

# GKGIA Induction lamp

1/3 Energy consumption and 10x lifespan – compared to conventional lighting



RED DOT SCANDINAVIA



## Economics

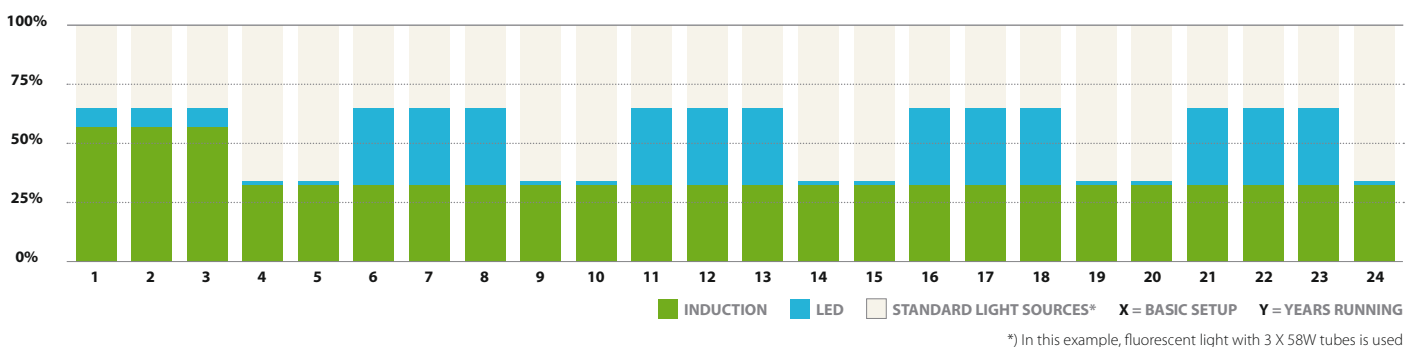
### Investment

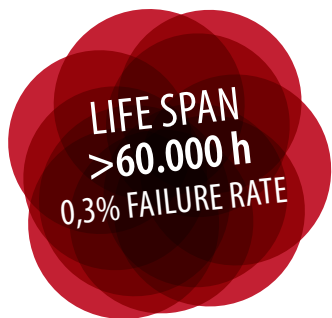
- **RDS Finance Solution** with ownership after 2-3 years, no down payment and over 40 % savings from day one (compared to before lamp replacement)
- Low investment – up to 30 % cheaper than comparable LEDs

### Operation

- On average 75 % cheaper in operation than HPS lamps, fluorescent tubes and mercury bulbs
- Long life – up to 3 times longer than LED (>60.000 h)

The overall economic aspects of the induction lamps from RDS are exceptional. Profit and better work environment can be achieved instantly, which will lead to a solid production platform form where people and companies will benefit.





## Specifications

Housing made of die-cast aluminum alloy with powder coated finish. High corrosion resistance and durability. IP 43 approved. Can be delivered with various dimming controllers for energy optimization.

Lamp type	Lumen effect (LM/W)	Power Factor*	Life span (hours)	Start up	Restart	Colour Rendering Index (CRI/RA)	Perception	Failure rate**
<b>Induction GKGIA</b>	<b>70-98</b>	<b>98 %</b>	<b>&gt;60.000</b>	<b>0 sec.</b>	<b>0 sec.</b>	<b>&gt;80</b>	<b>Soft</b>	<b>0,3 %</b>
Fluorescent tube	90	30 % - 40 %	8.000	0 sec.	0 sec.	70	Soft	10 % - 20 %
HPS	70-120	44 % - 67 %	8.000	8 min.	10 min.	<40	Blinding	15 % - 25 %
Metal Halide	60-80	90 %	12.000	0 sec.	0 sec.	>90	Strong blinding	> 20 %
LED	65-105	92 %	15-30.000	0 sec.	0 sec.	>80	Strong blinding	10 % - 20 %
Mercury bulb	50	65 % - 70%	6.000	8 min.	10 min.	45	Blinding	20 % - 50 %
Standart A-bulb	8-14	100 %	1.000	0 sec.	0 sec.	>95	Blinding	N/A (high)

\*) Power Factor is the value of electrical appliances ability to draw power from the grid in synchrony with the voltage. 100 % is optimal. \*\*) Failure rate is variable due to environment and usage.

## Induction vs. Metal Halide and High Pressure Sodium

Comparison	GKGIA Induction Lamp	Metal Halide	High Pressure Sodium
Warranty	Up to 5 years Lamp, Ballast, Fixture	Lamp: 0 - 1 year Ballast: 3 - 5 years	Lamp: 0 - 1 year Ballast: 3 - 5 years
Bulb hour replacement	>60.000 hours 1 every 6,8 years	12.000 hours 1 every year	24.000 hours 1 every year
Lumen Failure Rate	10 % @ 60.000 hours	> 30 % @ 6.000 hours	> 30 % @ 6.000 hours
Lamp Operating Temperature	60-90 Degree C	315-425 Degree C	315-425 Degree C
Watts Used	40 W - 85 W	100 W - 300 W	100 W - 250 W
Re-strike	Yes - Instant	No	No
Flicker / Glare	None	High	High
Environmental Impact	Low	High - high mercury content	High - high mercury content
Lamp Failure rate	0,3 %	> 20 %	> 20 %

## References



**AquaPri**  
Europe's largest indoor fish farm



**Beijing Airport**  
Terminal #3



**Beijing Olympic Stadium**



**O'Hare International Airport**  
Chicago



**IKEA Shanghai**