

SZL Energy Saving Lamp



- Works without external ballast & switch starter
- Higher luminance & less power consumption
- Low operating temperature, lower to **35-40°C**
- Consumes **44% less** energy than T8 lamp with electronic ballast; **28% less** than T5 lamp with electronic ballast
- Achieve **10% higher** luminous efficacy than T8 lamp with electronic ballast; and **19% higher** luminous efficacy than LED lamp
- High luminance efficiency, up to 95% of electrical power are converted to lumen (light)
- Long life-span, up to **30000 hours**
- TÜV Rheinland CE approved
- Color Rendering Index **≥84Ra**, comply with the requirement of EN 12464-1 for Indoor use



Comparison Table

Performance and Parameters of light tubes on the current market

Types	T8 tube with Magnetic Ballast	T8 tube with Electronic Ballast	T5 tube with Electronic Ballast	LED Tube	SZL Energy Saving Lamp (RLT-1200)
1. Basic Technical Comparison					
Input Voltage Range	196-250 V	180-260 V	160-260 V	85-265V	160-260 V
Current	0,34 A	0,25 A	0,13 A	0.17 A	0,09 A
Power Factor	0,55	>0.85	>0.9	>0.92	>0.95
Nominal wattage	43 W	36 W	28 W	20 W	20 W
Startup	Slow and flicker- ing	Fast	Fast	Fast	Fast
Compatibility between Light tube and ballast	Low	Medium	Medium	Medium	High
Noise	High	Low	Low	Low	Low
2. Light Technical Comparison					
Luminous Efficacy	78.00 lm/W	86.00 lm/W	92.86 lm/W	77.18 lm/W	95.10 lm/W
Color Rendering Index	65 Ra	65 Ra	79 Ra	77 Ra	84 Ra
3. Energy Saving Comparison					
Power Consumption per year (24h) ¹	376,68 kWh	315,36 kWh	245,28 kWh	175,20 kWh	175,20 kWh
Energy Consumption compare to T8 tube	100%	84%	65%	42%	42%
4. Annual Cost per Tube					
3500kWh (Germany) ²	104,75€	87,70€	68,21€	48,72€	48,72€
7500kWh (Germany) ²	98,46€	82,44€	64,12€	45,80€	45,80€
1GWh (Germany) ²	50,48€	42,26€	32,87€	23,47€	23,47€
20GWh (Germany) ²	45,01€	37,69€	29,31€	20,94€	20,94€

¹usage 24h/day,365 days/year

²Source: <http://www.energy.eu/>; End-user price,excludes VAT