

Purpose of this Document

The purpose of this document is to inform the reader of origin, content and procedures involved in the manufacture of the Budmaster Osram Delux Gold (G.O.D) series of horticultural LED lamps.

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Product Description

The Budmaster Osram Delux Gold (G.O.D) series of horticultural led lamps offers the end user an extremely powerful and durable lighting fixture that can be used to effectively grow plants of many kinds whilst outperforming more traditional HID and fluorescent lighting sources.

Our modular build allows for many different lamp sizes and combinations based upon the 1 – 1 rate of light engines to drivers within any chassis.

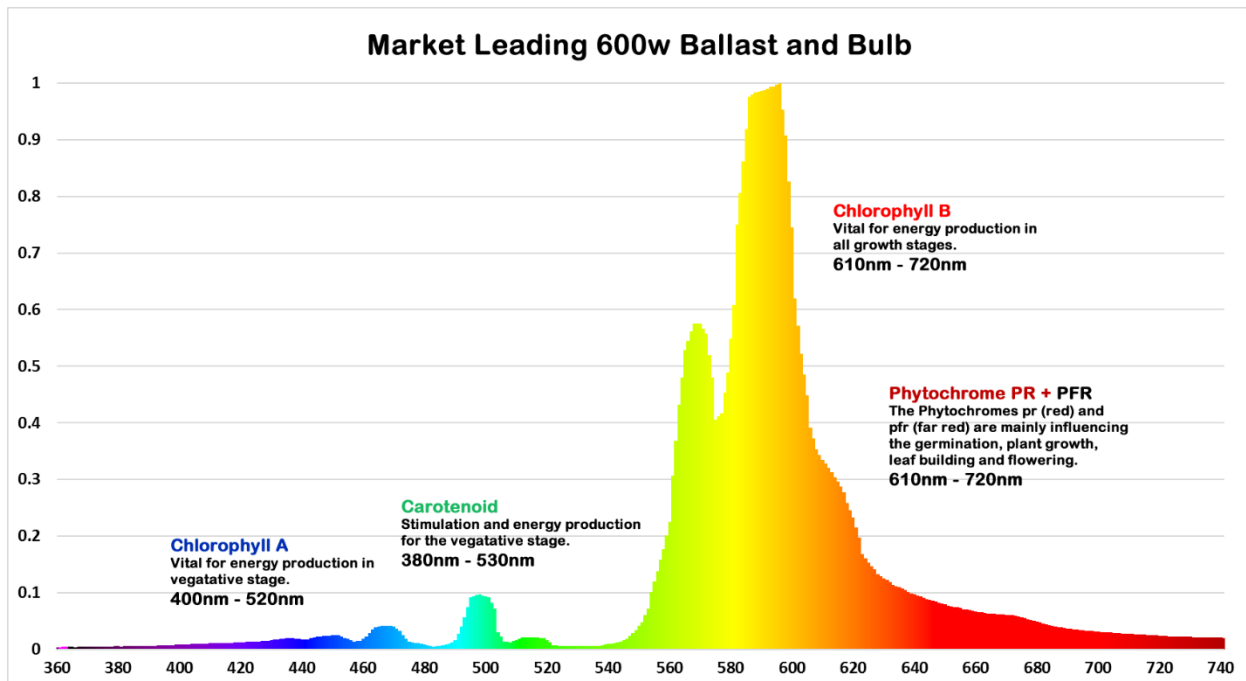
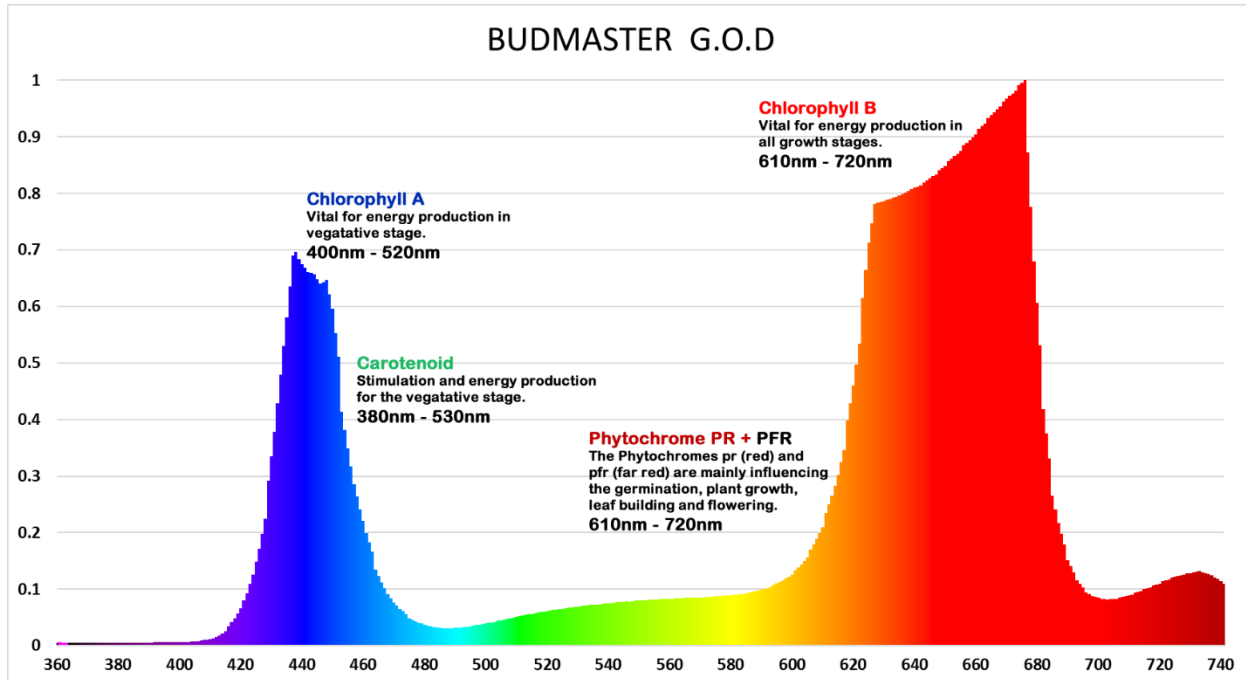


Product Warnings

1. Light Hazard Warning, never look directly or indirectly into the lamp without protective eyewear.
2. Component parts of the product have differing IP ratings ranging from IP65 – IP68. The product itself is not IP rated.
3. Never upgrade or repair a light engine while the lamp is connected to the mains.



Spectral Output



Product Origin

The Budmaster Osram Delux Gold (G.O.D) series of horticultural led lamps are designed and manufactured in the UK at the address on the bottom of this document.

At the time of writing we source the majority of component parts from the UK. Drivers, fans and wiring components are sourced from the Far East.

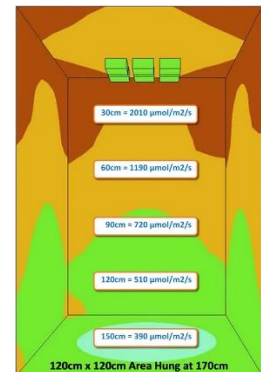
All components are sourced ethically and no components contain restricted or hazardous substances.

Recommended Use

With all lamp sizes the recommended use is for the light engines to be facing towards the ground with the lamp hung vertically from above.

The lamp should not be hung in any way that direct lights can impact the user's eyes.

Fan outlets on the rear of the lamp should not be obstructed and a minimum of 50mm space above the lamp and 100mm space either side of the lamp is required for adequate cooling.



Component Approval and Origins

All components and materials have their own ROHS or CUL certificates.

All components and raw materials are carefully purchased and come from ethical sources and purchased as close to the UK as possible to keep our carbon footprint low.

A complete set of component datasheets and certificates can be issued upon request from admin@budmaster.co.uk.

All Budmaster lamps are CE and ROHS approved.

Product Construction

Budmaster is assembled in the UK with no use of glass, glue, solder or any other materials that may be hazardous to the environment or our employees' health.

The product is constructed in a modular fashion meaning that every different size of budmaster lamps within the same series have identical components and build but on a larger or small scale.

For example, the Budmaster II UK G.O.D-4 has 4 less components than the Budmaster G.O.D -6 as it has two less light engines and two less drivers than the G.O.D -4.

Budmaster G.O.D Light Engine Components:

1. Populated Osram MCPCB (18 LED)
2. Led Lens
3. Pin Fin Heat Sink
4. 80 x 25mm Fan
5. 12 screws

Budmaster G.O.D-4 Main Components:

1. Case and Lid
2. 1 x Wire harness
3. 3 x Tie downs
4. 4 x Drivers
5. 4 x Light Engines
6. 2 x Rocker Switch
7. 1 x Female IEC Receptacle
8. Earth Wire and Bolt.
9. Live Wire.

Budmaster G.O.D-6 Main Components:

1. Case and Lid
2. 1 x Wire harness
3. 6 x Tie downs
4. 6 x Drivers
5. 6 x Light Engines
6. 2 x Rocker Switch
7. 1 x Female IEC Receptacle
8. Earth Wire and Bolt.
9. Live Wire.

Lifespan of the Product and Components

The Budmaster II UK Osram Delux Gold (G.O.D) series of lamps have a three year parts warranty and an expected lifespan of 3 years plus.

The Budmaster II UK Osram Delux Gold (G.O.D) series of lamps have an expected supported lifespan of 100,000 hour's years, this equates to 15 years when used for 18 hours per day.



The Osram SSL80 family of led within the lamp have 100,000 hours' lifespan.

Other components such as drivers and fans have a life expectancy of 3 years plus and at the time of writing the failure rate of the above mentioned components over a 30-month period is 0.2%.

The redundant and modular build allows the customer quick repair in the event of expiration of either the fans or drivers, elongating the life of the unit exponentially.

Real time testing shows less than 1% output drop of the led per year over a 30-month period in extreme environments.

Declaration of Conformity



EC DECLARATION OF CONFORMITY

We:


Budmaster LED Ltd
Unit 4 Quinton Hazell Industrial Estate
Glan y Wern Road
Mochdre
Gwynedd
North Wales
LL28 5BS

Declare under our sole responsibility the products:

1. Budmaster Osram series including:
 - a. GOD-ENG, GOD-ENG-F, GOD1, GOD2, GOD4, GOD6, GOD8, GOD9, GOD12, OD-ENG, OD-ENG-F, OD1, OD2, OD4, OD6, OD8, OD9, OD12, BM-ENG, BM-ENG-F, BM1, BM2, BM4, BM6, BM8, BM9, BM12
2. Name and address of the manufacturer and/or his authorised representative:
 - a. Budmaster LED Ltd, Unit 4 Quinton Hazell Industrial Estate, Glan y Wern Road, Mochdre, Gwynedd, North Wales, LL28 5BS
3. This declaration of conformity is issued under the sole responsibility of the manufacturer:
 - a. Budmaster LED Ltd, Unit 4 Quinton Hazell Industrial Estate, Glan y Wern Road, Mochdre, Gwynedd, North Wales, LL28 5BS
4. Object of the declaration:
 - a. Budmaster OD and GOD range of Horticultural LED Lamps
5. Objects to which this declaration relates, is in the conformity with the provisions of the European Community Directives:
 - a. EC 244/2009 (amended by EC 859/2009)
 - b. EU 874/2012

Signed for and on behalf of: **Budmaster LED Ltd**

T Jones



Managing Director
Issued on 04/01/2016 at the above address

Budmaster LED Ltd, Unit 4 QHEP, Glan y Wern Road, Colwyn Bay, LL28 5BS
0800 043 5337, sales@budmaster.co.uk, www.budmaster.co.uk
Company Number: 08732958, VAT Number: 184 9796 36