

PRO GROW LED - PPF Guide ( $\mu\text{mol}/\text{m}^2/\text{s}$ )								
LED FIXTURE	60 W 1 Bar	100 W UFO	200 W UFO	300 W UFO	500 W UFO	630 W 6 Bar	780 W 8 Bar	820 W Solar
Total PPF	140 $\mu\text{mol}/\text{s}$	210 $\mu\text{mol}/\text{s}$	420 $\mu\text{mol}/\text{s}$	620 $\mu\text{mol}/\text{s}$	1050 $\mu\text{mol}/\text{s}$	1720 $\mu\text{mol}/\text{s}$	1950 $\mu\text{mol}/\text{s}$	2000 $\mu\text{mol}/\text{s}$
PPF Efficacy	2.4 $\mu\text{mol}/\text{J}$	2.1 $\mu\text{mol}/\text{J}$	2.1 $\mu\text{mol}/\text{J}$	2.1 $\mu\text{mol}/\text{J}$	2.1 $\mu\text{mol}/\text{J}$	2.73 $\mu\text{mol}/\text{J}$	2.6 $\mu\text{mol}/\text{J}$	2.5 $\mu\text{mol}/\text{J}$
Kelvin	6.5K	4K	4K	4K	4K	4K	3.8 / 4.2K	5K
CRI	90	90	90	90	90	91.8	92.6	81.5
Coverage	0.5 $\text{m}^2$	0.5 $\text{m}^2$	0.75 $\text{m}^2$	1 $\text{m}^2$	1.2 $\text{m}^2$	1.5 $\text{m}^2$	2.25 $\text{m}^2$	1.5 $\text{m}^2$
Output PPF ( $\mu\text{mol}/\text{m}^2/\text{s}$ )	250 @ 30 cm	342 @ 30 cm	730 @ 30 cm	1250 @ 30 cm	1297 @ 40 cm	985 @ 30 cm	1227 @ 30 cm	1436 @ 90 cm

STAGE	Required $\mu\text{mol/s}$	Recommended Height Of LED Fixture Above The Canopy @ 100% Intensity							
Clones	75 - 125	40 - 60 cm	95 cm	110 cm	120 cm	150 cm	150 cm	160 cm	-
Mother Plants	400 - 600	-	20-15 cm	30-45 cm	80-65 cm	110-90 cm	110-60 cm	115 - 85 cm	200-180 cm

### GROWTH CYCLE

Early Vegetative	125 - 200	45-30 cm	75-55 cm	100-90 cm	110-100 cm	130-90 cm	130-120 cm	130 - 120 cm	270 cm
Late Vegetative	200 - 300	30-20 cm	55-35 cm	90-75 cm	100-85 cm	120-110 cm	120-110 cm	120 - 110 cm	240 cm

### FLOWERING CYCLE

Week 1	300 - 400	-	45-30 cm	80-70 cm	90-80 cm	110-105 cm	110-105 cm	120 - 110 cm	220 cm
Week 2	400 - 500	-	35-20 cm	75-55 cm	80-70 cm	110-100 cm	105-80 cm	110 - 90 cm	200 cm
Week 3	500 - 600	-	20-15 cm	55-45 cm	70-65 cm	100-90 cm	80-65 cm	90 - 80 cm	180 cm
Week 4	600 - 700	-	10 cm	45-35 cm	65-55 cm	90-70 cm	65-55 cm	75 - 60 cm	160 cm
Week 5	700 - 750	-	-	35-30 cm	55 cm	70-65 cm	55 cm	65 cm	140 cm
Week 6	750 - 850	-	-	30-25 cm	55-50 cm	65-60 cm	50-45 cm	60 - 55 cm	120 cm
Week 7-9	900+	-	-	20 cm	45 cm	55 cm	40 cm	50 cm	110 cm



# Model Z Smart Controller



Controls up to:  
80 x Model Z  
Via RS-485  
connection



Optional PPFD sensor  
(sold separately)



Temperature / humidity  
sensor included



On/ Off Timing



Sunrise & Sunset



Temperature  
& Humidity



Touch Screen



PPFD output  
control

# RS-485 Controller for Model Z 780 W LED

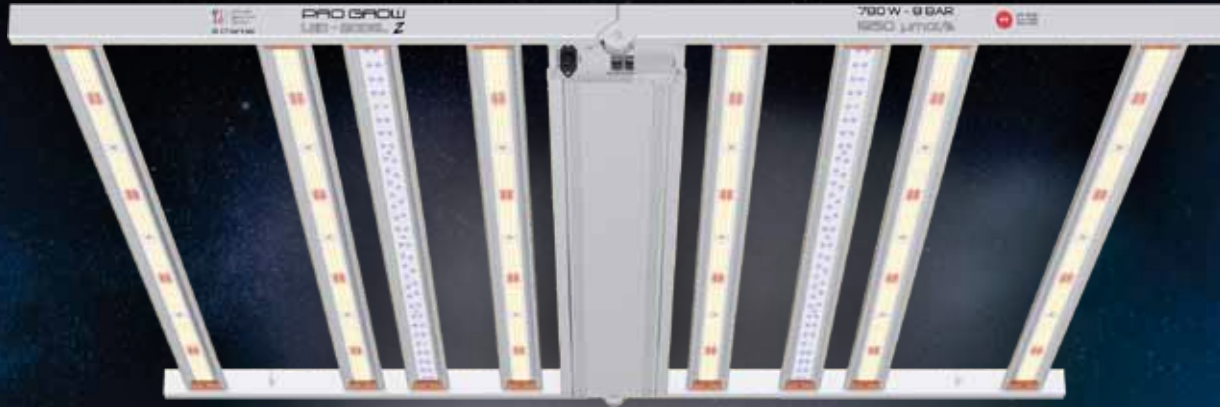


**PRO GROW**  
INDUSTRY LEADING PERFORMANCE



**Ultimate  
Spectrum  
Control**

# Full Spectrum Horticultural Light



## LED - MODEL Z



**PRO GROW**  
INDUSTRY LEADING PERFORMANCE



# 780 W 8 Bar

## LED Model Z 780 W 8 Bar

1,870  $\mu\text{mol/s}$  PPF

1,950  $\mu\text{mol/s}$  BPF (ePar)

2.6  $\mu\text{mol/J}$

Full Spectrum

Samsung LM301H White

Osram Hyper Red and Far Red

Optimum UVA & UVB

Optimum Driver

Weight 13.7 kg

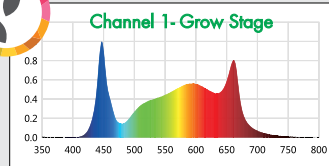
Dimensions 110 x 106 x 5 cm

### AMPERAGE @240 V

780 W

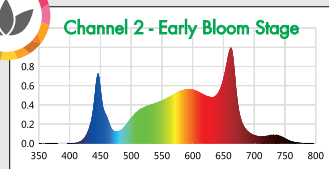
3.25 A

## 3 CHANNEL ADJUSTABLE SPECTRUM



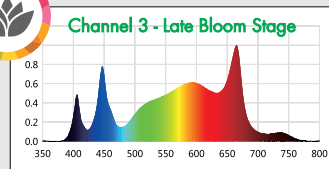
### Increased Blue

Deep blue (5K) targets peak chlorophyll & photosynthesis production for boosted vegetative growth & plant vigour.



### Increased Red & Far-red

Higher Red and Far-red output (4K) for increased production in flowering plants. The right amount of Far-red light engages Emerson Effect, encourages early node staging and more flower sites.



### Increased Red, Far-red + UVA/UVB

UV & Red & Far-red offers maximum BPF (ePar). This encourages lateral branching, less stretching, enhanced flower size and improves essential oils, taste and aroma.