

**Initial technical specification of CFL**

(specs are at 100h, unless specified differently)

Product Name		R30 120V 13W
Lamp No.		ES1431013
Lamp Shape		REFLECTOR TYPE
Inner Tube Available		Mini 3U or Mini Spiral
Lamp Parameter	Main Voltage (V)	120V+10V/-15V; 60Hz
	Input current (mA)	200±10
	T.H.D.	<120%
	Input Power (W)	13W±1.3W
	PF.	>0.5
	Light Output (Lm)	>750Lm for 3000K
		>740Lm for 4500K
		>730Lm for 6400K
	Efficacy (Lm/w)	>54Lm/w
	Color temperature	Warm Light 3000K
Cool Light 4500K		
Day Light 6400K		
Burner Parameter	Burner voltage (V)	85±2
	Burner Current (mA)	100±10
	C.F.	<1.7
	Filament Current (mA)	70±10
	Cathode Current (mA)	100±10
	Burner Power (W)	11.0±1.3W
	Output Frequency (Hz)	25KHz -- 50KHz
Maintenance	0 to 100h Light Drop	<5%
	1000h	>90%
	2000h	>80%
	3000h	>75%
ON/OFF testing (on: 25s/off:35s)		10000 Swithes
Average Life Hour (After 40% loss of lumens)		6,000 hrs.
Thermo testing (Environment Temp.: 25°C Humidity: 65% Lamp Cap- Up Burning)	Power Transistor Surface Temp.	<60°C
	Elec. Capacitor Temp.	<45°C
	Coil Temp.	<80°C
	PCB Surface Temp.	<45°C
	Tube foot Temp.(Electro Portion)	<90°C
	Outer Housing (Near Base)	<35°C
Safety requirement		According to UL 1993 & 935, FCC Approved
Mechanical Strength	Torsion test (Nm)	>3
Starting behavior	Starting time (S)	0.4s -- 0.8s
	Starting Voltage (V)	85V
Dimension	Neck diameter (inch)	3-3/4(M 3U), 3-3/4(M SP) in Dia.
	Total Length (inch)	5-1/2(M 3U), 5-1/2(M SP) M.O.L.
Lamp Cap		E26/E27/B22

## Initial technical specification of CFL

(specs are at 100h, unless specified differently)

Product Name		R30 120V 15W
Lamp No.		ES1431015
Lamp Shape		REFLECTOR TYPE
Inner Tube Available		Mini 3U or Mini Spiral
Lamp Parameter	Main Voltage (V)	120V+10V/-15V; 60Hz
	Input current (mA)	215±10
	T.H.D.	<120%
	Input Power (W)	15W±1.5W
	PF.	>0.5
	Light Output (Lm)	>870Lm for 3000K
		>860Lm for 4500K
		>850Lm for 6400K
	Efficacy (Lm/w)	>54Lm/w
Color temperature	Warm Light 3000K	
	Cool Light 4500K	
	Day Light 6400K	
Burner Parameter	Burner voltage (V)	90±2
	Burner Current (mA)	100±10
	C.F.	<1.7
	Filament Current (mA)	70±10
	Cathode Current (mA)	100±10
	Burner Power (W)	13.0±1.3W
	Output Frequency (Hz)	25KHz -- 50KHz
Maintenance	0 to 100h Light Drop	<5%
	1000h	>90%
	2000h	>80%
	3000h	>75%
ON/OFF testing (on: 25s/off:35s)		10000 Swithes
Average Life Hour (After 40% loss of lumens)		6,000 hrs.
Thermo testing (Environment Temp.: 25°C Humidity: 65% Lamp Cap- Up Burning)	Power Transistor Surface Temp.	<53°C
	Elec. Capacitor Temp.	<45°C
	Coil Temp.	<55°C
	PCB Surface Temp.	<45°C
	Tube foot Temp.(Electro Portion)	<100°C
	Outer Housing (Near Base)	<40°C
Safety requirement	According to UL 1993 & 935, FCC Approved	
Mechanical Strength	Torsion test (Nm)	>3
Starting behavior	Starting time (S)	0.4s -- 0.8s
	Starting Voltage (V)	85V
Dimension	Neck diameter (inch)	3-3/4(M 3U), 3-3/4(M SP) in Dia.
	Total Length (inch)	5-1/2(M 3U), 5-1/2(M SP) M.O.L.
Lamp Cap		E26/E27/B22