



Information Guide
to
Philips LED Range

March 2011

QUICK GUIDE TO PHILIPS LED LAMP RANGE



MasterLED Glow Lamp

- 8w equivalent to 40w incandescent
- **Dimmable** down to 10%
- 25,000 hr average lamp life
- Warm White
- BC & ES
- Colour 2700k

MasterLED Glow Lamp

- 12w equivalent to 60w incandescent
- **Dimmable** down to 10%
- 25,000 hr average lamp life
- Warm White
- BC & ES
- Colour 2700k



MasterLED GU10

- 7w equivalent to 50w Halogen
- **Dimmable** down to 10%
- 40,000 hr average lamp life
- Colour 4200K; 3000k & 2700k
- GU10
- 25° or 40° beam

LED GU10 Perfect Fit

- 3w equivalent to 35w Halogen
- 2700k ~ warm white
- Perfect Fit
- 35,000 hr average lamp life
- GU10
- 25° beam



LED GU10 Perfect Fit

- 4w equivalent to 35w Halogen
- 2700k ~ warm white
- Perfect Fit - Dimmable
- 35,000 hr average lamp life
- GU10
- 25° or 40° beam

MasterLED MR16

- 7w equivalent to 35w Halogen
- Patented Intelligent Driver
- 24°; 36° & 60°
- 40,000 hr average lamp life
- **Dimmable** to 10%
- Colour 2700k & 3000K



FOR FURTHER DETAILED INFORMATION PLEASE CONTACT

MICO SALES OFFICE

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MasterLED MR16

- 10w equivalent to 50w incandescent
- Patented Intelligent Driver
- 24° beam
- 25,000 hr average lamp life
- **Dimmable** to 10%
- Colour 2700k & 3000K

MasterLED MR16

- 4w equivalent to 20w Halogen
- Patented Intelligent Driver
- 36° beam
- 45,000 hr average lamp life
- Not **Dimmable**
- Colour 2700k & 3000K



Master LED Spot MR11

- 4w equivalent to 20w Halogen
- Patented Intelligent Driver
- 24° beam
- 25,000 hr average lamp life
- GU4 base
- Colour 2700k & 4200K

Master LED LV Capsule G4

- 2.5w equivalent to 10w halogen
- **Not dimmable**
- 25,000 hr average lamp life
- Patented intelligent Driver
- 360° beam
- Colour 2700k



Master LED LV AR111

- 10w equivalent to 50w halogen
- **Not Dimmable**
- 45,000 hr average lamp life
- Patented intelligent Driver
- 24° and 40°
- Colour 2700k & 3000k

Master LED PAR 20 Spot

- 7w equivalent to 50w incandescent
- **Dimmable** down to 10%
- 45,000 hr average lamp life
- ES base
- 25° or 40° beam
- 2700k & 4200K available



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Master LED Spot PAR 30S

- 12w equivalent to 75w Halogen
- 45,000 hr average lamp life
- ES (E27) base
- Colour 2700k
- 22° beam
- **Dimmable** down to 10%

Master LEDSpot PAR 38 Indoor

- 18w equivalent to 100w Halogen
- 45,000 hr average lamp life
- ES (E27) base
- Colour 2700k
- 22° beam
- **Dimmable** down to 10%



Master LED Spot PAR 38 Outdoor

- 16w equivalent to 80w
- 20,000 hr average lamp life
- ES (E27) base
- Colour 2700k
- 25° beam
- IP44 rated

Novallure LED Candle

- 2w equivalent to 10w halogen
- Clear finish
- **Dimmable** down to 10%
- SBC & SES Base
- 20,000 hr average lamp life
- Colour 2700k



Novallure LED Candle

- 3w equivalent to 15w incandescent (86lm)
- Clear or Frosted Finish
- **Dimmable** down to 10%
- SES Base
- 20,000 hr average lamp life
- Colour 2700k & 3000K

Novallure LEDLuster

- 3w equivalent to 15w incandescent (86lm)
- Warm White
- **Dimmable** down to 10%
- BC & ES
- 20,000 hr average lamp life
- Colour 2700k & 3000K



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GLS Wattage	Required Lumen Value LED Retrofit Lamps
10w	~80 lm
15w	136 lm
25w	249 lm
40w	470 lm
60w	806 lm
75w	1055 lm
100w	1521 lm
150w	2425 lm

3 Year Warranty

Philips Lighting in conjunction with Mico Lighting will offer a 3 year warranty for all Professional Master LED lamps with a lifetime of 25,000 hours or greater.

Based on average 4,000hr burning hours per year

Dimming LED Lamps

Philips LED's are compatible with most common leading edge dimmers, but are not compatible with all, therefore the following recommendations are given

- Leading Edge dimmers must be used
- Maximum total LED load is recommended as 1/10th of the dimmers maximum rated power

Example: For a dimmer with a maximum rated power of 500w, the recommended maximum for LED lamp load would be 50w which would be 7 x 7w Master LED dimmable lamps.

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Energy Saving Cost of Ownership

As part of your business plan it may be necessary to provide information on the saving's available by converting to LED lamps - a quick demonstration of the savings available follows;

To calculate your electricity savings per year there is a quick and easy calculation guide;

For example;

40w lamp being changed to a 7w LED, burning 24 hours a day.

Saved wattage of lamp $40 - 7 = 33w$

Numbers of hours lamp used $24 \times 365 = 8760$

Electricity cost 9p per KW unit



$$33 \times 8760 \div 1000 \times 0.09 = 26.02$$

Energy savings per year by converting £26.02 per lamp

Saved Wattage	x	Number of hours is used per year	÷	1000	x	Electricity cost per KW Unit	=	Energy Saving per year
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Mico Lighting can offer assistance on calculating your energy savings please speak to your Account Manager.

Additional Benefits of LED Lighting;

- Carbon Reduction Commitment can equate to an additional £12 per ton saving
- Long life - reduced maintenance costs
- Air conditioning costs reduced due to heat reduction when converting from halogen lighting
- No UV or IR radiation

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The Importance of Colour with LED Lighting



With Led lamp conversion the importance of colour temperature becomes highly important to ensure the correct ambiance is maintained or created – as highlighted by the colour drum demonstration the colour temperature can help to create your atmosphere.

◆ 4200k - Cool white

A colour temperature which is ideal for applications where you wish your lighting to promote activity and energy.

◆ 3000k - White

A warmer colour temperature but not too relaxing very close to the standard white colour temperature we have previously been used to - a good colour for areas that need to feel inviting which may require a more standard lighting effect.

◆ 2700k - Warm White

This is a very warm colour temperature, which gives a light similar to sunset, ideal for use in areas where you want to create a relaxed and convivial atmosphere.

Colour Rendering

This affects the way we see colour, it depends on the colour spectrum of the lamp. This is measured by the Colour Rendering Index (CRI) on a scale of 0 - 100. Natural daylight (or standard incandescent lamps) being a score of 100.

Ideally for a lamp to be suitable in most applications you would require a colour rendering of >80.

All Philips LED's have a CRI of 80+

High colour rendering - all the colours are clear



Extreme example of poor colour rendering - no colours are clear except orange



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QUICK GUIDE TO PHILIPS LED LUMINAIRES



Zadora Fitting

- Available in White & Brushed Aluminium
- Complete with Master LED 7w GU10
- Fixed, Adjustable or fire rated option
- **Dimmable** down to 10%
- 40,000 hr average lamp life
- Colour 27,000k/3000k/4200k - 25 or 40 degree



Turnaround

- Fixed or Adjustable option
- 600Lm for 3000k
- White or brushed Aluminium option
- 700 Lm for 4000k
- 18w for 12v 50w Equivalent light output
- Not Dimmable



Stylid

- Low Power Consumption 15.3w
- 3000k & 4000k option
- Recessed/semi recessed/track - fixed or adjustable
- Interchangeable parts
- Dimmable ELV or Dali
- 630 Lm - 3000k or 690 Lm 4000k



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QUICK GUIDE TO PHILIPS LED LUMINAIRES



Latina Fitting

- Replacement for Twin CFL Fitting
- 20-22w Option
- 25,000 hr average lamp life
- Complete with Master LED 7w GU10
- **Dimmable** down to 10%
- Colour 3000k/4200k



Living Colours

- Colour changing or fixed colour
- Remote controlled
- 2 year Warranty
- Clear or Black finish
- **Dimmable**



Imageo Tea Light Set



Led candles offer a safe alternative to tea lights for all environments, when fully charged will last approximately 12 hours.

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Occuswitch

Lighting controls offer an additional solution for energy saving and can be used in conjunction with LED lighting, the most common forms of controls are;

- **Movement Control** - which can simply switch the lights on/off or you can dim the area to a point and then increase the lighting when required.
- **Daylight Harvesting** - the sensor a intelligent daylight control which detects appropriate light levels and dims your luminaries or can switch them off, raising them again when the amount of day light starts to diminish.



Actilume

This range of products offers lighting designers improved flexibility with sensors and dimming;

- Simple intuitive solution to create dynamic lighting with Fluorescent lighting
- Can be operated stand alone, remote control or as part of a lighting network
- Compatible with open standard networks ie DALI, DMX or RC5
- Can control up to 400 fixture's
- Can be used with RGB LED products



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