GKFIA Induction Floodlight



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



Economics

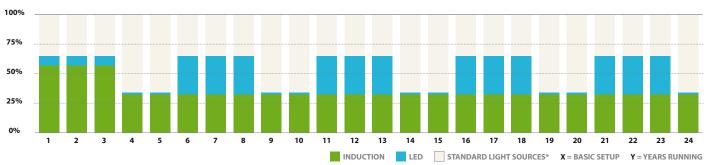
Investment

- 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 5 times longer then LED (>100.000 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.



*) In this example, fluorescent light with 3 X 58W tubes is use







Specifications

Housing made of die-cast aluminum alloy with powder coated finish. High corrosion resistance and durability. IP 65 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**
Induction GKFIA	70-98	98 %	>100.000	0 sec.	0 sec.	>80	Soft	0,3 %
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	GKFIA 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	>100.000 hours 1 every 11 years	12.000 hours 1 every year	24.000 hours 1 every year	
Lumen Failure Rate	10 % @ 70.000 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	100 W - 200 W	400 W - 600 W	400 W - 600 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 Stadion

O'Hare International Airport
Chicago

IKEA Shanghai