Frequently Asked Questions
Energy Focus launches lighting control platform, EnFocus™

Does the dimming tube work with triac dimmer switches?
No. EnFocus™ is a paired switch and lamp system. EnFocus™ dimming lamps are used with EnFocus™ dimming switches.

Are these products certified for and available in Canada?
Yes. We will have cUL as well as UL certification. We also expect EnFocus™ to work in most countries and will obtain country-specific certifications as we expand.

Are the tubes made by Energy Focus or can this work with other tubes?
EnFocus™ is a complete lighting control solution built upon our patent-pending control protocol so EnFocus™ compatible TLEDs are required (and other EnFocus™ compatible products we'll be launching in the future).

To what percentage can you dim?
As low as approximately 10%.

Are the EnFocus™ tubes zero flicker?
Flicker is less than 1% at full light output. The flicker percentage may increase somewhat as the lamps are dimmed, but light modulation never exceeds 1% of full light output.

Can you add occupancy sensors to the space?
EnFocus™ is compatible with occupancy sensors but we do not have them in our product offering today. We plan to add occupancy sensing capabilities in the EnFocus™ systems in the future.

Because it is single ended power, do you have to rewire the sockets?
Yes. You must bypass the fluorescent ballast for single-ended power. If it's an LED retrofit, the sockets may already be wired for single-ended power.

Is this product Buy America Compliant?
The Buy American version of EnFocus™ products will be available starting July 2020. We usually do not keep Buy America products in stock, but they can be special ordered with 8-12-week lead time.

What is the cost per tube/dimmer?
EnFocus™ is the most affordable retrofit solution in the market. We estimate that the EnFocus™ lighting control solution is at least 3-8 times less expensive than other controlled lighting options in the market today for retrofit applications. For specific pricing details, please contact your Regional Sales Manager.

How many tubes can the EnFocus™ wall switch work with simultaneously?
The EnFocus™ wall switch can handle a 3-amp continuous current load at either 120 or 277 VAC. For example, 11-watt EnFocus™ lamps would be about 30 lamps for a 120 VAC installation and about 68 lamps for a 277 VAC installation.

Who handles the installation of the EnFocus™ systems?
Any qualified electrician, staff maintenance person, or contractor can install the systems.

Is the digital signal communication through power lines instead of wireless or triac dimming?
Yes.

Are these LEDs compatible with daylight sensors?
The EnFocus™ platform is compatible with daylight sensors.

Do these lamps only work on the Energy Focus dimmer, or are there other dimmers on the market that could already be in place during retrofit?
The lamps will only dim or change color temperature with an EnFocus™ control.

Do the tubes individually communicate with the switch?
No. The EnFocus™ switch communicates with all the EnFocus™ lamps in the circuit (usually multiple fixtures) as a group – by design. This simplifies the installation and is the reason no commissioning is required.

Is this an LED retrofit product for an existing 2/3 wire system?
Yes. It works with both 2-wire and 3-wire circuit. Therefore, EnFocus™ is particularly unique for retrofit applications - whether the neutral is available in the switch box (3-wire) or is not available (2-wire).

Can you have emergency lighting in a room lit with the EnFocus™ platform.
Yes. If it works off an emergency lighting grid.

Are the fixtures ballast dependent or ballast bypass?
They're ballast bypass.

Is this compatible with a 3-way or 4-way switch on a 2/3 wire circuit?
No. Not currently.

If there is a dimmable system already set up, with a switch, double ballast and wiring. Would this affect installation?
No. It would not affect installation. If it's a fluorescent retrofit - just bypass the ballast, control wires, and replace the switch.

Are these tubes ballast compatible?
No.

Is the EnFocus™ communication protocol over the power line going to be open source?
The EnFocus™ communication protocol is currently not "open sourced."

Will the change of CCT be a smooth transition or change in steps?
The switch has ten programmed levels (between 2700K to 6500K) that the lamps smoothly transition to. You can view a demonstration on our website here.

What are the primary advantages of EnFocus™ versus integrated fixtures that provide both dimmable and tunable capabilities as well?
Primary advantages are three-fold. First, retrofittability. The Energy Focus system works in existing buildings and all you need to do is replace the switch and the lamp. It's that simple! No commissioning, no extra wiring needed. Second, affordability. It's 3-8 times less expensive than other controlled lighting systems in the market today. Third, sustainability. There is no need to replace the whole fixture. When the lamps are burned out, they can be replaced with new lamps instead of replacing the whole fixture. Therefore, minimizes unnecessary waste and has a much lower carbon footprint compared with other lighting control systems based on integrated fixtures.

Why would I use a proprietary system instead of using a more common 0-10V system?
0 to 10-volt systems require extra wires if they're not already in place in the building. Unless they are already installed in a building, control wires and cables are very costly and time-consuming to add, which is why many 0 to 10-volt compatible fixtures that have been installed are rarely used/dimmed. EnFocus™ doesn't require any additional control wires. It works with the existing AC wiring.

What does it mean to preserve high power factor and low THD?
Power factor (PF) and total harmonic distortion (THD) are a measure of the current delivering capability of the power line. Low PF and THD in the power line mean more current is required to operate a lamp or other load at a given power. More current means more cost for the power company and their customers.

What is the warranty for EnFocus™ lamps and switches?
EnFocus™ lamps have a 10-year warranty and the EnFocus™ switch has a 5-year warranty. Both warranties are significantly longer than what the industry offers for both lamps and control switches. We've based our 10-year lamp warranty on our use of quality components and extensive, 10+ year of TLED lamp experience in the field. The 5-year warranty for the switch is based on our design and the use of quality components.

Can you talk more about the rewiring required to install the EnFocus™ platform and do I need a ground wire to install EnFocus™?

The EnFocus™ platform is almost as easy to install as our standard D-series lamps (Type B LED tubes) – simply bypass the ballast, and then install the switch. There is no easier, more cost-effective way to add dimming and color tuning to your facility on the market today.

Does this lamp produce 480-490 nm through all colors 2700-6500K? IoT capable? Could the EnFocus™ system communicate with BAS or EMS platforms in the building(s) being upgraded?

Yes, the EnFocus™ color tunable lamps produce 480-490 nm at all colors. However, the spectral presence of 480-490 nm is much reduced at 2700K vs. 6500K. EnFocus™ is a room-based system. It's not IoT capable currently and cannot communicate with BAS or EMS building platforms at this time. This is also why it has the highest level of security. We do intend to expand communication capabilities of EnFocus™ in the future while keeping the control system highly secure.