

# IHS Ready to Grow Genoa Horticultural Lights

GENOA-xxx-xxx-CASED-1CH-01.

## Product Overview

The Ready to Grow range of products from IHS are a culmination of many years of experience in the electronics and LED industries, allowing users to easily install and start to run. Using only component parts from industry experts such as OSRAM Opto Semiconductors and LEDiL, these horticultural lights offer superior quality at competitive prices.

Genoa LED Grow Light from IHS is designed for simple installation in polytunnels and small greenhouses. Genoa has a lightweight design, with an integrated Heatsink for optimal thermal management and a tailored optical design. Incorporating industry leading LEDs from OSRAM Opto Semiconductors. Multiple recipes are available for the vast majority of horticultural applications, but if this is still not enough we do offer a full customisation service.



## Applications

- Horticultural lighting
- Environmental Chambers
- Propagators
- Indoor farming
- Schools and universities
- Research institutes

## Technical Features

- Available in 8 standard light recipes or can be customised to order from IHS.
- Impact resistance: IK08
- Type of protection: IP65
- Lifetime (L70/B50): 50,000 h
- Operating temperature range: -30...45 °C
- CE marked
- Dimensions (LxH): 339mm x 233mm
- Weight: 2.8kg

\*This datasheet should be read in conjunction with the relevant OSRAM Opto Semiconductors data for the LED used

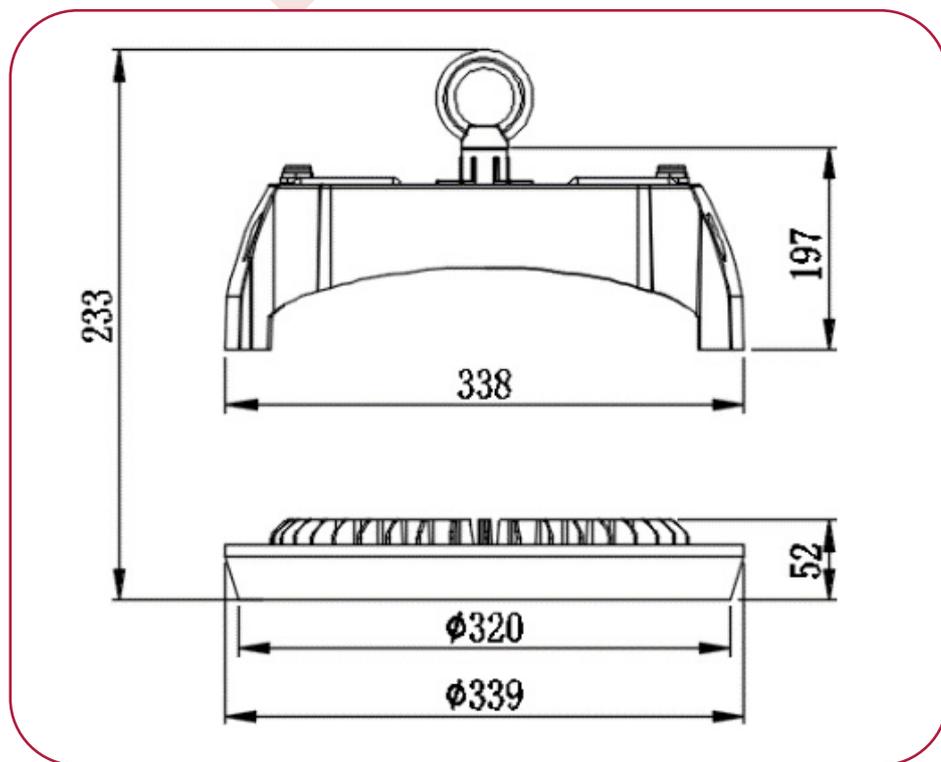
## Important Information and Precautions

- Genoa Grow Lights when powered up, are very bright. Thus it is advised that you do not look directly at them. Turn the Genoa Grow Lights product away from you and do not shine into the eyes of others.
- Genoa Grow Lights, when operated, can reach high temperatures thus there is a risk of injury if they are touched.
- DO NOT HOT PLUG ON LED SIDE OF POWER SUPPLY
- DO NOT TOUCH or PUSH on the LEDs as this might cause irreparable damage.

## Product Options

IHS Part Number	LED Recipe
GENOA-FLOWER-WIDE-CASED-1CH-01.	Genoa LED Grow Light - Flowering, wide lens
GENOA-FLOWER-NARROW-CASED-1CH-01.	Genoa LED Grow Light - Flowering, narrow lens
GENOA-FRUIT-WIDE-CASED-1CH-01.	Genoa LED Grow Light - Fruiting, wide lens
GENOA-FRUIT-NARROW-CASED-1CH-01.	Genoa LED Grow Light - Fruiting, narrow lens
GENOA-SEED-WIDE-CASED-1CH-01.	Genoa LED Grow Light - Seeding, wide lens
GENOA-SEED-NARROW-CASED-1CH-01.	Genoa LED Grow Light - Seeding, narrow lens
GENOA-BIO-WIDE-CASED-1CH-01.	Genoa LED Grow Light - Biomass, wide lens
GENOA-BIO-NARROW-CASED-1CH-01.	Genoa LED Grow Light - Biomass, narrow lens

## Technical Drawing (mm)



## Safety Information

- The LED module itself and all its components must not be mechanically stressed.
- Assembly must not damage or destroy conducting paths on the circuit board.
- To avoid mechanical damage to the connecting cables, the boards should be attached securely to the intended substrate. Heavy vibration should be avoided.
- Observe correct polarity!
- Depending on the product, incorrect polarity will lead to emission of red or no light. The module can be destroyed!
- Pay attention to standard ESD precautions when installing the Genoa Grow Light.
- Damage by corrosion will not be accepted as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
- For outdoor usage, the housing is definitely required to protect the board against environmental influences. It is also the responsibility of the user to ensure any modifications keep the Tc junction temperature to within stated ranges.
- To also ease the luminaire/installation approval, electronic control gear for LED or LED modules should carry the CE mark and be ENEC certified. In Europe the declarations of conformity must include the following standards: CE: EC 61374-2-13, EN 55015, IEC 61547 and IEC 61000-3-2 - ENEC: 61374-2-13 and IEC/EN 62384.
- The evaluation of eye safety occurs according to the standard IEC 62471:2006 ("photobiological safety of lamps and lamp systems"). Within the risk grouping system of this CIE standard, the LED specified in this data sheet falls into the class "moderate risk" (exposure time 0.25s). Under real circumstances (for exposure time, eye pupils, observation distance), it is assumed that no endangerment to the eye exists from these devices. As a matter of principle, however, it should be mentioned that intense light sources have a high secondary exposure potential due to their blinding effect. As is also true when viewing other bright light sources (e.g. headlights), temporary reduction in visual acuity and afterimages can occur, leading to irritation, annoyance, visual impairment and even accidents, depending on the situation.

## For further information please contact IHS.

The values contained in this datasheet can change due to technical innovations. Any such changes will be made without separate notification. Intelligent Horticultural Solutions is a division of Intelligent Group Solutions, focusing on providing LED solutions to the rapidly evolving and highly important horticultural lighting market.

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