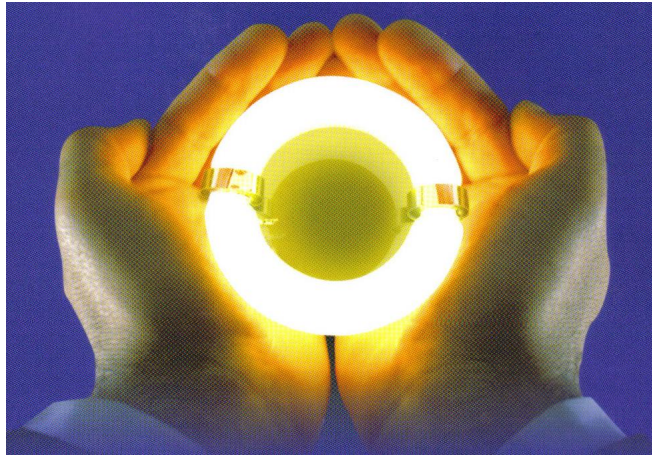
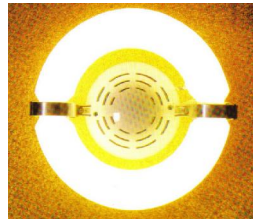


**A new era in lamp technology has arrived ..  
Sharif International proudly introduces LVD**



## **LVD Induction Light**



**Proud Pakistan Distributors:**

**SHARIF INTERNATIONAL GROUP. 151-A, St. No. 8, Chaklala Scheme III, Rawalpindi, Pakistan 46000  
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# What is Induction Lamp Technology?

An induction lighting system is made up of three main parts:

1. A high frequency ballast.
2. An induction coil.
3. A discharge bulb, (lamp).

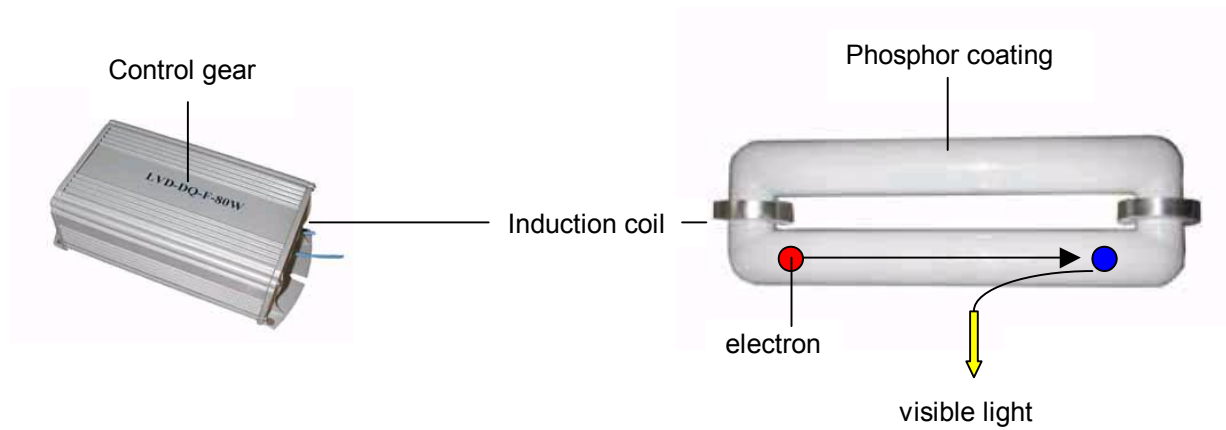
The ballast produces a high frequency electrical current and sends it to the induction coil.

The current passing through the induction coil generates a fluctuating electromagnetic field within the lamp.

The fluctuating field excites and ionizes the atoms in the gas fill.

The ionized atoms emit ultraviolet radiation.

When the ultraviolet radiation strikes the phosphor coating on the inside of the glass bulb, the phosphors produce visible light.



Since the induction lamp does not require filaments or electrodes to ignite, it allows the lamp to operate far longer than conventional incandescent, fluorescent or gas discharge lamps without blackening of the lamp.

The end result is a far more reliable operation with far less lumen depreciation, regardless of how often it is switched. Even at 60,000 hours the induction lamp will still produce around 80% of its initial light output.

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Sharif International Group  
Suite # 1, 1st Floor, Asghar Plaza,  
Imran Khan Ave, Chaklala Scheme III,  
Rawalpindi, Pakistan 46000.

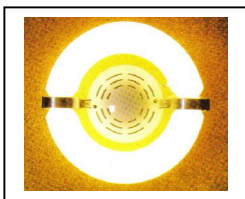
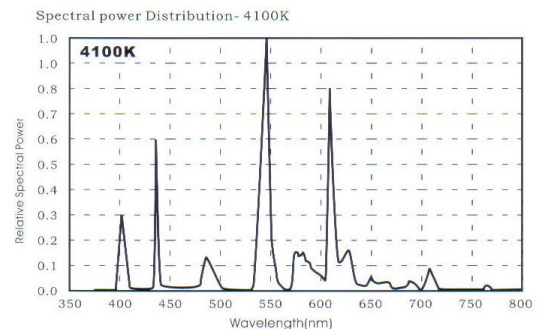
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# LVD Induction lamp technology

5-year  
warranty

What are the benefits?

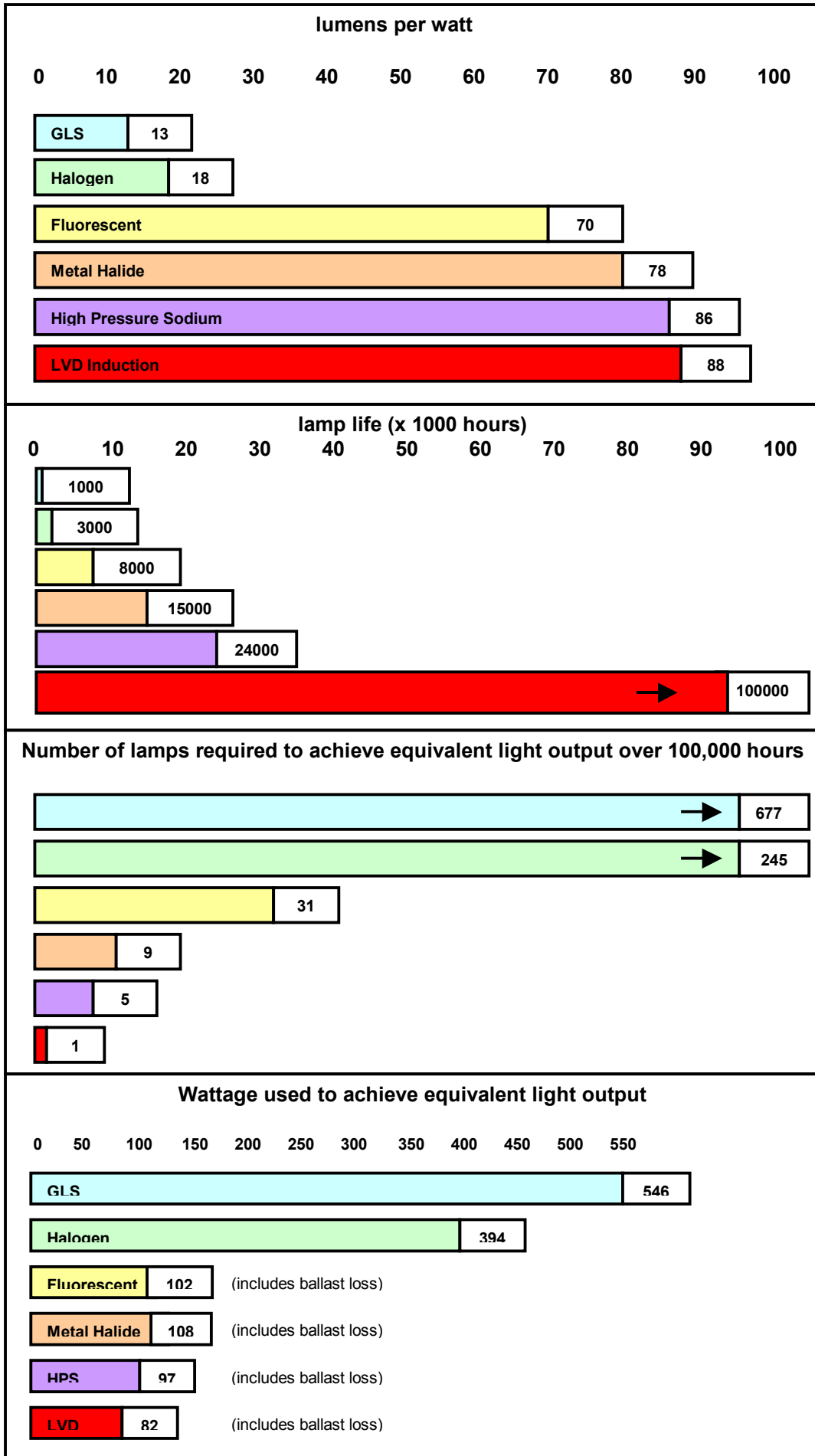
- Lamp life – unlike conventional incandescent or discharge lamps, LVD induction lamps do not require a filament or electrodes to ignite. Life expectancy for these lamps is around 100,000 hours, with superior lumen maintenance to discharge lamps.
- Colour – LVD Induction lamps have a rendering index of RA80+ with a colour temperature of 4100k.
- Warm-up/re-strike time – there is no warm-up or re-strike time. It is instant, even in temperatures as low as –35 degrees C or as high as 50 degrees C.
- Efficacy – LVD Induction lamps generally are rated at 90 lumens per watt, similar to conventional metal halide lamps, without the lumen depreciation.
- Operating voltage – LVD Induction lamps will not drop out the way that a normal discharge lamp will, even at 100 volts or as high as 280 volts. If it does drop out it will immediately re-strike upon restoration of its operating voltage range.
- Flexibility – The LVD Induction lamp is available in several configurations and wattages, ranging from 15w, 23w, 40w, 80w, 120w & 200 watt versions. There are versions where the ballast is integral, or in the case of the higher wattages can be had with a E40 lamp base with remote ballast for simple installation or retrofitting.
- Colour Shift – There is none
- Stroboscopic effect – There is none
- Flicker – There is none
- Power factor correction – 0.98



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# Lamp Comparison

GLS vs Halogen vs Compact Fluorescent vs 70 watt metal halide vs 70 watt HPS vs 80 watt LVD



# LVD Induction lamp applications



Highbay luminaire with 200 watt Saturn 3 Induction lamp



Surface mount lowbay luminaire with 200 watt Jupiter CL Induction lamp



Surface mount circular lowbay with 200 watt Saturn 3 Induction lamp



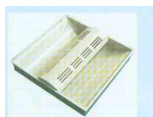
Surface mount bulkhead with 2 x 23 watt Venus Induction lamp



Pole mount bulkhead with 40 watt Venus or Saturn 2 Induction lamp



In-ground uplighter with 40 watt Saturn Induction lamp



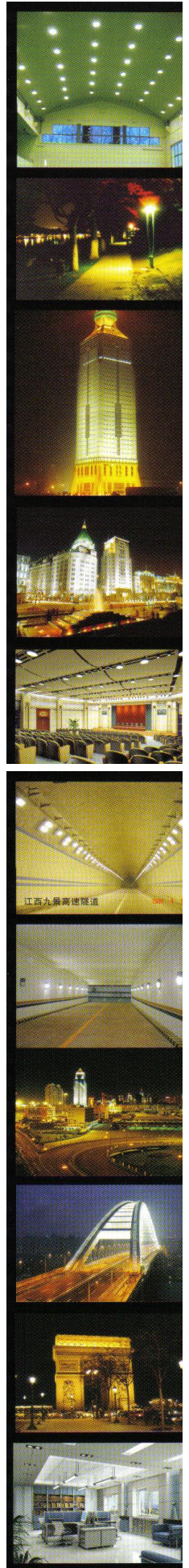
Recessed indirect fluorescent with 80 watt Jupiter CL Induction lamp



Recessed concentric louvre downlight with 40 watt Saturn Induction lamp



Full cut-off street light with 200 watt Jupiter CL Induction lamp



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# Saturn

## Electrodeless induction lamp



### Specifications



#### Features:

**Instant Start**

**Instant Re strike**

**100,000 hours lamp life**

**Handles voltage fluctuations from 100 volts to 277 volts**

**Operates in temperatures down to -35 degrees C**

**No flickering or strobing**

**Low lumen depreciation**

**5-Year Warranty**

**Excellent colour rendition**

**High efficacy**

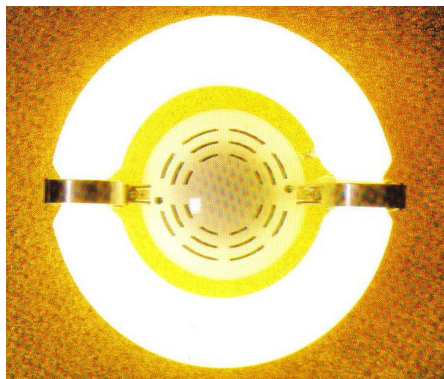
Wattage	40 watt	80 watt	120 watt	200 watt
Colour (4100k)	RA80	RA80	RA80	RA80
Luminous Flux	3100 lumens	7100 lumens	11500 lumens	19200 lumens
Dimensions (lamp)	152 dia x 42mm H	214 dia x 54mm H	274 dia x 54mm H	314 dia x 58mm H
Weight	600g	925g	925g	925g
Control Gear	213x96x58mm	261x103x61mm	261x103x61	272x119x72.5
Permissible Voltage	100-277V/50-60Hz	100-277V/50-60Hz	100-277V/50-60Hz	100-277V/50-60Hz
Mains Frequency	210kHz	210kHz	210kHz	210kHz
Mains Current	0.23 amps	0.42 amps	0.60 amps	1.06 amps
Temperature Range	-35 to +50 degrees C	-35 to +50 degrees C	-35 to +50 degrees C	-35 to +50 degrees C
Lamp Temperature	75 – 105 degrees C	85 – 115 degrees C	90 – 120 degrees C	95 – 125 degrees C
Ballast Surface Temp	32 C	35 C	36 C	42 C
Power Factor	0.98	0.98	0.98	0.98

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# Venus

## Electrodeless induction lamp



### Features:

**Instant Start**

**Instant Re strike**

**100,000 hours lamp life**

**Handles voltage fluctuations from 100 volts to 277 volts**

**Operates in temperatures down to -35 degrees C**

**No flickering or strobing**

**Low lumen depreciation**

**5-Year Warranty**

**Excellent colour rendition (RA80+)**

**High efficacy**

**E40 base for simple installation**

Wattage	80 watt	120 watt	200 watt
Colour (4100k)	RA80	RA80	RA80
Luminous Flux	7100 lumens	11500 lumens	19200 lumens
Dimensions (lamp)	230 dia x 230mm H	290 dia x 210mm H	335 dia x 210mm H
Weight	925g	925g	925g
Control Gear	261x103x61mm	261x103x61	272x119x72.5
Permissible Voltage	100-277V/50-60Hz	100-277V/50-60Hz	100-277V/50-60Hz
Mains Frequency	210kHz	210kHz	210kHz
Mains Current	0.42 amps	0.60 amps	1.06 amps
Temperature Range	-35 to +50 degrees C	-35 to +50 degrees C	-35 to +50 degrees C
Lamp Temperature	85 – 115 degrees C	90 – 120 degrees C	95 – 125 degrees C
Ballast Surface Temp	35 C	36 C	42 C
Power Factor	0.98	0.98	0.98

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# Smart Dragon

Electrodeless induction lamp



## Specifications



### Features:

**Instant Start**

**Instant Re strike**

**100,000 hours lamp life**

**Handles voltage fluctuations from 100 volts to 277 volts**

**Operates in temperatures down to -35 degrees C**

**No flickering or strobing**

**Low lumen depreciation**

**5-Year Warranty**

**Excellent colour rendition**

**High efficacy**

Wattage	40 watt	80 watt	120 watt	200 watt
Colour (4100k)	RA80	RA80	RA80	RA80
Luminous Flux	3100 lumens	7100 lumens	11500 lumens	19200 lumens
Dimensions (lamp)	180x110x80	282x135x98	350x142x98	435x150x110
Weight	600g	925g	925g	925g
Control Gear	213x96x58mm	261x103x61mm	261x103x61	272x119x72.5
Permissible Voltage	100-277V/50-60Hz	100-277V/50-60Hz	100-277V/50-60Hz	100-277V/50-60Hz
Mains Frequency	210kHz	210kHz	210kHz	210kHz
Mains Current	0.23 amps	0.42 amps	0.60 amps	1.06 amps
Temperature Range	-35 to +50 degrees C	-35 to +50 degrees C	-35 to +50 degrees C	-35 to +50 degrees C
Lamp Temperature	75 – 105 degrees C	85 – 115 degrees C	90 – 120 degrees C	95 – 125 degrees C
Ballast Surface Temp	32 C	35 C	36 C	42 C
Power Factor	0.98	0.98	0.98	0.98

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# **Warranty**

**All LVD Induction lamps and ballasts are covered by a 5-year warranty from date of purchase, provided that they are operated within the limits of the specification provided.**

**In the event of a lamp or ballast failure, simply present it to your place of purchase with your proof of purchase and a new lamp and/or ballast will be issued free of charge.**

**This warranty does not cover any failure of the lamp/s or ballast/s, due to breakage or misuse. It is the responsibility of the luminaire manufacturer/supplier to ensure that the lamp and ballast is fitted in a way as to ensure that the lamp and ballast is able to perform within the specified limits provided. This warranty does not cover such cases as when housed in luminaires, which have not been tested thermally or otherwise to ensure that the lamp and ballast can operate as per the specifications provided.**

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