



















Performance Characteristic	ENERGY STAR Specification
Maximum Measured Ballast Case Temperature During Normal Operation Inside Light kit(s)	<u>Not</u> to exceed the ballast manufacturer maximum recommended ballast case temperature during normal operation inside a light kit. <b>Note:</b> This performance characteristic is separate and distinct from thermal requirements established by UL, which governs safety rather than longevity of the ballast. All qualified light kits are expected to meet this requirement
Electromagnetic and Radio Frequency Interference	Ballast must meet FCC requirements for consumer use (FCC 47 CFR Part 18 Consumer Emission Limits)
Ballast Frequency	20 to 33 kHz or $\geq$ 40 kHz
Transient Protection	Per ANSI C82.11b, paragraph 5.10.1 (100kHz Ring Wave, 2.5kV, both common mode and differential mode, 7 strikes)
End of Life Protection	All ballasts that operate lamps sized T5 and smaller must contain an end of life protection circuit. For ballasts that operate multiple lamps and are required to have end of life protection, the ballast must shut down no more than two lamps when one of the lamps has reached end of life. For example, a light kit with one ballast and five lamps must not shut down more than the lamp that has reached end of life plus one additional lamp.
Dimming	Light kits that utilize dimmable ballasts shall be dimmable from 100% to 30%, or less, of maximum light output, or be switchable to three levels of brightness, not including the off position.
Safety - Ballasts and “Non Edison base Fluorescent Adapters”	The cover page of a safety test report or a general coverage statement must be provided to demonstrate compliance with ANSI/UL 935 or UL 1993, as appropriate.
<b>Light Kit Requirements</b>	
Light Kit Warranty	A written warranty must be included with light kit packaging at the time of shipment, which covers repair or replacement of defective parts of the light kit housing and electronics (excluding the lamp) for a minimum of two years from the date of purchase.
Noise	Class A sound rating for electronic ballasts within the light kit, not to exceed a measured level of 24 dBA (audible) when the ballast is installed in the light kit.
Lamp Shipment Requirement	All light kits must be shipped with the lamp(s).
Replaceable ballast	Ballasts in all light kits must be accessible and removable by an electrician without the cutting of wires and without damage to the housing or decorative elements of the light kit.
Safety - Hardwired Light kits <sup>3</sup>	The cover page of a safety test report or a general coverage statement must be provided to demonstrate compliance with UL 1598.
Product Packaging for Consumer Awareness Requirements	Product packaging language is required that clearly describes the nominal color designation of the lamp in units of Kelvin (i.e., 2700K, 3000K, 3500K, 4100K, 5000K, or 6500K).

<sup>3</sup> Regarding ceiling fans that are intended to be used outdoors, light kits must be compliant with NFPA 70, the National Electrical Code (NEC), including requirements for damp locations (Articles 410-4a and Article 100).































