growlite®

BLACK BOX
PROFESSIONAL HORTICULTURE CONTROLS

Start Menu/Main Screen - Active Room

BLACK BOX CONTROL SYSTEM

The **Black Box Control System** from **Growlite** by **Barron Lighting Group** is the horticultural industry's first large-scale reliable lighting controller coupled with environmental monitoring and complete data logging. The **Black Box** can control your entire grow site from lighting and HVAC to fertigation and security, please consult Barron customer service for specific functionality release dates. With the **Black Box** all information can be input via a convenient touch screen and can be accessed anywhere, at any time.

Growlite's proprietary, in-house designs are UL Listed. **Growlite** publishes all IES files and third-party performance data so that you can be confident in the knowledge that **Growlite** products not only outperform others in the marketplace but that these products are safe as well.

With over 20 years of experience, and eight years spent evaluating and designing lighting systems for horticulture facilities, the **Growlite** team offers unparalleled support.

Your partnership with the **Growlite** team provides you with best-in-class customer service, while assisting you with lighting recommendations for your grow site.

The **Black Box Control System** from **Growlite** by **Barron Lighting Group** – the controller solution for your entire horticultural site.

MASTER CONTROL PANEL

The **Black Box** standard Master Control Panel (MCP) contains 16 individually controlled rooms/zones with the capability to control up to 3,072 fixtures or lamp circuits (up to 192 lamps/room or zone).

A color touch screen provides the interface to control the on/off timing of the connected lights as well as the display of the ambient temperature, relative humidity, CO_2, and VPD levels in each room/zone. The Master Control Panel (MCP) is powered with a 120VAC power supply and communicates with the LPDP (Lighting Power Distribution Panels) via a profinet cable with a R45 connector.

LIGHTING POWER DISTRIBUTION PANELS

The **Black Box** Lighting Power Distribution Panels (LPDP) are UL 508 Listed and allow for lamp circuits powered at 120, 240 or 277VAC.

All Lighting Power Distribution Panels have the ability to connect three (3) environmental sensors that accurately measure:

- Ambient Temperature
- Relative Humidity
- CO_2
- Vapor Pressure Deficit
- One (1) Year Warranty

CONTR

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The **Black Box** Master Control Panel (MCP) is the latest innovation from **Growlite** by **Barron Lighting Group**. The **Black Box** MCP contains 16 individually controlled rooms/zones with the capability to control up to 3,072 fixtures or lamp circuits (up to 192 lamps/room or zone, depending on sensor configurations).
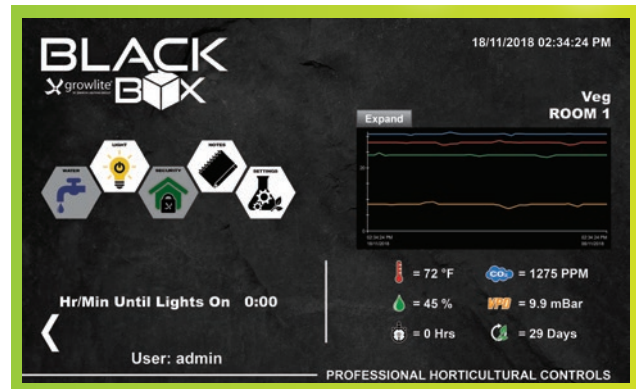
PREMIUM UX DESIGN FOR THE ULTIMATE EXPERIENCE

STANDARD SYSTEM FUNCTIONS

1. Each Lighting Power Distribution Panel (LPDP) can have up to three (3) sensors that will display:

   a. Ambient Temperature
   b. Relative Humidity
   c. CO_2
   d. VPD

2. Lighting control based on standard or custom light cycles for each room/zone.

3. For each room/zone, there will be a "Grow Start" with the cycle, days room/zone tracked and displayed for each room/zone.

4. Lamp hours will be tracked for each. Warnings can be sent each time lamps exceed a set number of operational hours.

5. Monitoring and alarming based on data collected by the sensors.

6. Setup screen(s) can be password protected and will allow for the setting of setpoints such as alarm points and lamp life expectancy.

Room Summary

Light Timing

Complete with a color touch screen that provides the interface to control the on/off timing of the connected lights as well as the display of the environmental levels in each room/zone. The **Black Box** Master Control Panel is powered with a 120VAC power supply and draws less than five (5) amps.

For more information or to schedule a product demo of the **Black Box** system, please contact the **Growlite** team at **800.533.3948.**

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horticultural lighting

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