

Taking sustainability to the next level





Name | date

EcoDesign DIM2 regulation



- New European directive coming into force in September 2013
- Sets the minimum performance requirements for our LED lamps giving us the opportunity to further innovate our LED lamps
- Ensure that product information details are more transparent and harmonized across suppliers
- Set packaging requirements

Why DIM2?

DIM2 legislation has been created to increase customer satisfaction with energy-saving lamps – in particular LED lamps – and to allow end-users to make informed choices when purchasing them.



EcoDesign requirements for directional and LED lamps

* * * * EcoDesign * (DIM2) * * *

Which lamp types are affected?

	LFL	CFLi	CFLni	Halogen non-directional	Halogen directional	LED	HID	SPG	Fixtures with lamps
DIMI (HLD) stage 5		•		•					
DIM2					•	•			
Energy Label	•	•	•	•	•	•	•	•	•

Performance requirements



- Directional lamps, such as spots and reflectors, need to meet a certain lumen level to be able to claim a certain wattage replacement
- 90% of the lamps must survive and still have at least 80% of their initial lumen output after 6000 burning hours
- 95% of the lamps must survive for at least 1000 hours

 Color should always be represented in a vivid and natural way. color rendering Ra>80



 Color variation should be hardly visible to the human eye. within 6 step MacAdam

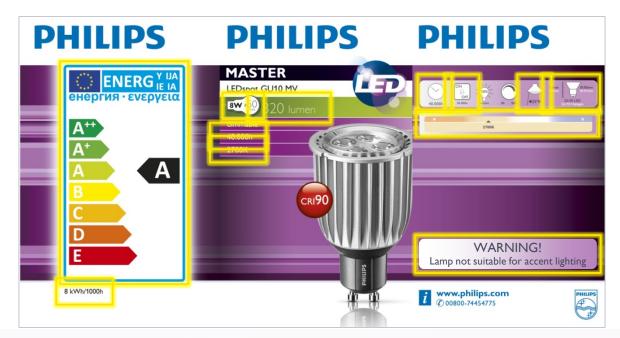


Packaging requirements



- Energy Efficiency Labeling (EEL)
- Luminous flux
- Color temperature
- Lifetime in hours
- Number of switching cycles

- Lamp dimensions in millimeters
- Beam angle in degrees
- Energy consumption in kWh
- Directional lamp beam angle ≥ 90°
 Warning! Lamp is not suitable for accent lighting



Gradual change in packaging color





Shelf February

Shelf May



DIM2 packaging can be recognized by the purple color

Shelf September



Product information



EcoDesign (DIM2) also stipulates that certain product information must be displayed on the directional lamp itself such as:

- I. Luminous flux in lumen
- 2. Color temperature in Kelvin
- 3. Nominal beam angle in degrees



Minimum requirements for equivalence claims



For instance:

Today 143Im GU10 40D = 35W Halogen

DIM2 requirements

1431m GU10 40D = 25W Halogen 2301m GU10 40D = 35W Halogen



Why Philips for LED lamps?





• Quality

- Improved spot and reflector range which meet the new wattage propositions and requirements
- Portfolio is further upgraded and broadened
- A lamp for every socket within this regulation
- Product ranges for all types of applications
- Look & feel are maintained which minimizes the impact on our customers
- Helping our customers finding the right lamp with our extensive portfolio