

GKSIA Induction Streetlight

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



RED DOT SCANDINAVIA

IN PARTNERSHIP WITH



Grüne Kuh®

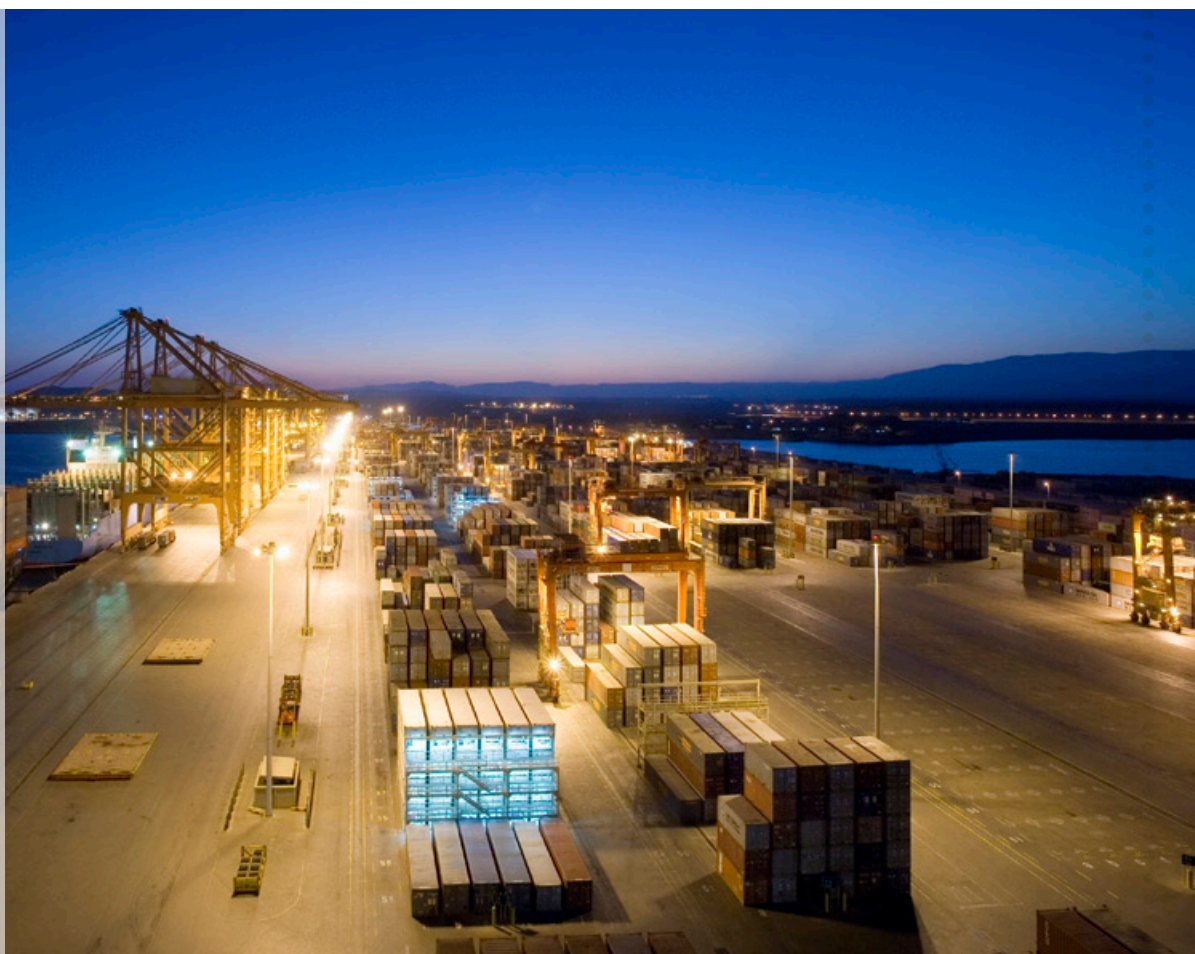


40 W - 250 W
2720 - 6500 Kelvin



TÜV CERTIFIED TECHNIC

Up to
5
YEARS
WARRANTY



Economics

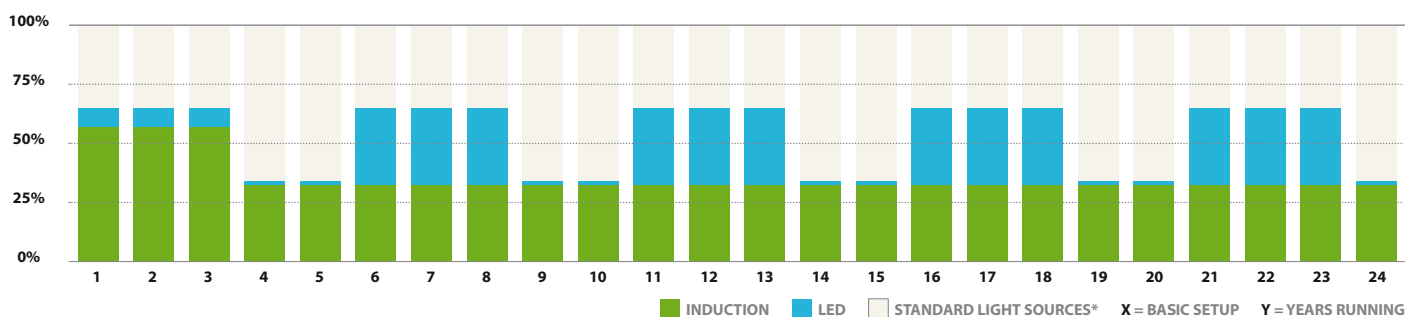
Investment

- **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

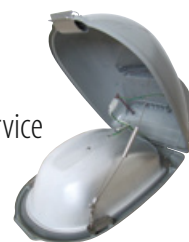
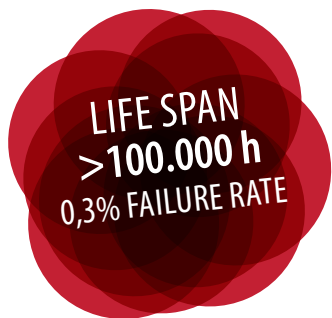
Operation

- On average 75 % cheaper in operation than HPS lamps, fluorescent tubes and mercury bulbs
- Long life – up to 5 times longer than 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 used



30 sec.
on-site service

Specifications

Housing made of die-cast aluminum alloy with powder coated finish. High corrosion resistance and durability. IP 65 approved. Safety Class 1 + 2. 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 GKSIA	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	GKSIA 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 - 250 W	400 W - 800 W	400 W - 800 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