

# EVOLUTION II

The Evolution II utilises the unique design features of the Evolution and enhances them with the use of an asymmetric enclosure design. This provides the added advantages of:

- Higher utilisation of light
- Reduced light pollution
- Low glare
- Excellent uniformity of light




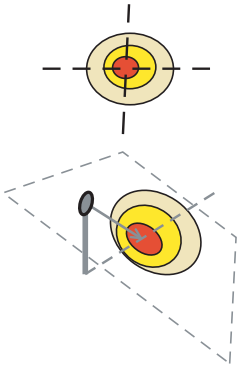
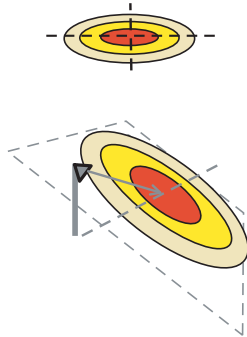
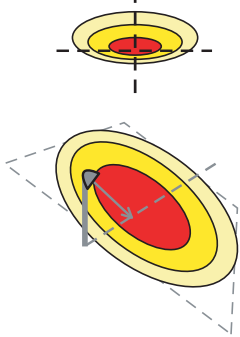
In line with the Evolution, the Evolution II also features:

- IP66/67
- Light weight
- Quick & Easy access for maintenance
- No exposed flame path thus reducing maintenance requirements



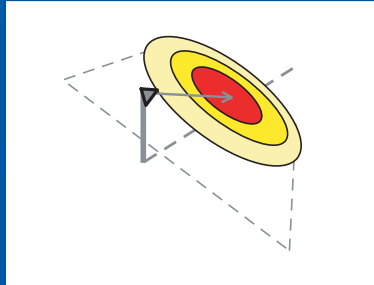
The Evolution II is also available with an optional PTFE coating for increased protection in harsh and corrosive environments.

## Understanding Asymmetrical and Symmetrical Light Distribution

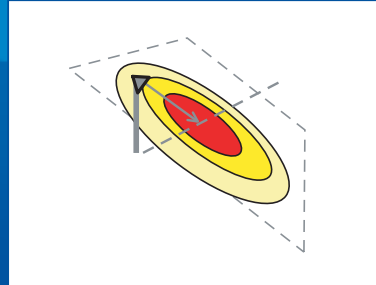
Circular (Projectors)	Rectangular	Rectangular Asymmetric
		
<b>Typical Floodlight Distribution Patterns</b>		
		
<p>Light distribution is "focused" but lighting level is intense</p>	<p>Light distribution is "broad or spread-out" but lighting level is less intense</p>	<p>Light distribution is much more spread-out                      - More Light below the pole                      - Uniformity of the light is excellent</p>

## Asymmetric design

### Limitations of Symmetrical rectangular Floodlights



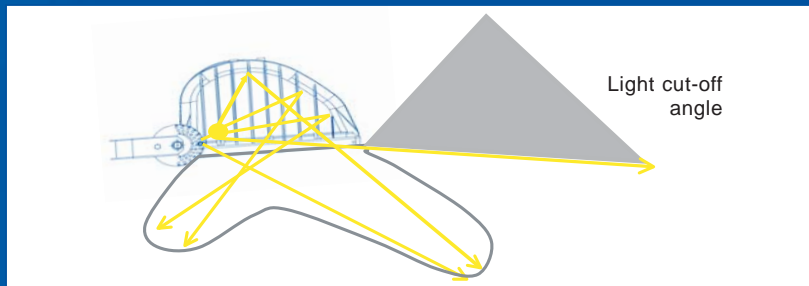
If floodlight aimed far - light distribution below the pole suffers and uniformity is lower



If floodlight aimed near - light distribution at a distance suffers and light is more intense

Symmetrical floodlights also have a high cut off angle, this creates undesired light pollution, glare and reduces the light utilisation factor.

### Benefits of Asymmetric design

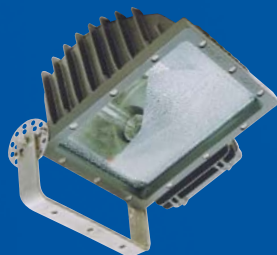


The asymmetric reflector design enables the light beam to be thrown forward for long distance lighting and concurrently assuring that the lighting below the pole or mounting location is also effectively lit without having to tilt the floodlight at high aiming angles.

The typical tilting angle of the floodlight can therefore be kept at 0° or to a maximum tilt angle of 20°. This allows a higher Utilization Factor for the floodlighting scheme to be achieved with reduced glare and light pollution, when compared to a conventional symmetrical floodlight.

As less of the light output is being lost, photometric efficiency or the amount of light emitted is greater.

This efficient and effective light distribution makes the Evolution II ideally suited to a range of applications including:



- Tank Farms
- Aircraft Hangers
- Offshore Oil & Gas Platforms
- Security and Perimeter Lighting
- Sewage Treatment Plants
- Drum Storage Areas
- Gas Pumping Stations
- Distilleries