



PHILIPS

Club Blue

Education

How To Choose The Right Floodlight

A handy guide



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How To Choose The Right Floodlight

In couple of months we will move into the winter season, and it is important for your customers to have the suitable flood lighting installed in their outdoor spaces. Quality floodlight provides additional safety, security and optimum efficiency to a wide range of area lighting applications. Industrial areas, sports facilities, billboards, recreational facilities, ports, parking lots and driving ranges to name a few!

“As a contractor it can be daunting to choose ‘Right First Time’ outdoor floodlights considering heaps of choices out there.”

As a contractor it can be daunting to choose ‘Right First Time’ outdoor floodlights considering heaps of choices out there. However, as a real professional, you would like to see quality, efficiency and low maintenance professional fittings to keep your clients happy. We would like to share our experience when choosing the Right First Time floodlights. Following these simple 6 steps should help in your buying journey.

“Safety standards, height, angle, glare and energy efficiency of your fittings could make a big difference in final output for the spot you want to illuminate.”

LOCATION. LOCATION. LOCATION.

Like any other type of lighting it is key to determine what kind of facility and area you will be installing floodlights to cover with light. Safety standards, height, angle, glare and energy efficiency of your fittings could make a big difference in final output for the spot you want to illuminate.

Make sure to also consider obstacles such as moving trucks, doors, drainage; distance from neighbouring property; and energy consumption in the early stage of your project.

COLOUR TEMPERATURE

Colour temperature is a key specification when you’re looking for

a specific application. For security, go for cool white (4000 K) or daylight colour temperature (6000 K), because it appears brighter to human eyes and more pre-emptive.

If you’re working and playing under cooler light, it looks more natural and helps you to be more alert and concentrate on the job at hand. If you want to enhance architecture, warm colour temperature (3000 K) will create a welcoming and cosy feel. You might have observed that effect in many façade and hospitality applications. See the surface and test colour temperatures to enhance the area or architecture.

BRIGHTNESS

Lumens vs Watts War: Lumens equals brightness and watts does not. Not that watts are bad, as they help us with energy use. Floodlights output anything between 2,000-202,000 lumens. Choose lumens depending on the size of the area you want to illuminate. Small residential areas like backyard might use 2000 lumens, whereas large

commercial areas like car parks might need 20,000+ lumens. Again, height and angles of installation also helps in choosing the right lumens for your floodlight.

WASTED ENERGY AND LIGHT

“The good optical control of LEDs means that they deliver the light where it is needed and reduce spill and pollution at the same time to keep the neighbours happy!”

POLLUTION

When designing any kind of lighting outdoors, you should always minimise upward light. This is purely wasted energy and contributes to sky glow or light pollution. The good optical control of LEDs means that they deliver the light where it is needed and reduce pollution at the same time.

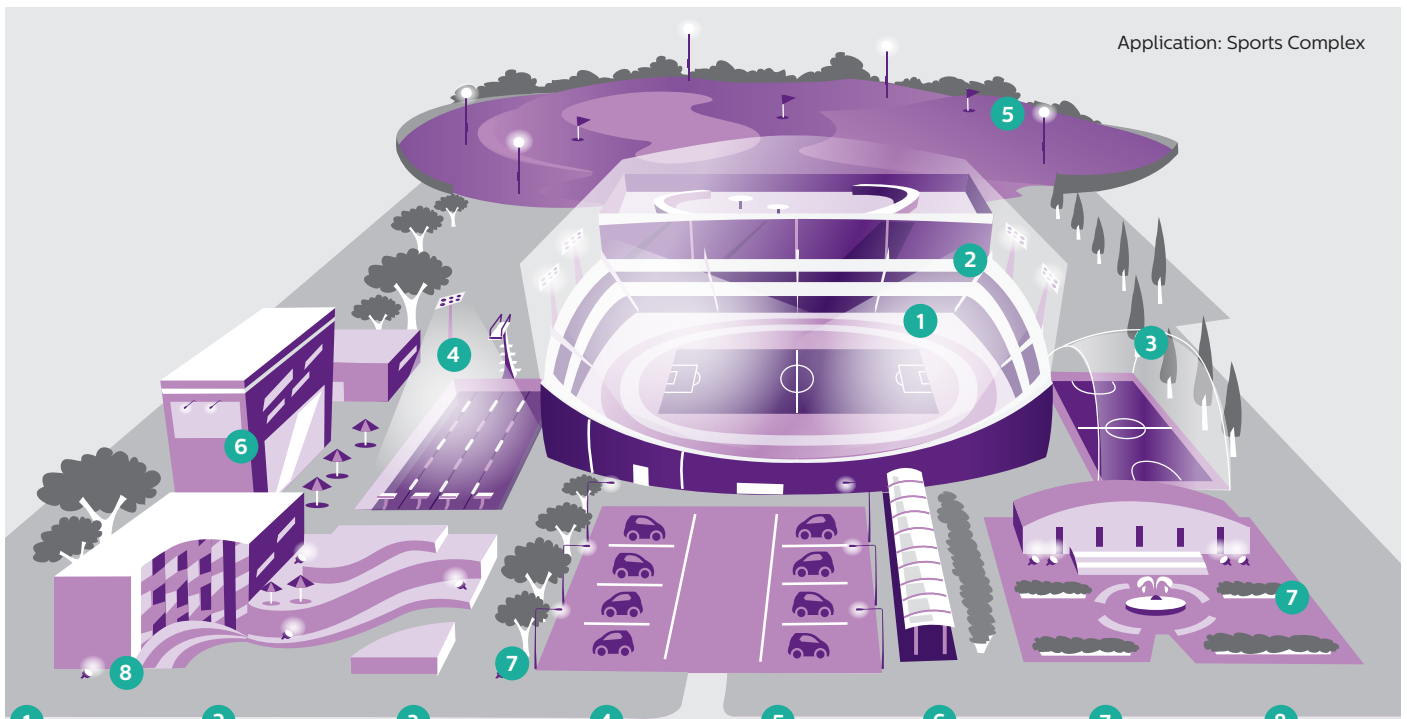
UPGRADE TO LED FLOODLIGHTS, LED'S TALK!

Three major advantages of using LEDs outside are their long life, reduced maintenance and better beam control. This leads to energy and cost savings for your customers.

Contrary to most conventional lamps, in well designed fixtures, LEDs do not fail abruptly (or catastrophically). Instead, their light output deteriorates over time. Luminaire life, on the other hand, has to do with the reliability of the components of an LED luminaire as a system, including the electronics, materials, housing, wiring, connectors, seals and so on.

KEY FEATURES AND BENEFITS YOU SHOULD LOOK FOR:

- **High Performing Optics** that deliver maximum application coverage without being obtrusive.
- **Efficient LED Thermal Design Fins** on the back of the luminaires can ensure good heat dissipation; these create airflow around the housing to prevent dirt from settling on the luminaire.
- **More energy savings** for example, system efficacy over 120lm/w generates more than 50% in energy savings compared to conventional floodlights.
- **Easy to install** for example, factory fitted cables and tool-less opening reduces installation and maintenance time.
- **Flexibility in optical beam choices** (symmetric wide and, asymmetric medium and wide) will suit most lighting application needs.
- **Excellent reliability** meaning 15KV/KA surge protection and non-corrosive die-cast aluminium housing and bracket means you can install in harsh environments.
- **Long-lasting** for example, Lifetime 50,000 hours at L70 means that after 50,000 hours, the LEDs are emitting 70% of their original output.



Application: Sports Complex

1	2	3	4	5	6	7	8
Pitch and playing field	Stands and spectators area	Sports and recreational hall	Swimming pools	Golf course	Billboard	Architectural & media façade	Area & Security
ClearFlood LED	Tango Gen 3 LED	ClearFlood LED	ClearFlood LED		Tango Gen 3 LED	Tango Gen 3 LED	Tango Gen 3 LED

See key product specifications on the next page

Satisfied customers means repeat business



The most comprehensive range bar none. Doing it right first time means no call backs.



OptiVision LED G2

A new era in smart area and recreational sports lighting

- Power: 981 – 1471 W
- Lifetime: 100,000 @L80B10
- Wide range Optics and Controls options
- Lumens: 104,000 – 202,000 lm
- CCT: 5700/4000K
- IP66

APPLICATIONS: Large recreational sports facilities and pitch lighting, Logistics and Industrial areas, Outdoor Parking

ClearFlood LED for 1:1 HID floodlight replacement

- Power: 252–549W
- Lifetime: 75–100,000 hours @ L80B10*
- 45% Energy Savings*
- Lumens: 35,000 – 75,000 lm
- CCT: 3000/4000/ 5700K
- IP66 and IK08
- Wide range Optics and Controls options

APPLICATIONS: Airports, Ports, Large recreational sports facilities, Industrial areas, Tennis courts, Residential, Aquatic Centres

The energy-saving Tango G3 LED is the ideal solution for a wide range of applications

- Power: 70/100/200/320/400W
- Lifetime: 50,000 @L70
- Easy to install
- Lumens: 8400 – 45,000 lm
- CCT: 4000K
- IP66 and IK08

APPLICATIONS: Airports, Ports, Industrial areas, Facades, Billboards, Parking, Security

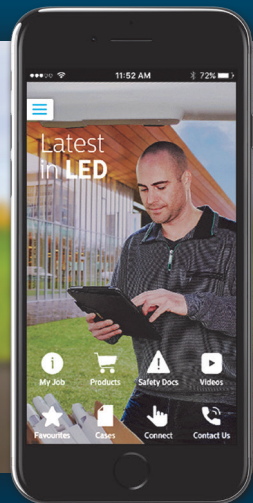
Reliable savings and lasting brightness with the essential LED FLOOD

- Power: 30/50/70W
- Lifetime: 30,000 hours @ L70*
- Up to 90% energy savings*
- Lumens: 2600/4300/6000 lm
- CCT: 3000/4000/5700K
- IP65 / IK07

APPLICATIONS: Recreation, Residential, Signage, Facades, Security, Car Parks, Gardens, Footpaths

CCT: Correlated Colour Temperature

*Compared to conventional lighting technology
Product specification depends on different models.



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