



TELOS PRO [Slimline]

Effective from January 2021 production

TELOS

Specialists in LED Technology for Horticulture

Company

Since 2011 Telos has been researching, developing and manufacturing the very latest in LED grow light technology. Our expertise, knowledge & exacting standards are channelled into every engineering aspect that defines a Telos system.

Mission

High performance Osram LEDs, robust mechanical build and detailed photometric certifications come together to create an exemplary piece of British engineering. Our production facility is located within the historic City of Durham in the UK, where each unit is hand-crafted by a local expert. The people who work at Telos share our vision, to provide high quality, locally built products that are designed to last.





Key Features

- Wattage: 285w
- Efficiency: 2.5µmol (verified)*
- Lifespan: up to L80
- Form factor: Compact build
- Cooling: Silent, passive cooling
- Light Engine: Osram LED
- IP Rating: IP66 water and dust proof
- Supply: Safe Extra Low Voltage [SELV]
- Optic model: High uniform distribution
- Origin: UK design and manufacture

* All Telos systems are independently tested and verified to confirm and validate photometric claims, power consumption and photo-biological safety.

Technology

Intelligent design encourages laminar movement of airflow through the heatsink for rapid heat dissipation. Photometric power is generated by 3rd Gen, high efficiency OSRAM Duris 5050 and OSRAM Hyper Red LED modules.

The Telos platform is built with the future in mind, a modular design allows for parts to be upgraded and serviced when necessary. Backwards compatibility of components and upgrades is a standard throughout the Telos range.

TELOS 10 PRO



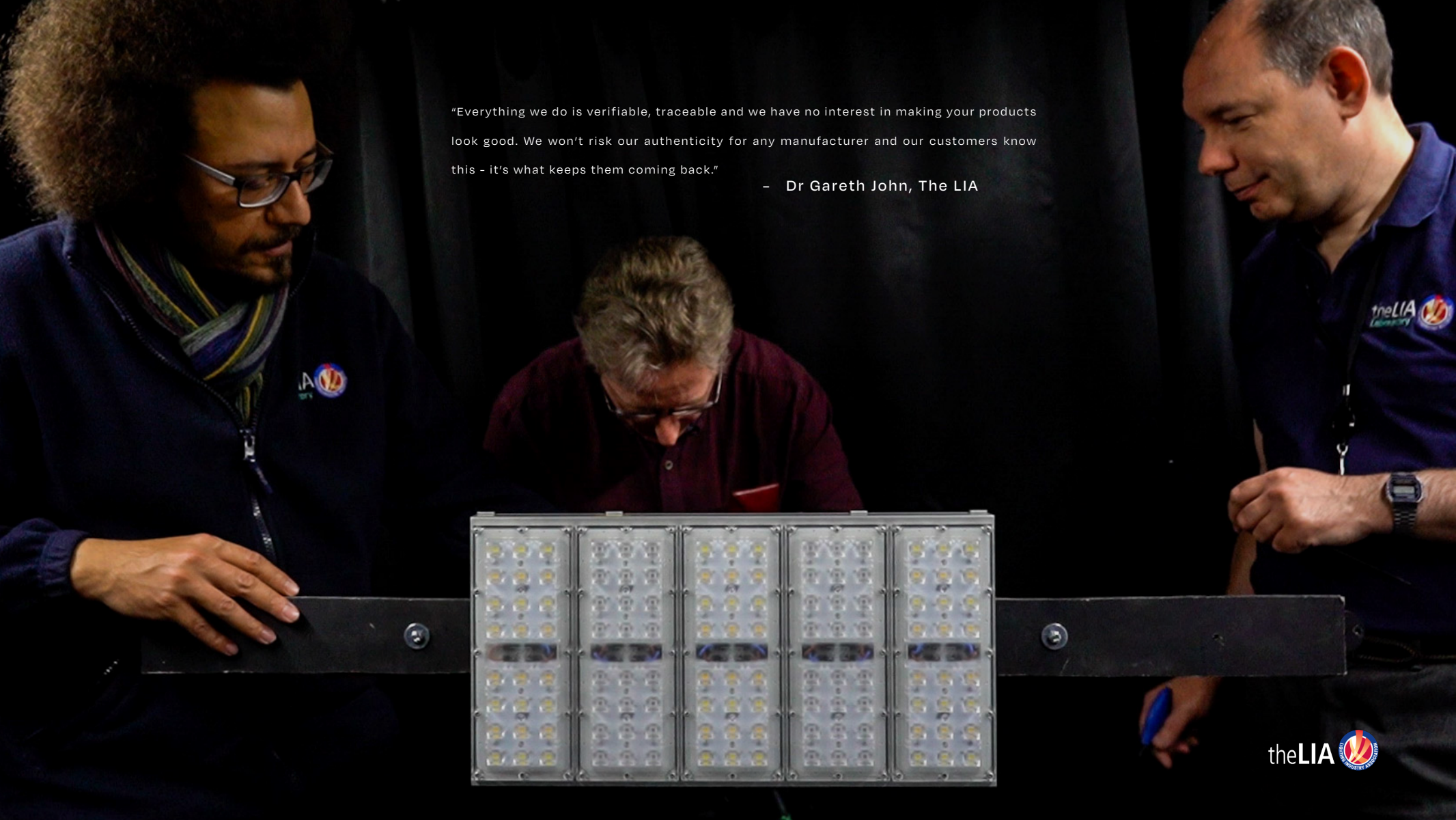
Engineered for Growth

1. Telos optics are designed by horticultural experts to deliver more usable light to the canopy whilst maintaining a homogeneous distribution.
2. Robust, long life design; suitable for indoor grow spaces and also IP66 rated for outdoor use in harsh environments.
3. High CRI, full spectrum LED; performs optimally throughout all stages of the plants life cycle.
4. High quality twist-lock electrical connecting equipment, safe and easy to install.



"Everything we do is verifiable, traceable and we have no interest in making your products look good. We won't risk our authenticity for any manufacturer and our customers know this - it's what keeps them coming back."

- Dr Gareth John, The LIA



VERIFIED RESULTS

How We Test Telos Systems

All Telos systems are tested at The LIA Laboratory in Telford, the largest independent test laboratory in Europe dedicated to lighting. Products are tested in the state-of-the-art photometry department to validate performance claims and receive certification.

Why We Test:

Our most important company value is to provide the customer with detailed information of the products they are investing in.

We don't use estimated figures or inflated numbers; we only provide photometric data from professional laboratories utilising integrating spheres and goniometers. Meaning the information we educate the customer with is always transparent and accurate.

Photometric	Telos 6 Pro	Telos 10 Pro	Unit
PBAR (380-780nm)	420	703	μmol / s
PPF (400-700)	410	680	μmol / s
Efficiency	2.4	2.5	μmol / s
CRI	87	86	-
Colour Temp.	3450	3160	Kelvin
Beam angle	87	87	Degrees
Eye safety	RG1	RG1	IEC62471-2009

Electrical

Power input	175	285	W
Voltage input range	90-305	90-305	V-AC: 47-63Hz
Input current	0.76	1.25	A
Max linked units	10	6	-

Mechanical

Weight	4	6.5	Kg
Dimensions	309x236x113	519x236x177	mm
Ingress protection	IP66	IP66	ICE60529
Operating temperature	30-38	28-33	°C + ambient

PPFD Map

611	606	614	621	611	619	611	613	603	611
597	627	617	611	609	613	604	615	612	600
609	602	609	603	605	609	606	615	608	609
603	616	601	607	602	605	613	626	612	611
615	620	620	609	607	614	613	614	616	607
614	614	601	615	603	607	608	617	611	612
607	601	612	633	602	609	610	618	609	611
602	609	607	605	610	611	612	606	609	603
602	614	609	618	613	616	615	605	612	608
598	614	621	618	621	611	615	618	617	599

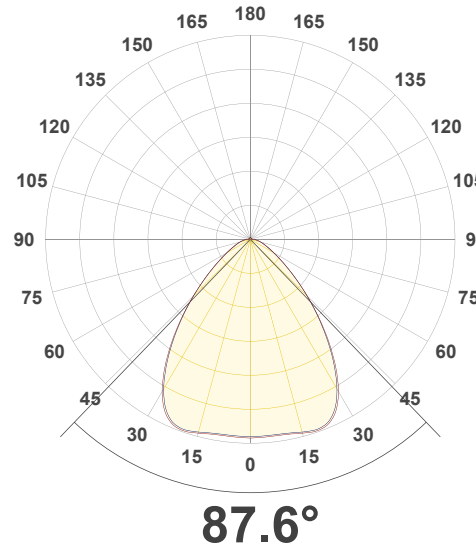
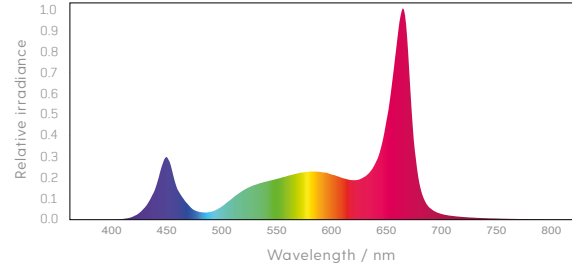
Model

10 Pro

376	377	378	382	379	381	380	380	374	378
373	383	384	380	376	380	374	378	376	373
372	372	374	375	378	373	374	376	378	381
380	379	372	373	369	378	375	387	380	379
381	386	377	377	375	381	373	379	377	381
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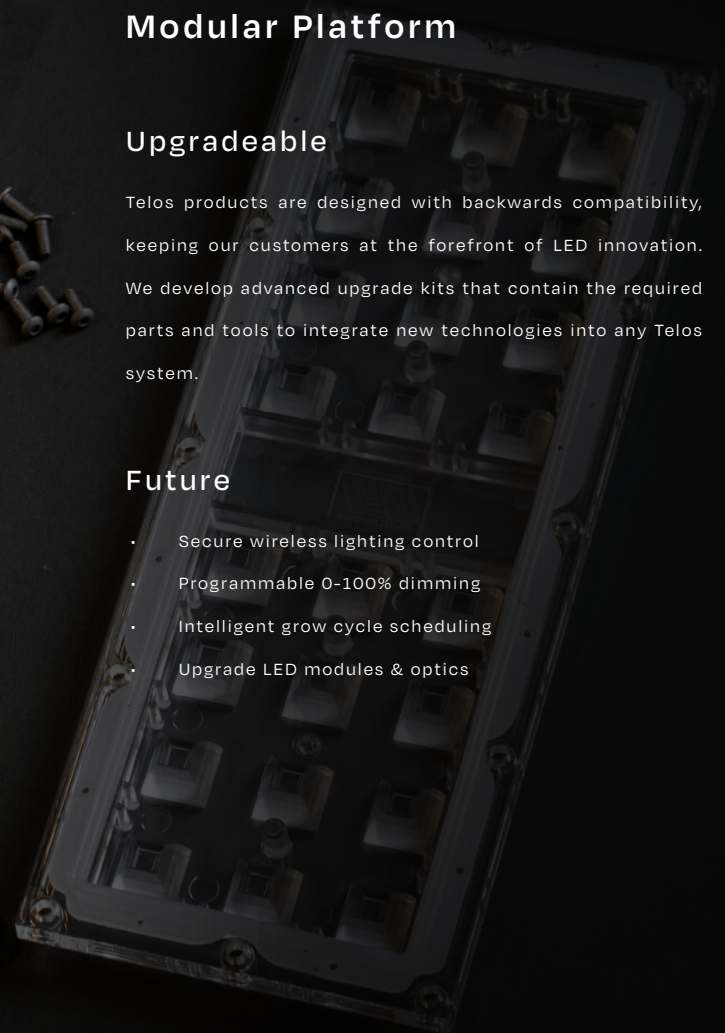
6 Pro

Photometric



Explanatory Notes

1. PPFD map data was simulated using independently tested photometric results. Refer to website for full test report.
2. Wall reflectivity within the simulation was set at 90% based on typical Mylar grow tents.
3. Mounting height within the simulation was fixed at 800mm above the target area.
4. Spectrum and beam angle data collected from integrating sphere and goniometer testing of the Telos 10 Pro.
5. All testing is completed with the system operating at steady state temperature.



Modular Platform

Upgradeable

Telos products are designed with backwards compatibility, keeping our customers at the forefront of LED innovation. We develop advanced upgrade kits that contain the required parts and tools to integrate new technologies into any Telos system.

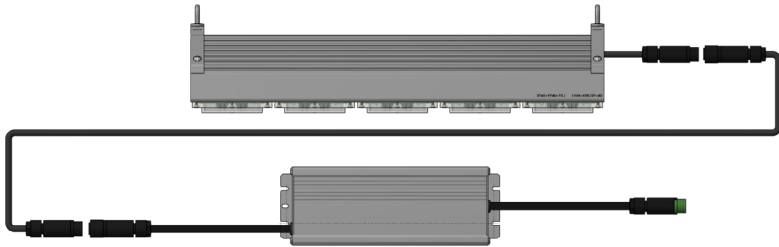
Future

- Secure wireless lighting control
- Programmable 0-100% dimming
- Intelligent grow cycle scheduling
- Upgrade LED modules & optics

Accessories by Wieland

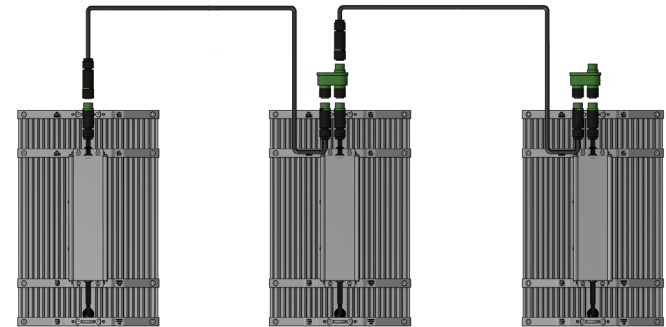


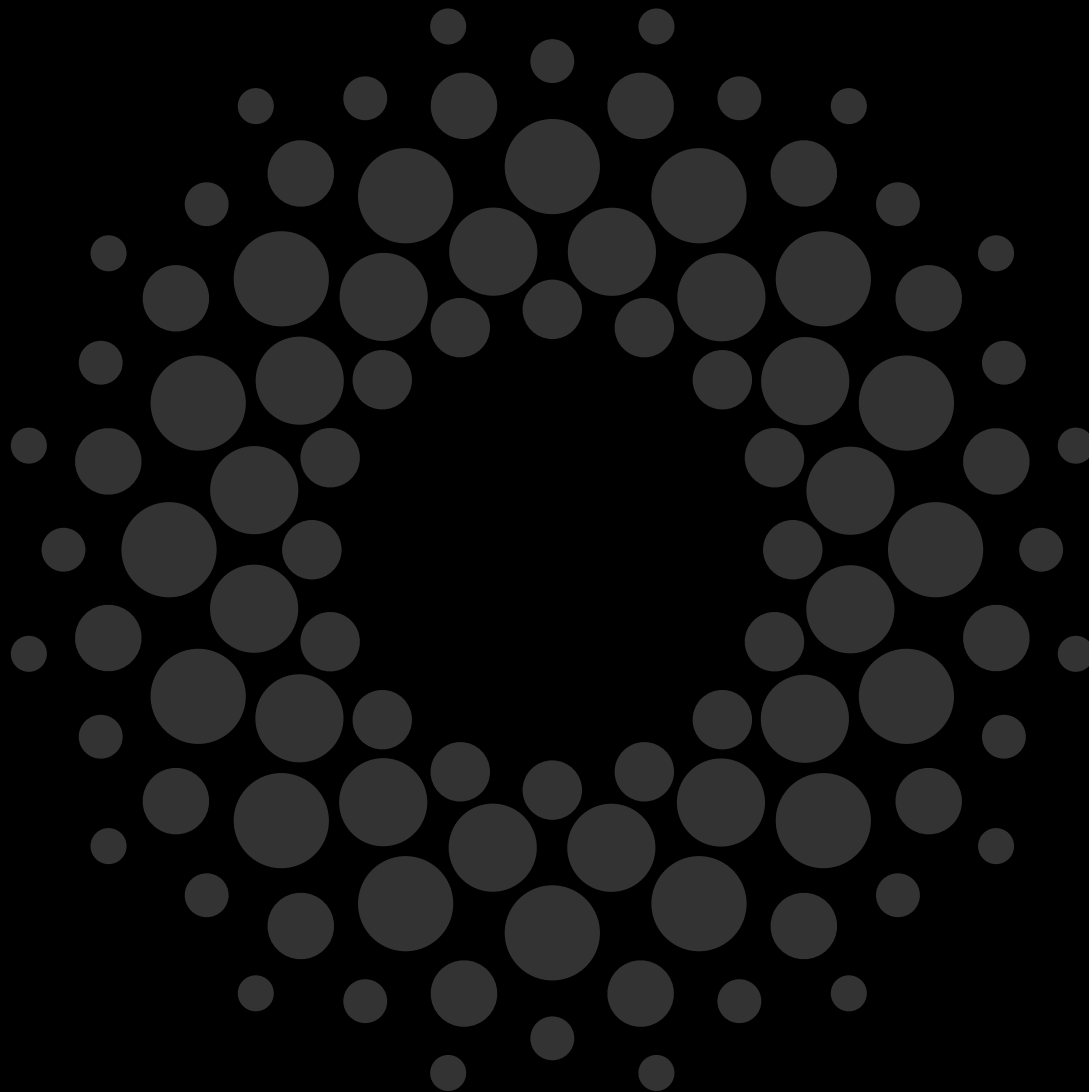
Telos have partnered with Wieland to provide the safest electrical connection equipment available on any LED grow light. All Wieland components are **manufactured in Germany** and conform to the latest **EU safety regulations**, they are **IP67 ingress protected** and have a secure twist-lock interface.



Remote Driver Cables: allow the driver to be stored outside the grow area. This helps control the ambient temperature by removing additional heat from the grow area.

AC Link Cables: enable the user to power multiple lights through a single AC wall plug.





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