



We value relationships.



CanDu Green Technologies

Cardinal™ LED Tube Lights

These are high quality replacements of standard fluorescent tubes (T8 and T12) and provide electrical savings of > 50%. Installation is easy with the same G13 Bi-Pin connections as fluorescent tubes and a universal voltage external driver to mount where the old fluorescent ballast had been located. Very tightly binned surface mount device LEDs are employed to provide a 100,000+ hour lifetime, a measured efficacy of >145 lms/watt and a CRI=82.

Exceptional thermal management is achieved with an aluminum core LED PCB thermally bonded to the ribbed aluminum heat sink with a 'D' channel extrusion made from 6063-T5 alloy for optimal heat conduction.

The lens over the LEDs is a tough polycarbonate design available as crystal clear or a frosted option. Solid brass, nickel-plated terminal pins are installed in end-caps that are fastened with screws to the aluminum core. If the application needs it, a no-cost, rotatable end-cap option can be specified as well. All of these features and being the first Led tube earn DesignLights Consortium's Qualification helped the Cardinal™ LED Tube win the IES Progress Committee Selection for 2012.

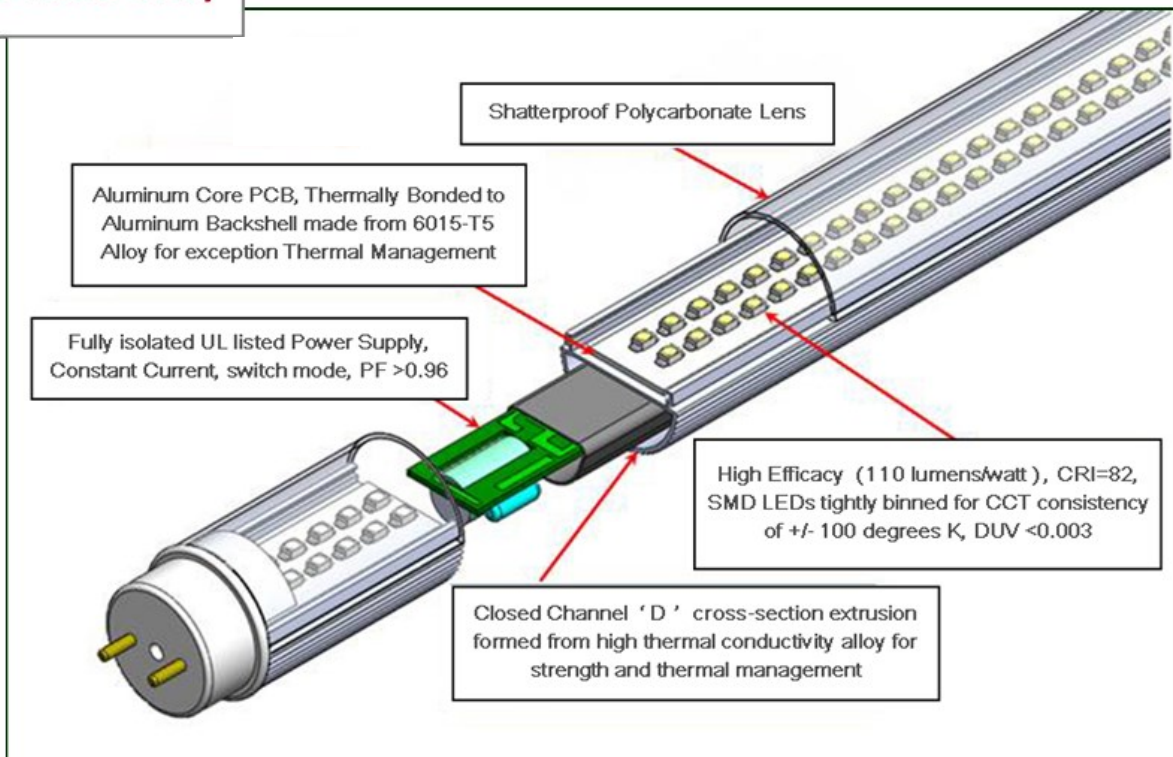


100,000 HOURS

10-YEAR WARRANTY

**OUR SUPERIOR RETROFIT
LED TUBE LIGHTING USES
EXISTING FIXTURES!**

The Inside Story



CARDINAL LED LINEAR LIGHTING SPECIFICATIONS, FEATURES AND CERTIFICATIONS

Length	4-foot External Driver version
Wattage	9, 14, 18 Watt fixed (2-20 dimmable) +/-4%
Total Lumens*	9 watt >> 1300 lumens 14 watt >> 2030 lumens 18 watt >> 2600 lumens 20 watts>> 2900 lumens
Efficacy*	145 Lms/Watt
CRI	CRI 82
Voltage	120 ~ 277VAC 50-60 Hz
Total Harmonic Distortion	3.58% (120 VAC) 7.64% (277 VAC)
DUV	Duv = 0.00127
Power Input to Tube	Double ended, Low voltage, 32-40 VDC, constant current regulation, Polarity not important
Endcaps	G13 Bi-Pin, rotatable option available
Power Factor	0.998 (120 VAC) 0.953 (277 VAC)
LED Elements	288 LEDs, Surface Mount Devices (SMDs)
Color Temperature	3500K, 4100K, 5000K +/- 200°K (3 McAdam Ellipses)
cULus Listed	E347929, E363806, E 357319, E362805, E341042 Dry or Damp Locations
Beam Angle	120° (Clear Lens Installed)
Size	48"
Connections	G13, FA8, R17D, Rotatable Option
Lifetime	100,000 Hours (LM-80, TM21 available)
Certifications	UL, cUL, RU, 1993, 1598, 1598(B), 1598(C) 8750, FCC, CE, RoHS
Design Lights Consortium	Certified, On Qualified Product List
Warranty	10 Years

* Lumen output and efficacy is provided for 5000K CCTs clear lens product



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