

TCP TruDim Covered Lamps

12,000 Hours average rated life, 120 V

TruDim™

Technology by TCP

Applications:

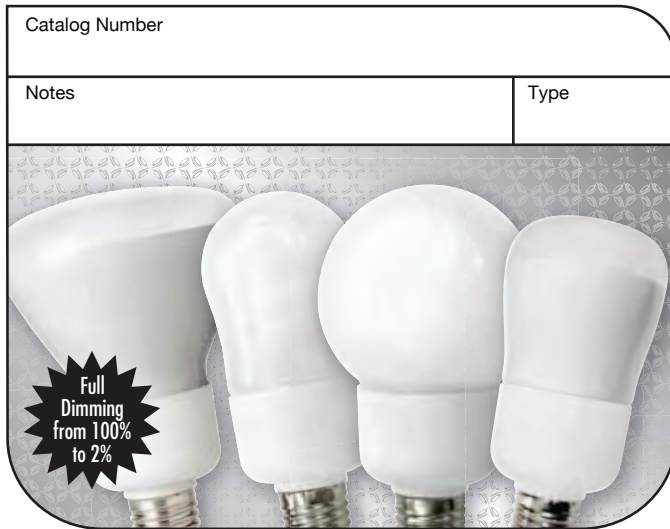
Perfect for most dimmable applications: Use where a standard incandescent is used.

- + Table Lamps
- + Chandeliers
- + Wall Sconces
- + Ceiling Fixtures
- + Recessed Cans



Features and Benefits

- Multi-level adaptive circuitry provides stable linear dimming from 100 to 2%
- Features a dimming curve that closely matches the human eye response of incandescent dimming
- Overdrive technology provides faster run-up time
- Superior circuitry design controls low dim level starting capability
- Zero low end flicker
- Unique NanoTi pre-phosphor coating improves Lumen Maintenance over the life of the lamp

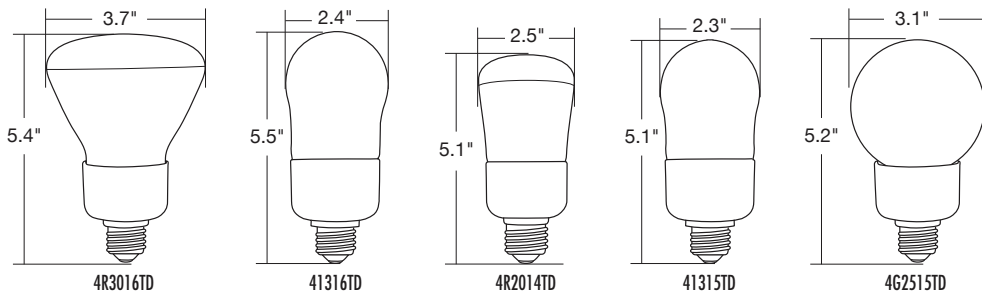


Specifications (at full brightness)

| | |
|-----------------------------|------------------------|
| End of Life Protection..... | Yes |
| Ballast type | Electronic |
| Starting method..... | Programmed Rapid Start |
| Voltage | 120VAC |
| Frequency | 50/60 HZ |
| CRI | 82 |
| FCC Compliance | 47 CFR Part 18 |
| Power Factor | > .70 at full power |
| Rated Life | 12,000 Hours |

Special Application Notes

- UL approved for wet location in base up position.
- 2 hour burn-in time at full power recommended.



Suggested Dimmer:

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

TCP reserves the right to void the warranty for any misapplication of these products.

| Warranties and Certifications: | Item # | Description | Wattage | Incandescent Wattage Comparison | Initial Lumens | M.O.L. (inches) | Diameter (inches) | Input Line Current | Lamp Shape | Availability |
|--------------------------------|----------|----------------------------|---------|---------------------------------|----------------|-----------------|-------------------|--------------------|------------|---------------|
| 24 MONTH WARRANTY | 4R3016TD | 16 WATT R30 Dimmable | 16 | 65W | 650 | 5.4 | 3.7 | .19A | R30 | Available Now |
| | 41316TD | 16 WATT A-Lamp Dimmable | 16 | 60W | 850 | 5.5 | 2.4 | .19A | A-21 | Coming Soon |
| | 4R2014TD | 14 WATT R20 Dimmable | 14 | 50W | 410 | 5.1 | 2.5 | .17A | R20 | Coming Soon |
| | 41315TD | 15 WATT A-Lamp Dimmable | 15 | 60W | 750 | 5.1 | 2.3 | .18A | A-19 | Coming Soon |
| | 4G2515TD | 15 WATT G25 Globe Dimmable | 15 | 60W | 750 | 5.2 | 3.1 | .18A | G25 | Coming Soon |





TruDim™ Dimmable Covered CFL Specification

| Color Temperature | Item # | Description | Wattage | Incandescent Wattage Comparison | Initial Lumens | M.O.L. (inches) | Diameter (inches) | Input Line Current | Lamp Shape | Availability |
|---|-------------|----------------------------------|---------|---------------------------------|----------------|-----------------|-------------------|--------------------|------------|---------------|
| 2700°K | 4R3016TD | 16 WATT R30 Dimmable | 16 | 65W | 650 | 5.4 | 3.7 | .19A | R30 | Available Now |
| | 41316TD | 16 WATT A-Lamp Dimmable | 16 | 60W | 850 | 5.5 | 2.4 | .19A | A-21 | Coming Soon |
| | 4R2014TD | 14 WATT R20 Dimmable | 14 | 50W | 410 | 5.1 | 2.5 | .17A | R20 | Coming Soon |
| | 41315TD | 15 WATT A-Lamp Dimmable | 15 | 60W | 750 | 5.1 | 2.3 | .18A | A-19 | Coming Soon |
| | 4G2515TD | 15 WATT G25 Globe Dimmable | 15 | 60W | 750 | 5.2 | 3.1 | .18A | G25 | Coming Soon |
| 3000°K ordering suffix 30K | 4R3016TD30K | 16 WATT R30 Dimmable 3000K | 16 | 65W | 650 | 5.4 | 3.7 | .19A | R30 | Available Now |
| | 41316TD30K | 16 WATT A-Lamp Dimmable 3000K | 16 | 60W | 850 | 5.5 | 2.4 | .19A | A-21 | Coming Soon |
| | 4R2014TD30K | 14 WATT R20 Dimmable 3000K | 14 | 50W | 410 | 5.1 | 2.5 | .17A | R20 | Coming Soon |
| | 41315TD30K | 15 WATT A-Lamp Dimmable 3000K | 15 | 60W | 750 | 5.1 | 2.3 | .18A | A-19 | Coming Soon |
| | 4G2515TD30K | 15 WATT G25 Globe Dimmable 3000K | 15 | 60W | 750 | 5.2 | 3.1 | .18A | G25 | Coming Soon |
| 3500°K ordering suffix 35K | 4R3016TD35K | 16 WATT R30 Dimmable 3500K | 16 | 65W | 600 | 5.4 | 3.7 | .19A | R30 | Available Now |
| | 41316TD35K | 16 WATT A-Lamp Dimmable 3500K | 16 | 60W | 800 | 5.5 | 2.4 | .19A | A-21 | Coming Soon |
| | 4R2014TD35K | 14 WATT R20 Dimmable 3500K | 14 | 50W | 380 | 5.1 | 2.5 | .17A | R20 | Coming Soon |
| | 41315TD35K | 15 WATT A-Lamp Dimmable 3500K | 15 | 60W | 700 | 5.1 | 2.3 | .18A | A-19 | Coming Soon |
| | 4G2515TD35K | 15 WATT G25 Globe Dimmable 3500K | 15 | 60W | 700 | 5.2 | 3.1 | .18A | G25 | Coming Soon |
| 4100°K ordering suffix 41K | 4R3016TD41K | 16 WATT R30 Dimmable 4100K | 16 | 65W | 600 | 5.4 | 3.7 | .19A | R30 | Available Now |
| | 41316TD41K | 16 WATT A-Lamp Dimmable 4100K | 16 | 60W | 800 | 5.5 | 2.4 | .19A | A-21 | Coming Soon |
| | 4R2014TD41K | 14 WATT R20 Dimmable 4100K | 14 | 50W | 380 | 5.1 | 2.5 | .17A | R20 | Coming Soon |
| | 41315TD41K | 15 WATT A-Lamp Dimmable 4100K | 15 | 60W | 700 | 5.1 | 2.3 | .18A | A-19 | Coming Soon |
| | 4G2515TD41K | 15 WATT G25 Globe Dimmable 4100K | 15 | 60W | 700 | 5.2 | 3.1 | .18A | G25 | Coming Soon |
| 5000°K ordering suffix 50K | 4R3016TD50K | 16 WATT R30 Dimmable 5000K | 16 | 65W | 600 | 5.4 | 3.7 | .19A | R30 | Available Now |
| | 41316TD50K | 16 WATT A-Lamp Dimmable 5000K | 16 | 60W | 775 | 5.5 | 2.4 | .19A | A-21 | Coming Soon |
| | 4R2014TD50K | 14 WATT R20 Dimmable 5000K | 14 | 50W | 380 | 5.1 | 2.5 | .17A | R20 | Coming Soon |
| | 41315TD50K | 15 WATT A-Lamp Dimmable 5000K | 15 | 60W | 675 | 5.1 | 2.3 | .18A | A-19 | Coming Soon |
| | 4G2515TD50K | 15 WATT G25 Globe Dimmable 5000K | 15 | 60W | 675 | 5.2 | 3.1 | .18A | G25 | Coming Soon |
| 6500°K ordering suffix 65K | 4R3016TD65K | 16 WATT R30 Dimmable 6500K | 16 | 65W | 600 | 5.4 | 3.7 | .19A | R30 | Available Now |
| | 41316TD65K | 16 WATT A-Lamp Dimmable 6500K | 16 | 60W | 775 | 5.5 | 2.4 | .19A | A-21 | Coming Soon |
| | 4R2014TD65K | 14 WATT R20 Dimmable 6500K | 14 | 50W | 380 | 5.1 | 2.5 | .17A | R20 | Coming Soon |
| | 41315TD65K | 15 WATT A-Lamp Dimmable 6500K | 15 | 60W | 675 | 5.1 | 2.3 | .18A | A-19 | Coming Soon |
| | 4G2515TD65K | 15 WATT G25 Globe Dimmable 6500K | 15 | 60W | 675 | 5.2 | 3.1 | .18A | G25 | Coming Soon |



| QUESTIONS | ANSWERS |
|--|--|
| 1Q: Do TCP Tru Dim Series products dim exactly like an incandescent lamp? | A: TCP Tru Dim 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 1) They will dim down to 2% of light output vs. zero for incandescents. 2) Electronic components do not respond in the same manner as a heated incandescent filament therefore there will be a slight difference in visual operational characteristics |
| 2Q: Do TCP's Tru Dim Series products work on ordinary incandescent dimmers?" | A: YES! Designed specifically for use with standard non-illuminated 600watt 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. |
| 3Q: Will TCP's Tru Dim Series products work on every incandescent dimmer ever made?" | A: NO! Although TCP's Tru Dim 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. |
| 4Q: How can I tell if a dimmer is not compatible with a TCP Tru Dim 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. |
| 5Q: 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://wwwcommunities.leviton.com.docs/doc-2542 |
| 6Q: Will TCP's Tru Dim Series products flicker at the low level as other CFL Dimmable product does? | A: No! TCP's Dimmable series product contains a low end shut off which turns the lamp off at 2% of the light level. This stops the flickering at the low end and enhances lamp life. |
| 7Q: Why is it important to control the low end dim level for TCP's Tru Dim Series products? | A: There are two reasons: 1) Lamp performance instability in the form of flickering is displeasing to the human eye 2) Continuous flickering will significantly shorten lamp life |
| 8Q: Does the performance of TCP's Tru Dim 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 Tru Dim 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 Tru Dim Series product. |
| 9Q: Can 1000 watt or larger commercial grade dimmers be used with TCP's Tru Dim 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 Tru Dim 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. |
| 10Q: How do you properly use TCP's Tru Dim 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. |
| 11Q: Will it damage the lamps if they are turned on at too low a level and they don't come on? | A: No! TCP Tru Dim 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. With some dimmer models the lamps can be turned off just by using the slider or rotary switch, you may need to raise the slider or rotary switch to a higher level to turn the lamps back on. |
| 12Q: What is the warranty and average life of TCP's Tru Dim Series products? | A: TCP's Tru Dim Series product is warranted for 24 months. Using accepted industry standards, the average life is rated at 12,000 hours. |
| 13Q: Can TCP Tru Dim be used in 3-way lamp sockets? | A: No! TCP's Tru Dim Series product will not perform like a 3way bulb in a 3way socket they will only have 1 light level at full power. |
| 14Q: Will frequent dimming significantly shorten the life of a TCP Tru Dim Series products? | A: NO! Frequent dimming will not significantly reduce the life of the TCP Tru Dim Series product. |



TCP Tru Dim

Answers To Your Most Frequent Questions

| | |
|---|---|
| 15Q: Can the TCP Tru Dim 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. |
| 16Q: How many TCP Tru Dim 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: 600Watt Dimmer ÷ 2 = 300Watts TCP's 14W Dimmable CFL: $300 \div 14 = 21$ 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. <i>The above examples are a rough estimate only.</i> |
| 17Q: Will Tru Dim product all turn off simultaneously when dimmed down to 2% or below? | No if you have a series of Tru Dim 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. |
| 18Q: Why do some of the lamps strobe at the very low end before turning off? | 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. |
| 19Q: Can Tru Dim lamps be used with other dimming CFL's or lamps? | No it is recommended to use 100% Tru Dim lamps on a circuit do not use any other Dimming CFL lamps in combination with Tru Dim. This may affect the performance of the lamps during dimming mode. |