

SPECIFICATIONS

CERTIFIED MODEL	LEDexF120
INPUT POWER	120W
PPE(400—700nm)	3.0 $\mu\text{mol}/\text{J}$ @ 240V AC
PPF(400—700nm)	360 $\mu\text{mol}/\text{s}$ @240V AC
DIMMING	0-10V
DAISY CHAIN	23units@277V AC; 20units@240V AC; 17units@120V AC
INPUT VOLTAGE	AC120V-277V
LIGHT BEAM ANGLE	150°
OPERATING TEMPERATURE	-20°C~35°C
OPERATING HUMIDITY	0~95%
HEAT DISSIPATION METHOD	Passive Cooling
POWER FACTOR	≥ 0.97
TOTAL HARMONIC DISTORTION	$\leq 15\%$
CERTIFICATES	ETL/FCC/DLC/CE/EAC/ROHS
LIFETIME L90	$\geq 50,000\text{hrs}$
IP RATING	IP65
PRODUCT DIMENSIONS	1160x84x96mm/45.66x3.31x3.77in
PRODUCT WEIGHT	2.5KG
STANDARD WARRANTY	5 Years

AC INPUT* NOMINAL AC INPUT*

AC VOLTAGE	120V	240V	277V
AC CURRENT	1A	0.5A	0.44A
AC POWER	120W	120W	120W
POWER FACTOR	0.98	0.97	0.97

*At25°C(77°F)AmbientTemperature

CONTACT US

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NANOLUX is committed to ongoing technological innovation. As a result, product appearance and specifications are subject to change without notice. Please refer to the actual product for the most up-to-date information. V1.0-2025.6

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NANOLUX
ILLUMINATE YOUR GROW



3.0 $\mu\text{mol}/\text{J}$
HIGHER EFFICACY

FLOWER+FR
SPECIFIC SPECTRUM



SubRay 120W

STEADY ALL THE WAY

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TAILORED FOR FLOWERING STAGE

Enhanced Bloom with FR Spectrum

The dedicated FLOWER+FR spectrum enhances photosynthesis during the flowering stage, promoting larger and denser blooms.

150° WIDE BEAM LIGHTING

Full Under Canopy Coverage, Higher Yields

With a wide 150° beam angle, SubRay effectively lights the lower canopy and shadowed areas, enhancing light coverage and increasing yields.

UNIFORM LIGHT BLENDING

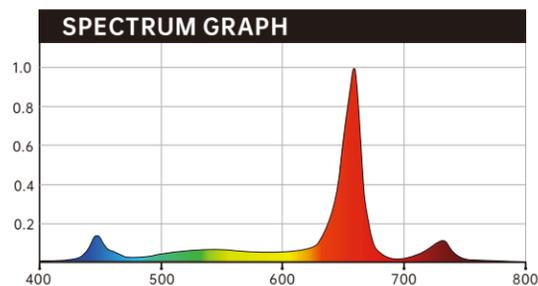
Smooth Distribution Across the Under Canopy

Uniform light blending ensures consistent illumination under the canopy, minimizing hotspots and enabling even plant development.

SECURE & EFFICIENT SETUP

Quad Lock Structure for Secure Daisy-Chaining

Features a quad-lock structure for stable mounting and safe daisy-chaining. Supports up to 23 units (277V) with adjustable brackets. IP65-rated with 360 μmol/s output, 3.0 μmol/J PPE, and passive cooling for efficient, long-lasting performance.



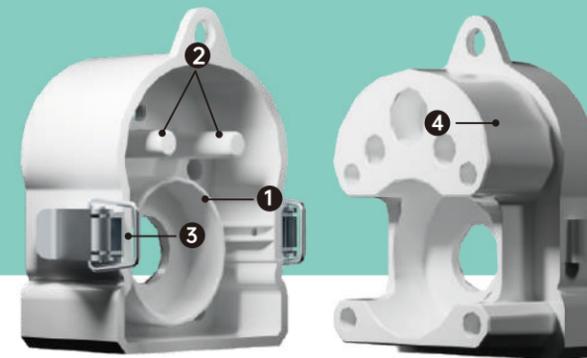
PPFD READING
15cm/5.91 in Height @ Input Power 120W

81	116	128	130	130	127	116	84
338	498	506	517	514	507	489	339
337	485	507	529	530	506	493	342
89	122	131	141	140	135	123	86

150° BEAM ANGLE
Wider Light Spread, Fewer Shadow Zones



1 DEELOCK™ QUAD-LOCK SYSTEM



- 1 CIRCULAR INTERLOCK — PRECISION ALIGNMENT**
Core Advantage: Firm, gap-free fit with instant locking upon installation for seamless, secure connection.
- 2 PIN LOCKING — SHOCKPROOF STABILITY**
Extended dual-pin design with 2.5 cm insertion depth ensures stronger joints and superior shock resistance.
- 3 QUICK-SNAP SIDE LOCK — ONE PUSH, LOCKED TIGHT**
Tool-free design: snap to lock with a push. Fast install, secure seal, and tight closure.
- 4 DUAL NEST, LONG-TERM HOLD**
Dual-layer structure ensures firm fit with no looseness, no shaking during transport, and long-term reliability.

2 BLOOMSPEC™ TARGETED SPECTRUM SYSTEM

Precision spectrum · Predictable bloom

- FR-enhanced spectrum precisely targets flowering pathways to accelerate bloom initiation.
- 150° wide-angle distribution ensures uniform under-canopy lighting and minimizes shadow zones.
- Delivers 360 μmol/s PPF at 3.0 μmol/J efficacy to improve bud density and cannabinoid content.



3 SAFECORE™ SYSTEM

Waterproof, leakproof, securing every step

- IP65-rated to resist water spray, drips, and high humidity in all grow conditions.
- Durable plastic enclosure isolates electrical components to prevent failures and extend service life.
- Clear protective lens guards LEDs against dust and humidity for reliable, long-term use.

4 STABLE SUPPORT™ SYSTEM

Stable support, steady growth (OPTIONAL)

- Thickened aluminum alloy for strong impact resistance and long-term structural stability.
- High-friction silicone feet enhance grip, prevent tipping, and protect grow beds from damage.
- Three-section telescoping design allows tool-free height adjustment for different growth stages and setups.

