



## Easily Turning Fluorescent Fixtures into an Intelligent LED Platform

### Features and Benefits



Plug

**Plug-and-Play** installation means less retrofit costs and saved time. The lamps are compatible with most electronic ballasts.



Dim

**Dimmable** lamps (0-100%) that work with a traditional ballast in place significantly improve system efficiency and user comfort.



Perform

**Constant Lumens** current-control technology means equal lamp brightness, regardless of ballast model, helping with aesthetics, lamp lifetime consistency, and energy performance.



Connect

**Compatible** with 0-10V smart controls and sensors (daylight, occupancy, etc.), allowing flexible integration with the lamps.



Save

**Advanced Efficiency** from modern LEDs, sensors, and smart controls means up to 85% energy savings over linear fluorescent lighting.

### Description

iLumens turns your existing fluorescent lighting infrastructure into an intelligent lighting system. Ballast-compatible dimmability eliminates the need for ballast removal and enables far more energy savings than the 50% saved from LEDs alone (e.g., 85%). The iLumens Ally lamp works with others: 0-10V controls, sensors, and software, providing advanced energy savings and user comfort. With high-performance and economics in mind, iLumens is the optimal method for achieving intelligent LED lighting in a linear fluorescent space.

### Awards

- Winner: Utah Innovation Award for Cleantech
- Semi-Finalist: National Cleantech Open
- Finalist: NREL Industry Growth Forum, E2C, SXSW Eco, Next Step Challenge, and Defense Innovation Showcase

### Certifications:



### Product Information

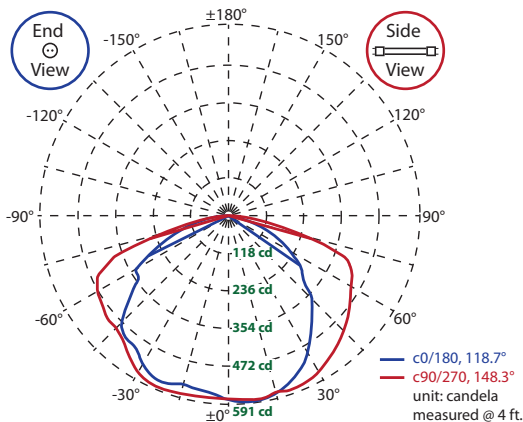
Ballast Compatibility: ..... instant start: >97%  
 rapid/programmed start: ~50%  
 not designed for magnetic  
 Dimming Control: ..... 0-10V wired  
 Correlated Color Temperature (Nom): .... 3500K  
 Optics: ..... frosted polymer  
 View Angle: ..... 120°

Power: ..... <16W (dimmable)  
 Color Rendering Index: ..... ~86%  
 Lumen Output: ..... 2046 lumens (dimmable)  
 Efficacy: ..... 131 lumens/W  
 Lifetime Rating (L<sub>70</sub>): .... 50,000 hours; longer if dimmed  
 Lamp Weight and Dimensions: ..... 0.6 lbs



### Photometric Diagrams

Polar Luminous Intensity



Illuminance Cone

	lux: avg, max	diameter (m)
1.219 m	107.6, 395.0	4.10
2.0 m	40.0, 146.8	6.72
3.0 m	17.8, 65.3	10.09
4.0 m	10.0, 36.7	13.45
5.0 m	6.4, 23.5	16.82

illustrated angle: 118.5°



## Installation Instructions

Below are two common installation methods, which assumes the installer is familiar with how to access fluorescent lamps and fixtures. If you are not comfortable performing the work described below, consult an experienced professional or electrician. For special situations/configurations, please contact iLumens.

### One-for-One Lamp Replacements

1. Turn off power to the lamps.
2. Remove fluorescent lamps carefully (contains mercury).
3. If using existing ballast (must be an electronic ballast), make no modifications.
4. If replacing ballast, consult qualified electrician to wire according to ballast manufacturer instructions. Instant-start ballasts are recommended.
5. Install iLumens lamps. If using lamps with low-voltage wires, install them with wires at same end.
6. If using lamps with low-voltage wires, feed the wires through a hole in the fixture to the outside of the fixture. Ensure wires do not come in contact with sharp metal edges. Connect the low-voltage wires of each lamp to create a common fixture connection. Connect each fixture together and bring to a common room/space control (power pack, dimmer switch, etc.)
7. Dispose of fluorescent lamps properly. Go to [search.earth911.com](http://search.earth911.com) and search "fluorescent tubes" and your zip code to find location.

### Delamping

1. Turn off power to the lamps.
2. Remove fluorescent lamps carefully (contain mercury).
3. Identify whether the ballast is an instant-start or rapid/programmed start ballast and if more than one ballast is being used. If using an instant-start ballast, fewer lamps can be used than the ballast rating (e.g., 2 lamps can be used with a 3-lamp ballast). For rapid/programmed ballasts, please contact iLumens.
4. Decide how many lamps will be used in the fixture and ensure the number of lamps will work with the ballast configuration. If ballast reconfiguration is required, consult a qualified electrician to wire according to ballast manufacturer instructions.
5. Proceed with the "One-for-One Replacements" instructions on the left, beginning at Step 5.

**CAUTION – IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIREABLE OPERATION (BUZZING, FLICKERING, ETC.), IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE AND CONTACT MANUFACTURER.**

**CAUTION – RISK OF FIRE – DO NOT INSTALL THIS LAMP IN A PRE-HEAT LUMINAIRE.**

**THIS LAMP ONLY OPERATES ON ELECTRONIC BALLASTS. IF LAMP DOES NOT LIGHT WHEN LUMINAIRE IS ENERGIZED, REMOVE LAMP FROM LUMINAIRE AND CONTACT LAMP MANUFACTURER OR QUALIFIED ELECTRICIAN.**

**THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXIT FIXTURES OR EMERGENCY EXIT LIGHTS.**

**THIS DEVICE COMPLIES WITH PART 18 OF THE FCC RULES.**

## Warranty

The InnoSys 5-year warranty is valid for all installations fulfilling the relevant norms and application requirements. The products shall be under usage of normal condition or as recommended by InnoSys. InnoSys will replace or repair defective products within 7 working days after receipt of product upon our approved inspection of the returned product except in cases where 1) Product has been modified by the user; 2) Product was not installed or maintained according to manual or specifications; 3) Product was subject to unusual physical or electrical stress, misuse, or negligence; 4) Product was non-defective or product defect was not related to InnoSys product functionality, including third-party modifications; 5) Other damages caused after receipt of product by customer.

## Contact

For ORDERING, GENERAL QUESTIONS or COMMENTS: [info@iLumens.com](mailto:info@iLumens.com) or **801-975-7399**

For TROUBLESHOOTING or WARRANTY: [support@iLumens.com](mailto:support@iLumens.com) or **801-975-7399**