

Direct5<sup>™</sup>  
LED



## LED T5 Tubes

### Product Specifications



TCP's Direct5 tubes are the perfect replacement for old fluorescent lighting. Remove the existing T5 fluorescent and replace with Direct5 Type A plug and play tubes. These tubes feature multiple ballast compatibility.

## Reasons to choose the LED T5 Tubes from TCP

- >50% Energy savings
- 50,000 hour life minimizes the need for replacements and labor costs
- Compatible with multiple ballasts
- Instant on/off
- No mercury – great for all environments
- Rated for enclosed fixtures
- No UV

## Ideal Applications

- Offices
- Retail Stores
- Schools
- Restaurants
- Lobbies
- Hospitals

TCP®

325 Campus Dr. | Aurora, Ohio 44202 | P: 800-324-1496 | [tcp.com](http://tcp.com)

RECOGNIZED  
COMPONENT



Intertek  
4005203

CONFORMS TO NSF STD. 2



5 YEAR  
WARRANTY

To view our DLC qualified products, please consult the DLC  
Qualified Products List at [www.designlights.org/qpl](http://www.designlights.org/qpl).



# LED DirecT5™ Tubes

## Specifications:

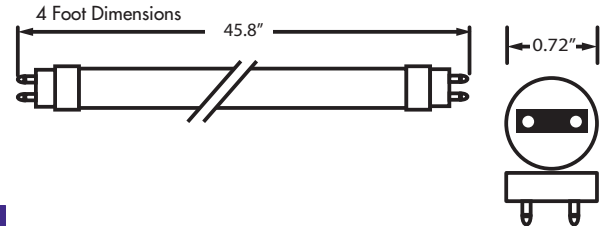
### Listing

UL/cUL Listed – damp location rated  
Approved for open and enclosed fixtures

### Warranty

Five years against defects in manufacturing

LED T5 Tube  
4 foot



Item #	Min Starting Temp	Max Operating Temp	Voltage	NSF 2 Rated	Beam Angle	Field Angle*	PF	THD**
L25T5	-20C	45c	120-277, 347V	yes	160°	270°	> .99	< 5%
L13T5	-20C	45c	120-277, 347V	yes	160°	250°	> .99	< 5%

\*Calculated \*\*At 120v, ballast dependent

## LED DirecT5™ Tubes:

Item#	Description	DLC QPL*	Lamp Watts	Equiv Watts	System Watts	System Lumens	CCT	CRI	Base	Master Pack
<b>LED T5 HO - 4FT PET COATED GLASS - 50,000 HOURS      DLC# LOOK-UP L25T5D50XXK</b>										
L25T5D5030K	LED 25W 4' T5 IS/RS SC 30K	★	25.5W	54W	28W	3150	3000K	80	G5	25
L25T5D5035K	LED 25W 4' T5 IS/RS SC 35K	★	25.5W	54W	28W	3150	3500K	80	G5	25
L25T5D5041K	LED 25W 4' T5 IS/RS SC 41K	★	25.5W	54W	28W	3190	4100K	80	G5	25
L25T5D5050K	LED 25W 4' T5 IS/RS SC 50K	★	25.5W	54W	28W	3280	5000K	80	G5	25
<b>LED T5 HE - 4FT PET COATED GLASS - 50,000 HOURS      DLC# LOOK-UP L13T5D50XXK</b>										
L13T5D5030K	LED 13W 4' T5 IS/RS SC 30K	★	13W	28W	16W	1800	3000K	80	G5	25
L13T5D5035K	LED 13W 4' T5 IS/RS SC 35K	★	13W	28W	16W	1800	3500K	80	G5	25
L13T5D5041K	LED 13W 4' T5 IS/RS SC 41K	★	13W	28W	16W	1850	4100K	80	G5	25
L13T5D5050K	LED 13W 4' T5 IS/RS SC 50K	★	13W	28W	16W	1900	5000K	80	G5	25

\* DLC qualified product at time of printing, consult [designlights.org](http://designlights.org) for the most up-to-date listing.  
For the most up-to-date specs and warranty information, please visit [www.tcp.com](http://www.tcp.com)



# LED DirecT5™ Ballast Compatibility Guides

## Electronic Ballasts Compatible with 25.5 watt LED DirecT5™

BALLAST for FOUR LAMPS					
Brand	Model #	Four Lamp	Three Lamp	Two Lamp	One Lamp
ESPER	VE454MVHRP	Y	Y	Y	N
KEYSTONE	KTEB-454HO-UVPS	Y	Y	N	N
Osram/Sylvania	QHE 4x54T5HO/UNV PSN HT SCL	Y	Y	Y	Y
	QTP 4x54T5HO/UNV PSN HT W	Y	N	Y	N
	QHE 4x54T5HO/347-480 PSN HT SCL	N	N	Y	Y
Philips/Advance	ICN-4S54-90C-2LS-G	Y	Y	N	N
	HCN-4S54-90C-2LS-G	Y	Y	N	N
	HCN-4S54-90C-2LS-G	Y	Y	Y	Y
	HCN-4S54-90C-2LS-G-347V	Y	Y	Y	Y
ROBERTSON	PSB454T5MV	Y	Y	Y	Y
STANDARD	E454T5HOPS347/N/XTRM	Y	Y	Y	Y
ULTRASAVE	ER254347HFW	N	Y	Y	Y
	ER454347HFW	Y	Y	Y	N
UNIVERSAL	B454PUNVHBE	Y	Y	N	N

## Electronic Ballasts Compatible with 13 watt LED DirecT5™

BALLAST for TWO LAMPS			
Brand	Model #	Two Lamp	One Lamp
GE	GE 228 MVPSHA	Y	Y
KEYSTONE	KTEB-221PS-1-TP/A	Y	Y
	KTEB-228HEUV	Y	Y
Osram / Sylvania	QHE 2x25T5/UNV PSN	Y	Y
	QHT 2x28T5/UNV PSN	Y	Y
Philips/Advance	ICN-2S28-N	Y	Y
	ICN-2S28-N	Y	Y
	ICN-2S28-T	Y	Y
	ISN-2S28-N	Y	Y
Racehorse	RHA-UNV-228L T5	Y	Y
Robertson	PROFESSIONALQTP52x54	Y	Y
Universal	B228PU95S50D	Y	Y
	B228PUNVC	Y	Y
	B228PUNVN	Y	Y
	D228PUNVC	Y	Y

## Electronic Ballasts Compatible with 25.5 watt LED DirecT5™

BALLAST for TWO LAMPS			
Brand	Model #	Two Lamp	One Lamp
FULHAM	RHA-UNV-254LT5	Y	Y
KEYSTONE	KTEB-254HO-UVPSL	Y	Y
	KTEB-254HO-UVPS/A	Y	Y
Osram/Sylvania	QHE2x54T5HO/UNV PSN	Y	Y
	QTP2x54T5HO/UNV PSN HT	Y	Y
	QTP 2x54 T5HO/UNV PSN	Y	Y
	QHE 4*54T5HO/347-480 PSN HT SCL	Y	Y
Philips/Advance	ICN-2S54-N	Y	Y
	ICN-2S54-T	Y	Y
	HCN-2S54-90C-WL	Y	Y
	HCN-2S54-90C-WL-347V	Y	Y
	ICN-2S54	Y	Y
	IZT-2S54-D	Y	Y
	ICN-2S54-90C-N	Y	Y
	HCN-4S54-90C-2LS-G-347V	Y	Y
TCP	E2PS4PRSUNVE	Y	Y
ULTRASAVE	ER254347HWW	Y	Y
UNIVERSAL	B254PUNVD	Y	Y

## Dimmable Electronic Ballasts Compatible with 13 watt LED DirecT5™

BALLAST for TWO LAMPS			
Brand	Model #	Two Lamp	One Lamp
Philips/Advance	IZT-2S-28-D	Y	Y
	IZT-128-D	N	Y

Ballast compatibility tests are performed under a controlled lab environment. Field conditions may vary from this type of environment. Ballasts may differ by age and could have undergone revisions under the same item number affecting compatibility. Compatibility may also extend beyond this list. TCP recommends trying a few ballast-lamp combinations in an on-site test to ensure compatibility and performance before a major installation.

# TECHNOLOGY CAST IN A BEAUTIFUL LIGHT

For over 20 years, TCP has been designing, developing and delivering energy-efficient lighting into the market. Thanks to our cutting-edge technology and manufacturing expertise, we have shipped billions of high quality lighting products. With TCP, you can count on a lighting product that is designed to meet the needs of the market - that transforms your surroundings and envelopes you in warmth - lighting that generates beauty with every flip of the switch.

For more information on the quality and care TCP can deliver, call us at **800.324.1496** or visit [tcpi.com](http://tcpi.com)

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