

Туре

..... Yes

Frequency 50/60 HZ FCC Compliance 47 CFR Part 18 Rated Life 12,000 Hours • UL approved for wet location in base up position. • 2 hour burn-in time at full power recommended. • Covered and Reflectors UL approved for wet location base up position. • 50123 approved for open recessed cans and enclosed

Designed specifically for use with standard non-illuminated 600 watt incandescent slide or rotary dimmer. Consult TCP Technical Support or dimmer manufacturer for compatibility with other dimmer types. Can also be used with dimmers

Warranties and Certifications:	ENERG Star®	/ Item #	Description	Wattage	Incandescent Wattage Comparison	Initial Lumens	M.O.L. (inches)	Diameter (inches)	Input Line Current	Lamp Shape
		4R3016TD 4R2014TD 4R4016TD	16 WATT R30 Dimmable 14 WATT R20 Dimmable 16 WATT R40 Dimmable	16 14 16	65W 50W 65W	650 410 750	5.4 5.1 6.1	3.7 2.5 4.8	.19A .17A .19A	R30 R20 R40
	*	41316TD 41315TD	16 WATT A-Lamp Dimmable 15 WATT A-Lamp Dimmable	16 15	60W 60W	850 750	5.5 5.1	2.4 2.3	.19A .18A	A-21 A-19
c	*	4G2515TD 4G4015TD	15 WATT G25 Globe Dimmable 15 WATT G40 Globe Dimmable	15 15	60W 60W	750 750	5.2 7.3	3.1 4.8	.18A .18A	G25 G40
For the most up-to-date specs, please visit www.tcpi.com	*	50114 50123 53123SP	14 WATT Full Spring Dimmable 23 WATT Full Spring Dimmable 23 WATT Full Spring Dimmable GU Base	14 23 23	60W 100W 100W	850 1500 1500	4.7 4.9 4.4	2.0 2.4 2.4	.17A .27A .27A	Spring Spring Spring

TCP[®]

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TCP PRO

TruDim[®] Dimmable CFL Specification

Color Temperature	Item #	Description	Wattage	Incandescent Wattage Comparison	Initial Lumens	M.O.L. (inches)	Diameter (inches)	Input Line Current	Lamp Shape
4R2014 4R4016	4R3016TD	16 WATT R30 Dimmable	16	65W	650	5.4	3.7	.19A	R30
	4R2014TD	14 WATT R20 Dimmable	14	50W	410	5.1	2.5	.17A	R20
	4R4016TD	16 WATT R40 Dimmable	16	65W	750	6.1	4.8	.19A	R40
	41316TD	16 WATT A-Lamp Dimmable	16	60W	850	5.5	2.4	.19A	A-21
	41315TD	15 WATT A-Lamp Dimmable	15	60W	750	5.1	2.3	.18A	A-19
	4G2515TD	15 WATT G25 Globe Dimmable	15	60W	750	5.2	3.1	.18A	G25
	4G4015TD	15 WATT G40 Globe Dimmable	15	60W	750	7.3	4.8	.18A	G40
	50114	14 WATT Full Spring Dimmable	14	60W	850	4.7	2.0	.17A	Spring
	50123	23 WATT Full Spring Dimmable	23	100W	1500	4.9	2.4	.27A	Spring
	53123SP	23 WATT Full Spring Dimmable GU Base	23	100W	1500	4.4	2.4	.27A	Spring
3000°K	4R3016TD30K 4R2014TD30K	16 WATT R30 Dimmable 3000K 14 WATT R20 Dimmable 3000K	16 14	65W 50W	650 410	5.4 5.1	3.7 2.5	.19A .17A	R30 R20
ordering suffix	4R4016TD30K	16 WATT R40 Dimmable 3000K	14	65W	750	6.1	4.8	.17A .19A	R40
30K	41316TD30K	16 WATT A-Lamp Dimmable 3000K	16	60W	850	5.5	2.4	.19A	A-21
JON	41315TD30K	15 WATT A-Lamp Dimmable 3000K	15	60W	750	5.1	2.4	.19A .18A	A-21 A-19
413151D30K 4G2515TD30K 4G4015TD30K 5011430K 5012330K		15 WATT A-Lamp Diminuble 3000K	15	60W	750	5.2	3.1	.18A	G25
		15 WATT G40 Globe Dimmable 3000K	15	60W	750	7.3	4.8	.18A	G40
		14 WATT Full Spring Dimmable 3000K	14	60W	850	4.7	2.0	.17A	Spring
	23 WATT Full Spring Dimmable 3000K	23	100W	1500	4.9	2.4	.27A	Spring	
	4R3016TD35K	16 WATT R30 Dimmable 3500K	16	65W	600	5.4	3.7	.19A	R30
3500°K	4R2014TD35K	14 WATT R20 Dimmable 3500K	14	50W	380	5.1	2.5	.17A	R20
ordering suffix	4R4016TD35K	16 WATT R40 Dimmable 3500K	16	65W	700	6.1	4.8	.19A	R40
35K	41316TD35K	16 WATT A-Lamp Dimmable 3500K	16	60W	800	5.5	2.4	.19A	A-21
	41315TD35K	15 WATT A-Lamp Dimmable 3500K	15	60W	700	5.1	2.3	.18A	A-19
	4G2515TD35K	15 WATT G25 Globe Dimmable 3500K	15	60W	700	5.2	3.1	.18A	G25
4G4015TD35I 5011435K 5012335K 53123SP35K	4G4015TD35K	15 WATT G40 Globe Dimmable 3500K	15	60W	700	7.3	4.8	.18A	G40
		14 WATT Full Spring Dimmable 3500K	14	60W	850	4.7	2.0	.17A	Spring
		23 WATT Full Spring Dimmable 3500K	23	100W	1500	4.9	2.4	.27A	Spring
	53123SP35K	23 WATT Full Spring Dimmable 3500K GU Base	23	100W	1500	4.4	2.4	.27A	Spring
1000	4R3016TD41K	16 WATT R30 Dimmable 4100K	16	65W	600	5.4	3.7	.19A	R30
4100°K	4R2014TD41K	14 WATT R20 Dimmable 4100K	14	50W	380	5.1	2.5	.17A	R20
ordering suffix	4R4016TD41K	16 WATT R40 Dimmable 4100K	16	65W	700	6.1	4.8	.19A	R40
41K	41316TD41K	16 WATT A-Lamp Dimmable 4100K	16	60W	800	5.5	2.4	.19A	A-21
	41315TD41K	15 WATT A-Lamp Dimmable 4100K	15	60W	700	5.1	2.3	.18A	A-19
	4G2515TD41K	15 WATT G25 Globe Dimmable 4100K	15	60W	700	5.2	3.1	.18A	G25
5011441K 5012341K 53123SP4	4G4015TD41K	15 WATT G40 Globe Dimmable 4100K	15	60W	700	7.3	4.8	.18A	G40
		14 WATT Full Spring Dimmable 4100K	14 23	60W	800	4.7	2.0 2.4	.17A .27A	Spring
		23 WATT Full Spring Dimmable 4100K 23 WATT Full Spring Dimmable 4100K GU Base	23	100W 100W	1450 1450	4.9 4.4	2.4 2.4	.27A .27A	Spring Spring
	4R3016TD50K	16 WATT R30 Dimmable 5000K	16	65W	550	5.4	3.7	.19A	R30
5000°K	4R2014TD50K	14 WATT R20 Dimmable 5000K	14	50W	380	5.1	2.5	.17A .17A	R20
ordering suffix	4R4016TD50K	16 WATT R40 Dimmable 5000K	16	65W	675	6.1	4.8	.19A	R40
50K	41316TD50K	16 WATT A-Lamp Dimmable 5000K	16	60W	775	5.5	2.4	.19A	A-21
41315TD: 4G2515TI 4G4015TI 5011450 5012350		15 WATT A-Lamp Dimmable 5000K	15	60W	675	5.1	2.3	.18A	A-19
	4G2515TD50K	15 WATT G25 Globe Dimmable 5000K	15	60W	675	5.2	3.1	.18A	G25
	4G4015TD50K	15 WATT G40 Globe Dimmable 5000K	15	60W	675	7.3	4.8	.18A	G40
		14 WATT Full Spring Dimmable 5000K	14	60W	800	4.7	2.0	.17A	Spring
	5012350K	23 WATT Full Spring Dimmable 5000K	23	100W	1450	4.9	2.4	.27A	Spring
	53123SP50K	23 WATT Full Spring Dimmable 5000K GU Base	23	100W	1450	4.9	2.4	.27A	Spring
	4R3016TD65K	16 WATT R30 Dimmable 6500K	16	65W	550	5.4	3.7	.19A	R30
6500°K	4R2014TD65K	14 WATT R20 Dimmable 6500K	14	50W	380	5.1	2.5	.17A	R20
ordering suffix	4R4016TD65K	16 WATT R40 Dimmable 6500K	16	65W	675	6.1	4.8	.19A	R40
65K	41316TD65K	16 WATT A-Lamp Dimmable 6500K	16	60W	775	5.5	2.4	.19A	A-21
	41315TD65K	15 WATT A-Lamp Dimmable 6500K	15	60W	675	5.1	2.3	.18A	A-19
	4G2515TD65K	15 WATT G25 Globe Dimmable 6500K	15	60W	675	5.2	3.1	.18A	G25
	4G4015TD65K	15 WATT G40 Globe Dimmable 6500K	15	60W	675	7.3	4.8	.18A	G40
	5011465K	14 WATT Full Spring Dimmable 6500K	14	60W	800	4.7	2.0	.17A	Spring
	5012365K	23 WATT Full Spring Dimmable 6500K	23	100W	1400	4.9	2.4	.27A	Spring

For the most up-to-date specs, please visit www.tcpi.com



1. Q: Do TCP TruDim[®] Series products dim exactly like an incandescent lamp?

A: 1) TCP TruDim[®] Series products have slightly different dimming characteristics due to the electronics of a CFL vs. an incandescent filament however they are very close in performance.

2) However it is important to note that Electronic components do not respond in the same manner as a heated incandescent filament therefore there will be slight differences in visual operational characteristics.3) Remember this is a Compact Fluorescent Lamp which has a high level of technology engineered into it vs. an incandescent which has zero technology, they are not the same.

2. Q: Do TCP's TruDim[®] Series products work on ordinary incandescent dimmers?

A: YES! Designed specifically for use with standard non-illuminated 600 watt incandescent slide or rotary dimmers that are currently available in the market. They will also work with CFL dimmers that are available in the market. Consult TCP Customer Care or the dimmer manufacturer for compatibility with other dimmer types.

3. Q: Will TCP's TruDim[®] Series products work on every incandescent dimmer ever made?

A: NO! Although TCP's TruDim[®] Series product has been approved for use with 600w incandescent dimmers, there are certain types of dimmers that have proven to be incompatible due to certain dimmer features or outdated dimmer technology.

4. Q: How can I tell if a dimmer is not compatible with a TCP TruDim[®] lamp?

A: Generally speaking, certain programmable electronic and/or remote control dimmers are not compatible. Additionally, high wattage dimmers (1000w+) are typically incompatible because of different voltage/current regulations, manufacturing regulations, and manufacturing tolerances. Illuminated (glow-in-the-dark) dimmers are usually incompatible with dimmable CFLs.

5. Q: Can TCP recommend a compatible dimmer?

A: Although TCP is not at liberty to recommend one manufacturer or brand over another, basic lab testing and real-world experience has shown that 600 Watt max, mid-grade, non-illuminated slide and rotary dimmers function well. Also the new CFL-LED dimmers now available also function well. Follow these links to obtain more compatibility information about Lutron and Leviton dimmers:

http://www.lutron.com.service-support/technical/pages/technicalfaq.aspx http://www.communities.leviton.com.docs/doc-2542

6. Q: What are the compatible dimmers that Lutron recommends? A: Through independent testing at Lutron's laboratories, the following Lutron wall-mount and in-line models

were deemed exceptable for use with TCP Pro and TruDim CFL lamps: Credenza®C•L[™]:TTCL-100H Diva® C•L[™]:DVWCL-153P, DVCL-153P,DVSCCL-153P Skylark Contour[™] CL:CTCL-153P Lumea® C•L:LGCL-153PH Toggler®/Ariadni® C•L[™]:TGCL-153P, AYCL-153P



7. Q: Will TCP's TruDim[®] Series products flicker at the low level as other CFL Dimmable product does?

A: 1) No! TCP's Dimmable series product dims down to 2% without flicker. However at Zero hours the bulbs may look unstable when first put into use. We recommend to season the bulbs at full power for 2 hours this will stabilize the phosphor and mercury resulting much better dimming and lamp performance. 2) It is important to note that because TruDim will dim down to such a low level it is recommended that you not use the dimming controller, knob or slider for example, as an on/off device. By sliding or turning the device all the way down this does not turn the power off completely to the lamps. Because TruDim has an integrated circuit chip in thecircuit board this may read the low power and cause the TruDim lamps to strobe. We recommend to use the controller to adjust light level only and use the on/off switch to control power to the lamps.

8. Q: Does the performance of TCP's TruDim[®] Series products rely on the quality of a dimmer?

A: YES! Consideration must be given to the age and quality of a dimmer if it is to be used with a TCP TruDim[®] Series product. Because of the recent push to save energy, newer dimmers are more likely to be CFL compatible. Older dimmers are not as capable of withstanding voltage spikes, which, if used, would ultimately damage the circuitry in the TCP TruDim[®] Series product.

9. Q: Does the performance of TCP's TruDim[®] Series products rely on the quality of a dimmer? A: YES! Consideration must be given to the age and quality of a dimmer if it is to be used with a TCP TruDim[®] Series product. Because of the recent push to save energy, newer dimmers are more likely to be CFL compatible. Older dimmers are not as capable of withstanding voltage spikes, which, if used, would ultimately damage the circuitry in the TCP TruDim[®] Series product.

10. Q: Can 1000 watt or larger commercial grade dimmers be used with TCP's TruDim[®] Series products?

A: No! Most commercial grade dimmers are manufactured to be used with incandescent lamps which have a large resistive load when energized. Since TCP TruDim products are electronic, they do not have the same resistive load as an incandescent, and as such, the dimmer will not be able to maintain the proper power balance needed to perform as intended.

11. Q: How do you properly use TCP's TruDim[®] Series products?

A: TCP recommends a burn-in period of 2 hours at full power to stabilize the lamp before dimming. If lamps have been idle for an extended period of time burn at full power for 30 minutes before dimming. When dimming to the off position lamps may pulse at the low end briefly then turn off. This is a safe mode for the lamps and will not hurt the lamp or dimmer.

12. Q: Will it damage the lamps if they are turned on at too low a level and they don't come on?

A: No! TCP TruDim lamps are designed to be turned off and on at a low level with an on/off switch located on the dimmer. If the lamps do not turn on simply move the dimming level up till the lamps turn on then dim down to desired level.

13. Q: What is the warranty and average life of TCP's TruDim[®] Series products?

A: TCP's TruDim[®] Series product is warranted for 24 months. Using accepted industry standards, the average life is rated at 12,000 hours.



14. Q: Can TCP TruDim[®] be used in 3-way lamp sockets?

A: No! TCP's TruDim[®] Series product will not perform like a 3 way bulb in a 3 way socket they will only have 1 light level at full power.

15. Q: Will frequent dimming significantly shorten the life of a TCP TruDim[®] Series products?

A: NO! Frequent dimming will not significantly reduce the life of the TCP TruDim® Series product.

16. Q: Can the TCP TruDim[®] be used with a touch lamp?

A: NO! Touch lamps are actually controlled by a 3-way switch, so the same rules as the 3-way switch apply in this case.

17. Q: How many TCP TruDim[®] lamps can be used on the same dimmer?

A: To compensate for "inrush current" (timed in milliseconds, the initial flow of electrical current that is needed to start the CFL), TCP recommends dividing the dimmer's rated wattage in half and then using that wattage number to outfit the fixture. For example:

600 Watt Dimmer $\div 2 = 300$ Watts

TCP's 14W Dimmable CFL: 300 ÷ 14 = 21 lamps

TCP's 16W Dimmable CFL: $300 \div 16 = 18$ lamps

NOTE: Since every dimmer is manufactured differently there may be some variance in these numbers. The above examples are a rough estimate only.

18. Q: Will TruDim[®] product all turn off simultaneously when dimmed down to 2% or below?

A: No. If you have a series of TruDim product on a circuit as you dim down to 2% or below the lamps will turn off at different times. Eventually all will turn off but you may have a situation (extremely small range on your dimmer control) with a portion of the lamps still on and the rest off.

19. Q: Why do some of the lamps strobe at the very low end before turning off?

A: 1. This is due to the low dim level turn-on capability. When the lamps are dimmed to below 2% some of the lamps may pulse or strobe 4-6 times then turn off. This does not affect the life or performance of the lamps.

2. Also at the bottom of the dimming trail on a dimmer the power is never actually turned off so the TruDim lamps may still be reading power causing the strobe. It is our recommendation to not use the dimming knob or slider as an on/off device, use it for light level control and use the on/off switch to turn bulbs on and off. If the lamps continue to strobe move the knob or slider up until the lamps turn back on at a low level. Then use the on/off switch to turn lamps on/off.

20. Q: Can TruDim[®] lamps be used with other dimming CFL's or lamps?

A: No it is recommended to use 100% TruDim lamps on a circuit do not use any other Dimming CFL lamps in combination with TruDim. This may affect the performance of the lamps during dimming mode.