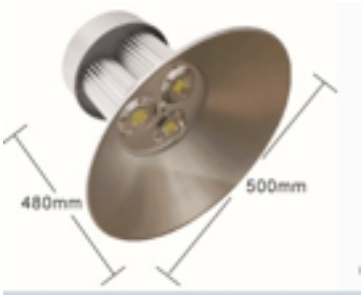
Sunnytek Solar Sweden

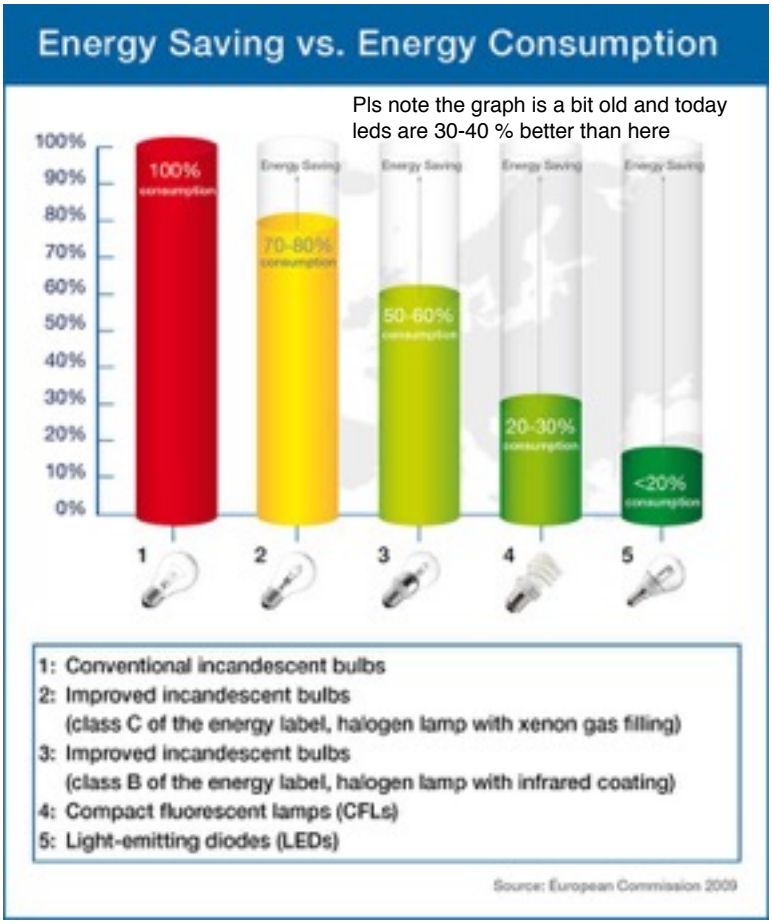
Hi-Flux industrial illumination



Hi-Flux series of industrial LED lamps have a focus on reliability combined with lowest costs for electrical power. All us the newest generation of led emitters where led chip produce best output. Most offer lamps with costs based per W in input power (electricity) Low efficiency = heat = shorter life time. Sunnytek offer lamps per output in Flux value = light intensity the eyes can use to see. See last page of this data sheet for explanation and numbers of how much to save in money,

Hi-Flux lamp characteristics and why they are cheapest and most suitable.

* Efficiency better than 130 Lumen / to save electrical costs and still have good illumination
* Save min 30% of power used by most standard led lamps
* Pay off often 1- 2 years for the complete lamp by electricity only
* Lifetime typical 50000 -60000 hours
* Best light quality with no flickering and rapid start up
* Rugged models for heavy industry. outdoor use and public areas and arenas.
* Power from a few W to 1000W / lamp unit depending on application and use
* Color temperaturen from 2700K warm light to 6000 K bluish light. RA numbers from CRI 70 to CRI 92
* Special models with sockets that fit into old lamp housings.
* No poisonous mercury as low energy fluorescent lamps



How we make more efficient led lamps.

There are some tricks in design that not so many use as the main idea is max power in W and if this is focus lamps are made in an other way. We design lamps to give most output in light balanced with lowest costs of pay off of a 2-3 year profit calculation. If you will use lamps for 2-3 years and more this is by far the best solution in cost.

If you only will use lamps for **1 year** and then do not care about costs **?**

Then this is not the solution for you.

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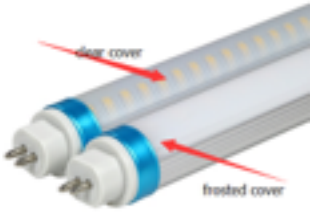
Hi-Flux industrial illumination

Hi-Flux led lamps with sockets. Many lamps use sockets and still the old Edison sockets are alive after over 100 years service. We have sockets like E14. E27 and some others available with the LED filament design design. This is the only led lamp with a correct power distribution 360 degree around and that always works in older lamp housings. These are capable of 120 Lumen / W output so they are 20% better than most LED socket lamps. Power from 1W to 6W / lamp. Warm light models for restaurants.



LED tubes for replacement of old fluorescent led tubes. Here you use old lamp housing and just replace by the Hi-Flus led tube and all works as earlier with far better power in the light and far less power consumption. Here we led all light go down so we typically get at least 2 times more light strength in the area we illuminate. Beside this we save 50-70% of electrical power compared to the old tube.
Lengths are 600, 900. 1200 and 1500 mm for standard housings.

High Bay led lamps for higher ceiling installation in larger rooms. We have all from 30W up to 300W in output power. Most models have a beam correction lens to give a more uniform light intensity at surface. Some models have square beams and rectangular beam output. High Bay designs have vertical coolers to avoid build upon of lots of dust on top lamp that can stop cooling.

Low Bay led lamps with flat disc design for roof installation. Power from 50W to 200W. They are designed to hang on wires or clamped to the roof. Efficiency is 150Lumen /W so they gives plenty of light to a reasonable electrical bill.

Arena Hi-Flux led lamps are for very large area illumination like foot ball stadium to tennis courts. Power from 100W to 500W / lamp unit. All lamps have a logarithmic lens system to get even light distribution over large areas and a special, reflector upon the lens. Perfect when demands are high as when TV cameras are used or in demanding industrial works

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Hi-Flux industrial illumination

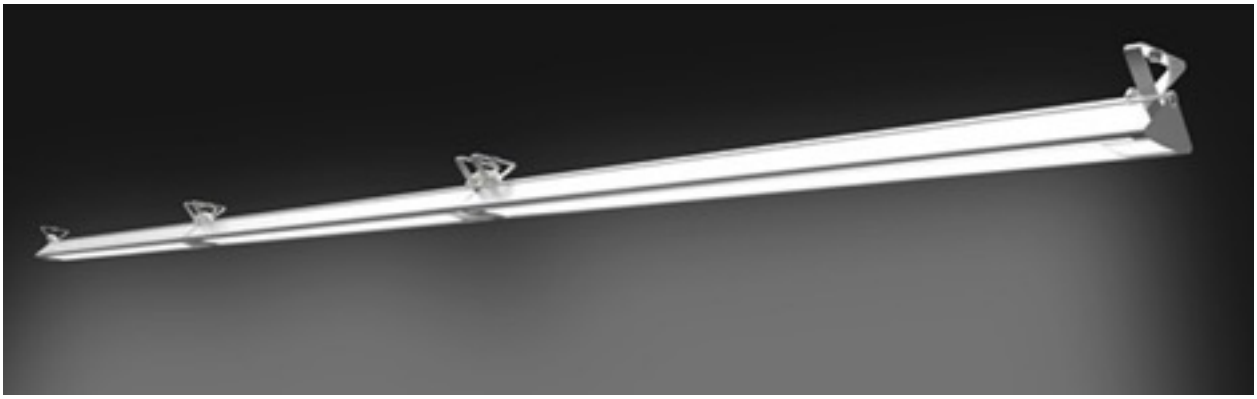
Hi-Flux flat pack led lamps are designed for large angle of illumination. This is needed when areas are large and roof is not so high up. One application is tunnel road illumination. Water proof and rugged. Power from 50W to 300W / lamp unit. Aluminum casing with all weather coating to corrosion.

Hi-Flux Marine outdoor lamp with EX approval for explosive areas and worst marine applications. Totally corrosion proof and very solid. EX approved to be used in areas with explosive gases like petroleum industry or with gases.

Hi-Flux led line lamps with an appearance of a led Tube lamp but lamp is integrated into the housing. IP 65 Sealed as all our Hi-Flux lamps. Power from 50W to 200W / 30000 Lumen. Ideas for lower roof and industrial works and assembly applications. Ideas for inspection of food and tea on conveyors.

Hi-Flux LED tubular lamps with integrated brackets to be direct installed at roofs or walls. Lengths from 600 mm to 1500 mm and fully water proof IP 65 for indoor and outdoor use. This is by far the simple and cheap solution for new installations as no extra housing is needed.

Hi-Flux led long lamps is a design where lamp can be built up to 12 meters in length. Ideas in many in austral applications in working spaces.



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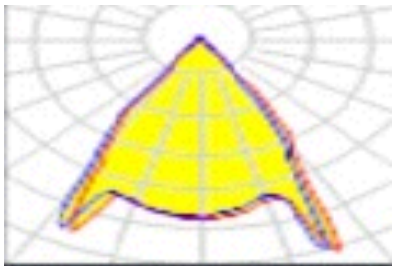
Costs of operation and pay off time.

We compare a Hi-Flux led tube 150 Lumen /W with a standard led tube in a ware house style application.
We say the power is 100W in electrical input
The High FluX led tube will give 15000 Lumen in light Flux with 100W electrical input
The alternative is a Fluorescent tube with same installation. Here we need 4X more power to give same light intensity at working same. Here we then need 400W electrical input to give the 15000 Lumen at working space. Electrical cost is USD 0.25 / KWH and we use lamps 4000 hours per year.

Hi-Flux led lamp needs 400 KWH X 0.25 = equal to **USD 100 in electrical electrical operation costs**
Fluorescent energy lamp needs 1600 KWH X 0.25 **Equal to USD 400 in electrical operation costs**
Difference in only one year is here **USD 300 in favour of Hi-Flus led lamp**.
For 10 years that is shorter than n life time savings are **enormous USD 3000.**
Upon this we have no need to replace or remain in less 50 ooo hours or more com pared to about 10 000 hours between replace.

Bat wing correction lens image



Power for equal light flux.

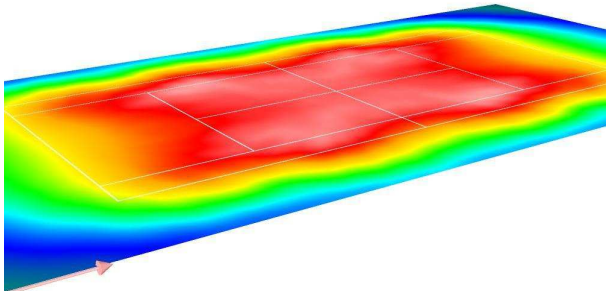
Old style bulb lamp	25W	40W	60W	100W
Fluorescent lamp	7-8W	11W	15W	23-26W
Led lamp normal	3W	4-5W	7-8W	13W
Hi-Flux led lamp	2W	3W	5W	8W

Simple comparison between lamps

Lamp design	**Efficiency typical**	**1KWH energy hours**	**50 000 hours use**
Old style bulb lamp	11 Lumen / W	40W lamp gives 25 Hours	2000 KWH
Fluorescent tube lamp	70 Lumen /W	7W gives 142 hours	350 KWH
Halogen lamp	50 Lumen /W	30 W gives 38 hours	1500 KWH
Led lamp typical	100 Lumen / W	4W gives 250 Hours	200 KWH
Led Hi-Flux Bulb style	120 Lumen 7W	3W gives 300 hours	160 KWH
Led Hi-Flux Other lamps	150 Lumen /W	2.5 W gives 400 hours	120 KWH
Led Hi-Flux Tube designs	160 Lumen /W	2W gives 450 hours	110 KWH

Old style bulb lamp	50 new lamps
Fluorescent tube lamp	5 new lamps
Halogen lamp	25 new lamps
Led lamp typical	1-2 new lamps
Led Hi-Flux Bulb style	1 and no change
Led Hi-Flux Other lamps	1 and no change
Led Hi-Flux Tube designs	1 and no change

Arena lamp and intensity over a tennis court with correction optics to get a uniform illumination.
If no lens we need 2-3 more lamps and much higher installation costs of the system.



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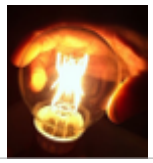
LED Tubes standard housings 6 years warranty.		**Light flux**	**Electrical power**	**Lumen / W**	**Color temp**
Hi-Flux LTG6 600x5000K	600 mm Clear Cower	1200 Lumen	6W	200	5000K
Hi-Flux LTG10 600x5000K	600 mm Clear Cower	2000 Lumen	10W	200	5000K
Hi-Flux LT 600x3000K	600 mm Clear Cower	1500 Lumen	9-11W	150	3000K
Hi-Flux LT 600x5000K	600 mm Clear Cower	1700 Lumen	9-11W	170	5000K
Hi-Flux LT 900x3000K	900 mm Clear Cower	2600 Lumen	13W	200	5000K
Hi-Flux LT 1200x3000K	1200 mm Clear Cower	2850 Lumen	18-20W	150	3000K
Hi-Flux LT 1200x5000K	1200 mm Clear Cower	3400 Lumen	18-20W	170	5000K
Hi-Flux LTG20 1200x5000K	1200 mm clear cower	4000 Lumen	20W	200	5000K
Hi-Flux LT 1500x3000K	1500 mm Clear Cower	3700 Lumen	23-25W	150	3000K
Hi-Flux LT 1500x5000K	1500 mm Clear Cower	4080 lumen	23-25W	170	5000K
Hi-Flux LTH 1500x5000K	1500 mm Clear Cower	4950 Lumen	33W	150	3000K
Hi-Flux LTG 30 1500x5000K	1500 mm clear cover	6000 Lumen	30W	200	5000K
Hi-Flux integrated tube lamp. Complete tube lamp IP 54 encapsulation.					
Hi-Flux IG 600x3000K	600 mm Clear Cower	1500 Lumen	9-11W	150	3000K
Hi-Flux IG 600x5000K	600 mm Clear Cower	1500 Lumen	9-11W	150	5000K
Hi-Flux IG 1200x3000K	1200 mm Clear Cower	2850 Lumen	18-20W	150	3000K
Hi-Flux IG 1200x5000K	1200 mm Clear Cower	2850 Lumen	18-20W	150	5000K
Hi-Flux IG 1500x3000K	1500 mm Clear Cower	3700 Lumen	23-25W	150	3000K
Hi-Flux IG 1500x5000K	1500 mm Clear Cower	3700 Lumen	23-25W	150	5000K

Hi-Flux industrial illumination

Hi-Flux socket led lamp for standard lamp housings with socket mount B22 , E27 etc.					
Hi-Flux E27-3–5000 Filament	E27 socket	350+ Lumen	3W input	120	5000K
Hi-Flux E27-3–3000 Filament	E27 socket	350 Lumen	3W input	115	3000K
Hi-Flux E27-3–2200 Filament	E27 socket	300 Lumen	3W input	100	2200K Yellow
Hi-Flux E27-3–1800 Filament	E27 socket	300 Lumen	3W input	100	1800K Yellow
Hi-Flux E27-5–5000 Filament	E27 socket	550 Lumen	5W input	110	5000K
Hi-Flux E27-5–3000 Filament	E27 socket	550 Lumen	5W input	110	3000K
Hi-Flux E27-6–5000 Filament	E27 socket	650 Lumen	6W input	110	5000K
Hi-Flux E27-6–3000 Filament	E27 socket	650 Lumen	6W input	110	3000K
Hi-Flux E27-6–2200 Filament	E27 socket	600 Lumen	6W input	100	2200K
Hi- Flux socket lamps with standard sockets E14 , E27 etc. Opal glass and aluminum socket					
Hi-Flux E14-3–5000-Opal	E14 socket	360 Lumen	3W input	120	5000K
Hi-Flux E14-5–5000-Opal	E14 socket	600 Lumen	5W input	120	5000K
Hi-Flux E27-3–5000-Opal	E27 socket	360 Lumen	3W input	120	5000K
Hi-Flux E27-5–5000-Opal	E27 socket	600 Lumen	5W input	120	5000K
Hi-Flux E27-7–5000-Opal	E27 socket	840 Lumen	7W input	120	5000K
Hi-Flux E27-9–5000-Opal	E27 socket	1080 Lumen	9 W input	120	5000K
Hi-Flux E27-12–5000-Opal	E27 socket	1440 Lumen	12 W input	120	5000K
Hi-Flux High Bay led lamps. Most are available with different angles of light beam					
Hi-Flux High-Bay 100W-5000	High Bay / 25,60.90 degree	12000 Lumen	100W input	120	5000K
Hi-Flux High-Bay 150W-5000	High Bay	18000 Lumen	150W input	120	5000K
Hi-Flux High-Bay 200W-5000	High Bay	24000 Lumen	200W input	120	5000K
Low bay led lamps. Flat design with an other design of cooler.					
Hi-Flux Low-Bay 90W-5000K	Low bay	11700	90W	130	5000K
Hi-Flux Low-Bay 120W-5000K	Low bay	15600	120W	130	5000K
Hi-Flux Low-Bay 150W-5000K	Low bay	19500	150W	130	5000K
Hi-Flux Low-Bay 200W-5000K	Low bay	26000	200W	130	5000K
Hi-Flux Low-Bay 240W-5000K	Low bay	31200	240W	130	5000K

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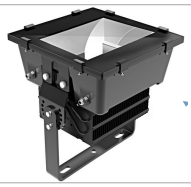
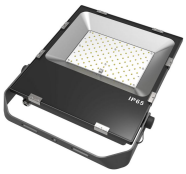
Hi-Flux industrial illumination

Hi-Flux arena led lamp for the very high output applications in large arenas and working spaces. Power up to 1000W / 140000 Lumen. Copper cooler and in some extra heat pipe cooling.			Circle illumination 25/45 degree or 60/90 / 100 degree angles of illumination	Field of illumination 30x60 degree 60x90 degree IP 65	
Hi-Flux Arena 400	400W arena	56000//36000	400W	130	5000K
Hi-Flux Arena 500	500W arena	70000//45500	500W	130	5000K
Hi-Flux Arena 1000	1000W arena	140000//90000	1000W	130	5000K
Hi-Flux pole and tower lamp for the very high output applications in large arenas and working spaces. Power up to 1000W / 140000 Lumen. Copper cooler and in some extra heat pipe cooling.		Copper cooler and heat pipe system. Lumen output			
Hi-Flux Pole 100	To be installed on poles	14000//9500	100W	140	5000K
Hi-Flux Pole 150	or towers to illuminate	21000//13500	150W	140	5000K
Hi-Flux Pole 250	larger areas.	35000//22500	250W	140	5000K
Hi-Flux Pole 300		42000//27000	300W	140	5000K
Hi-Flux Pole 500		70000//45500	500W	140	5000K
Hi-Flux industrial LED lamp for wall and room illumination and facade applications. Rugged in and outdoor design for various use and demands. Bracket included		100 Degree angle. Clear window. Power factor 0.95. CRI 80. Lumen Output			
Hi-Flux Indu-W10	General industrial lamp	1300//1097	10W	130	5000K
Hi-Flux Indu-W20	for different applications.	2600//2245	20W	130	5000K
Hi-Flux Indu-W30	Pole or wall mounting	3900//3359	30W	130	5000K
Hi-Flux Indu-W50	and facade illumination	6500//5614	50W	130	5000K
Hi-Flux Indu-W80		10400//8224	80W	130	5000K
Hi-Flux Indu-W100		13000//10786	100W	130	5000K
Hi-Flux Indu-W150		19500//16995	150W	130	5000K
Hi-Flux Indu-W200		26000//21370	200W	130	5000K
Street lamps for roads and industrial areas. Reasonable priced model with 120 Lumen / W output. Street lamp for 60 mm diameter pole and 100-270 Volt AC operation					
Hi-Flux Street 28		3360 Lumen			5000K
Hi-Flux Street 42		5040 Lumen			5000K
Hi-Flux Street 70		8400 Lumen			5000K
Hi-Flux Street 98		1170 Lumen			5000K

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