



The Next Innovation

Reliable operation up to 155° F with Cool Running Plus™ Technology

Acuity Brands Lighting and Philips Lighting Electronics continue a tradition of leadership by introducing the latest innovation for fluorescent high-bay applications. When ambient temperatures rise, lighting systems heat-up shortening system life. Cool Running Plus™ Technology gives you peace of mind with **reliable operation up to 155° F**, the highest ambient temperature performance on the market. Depend upon our exclusive Cool Running Plus™ thermal guard technology to keep your ballast components running cool, maximizing their life.

In addition, these ballasts are parallel-wired which provides independent lamp operation within the fixture. When one lamp reaches its end-of-life (EOL) the **remaining lamps stay illuminated**, which means you change out only the lamps that need to be replaced. This maintains light levels by minimizing dark lamps, which reduces the urgency of relamping.

Philips Advance Optanium ballasts are optimized for Philips Energy Advantage 49W T5HO lamps resulting in **38W of energy savings** in a six-lamp fixture.¹ And an industry leading 5-year lamp and ballast system warranty.² Furthermore, these ballasts offer

enhanced two-level switching to provide an **additional 21W of energy savings** when operated in low-power mode.¹ All-in-all, the Philips Advance branded ballast with Cool Running Plus™ Technology - found exclusively in Acuity Brands Lighting luminaires - helps you improve your payback and reduce maintenance expenses.

- **Independent Lamp Operation**
Helps reduce maintenance costs as more lamps stay illuminated when lamps reach end-of-life minimizing costly lamp replacement and disposal.
- **Faster Starting Programmed Start**
Lamps start in less than one second, improving lighting system response to occupancy sensors.
- **Enhanced Two-Level Switching**
Provides an additional 24W of energy savings when operated in low-power mode.¹

1. When compared to standard Philips Advance T5HO ballasts and Philips T5HO 54W lamps at 277V.

2. For up-to-date warranty information go to www.philips.com/advancewarranty.

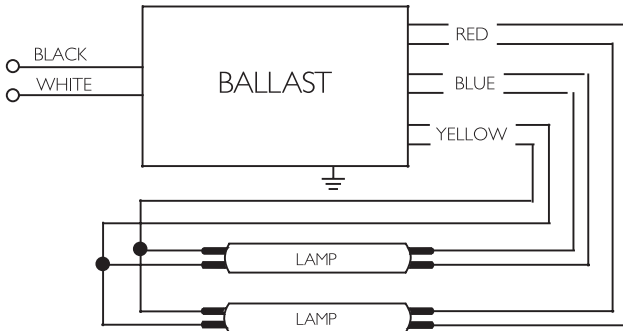
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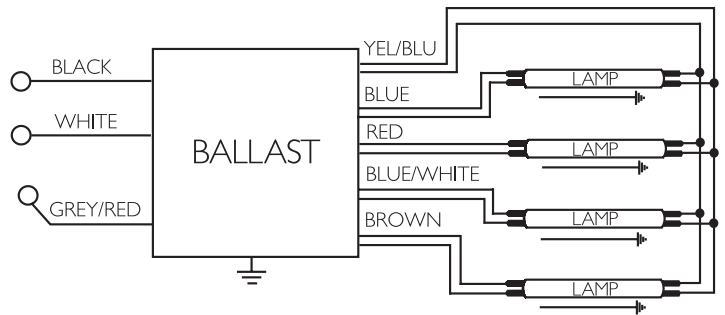
Acuity Brands Lighting with Cool Running Plus™ Technology

Number	Input Volts	Starting Method	Ballast Family	Catalog Number	Input Power ANSI Watts)	Ballast Factor	Max. THD %	Line Current (Amps)	Min. Starting Temp (F/C)	Dim.	Wiring Dia.
Philips F54T5/HO 49W Energy Advantage Lamps (at 100% output) - Extended 5-year Warranty											
1	120-277	PS	Optanium	ICRP-2PSP54-90C	57	1.00	10	0.47-0.21	-20/-29	B	78
2	120-277	PS	Optanium	ICRP-2PSP54-90C	109-105	1.00	10	0.91-0.38	-20/-29	B	78
3	120-277	PS	Optanium	ICRP-4PSP54-90C	162-159	1.00	10	1.35-0.58	-20/-29	G	79
4	120-277	PS	Optanium	ICRP-4PSP54-90C	214-208	1.00	10	1.79-0.76	-20/-29	G	79
Philips F54T5/HO 49W Energy Advantage Lamps (utilizing two level switching)											
2	120-277	PS	Optanium	ICRP-4PSP54-90C	97-96	0.85	10	0.81-0.36	-20/-29	B	79
F54T5/HO 54W - Standard Warranty											
1	120-277	PS	Optanium	ICRP-2PSP54-90C	60	1.00	10	0.50-0.22	-20/-29	B	78
2	120-277	PS	Optanium	ICRP-2PSP54-90C	117-114	1.00	10	0.98-0.41	-20/-29	B	78
3	120-277	PS	Optanium	ICRP-4PSP54-90C	176-174	1.00	10	1.47-0.83	-20/-29	G	79
4	120-277	PS	Optanium	ICRP-4PSP54-90C	235-229	1.00	10	1.96-0.83	-20/-29	G	79

Wiring Diagrams/Dimensions



Diag. 78



Diag. 79

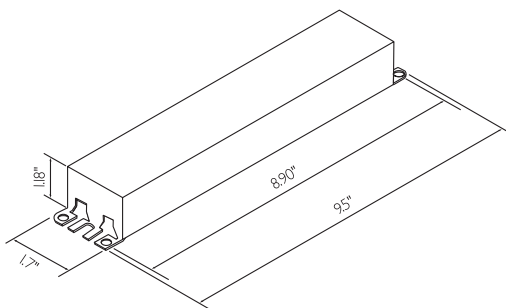


Fig. B

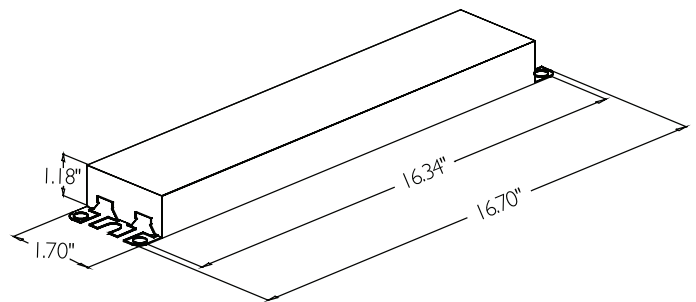


Fig. G

Ballast Specifications

Section I - Physical Characteristics

- 1.1 Ballast shall be provided with integral leads color-coded per ANSI C82.11.

Section II - Performance Requirements

- 2.1 Ballast shall be Programmed Start with lamp ignition in less than 1.0 second.
- 2.2 Ballast shall provide thermal guard protection for reliable high ambient temperature performance.
- 2.3 Ballast shall provide Independent Lamp Operation for Programmed Start ballasts allowing remaining lamp(s) to maintain full light output when one or more lamps reach end-of-lamp-life.
- 2.4 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power.
- 2.5 Ballast shall operate from 60 Hz input source of 120V through 277V with sustained variations of +/- 10% (voltage and frequency).
- 2.6 Ballast shall be high frequency electronic type and operate lamps at a frequency between 42kHz and 52kHz to avoid interference with infrared devices, eliminate visible flicker and avoid Article Surveillance System, such as anti-theft devices.
- 2.7 Ballast shall have a Power Factor greater than 0.98 for primary lamp.
- 2.8 Ballast shall have a 1.0 ballast factor for primary lamp application.
- 2.9 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less, generally recommended by lamp manufacturers.
- 2.10 Ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when operated at nominal line voltage with primary lamp.
- 2.11 Ballast shall have a Class A sound rating for all 4-foot lamps and smaller.
- 2.12 Ballast shall have a minimum starting temperature of -20° F (-29° C) for energy-saving T5HO lamps.
- 2.13 Ballast shall tolerate sustained open circuit and short circuit output conditions.

Section III - Regulatory Requirements

- 3.1 Ballast shall not contain any Polychlorinated Biphenyl (PCB).
- 3.2 Ballast shall be Underwriters Laboratories (UL) listed, Class P and Type I Outdoor; and Canadian Standards Association (CSA) certified where applicable.
- 3.3 Ballast shall comply with ANSI C62.41 Category A for Transient protection.
- 3.4 Ballast shall comply with ANSI C82.11 where applicable.
- 3.5 Ballast shall comply with the requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 18, Non-Consumer (Class A) for EMI/RFI (conducted and radiated).

Section IV - Other

- 4.1 Ballast shall be manufactured in a factory certified to ISO 9002 Quality System Standards.
- 4.2 Ballast shall carry a 5-year limited warranty from date of manufacture against defects in material or workmanship. This warranty is conditioned upon operation with 49W T5HO lamps at or below a maximum ambient temperature of 155° F. The maximum case temperature must not exceed 90° C. (Go to our web site for up-to-date warranty information: www.philips.com/advancewarranty).
- 4.3 Philips F54T5/HO 49W Energy Advantage lamps shall carry a 5-year limited warranty from date of manufacture against defects in material or workmanship. (Go to our web site for up-to-date warranty information: www.philips.com/advancewarranty).
- 4.4 Manufacturer shall have a twenty-year history of producing electronic ballasts for the North American market.
- 4.5 Ballast shall be Philips Advance part # _____ or approved.

 **AcuityBrands.**

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