

LED lighting an easy way to save energy

Gordon Routledge B.Eng C.Eng MIET

Dialight



**KILOWATTHOURS**

**20 % of electricity used by lighting**

# When will you convert to LED ?

Past



60 Watts  
£ 0.5 Cost  
2,000 hours  
£ 52.56 Elec

Present



12 Watts  
£ 2 Cost  
8,000 hours  
£ 10.51 Elec

Future



12 Watts  
£ 50 Cost  
40,000 hours  
£ 10.51 Elec

# Benefits way beyond energy

Long life - 5 -10 year operation.

Right light, right place

Improved colour

Difficult to break

Controllable

Extreme environments

No mercury

Cool operation

# Adoption - Niche by Niche

**Industrial**



**Street**



**Retail**



**Office**



**Now**

**Soon**

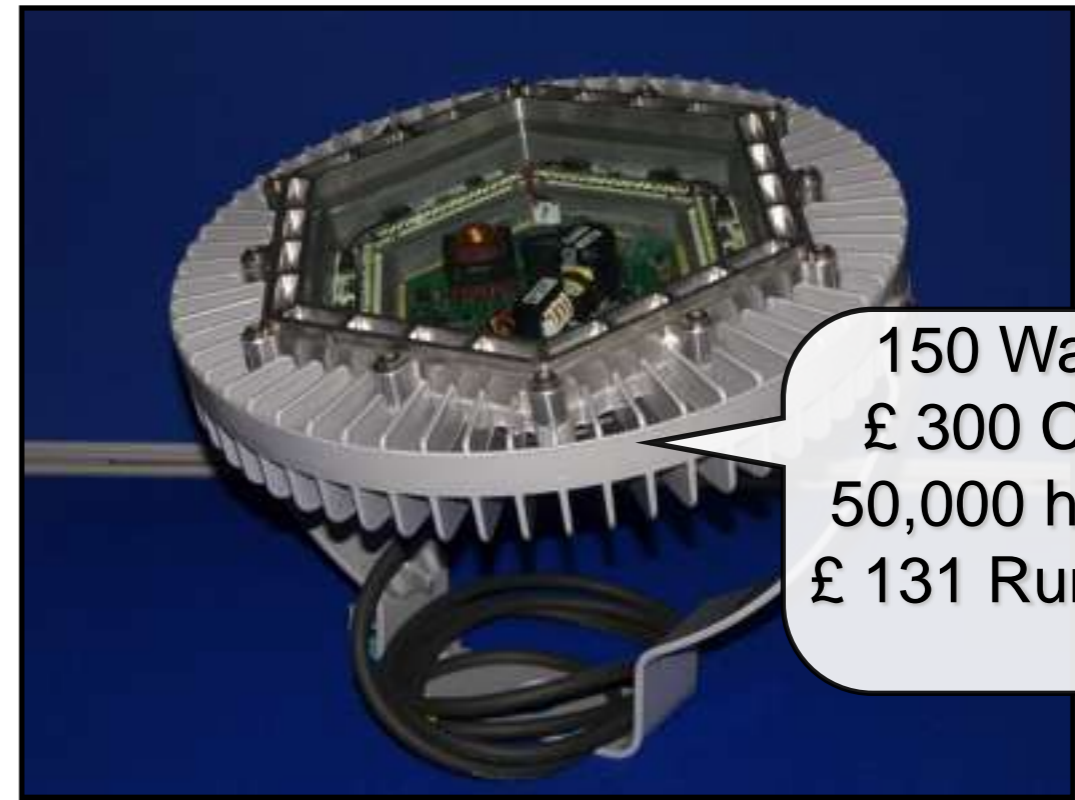
**Later**

**Eventually**

# Industrial Applications



425 Watts  
£ 80 Cost  
10,000 hours  
£ 372 Running



150 Watts  
£ 300 Cost  
50,000 hours  
£ 131 Running

- Good financial sense
- Increasing weight of regulations
- Full scale of salient benefits




2 year return on investment

Dialight



1 year return on investment

Dialight



Excellent value for PFI type  
contracts in street lighting

Dialight

# Technology is not a barrier...

- End user education - about lighting
- Noisy market - confusion
- Reasons to not be efficient
  - Who owns the building
  - Who runs the building
  - Finance
- Traditional manufacturers - cannibalisation

# Thank you

For more information visit

[www.dialight.com](http://www.dialight.com)