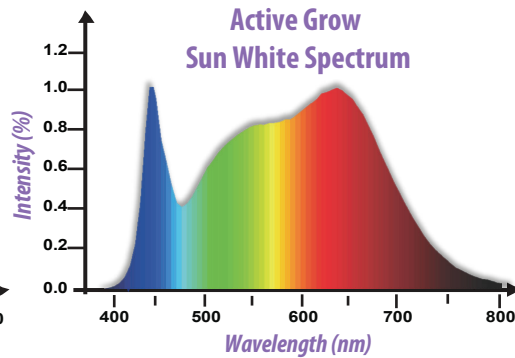
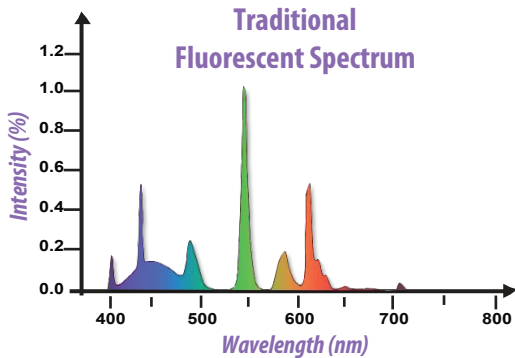
120V / 391 WATTS / 3.51 AMPS

ACTIVE GROW T5 24W HO LED LAMPS



120V / 215 WATTS / 1.96 AMPS  
176 WATTS SAVED OR 45% ENERGY SAVINGS

## SPECTRAL ANALYSIS



## 4' x 4' PPFd COVERAGE FOR T5 HO 8-TUBE FIXTURE

T5 54W HO FLUORESCENT LAMPS

24" above the plant canopy

24"	28	34	41	46	48	47	44	40	33
18"	44	57	70	77	84	76	74	62	51
12"	78	96	111	133	149	161	131	105	90
6"	121	162	187	203	225	213	210	168	120
0"	138	202	245	265	276	255	239	200	141
6"	125	162	210	230	249	230	200	160	130
12"	86	123	136	148	162	160	125	91	77
18"	56	66	83	85	90	86	74	61	50
24"	32	39	43	45	50	48	43	37	31
	24"	18"	12"	6"	0"	6"	12"	18"	24"

ACTIVE GROW T5 24W HO LED LAMPS

24" above the plant canopy

24"	42	52	60	68	73	65	64	52	46
18"	65	80	88	96	106	97	90	80	63
12"	93	128	140	153	155	153	138	115	82
6"	134	161	203	225	227	218	190	153	118
0"	153	196	236	265	269	265	260	227	171
6"	145	191	232	264	262	265	218	180	132
12"	108	135	162	180	187	182	154	123	98
18"	70	85	97	113	118	107	98	80	62
24"	49	60	69	76	79	76	68	56	46
	24"	18"	12"	6"	0"	6"	12"	18"	24"

\*PPFD calculations do not include reflective surroundings or adjacent lights.

