

PRO GROW

LED - MODEL UCL



HIGH RED 3.0
3.0 $\mu\text{mol/J}$

MID RED 2.8
2.8 $\mu\text{mol/J}$

PRO GROW LED MODEL UCL

The PRO GROW LED 160 W Model UCL LEDs are available in two different spectrums; based on the top lighting being used. The goal is to bring more light to the under canopy whilst supplementing additional spectrums & wavelengths. This is called spectrum balancing. The result is up to 30% more yield, consistently larger flowers over the entire plant and even maturation of all flowers at harvest.

OUTPUT AND EFFICACY

HR 3.0

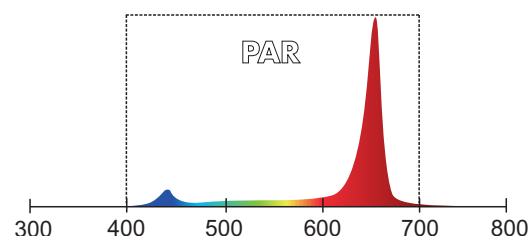
- Total PPF - 480 $\mu\text{mol/s}$
- Efficacy - 3.0 $\mu\text{mol/J}$
- CRI 31 - Mixed Spectrum
- Colour Temp - 1750 K

MR 2.8

- Total PPF - 448 $\mu\text{mol/s}$
- Efficacy - 2.8 $\mu\text{mol/J}$
- CRI 80 - Full Spectrum
- Colour Temp - 4440 K

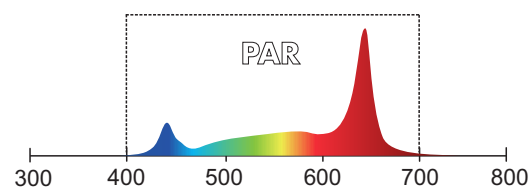
HR 3.0 (80% red)

Use With Full Spectrum LED Top Lights



MR 2.8 (60% red)

Use With HPS Top Lights



WHY USE UNDER CANOPY LIGHTING (UCL)

The under canopy is typically starved of photons. Increasing under canopy light to match similar outputs to the top canopy greatly increases the photo synthetic efficiency of sub canopy leaves and flowers. PRO GROW UCL LEDs increase the utility per m² of your grow space and lift the commercial return of sub canopy flowers that are otherwise undeveloped at harvest. By increasing light intensity between 200 to 500 $\mu\text{mol m}^{-2} \text{s}^{-1}$ to the sub canopy, growers have seen large productivity increases of up to 30%. Adding PRO GROW UCL LEDs to your grow space virtually doubles your canopy footprint.

Upgrade your cultivation plans and leave no bud behind. By utilizing our specially designed UCL LEDs you can maximise your growth and yields by illuminating the previously under lit areas of your plant's sub canopy.

UCL BENIFITS

- Improved B -bud structure, density, bag appeal & yield.
- Compact, lightweight, easy to install, work around & remove.
- Two optimised spectrums - proven by growers world wide.
- IP65 rating for easy cleaning and increased reliability.
- Fully protected from irrigation leaks, spills & foliar sprays.
- Power chain & data chain 'multiple fixtures' via a single cable.



PPFD LIGHT DISTRIBUTION CHARTS - HR 3.0

Height - 30 cm

120CM (4FT)						
120CM (4FT)	23	67	202	200	64	23
	33	111	385	395	111	32
	39	137	465	470	131	38
	38	175	472	490	136	38
	33	112	413	421	114	32
	32	66	202	203	63	23

Height - 60 cm

120CM (4FT)						
120CM (4FT)	47	88	132	133	86	46
	64	125	199	201	121	62
	74	150	241	247	150	73
	74	150	244	246	150	73
	63	129	206	208	127	62
	46	86	137	137	88	47

Height - 90 cm

120CM (4FT)						
120CM (4FT)	51	71	92	91	72	51
	63	90	120	118	92	64
	70	102	133	136	105	72
	69	102	137	136	105	72
	62	90	119	119	92	64
	48	69	91	90	70	51

PPFD LIGHT DISTRIBUTION CHARTS - MR 2.8

Height - 30 cm

120CM (4FT)						
120CM (4FT)	23	57	165	187	66	23
	31	98	350	408	115	34
	36	111	394	452	134	38
	36	110	380	435	127	38
	29	93	324	375	106	32
	20	54	166	182	61	23

Height - 60 cm

120CM (4FT)						
120CM (4FT)	44	75	111	113	76	43
	58	111	173	175	112	58
	66	126	204	208	130	66
	65	125	202	203	126	66
	56	105	168	168	106	56
	41	73	109	109	73	42

Height - 90 cm

120CM (4FT)						
120CM (4FT)	47	64	79	80	66	46
	57	84	105	106	86	58
	63	94	120	122	97	64
	63	93	120	121	96	64
	56	81	104	105	84	57
	44	62	77	78	63	46

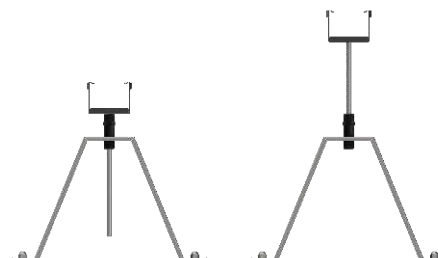
PRO GROW ULC 160 W LED BARS



PRO GROW 160 W ULC LED bars are constructed of durable die-cast aluminium housings that offer cool, fanless & totally silent operation. Extended reliability is assured with IP-65 water resistant, washable housings. Fixtures can be daisy chained with up to 14 fixtures in a row (10 A Max). Power and data chaining are through the same connection (no extra wires required). Further advanced controllability via a 0-10V Master Controller (sold separately). Adjustable LED stands are available for immediate and easy sub canopy mounting (sold separately).



2 x legs and mounts
(sold separately)



2 x MODELS (HR 3.0 or MR 2.8)



The PRO GROW 160 W ULC LED bars blends top bin SMD Optimum brand diodes for an outstanding efficacy of up to 3.0 $\mu\text{mol/J}$. There are two different spectrums available; HR (high red) and MR (mid red). The choice to use one or the other is based on the type of top lighting being used (HR for LED top lights or MR for HPS top lights). This is called spectrum balancing. The goal is to supplement additional spectrums and wavelength that may be lacking in current lighting layouts. This gives cultivators greater control over the overall quality of product being produced over the entire plant including mid and lower level canopy flowers regardless of existing top lighting formats.

3 m 240 V Input Power Cable
with 0-10 V Control Cable
(sold separately)



0.9 m 240 V Connection Cable
(sold separately)



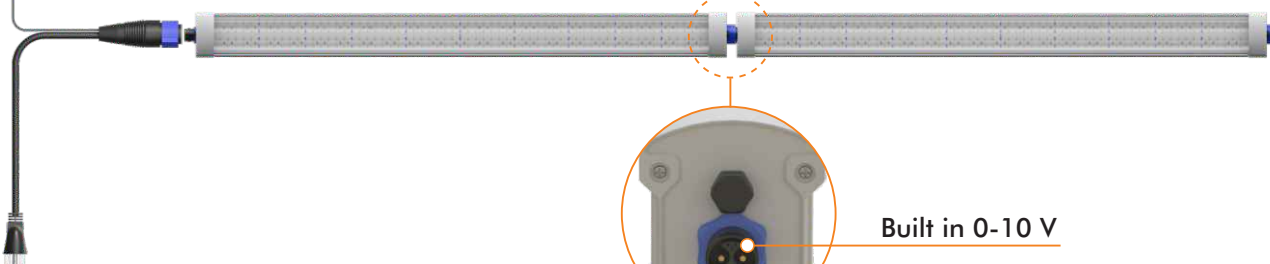
SMART CONTROLLER COMPATIBLE



- Compatible with PRO GROW Smart Controllers (sold separately).
- Power and data chain via same connection.
- Connect up to 14 Lights in a row (Max 10 A).



• Input power cable with control cable

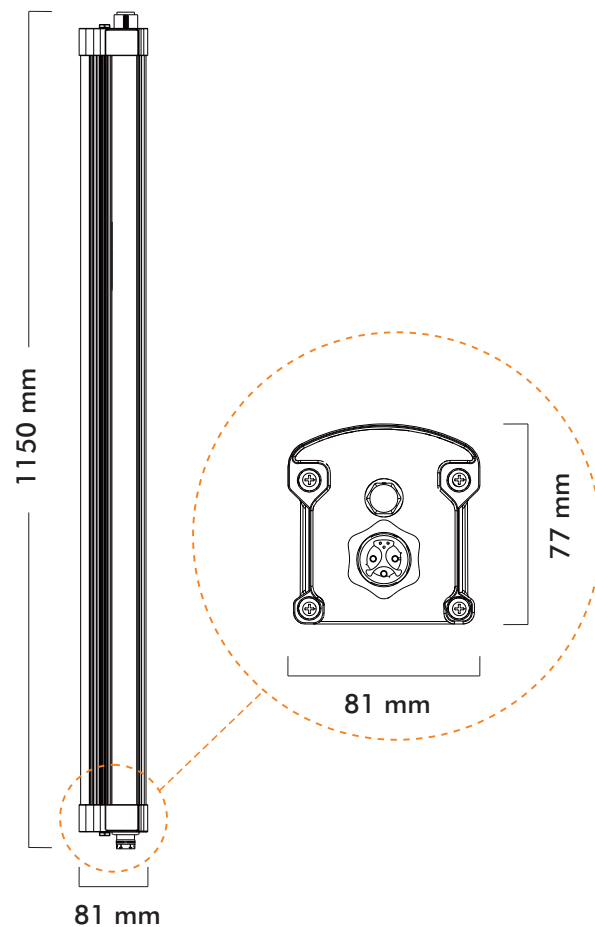


Built in 0-10 V

SPECIFICATIONS

Models:	UCL - 160 W (HR & MR)
Light Source - HR:	336 x Single Mount Diode LED's
Light Source - MR:	704 x Single Mount Diode LED's
Input Voltage:	220-277 V AC
Frequency Range:	50~60 Hz
Power/Watts:	160 W
Net Weight:	22 kg
Light Beam Angle:	120 Degree
Body Case Material:	Die Cast/Pressed Aluminum
IP Grade:	IP65 (wash down proof)
Size:	L-1150 mm x W-77 mm x H-81 mm
Lifespan:	>50,000 Hours
Min Operating Temp:	-40°C
Max Operating Temp:	40°C
Warranty:	3 Year Warranty

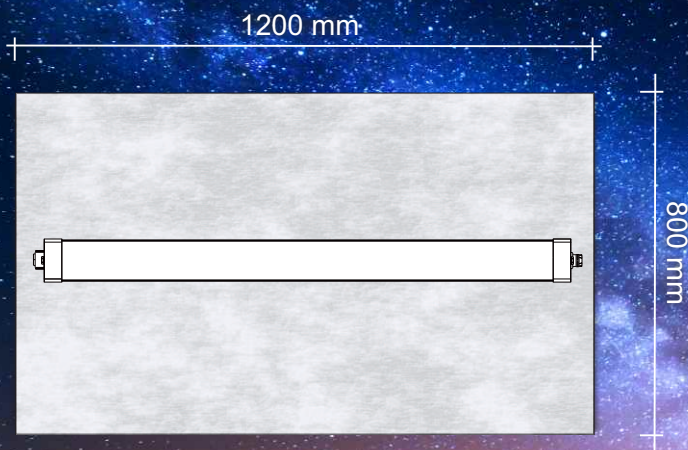
DIMENSIONS



VOLTAGE

VOLTAGE	240 V
AMPERAGE	0.67 A

MAXIMUM RECOMMENDED LIGHT COVERAGE



SCAN FOR MORE INFO



www.progrow.net.au

