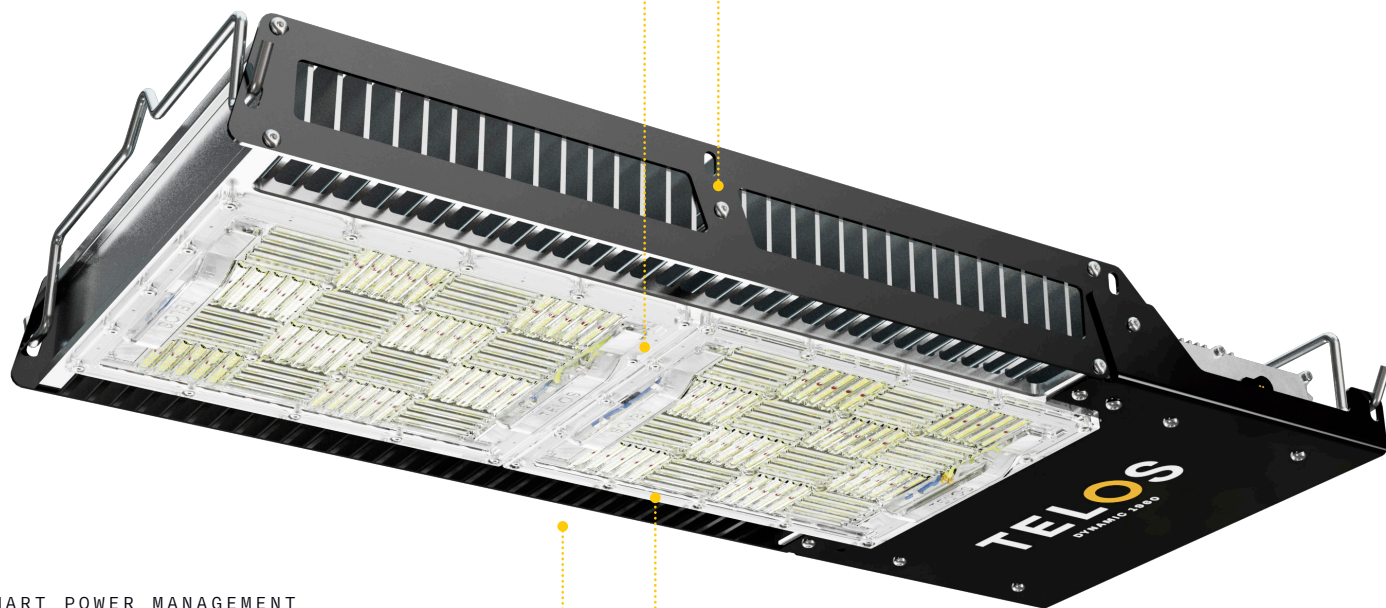


ADVANCED OPTICAL DESIGN & SPECTRUM PRECISION

The Dynamic 1960 sets a new standard in PPFD uniformity with its innovative batwing optical distribution. By redistributing photons from high-intensity areas to underexposed regions, it eliminates hotspots that lead to photobleaching and plant stress.

SUPERIOR BUILD QUALITY & PASSIVE COOLING

Constructed from CNC-machined 6063 aluminium and stainless steel, the Dynamic 1960 features an advanced passive cooling system. The interlocking components form an efficient heatsink that passively dissipates heat, preventing thermal stress and extending LED lifespan. With an ambient operating temperature tolerance of up to 40°C, the Dynamic 1960 ensures consistent performance in demanding environments.



SMART POWER MANAGEMENT & WIRELESS CONTROL

The Dynamic 1960 maintains stable and reliable output with a high-efficiency LED driver that converts AC power with 97% efficiency. The built-in surge protection and inrush current limiter allow multiple fixtures to be safely daisy-chained without overloading circuits. When integrated with Growcast, the system eliminates inrush current entirely by maintaining a standby mode for a controlled startup process.

BUILT FOR SCALABILITY & LONGEVITY

Designed to grow with your operation, the Dynamic 1960 supports modular expansion through its Power Link and Dimming Link systems. Its fully serviceable design ensures longevity, with a three-year warranty extendable to five years upon registration. Fully compliant with British and European electrical and photobiology safety standards, it represents the pinnacle of reliability and performance in commercial horticulture.

THE TELOS DYNAMIC 1960

The Telos Dynamic 1960 Grow Light delivers industry leading PPFD uniformity and spectral precision for medium to large grow spaces. With a PPFD output of 1960 $\mu\text{mol/s}$ and an efficiency of 3.0 $\mu\text{mol/J}$ at full power, it outperforms conventional fixtures while ensuring maximum canopy coverage and plant health.



DYNAMIC 1960 TECH SPECS

ELECTRICAL PARAMETERS - SINGLE PHASE INPUT

Input Voltage	120~305Vac / 116~289 Vdc
Input Frequency	47-63Hz
Power Consumption	650W
Power Factor	>0.95
Current Draw	120VAC: 5.42A / 220VAC: 2.96A
Inrush Current	TBC
Dimming On Range	10 - 100%
Dimming To Off	Yes
Dimming Input Signal	0 - 10V
Three Phase 400V versions available on request	

PHOTOMETRIC PARAMETERS

PPF Output (@ Full power)	1960 µmol/s
PPF Efficiency (@ Full power)	3.0 µmol/J
Radiometric Output	442.W
Radiometric Efficiency	68%
Beam Angle	Telos Bat Wing Distribution

THERMAL & MECHANICAL PARAMETERS

Dimensions	L 596 x W 268 x H 71 (mm)
Weight	8.28 kg
Ingress Protection	IP66
Ambient Operating Temperature	0-35C
BTUs	2218 BTU/hr

CERTIFICATION & SAFETY

Electrical Safety Class	Class 1
Photobiology Safety Class	Class 1
Approvals	CE, UKCA

DAISY CHAINING

10A Plug	120VAC: 1 Lights / 220VAC: 2 Lights
13A Plug	120VAC: 2 Lights / 220VAC: 4 Lights
16A MCB	120VAC: 2 Lights / 220VAC: 4 Lights
24A MCB	120VAC: 4 Lights / 220VAC: 7 Lights
32A MCB	120VAC: 4 Lights / 220VAC: 8 Lights

DIMMING CONTROL

Growcast Dimming	24 Lights
Resistive Dimming	1 Lights

ACCESSORIES

Growcast Controller	A next generation wireless mesh controller for digitally setting the PPF output and scheduling the on/off cycles.
Resistive Dimmer	A potentiometer dimming dial for adjusting the lights output as a percentage.
AC link Cable (2 m)	A power link cable for daisy chain the power to one additional light per cable (Requires AC T-connector).
AC T-Connector	A distribution block for daisy chaining the power to one additional light per connector (Requires AC link cable).
Dimming Link Cable (2 m)	A dimming link cable for daisy chain dimming control to one additional light per cable (Requires Dimming T-connector).
Dimming T-Connector	A dimming distribution block for daisy chaining the dimming control to one additional light per connector (Requires Dimming link cable).
Unistrut Bracket	A steel hanging bracket designed to hang one fixture directly to a unistrut C profile.

1079	1085	1083	1081	1070	1062	1079	1086	1095	1095
1104	1110	1109	1104	1107	1083	1111	1115	1115	1092
1106	1131	1144	1146	1148	1137	1146	1147	1136	1095
1098	1133	1157	1160	1161	1162	1155	1157	1138	1088
1086	1120	1148	1153	1150	1159	1145	1151	1134	1089
1079	1131	1152	1152	1155	1155	1134	1149	1142	1090
1093	1146	1164	1160	1160	1151	1158	1161	1143	1090
1099	1139	1150	1148	1147	1146	1148	1148	1136	1090
1095	1113	1114	1109	1106	1112	1110	1112	1110	1079
1088	1086	1078	1070	1066	1071	1068	1083	1098	1096

TELOS DYNAMIC 1960 PPFD MAP

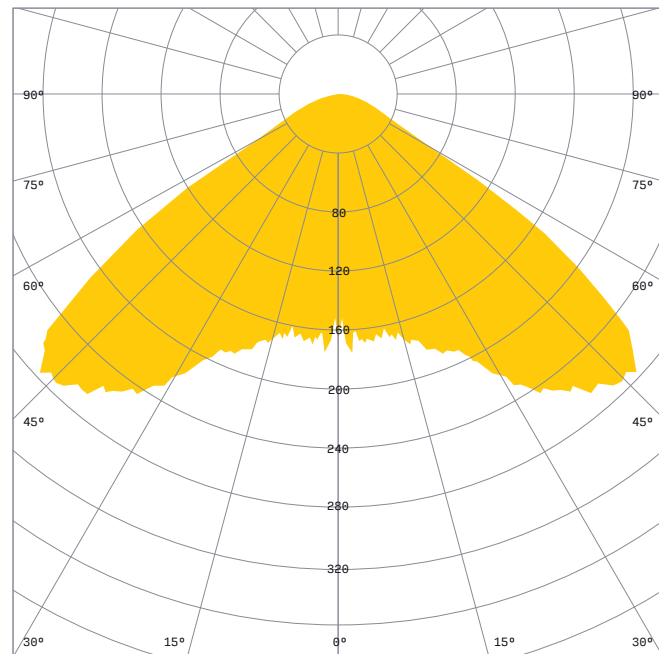
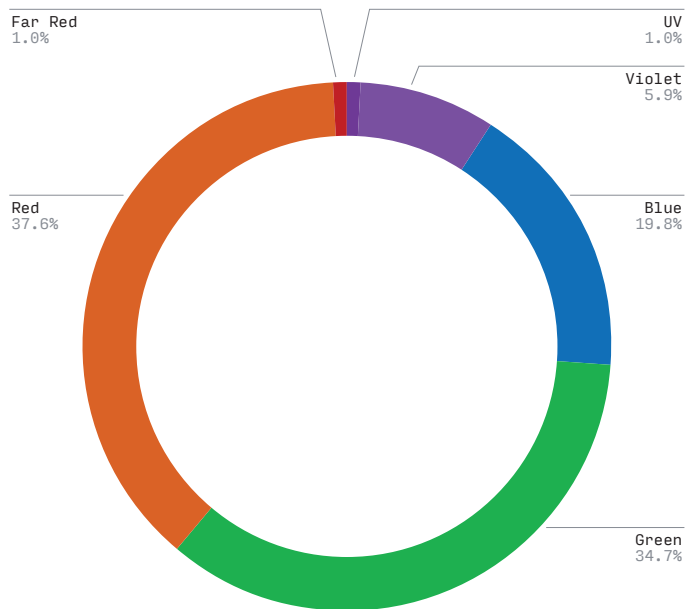
This is the light map for the Telos Dynamic 1960 light fixture. It shows the even distribution of light across the room.

The optimum hanging height is 65cm from the canopy. You can use this map to see how many fixtures you need for the area of your grow room. This grow room is 1.4m², you can see for this area to get 1000 $\mu\text{mol}/\text{m}^2/\text{s}$ you would need one fixture running at 79%.

Room Size	1.2m x 1.2m
Optimal Hanging Height	65cm
Uniformity (Min:Avg)	>90%
Uniformity (Min:Max)	>85%
Average PPFD	1121 $\mu\text{mol}/\text{m}^2/\text{s}$
Minimum PPFD	1062 $\mu\text{mol}/\text{m}^2/\text{s}$
Maximum PPFD	1164 $\mu\text{mol}/\text{m}^2/\text{s}$

GROW SETTINGS

	0-10V Percentage	Power Consumption (W)	Efficiency ($\mu\text{mol}/\text{J}$)
Propagation (200 $\mu\text{mol}/\text{m}^2/\text{s}$)	16%	106.8	3.3
Vegetative (450 $\mu\text{mol}/\text{m}^2/\text{s}$)	36%	240	3.3
Flower (1000 $\mu\text{mol}/\text{m}^2/\text{s}$)	79%	563.6	3.1



PWS1 POLAR WHITE SPECTRUM

The new PWS1 spectrum has been carefully developed to follow the latest scientific research with a higher blue & higher green concentration than the typical full spectrum offerings. It also uses the latest 430nm violet pump white LEDs which have been proven to increase yield and flavonoids, whilst sterilising the growing environment to protect against bacteria and mould.

UV	Blue	Green	Red	Far Red
300-399nm	400-499nm	500-599nm	600-699nm	700-800nm
<1%	21%	35%	43%	<1%

TELOS BAT WING DISTRIBUTION

The LED module in the Dynamic series is precisely engineered to produce a Batwing light distribution. This is achieved through the use of a refractive optical lens, which directs the light at specific angles to ensure optimal coverage.

This innovative optical design delivers unprecedented PPFD uniformity values, significantly reducing the traditional “hot spot” distribution common with many light fixtures. Telos’ specialised Batwing distribution ensures best-in-class spectral mixing, maintaining consistent quality and quantity of light across the entire canopy.

WARRANTY

Telos Dynamic lights are sold with a 3-year warranty covering the electrical components (LED module and LED driver). This warranty can be extended to 5 years by registering the product directly with Telos. Should you need to use the warranty during this period, Telos aims to provide an easy-to-install replacement part, so the fixture does not need to be returned to Telos for refurbishment. In the case that the fixture requires a part fitted by a qualified professional, the fixture would need to be returned to a Telos service centre. Warranty issues can be handled directly with Telos regardless of where the product was purchased. In some cases, retail stores may assist customers in the warranty process but in most situations, warranty claims can be handled quicker by contacting Telos directly.

Mechanical damage to the fixture’s heat-sink, brackets & optics and general wear and tear of the product are not covered in the warranty. It is important to inspect the fixture immediately after receipt for any damage that has occurred during transit. If there is damage to the new fixture, you have 14 days from receipt to contact Telos if purchased directly. If you purchased the light from a third-party retailer, you would need to contact them to find about their after-sales and return policies.

Telos prides itself on delivering a high level of after-sales care and aims to handle any warranty issues that do arise in a prompt and fair manner.

