



# LIGHT DEPRIVATION FOR GREENHOUSES: WHAT IS LIGHT-DEP?

Plants, like humans, run on a circadian rhythm of day/night cycles. Some plants, such as cannabis, are extremely sensitive to these cycles and depend on it for flowering. Cannabis is what is referred to as a "short day" plant, meaning they require a continuous, uninterrupted period (12+ hours) of darkness before flowering can begin. Fall conditions are best for the plants' day/night flowering cycles. When the days are longer (in the summer), the plants need to have the extra light restricted. How do you simulate artificial Fall light conditions? The solution is simple - use a light deprivation cover. By doing this, you are shortening the "days" and lengthening the "nights", which leads to near perfect flowering, and ultimately, a higher harvest yield. BOLD is the only light deprivation cover on the market today that is reinforced for durability and offers 100% total light deprivation to ensure successful flowering.



There are a few light-deprivation covers on the market, however, only total light deprivation (such as BOLD) will result in a plant's successful flowering - any light that may seep through the material will disrupt the plant's ability to distinguish between "night" and "day" and may not flower properly. The most commonly recommended method is to close, or blackout, your greenhouse at 6pm and reopen it again at 7am, allowing 13 hours of total uninterrupted darkness. For more information comparing your light-dep options, please see the reverse side of this flyer.

## IF YOU AREN'T USING LIGHT-DEP, YOU COULD BE LOSING PROFITS.

To begin the flowering phase, plants need at least 12 hours of uninterrupted darkness to transition from a vegetative state into a flowering state. Any interruptions during this photoperiod may stress the female plants and cause them to produce seeds instead of flowering buds, creating a hermaphrodite. Ultimately, a hermaphrodite causes an abundance of seeds which doesn't equal profit for the grower and leads to a plant you will have to get rid of, resulting in lost crop. Simply avoid these complications by methodically using BOLD light-deprivation covers.

# COMPARING THE FOUR MAIN SOLUTIONS FOR GREENHOUSE LIGHT DEPRIVATION COVERS

	PANDA	WOVEN	BREATHABLE	<b>BOLD</b> BLACK OUT LIGHT DEPRIVATION
<b>PROS:</b>	<ul style="list-style-type: none"> <li>•Typically inexpensive</li> <li>•Lightweight</li> </ul>	<ul style="list-style-type: none"> <li>•Flexible and lightweight</li> <li>•Cost effective</li> <li>•Durable</li> </ul>	<ul style="list-style-type: none"> <li>•Breathable fabric allows air flow to plants</li> <li>•May reduce excessive heat and humidity build-up in a greenhouse</li> </ul>	<ul style="list-style-type: none"> <li>•Totally light blocking</li> <li>•UV resistant and heat reflective</li> <li>•Withstands both heat and cold (-70° to 180°F operating temperature)</li> <li>•Made in the USA</li> </ul>
<b>CONS:</b>	<ul style="list-style-type: none"> <li>•Not 100% light deprivation</li> <li>•Tears Easily</li> <li>•Requires ventilation</li> </ul>	<ul style="list-style-type: none"> <li>•Meant for temporary use, material tends to rub off and fray</li> <li>•Requires ventilation</li> </ul>	<ul style="list-style-type: none"> <li>•combined fabrics, so moisture gets trapped and mold quickly accumulates</li> <li>•Most expensive</li> <li>•Not designed for outdoor use</li> </ul>	<ul style="list-style-type: none"> <li>•Requires ventilation</li> </ul>
<b>MOST COMMON USES:</b>	<ul style="list-style-type: none"> <li>•Light-proof barriers for room partitions</li> <li>•Hydroponic grow covers</li> <li>•Reservoir covers</li> </ul>	<ul style="list-style-type: none"> <li>•Temporary covers</li> <li>•Temporary rain covers</li> </ul>	<ul style="list-style-type: none"> <li>•Light-dep covers to be used inside a greenhouse as a climate screen</li> </ul>	<ul style="list-style-type: none"> <li>•Light deprivation greenhouse covers</li> </ul>
<b>COMMON CHARACTERISTICS</b>	<ul style="list-style-type: none"> <li>•Black on one side and a 90% reflective white on the other side allowing light to be reflected back onto your plants</li> </ul>	<ul style="list-style-type: none"> <li>•Woven ribbons of high-density polyethylene give it superior tear resistance but most woven coated poly covers contain pinholes that allow light to enter</li> </ul>	<ul style="list-style-type: none"> <li>•Thick, layered fabric</li> <li>•Woven/sewn in a way that does not allow light to penetrate, but allows the fabric to breathe</li> </ul>	<ul style="list-style-type: none"> <li>•No pinholes/no perforations</li> <li>•Scrim reinforced for excellent tear strength</li> </ul>
<b>MATERIAL PROPERTIES</b>	<ul style="list-style-type: none"> <li>•Polyethylene</li> </ul>	<ul style="list-style-type: none"> <li>•Made with lightweight interwoven poly strips</li> <li>•Flexible, durable, reusable, and easy to handle</li> <li>•Ideal for weather protection, abatement, containment, scaffold enclosures, and much more</li> </ul>	<ul style="list-style-type: none"> <li>•3-5 layers of horticulture-grade textiles</li> </ul>	<ul style="list-style-type: none"> <li>•Mix of virgin polyethylene resins and polyester</li> <li>•Heavy diamond scrim reinforcement</li> <li>•Outer white layer contains UV inhibitors and thermal stabilizers</li> <li>•Black outer layer contains carbon black to enhance outdoor life and ensure total light deprivation</li> </ul>
<b>AVERAGE THICKNESS</b>	<ul style="list-style-type: none"> <li>•4.0-6.0 mil</li> </ul>	<ul style="list-style-type: none"> <li>•9.0-12.0 mil</li> </ul>	<ul style="list-style-type: none"> <li>•6.0-30.0 mil</li> </ul>	<ul style="list-style-type: none"> <li>•8.0 mil</li> </ul>
<b>AVERAGE LIFE-SPAN AT FULL EXPOSURE</b>	<ul style="list-style-type: none"> <li>•About 1 year</li> </ul>	<ul style="list-style-type: none"> <li>•Less than 2 years</li> </ul>	<ul style="list-style-type: none"> <li>•Cannot be used outdoors (material will rot)</li> </ul>	<ul style="list-style-type: none"> <li>•Over 2.5 years</li> </ul>

USE THIS FREE GUIDE TO HELP YOU DECIDE WHICH LIGHT-DEP COVER IS BEST FOR YOUR GREENHOUSE OPTION. PLEASE FEEL FREE TO CONTACT YOUR DEDICATED ACCOUNT MANAGER WITH ANY QUESTIONS YOU MAY HAVE REGARDING LIGHT DEPRIVATION FOR YOUR GREENHOUSE.

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